IN THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPLEBENCH

IN

ORIGINAL APPLICATION NO. 61 OF 2024

INTHEMATTEROF:

News Item titled "Assam:
PCCF MK Yadava accused of
illegally clearing protected forest for
Commando Battalion" appearing in
the Northeast Now News dated
25.12.2023

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PLACE: DELHI

DATED:28/03/2024

Durit 295

Thakur Sumit, Advocate Counsel for Respondent No.1 Q-16B, Lower Ground Floor, Jangpura Extention, New Delhi-110014 Mobile No-9968454481

IN THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPLE BENCH

IN

ORIGINAL APPLICATION NO. 61 OF 2024

IN THE MATTER OF:

News Item titled "Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion" appearing in the Northeast Now News dated 25.12.2023

Climate Change (Respondent No.1)

IT IS MOST RESPECTFULLY SHOWETH:

I, Shri Wyatt Iroye Yatbon, S/o.- R. T Thangkhiw, aged about 50 years, working as Deputy Inspector General of Forests at Ministry of Environment, Forest and Climate Change, Regional Office, Shillong ('MoEFCC', RO, Shillong for short), do hereby solemnly affirm and state as follows:

Date 2

That I am holding the post of Deputy Inspector General of Forests in Ministry of Environment, Forest & Climate Change, Regional Office Shillong. I have made myself acquainted with the facts and Forest acquainted of this instant case and I have been duly authorized and

Si, Instrument No 3/2024

empowered to make and swear this affidavit for and on behalf of the Ministry of Environment, Forest & Climate Change and I am competent to do so.

2. That, the deponent has been served with a copy of the said application in which the deponent have perused and understood the contents/ allegations/averments/statements and/ or tenor thereof made in the petition. At the outset, the deponent denies all averments, submissions; statements and allegations made therein except as may be specifically admitted herein after.

Statement of Facts

3. It is humbly submitted that the 'land' is a subject matter of State Government. The forest areas and the legal boundaries thereof are determined and maintained by the concerned State Government. That, inter- alia, being the repository of land records, State Government has the primary responsibility to determine status of any parcel of land, giving

Deputy Inspector Géneral of Forests (Central)
quifaçor, qri qui orcidity uffadri ristorii
Ministry of Environment, Forest and Climate Charge
elifte analista, forest / Regional Communications

Acts and concerned judgments and directions of the Hon'ble Supreme

Court.

- 4. It is submitted that prior approval of the Central Government under Section-2 (1) (ii) of the Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 (earlier known as Forest (Conservation) Act) is required for carrying out any non-forestry activity on forest land.
- 5. That the answering Ministry vide its letter dated 16.01.2024 and subsequent reminders thereafter requested the State Govt, to furnish a detailed factual report in the wake of allegations of violation of statutory provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 by the PCCF/HoFF, Assam. Additionally, the answering Ministry on 16.02.2024 also requested its Regional Office, Shillong to examine the matter and send a detailed report.

The copy of the letter dated 16.01.2024 and 16.02.2024 is enclosed as Annexure- R 1.

- 6. That the State Govt. vide its letter dated 11.03.2024 replied to the Ministry's letter dated 16.01.2024. The report received from District Commissioner, Hailakandi submitted by the state *inter alia* mentions that due to encroachment and law and order situation there is a need of Commando Battalion. The Battalion could be the driving force for forest conservation, reforestation, taming the smugglers and for peaceful Interstate Border. (Copy of the letter dated 11.03.2024 is annexed as Annexure-R 2.)
- 7. That the Regional Office Shillong of the Ministry vide its letter no.

 F.NO.- RONE/E/O.A.No.61/24/PB/S/4081 dated 12.03.2024 sent its detailed site inspection report vis-å-vis allegations of violation of statuary provisions of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 by PCCF/HoFF, Assam. The said report has been examined in the Ministry and prima facie it has been observed that the use of forest land for non-forestry activities has been allowed without prior permission of the Central Government which is in contravention of the

Ministry of Environment, Forest and Climate Change ability and anderen, Reein / Regional Office, Shallon

Samvardhan) Adhiniyam, 1980. (Copy of the Site Visit Report is annexed as Annexure-R 3.)

- 8. That taking note of the aforesaid, the answering Ministry vide its letter dated 18.03.2024 directed the State Govt. to stop and discontinue the alleged construction activities forthwith. That vide letter dated 18.03.2024 the Ministry also requested its Regional Office Shillong to initiate action as prescribed under section 3A and 3B of the Van (Sanrakshan Evam Samvardhan) Adhiniyam. (Copy of the letters dated 18.03.2024 annexed as Annexure-R4.)
- It is respectfully submitted that this answering Ministry without prejudice reserves its right to file additional information till pendent-lite, if so required.

10. It is respectfully submitted that in view of the above mentioned facts, the replying Respondents humbly pray that the Hon'ble Tribunal may be

pleased to pass such order as deemed fit in the interest of the Justice.

itidavit the Depogent of BEPONEN (केंद्रीय)/

पर्यावरण, वन एक जलवायु परिवर्तन मंत्रालय अर्थ क्रिकांडारण विकारित है जलवायु परिवर्तन मंत्रालय

1 the Same of the

VERIFICATION:-

I, the above named Deponent, do hereby verify that the contents of the above counter affidavit are true and correct to my knowledge as per the records of the answering respondents. No part of it is false and nothingmaterial has been concealed there from.

Verified at Shillong on this 28th day of March, 2024.

DEPONENT

उप वन महानिरीक्षक (केंद्रीय)/

Deputy inspector General of Forests (Central) पर्यावरण, वन एवं जलवायु परिवर्तन में स्टब्स

Ministry of Environment, Forest and Chinate Change क्षेत्रीय कार्यालय, शिरलीय / Regional Ottice, Sauther

* BOTARY

N. WARNAREI

PLANT DISTRICT

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Government of India Ministry of Environment, Forest and Climate Change (Forest Conservation Division)

Indira Parayavaran Bhawan Jor Bagh Road, Aliganj, New Delhi-11003 Dated: January, 2024

To

The Additional Chief Secretary (Forests), Government of Assam, Guwahati

Sub: In Suo motu matter in re: News item appearing in The Northeast Now dated 25.12.2023 entitled "Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion" pending before Hon'ble NGT (PB)-Reg.

Madam/Sir.

This is in apropos with the above stated matter wherein the Hon'ble Tribunal based on the media report tilted Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion took suo motu cognizance of the matter. The report further stated that PCCF MK Yadav allegedly bypassed mandatory procedures under the Forest (Conservation Act, 1980, to grant permission for the construction of the Assam Commando Battalion Unit headquarters. (Copy of the news report enclosed for ready reference).

In view of the aforesaid order, it is requested to furnish a detailed factual report in the instant matter to this Ministry for further necessary action.

The next date of Hearing in the matter is 23rd January, 2024.

Kindly treat it as most 'Urgent'.

Yours sincerely.

Encl. as above.

Signed by Sd/Suneet Bhardwaj (Suneet Bhardwaj)
Date: 16-01-2024 **Resistant Inspector General of Forests

Copy to: Sub-office Guwahati of Regional Office, Shillong of MoEF&CC with a request to coordinate with the State Govt. for immediate necessary action in the matter.

Government of India Ministry of Environment, Forest and Climate Change (Forest Conservation Division)

Indira Parayavaran Bhawan Jor Bagh Road, Aliganj, New Delhi-11003 Dated: February, 2024

To

The DDG Forest(C), MoEF&CC, Regional Office, Shillong

Sub: In Suo motu matter in re: News item appearing in The Northeast Now dated 25.12.2023 entitled "Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion" pending before Hon'ble NGT (PB)-reg.

Madam/Sir,

Please refer to your letter No. RONE/E/O.A. No.61/24/PB/AS/3717 dated 14.02.2024 in the above stated matter wherein the Hon'ble Tribunal based on the media report tilted Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion took suo motu cognizance of the matter. In this connection, a copy of reply affidavit filed by PCCF & HoFF in the Tribunal has been received in the Ministry vide letter No. FG.58/OA (Suo-Moto) No.61/2024 dated 7th February, 2024 which is enclosed for reference.

In view of the aforesaid, the Regional Office Shillong is requested to examine the matter in detail and submit a factual report with specific recommendations for further necessary action in the matter at the earliest.

Yours sincerely.

Encl. As above.

Signed by

Suneet Bhardwaj

Sd/-

Date: 16-02-2024 16:19:01

(Suneet Bhardwaj)

Assistant Inspector General of Forests

Copy for information and necessary action to: Guwahati Sub-office of Regional Office, Shillong of MoEF&CC.

ANNEXURE-R 2

GOVERNMENT OF ASSAM ENVIRONMENT AND FORESTS DEPARTMENT DISPUR, GUWAHATL

Email. Id. environmentforestassam@gmail.com

ECF No.437034/180

Dated Dispur, the 11th March, 2024

From :

Neera Daulagupu, ACS,

Secretary to the Govt. of Assam, Environment and Forest Department

To

Shri Amit Anand

Assistant Inspector General of Forests Indira Parayavaran Bhawan, Jor Bagh Road,

Aliganj, New Delhi-11003

Sub

Report on Suo moto matter on News item appearing in The Northeast Now dated 25.12.2023 entitled "Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion" pending before Hon'ble

NGT (PB)-Reg.

Ref

i) Letter dated 16.01.2024 by AIG Forest, MoEF & CC

ii) Letter dated 06.02.2024 by AIG Forest, MoEF & CC.

Sir.

In inviting a reference to the subject cited above, I am directed to forward herewith the Report received from District Commissioner, Hailakandi as sought for, for your kind information and necessary action.

Enclo: As stated above.

Yours faithfully,

Secretary to the Government of Assam Environment and Forests Department.

Memo ECF No. 437034/180-A

Dated Dispur, the 11th March, 2024

Copy to:

 P.S. to the Addl. Chief Secretary to the Govt. of Assam, Environment & Forest Department, Dispur, Guwahati-06.

> (E-signed) Secretary to the Government of Assam Environment and Forests Department

291



GOVT, OF ASSAM OFFICE OF THE DEPUTY COMMISSIONER HAILAKANDI (REVENUE BRANCH)

No.HRC.7/2024/18

Dated: Hailakandi the 28th February, 2024

To.

The Secretary to the Govt. of Assam, Environment and Forests Department, Dienus Gunahoti 6

Dispur, Guwahati-6.

Sub:-

Submission of report in OA No.61/2024 regarding Media report Northeast Now dated 25/12/2023 entitled "AssamPCCF MK Yadav accused of illegally clearing protected forest for Commando Battalion".

Ref:-

Govt. letter ECF No.437034/145 dated 22/02/2024.

Sir.

With reference to the subject cited above, I have the honour to submit herewith a report/ comment in OA No.61/2024 in connection with Media report Northeast Now dated 25/12/2023 entitled "Assam PCCF MK Yadav accused of illegally clearing protected forest for Commando Battalion" for favour of your kind information & necessary action.

Enclo:- As stated above= 35 sheets.

Yours faithfully,

District Commissioner,

Hailakandi

Comments/ Report on the Suo Moto matter "Assam PCCF MK Vadava accused of illegally clearing protected forest for Commando Battalion" in notice OA No.61/2024 of the Hon'ble National Green Tribunal, Faridkot House, Copernicus Marg, New Delhi.

- Hailakandi district is situated in the southernmost tip of the State of Assam having an
 inter-state border with the state of Mizoram in the south-east direction and with Cachar and
 Karimganj district of Assam in east and in the west direction respectively.
- 2. As per the report submitted by the Divisional Forest Officer, Hailakandi (Annexure-A) there were constant attempts made by the miscreants inside the Inner Line Reserved Forest (ILRF). This attempts have also lead destruction of trees, buts etc. Following the sequence of event, then Divisional Forest Officer, Hailakandi had written to the Superintendent of Police, Hailakandi for provision of special Armed Forces for protection from further encroachment for forest conservation and for maintenance of law and order situation along the border (Annexure-B). Subsequently, the Superintendent of Police, Hailakandi has requested for Commando Battalion vide letter No.KHD/B/91/2021/324 dated 24/07/2021 to the higher authorities (Annexure-C). Also, in a letter written by Superintendent of Police, Hailakandi to the Divisional Forest Officer, Hailakandi vide No.KHD/B/91/Vol-III/2023/224 dated 26/06/2023 (Annexure-D) assurance has been given this Commando Battalion would be for preservation of natural resources, for stopping further encroachment and would ensure the ecological conservation and reforestation activities. As reported by Divisional Forest Officer, Hailakandi in his report that 189 trees are not required for felling because most of the proposed construction site for quarter and barracks have been selected in encroached agricultural land.
- It is also pertinent to mention here that the Assistant Settlement Officer (ASO), Katlicherra
 in his letter No.ASO.KTC/Misc/2020-21/04 dated 22/07/2021 has stated that no suitable
 revenue land is available for the construction of the Battalion.
- In conclusionand in view of the encroachment and law and order situation, there is a need
 of Commando Battalion. The Battalion could be the driving force for forest conservation,
 reforestation, taming the smugglers and for peaceful Interstate Border.

District Commissioner, Hailakandi



GOVT. OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER::HAILAKANDI FOREST DIVISION::HAILAKANDI

Letter No. HKD/DFO(T)/Border/ 271

Dated, 17-01-2024

To.

The Principal Chief Conservator of Forests and Head of Forest Force, Assam Panjabar, Guwahati-37

Sub: Submission of report regarding encroachment by neighboring State Mizoram in adjoining area of interstate border boundary of Assam Mizoram in Inner Line R.F under Hailakandi District.

Ref:- This office letter No. HKD/DFO(T)/Border/2nd Commando Battalion Unit/255-58 Dtd. 13-01-2024

Sir.

With reference to the subject cited above, I have the honour to submit enclosing herewith the report on encroachment by neighboring State Mizoram in the adjoining area of interstate border boundary of Assam Mizoram within Inner Line R.F under Hailakandi District together with photographs of encroached area occupied by Mizoram Govt., Mizo people in Dhalcherra Paisan area. In addition to that photographs of other intended encroachment activities in the areas under Gharmurah/Kukicherra and Matijuri Range which have been prevented time to time by the Police, Civil authority and Forest Personnel of the Hailakandi District. A Google map showing the area of encroachment and other activities of Mizoram Government is also appended herewith.

This is for favour of your kind information and necessary action.

Enclos- As specified.

Submitted

(A. Dutta, AFS)
Divisional Forest Officer,
Hailakandi Division, Hailakandi

Copy to the District Commissioner, Hailakandi For favour of his kind information and necessary action.

Brief History of Assam – Mizoram bordering area falls under Hailakandi Forest Division.

Length of bordering area under Hailakandi Forest Division – About 92.0KM.

Over 1000Ha reserved forest land in Inner line R.F under Hailakandi Forest Division has been illegally occupied by the Mizoram with a plea of interstate boundary dispute in eastern and southern boundary of the district.

As regards eastern boundary:- That, Government of Mizoram has occupied about 575 Hectares of reserved forest land within Inner Line Reserved Forests at Dhaleherra/ Phaisan area adjacent to the interstate border area of Assam and eastern boundary of the Hailakandi District since long back. It was before inception of this division i.e. 07-07-1992. Mizoram Govt. erected a boundary pillar depicting therein "WELL COME PHAISEN MIZORAM" covering the illegally occupied area of Assam land on the stretch of Samarikuma – Gaglacherra –Bilaipur-Phaisen Road at Dhaleherra. The said encroached area falls under Dhaleherra Beat, Matijuri Range, Hailakandi Forest Division. In the said encroached area Mizoram Govt. has installed/constructed various Govt. and private establishments. The area is under maintenance with implementation of different improvement works extended by the Mizoram Govt. time to time. The Border out-post(B.O.P) of both Assam and Mizoram now situated nearly 10km from Assam-Mizoram Border within Assam.

As regards southern boundary:- That, the tendency of occupying the R.F land of Assam in Kachurthal areas near interstate boundary of Assam Mizoram by the Mizo people in different events, such as construction of waiting shed, roads, installation of temporary porch etc. are chronic quandaries, though the endeavors of Mizoram have been prevented from this end time to time by immediate intervention of BOP, Police Forest and civil authorities.

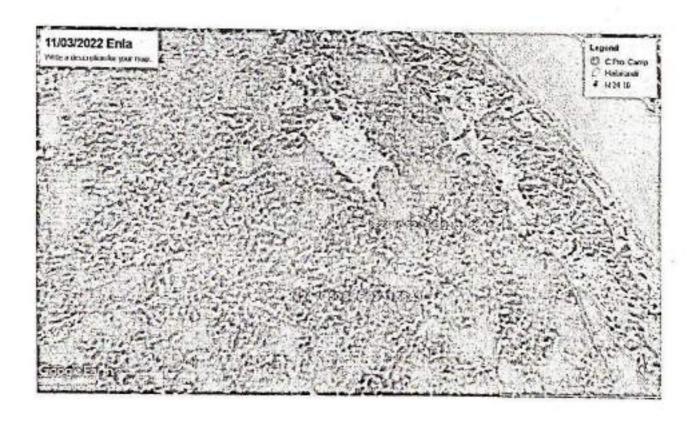
Readily available some photograph, maps and paper cutting etc. are annexed herewith for ready reference.

Illegal encroachment of two Nos. temporary Huts at Sahabmara area in Inner Line Reserved Forest under Gharmurah Range, Hailakandi District.

On 11-03-2022 the staff of Gharmura Range along with O.C. Ramnathpur Police Station and other Armed Personnel visited the place of occurrence and dismantled one abandoned temporary hut at Sahabmara area under Gharmurah Range in Inner Line Reserved Forest constructed by Bengali encroacher. As regards another illegally constructed temporary hut done by Mizo people, the local Circle Officer and Police Officer of Mizoram appeared at the place of occurrence and approached to O.C. Ramnathpur and the Staff of Gharmurah Range and requested not to dismantle the temporary hut at that moment because they will remove the said hut within three days. The area is adjacent to interest border boundary and hence to maintain the law and order situation. Our officers have returned back from the place of occurrence agreed with the assurance given by the counterpart officials.

A Googol Earth Map showing GPS, Coordinates of the recent detected encroached huts is annexed herewith for ready reference.

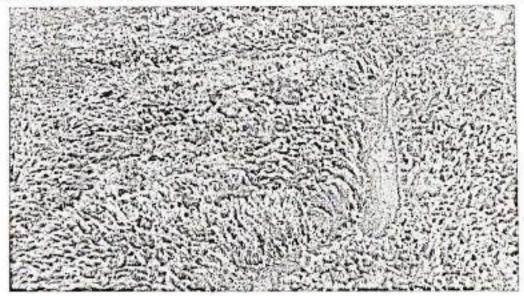
A Map Showing illegal encroachment of two Nos. temporary Huts at Sahabmara area in Inner Line Reserved Forest under Gharmurah Range, Hailakandi District.

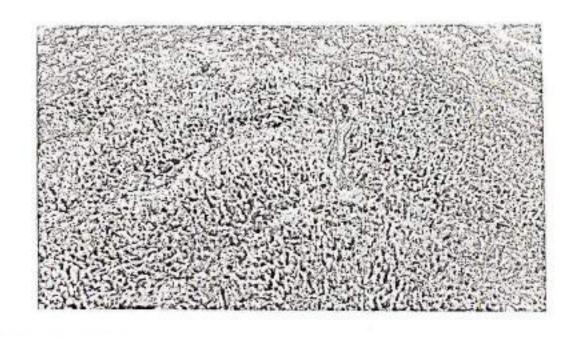


Illegal construction of road At upstream of Haticherra within Inner Line Reserved Forest, Kukicherra Range under Hailakandi Forest Division.

On 21-11-2021 it is detected that Mizoram Govt. has started construction of a Road by Earth cutting at upstream of Haticherra area within ILRF under Kukicherra Range. The said road is about 2:00 KM (Aerial distance) inside Assam territory from the Inter State Border Boundary of Assam-Mizoram. A point of GPS Coordinates (N 24°21′15.5″ E92°38′23.6″) on the said road has been taken by the staff of, Kukicheera Range. The newly constructed road length is about 3.50 KM. There is no human habitation is in and around the vicinity of the road. Some photographs of the said road are enclosed herewith for ready reference alongwith Google Map

Photographs of Illegal construction of road At upstream of Haticherra within Inner Line Reserved Forest, Kukicherra Range under Hailakandi Forest Division.

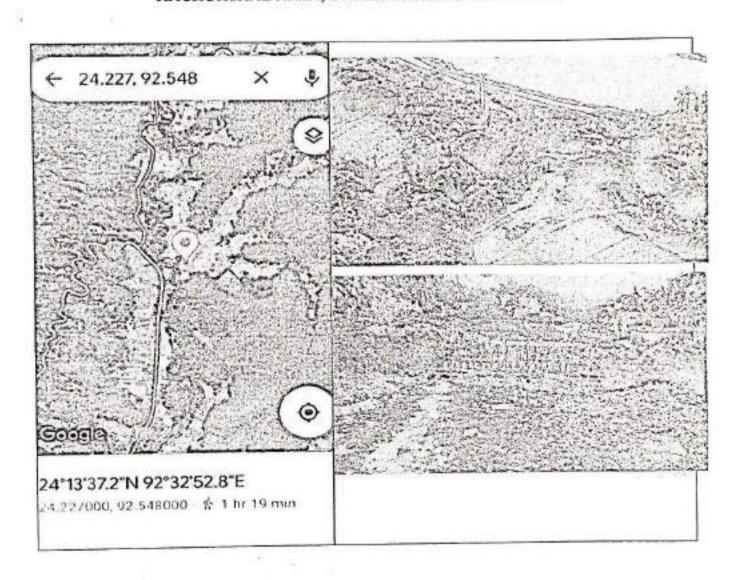




Illegal construction of RCC culvert over Bhairabi cherra in Inner Line Reserved Forest under Gharmurah Range, Hailakandi District.

On 26-10-2021 the Range Forest Officer, Gharmurah Range has informed that the Mizoram Govt. has again started re-construction of incomplete RCC culvert over Bhairabi cherra. Three nos. Photographs of the constructional works of RCC culvert are annexed herewith.

PHOTOGRAPH TAKEN ON 29-09-2021 OF RCC CULVERT OVER BHAIRABI CHERRA, KACHURTHAL AREA, UNDER GHARMURAH RANGE.



Illegally construction of Temporary Camp along with 2 KM road have been constructed by Mizoram Police at Kachurthal - Balicherra area within Inner Line Reserved Forest under Matijuri Range, Hailakandi District

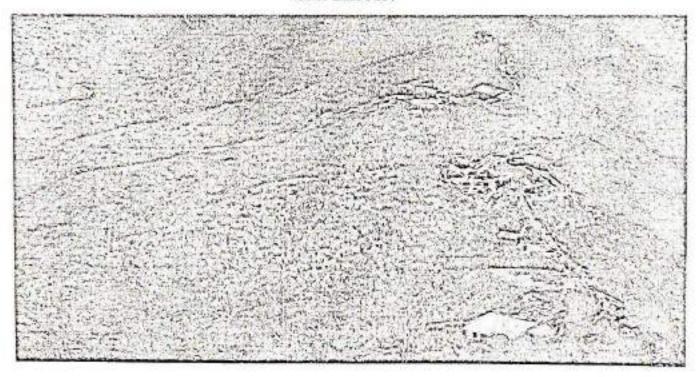
On 02-09-2021 accompanied with the Superintendent of Police, Hailakandi and other Police /Forest personnel have visited the Kachurithal-Balicherra area within Inner Line Reserved Forest under Matujuri Range, Hailakandi District, wherein it has been noticed that another Temporary Camp along with 2 KM road have been constructed by Mizoram Police at Kachurthal - Balicherra area within Inner Line Reserved Forest under Matijuri Range, Hailakandi District, Assam. Two numbers of photographs of the newly constructed camp and road are annexed herewith.

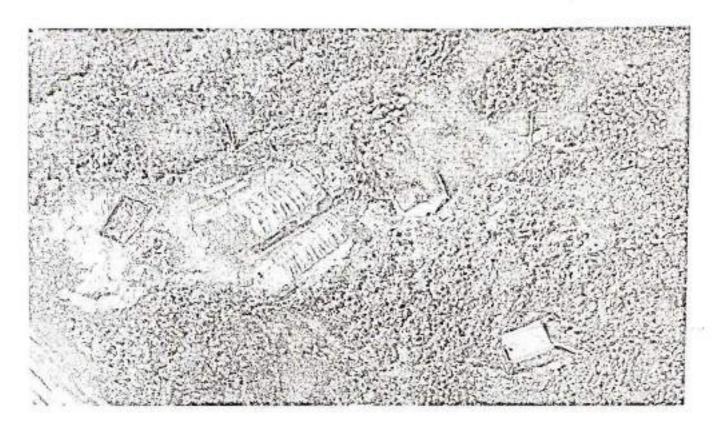
Drone Photograph of improvement of Road by Mizoram Govt. in Inner Line Reserved Forest area under Matijuri Range, Hailakandi District, Assam.

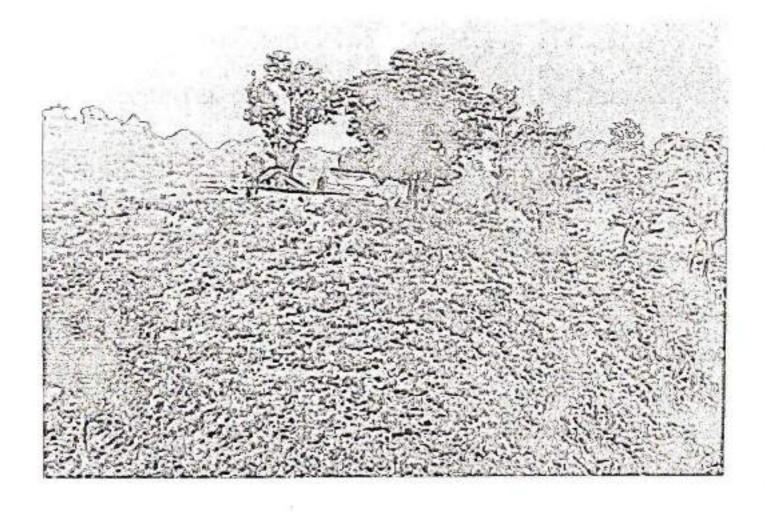




Photographs of temporary constructed camp hut by Mizoram Police clearing the Forest cover in Inner Line R.F.

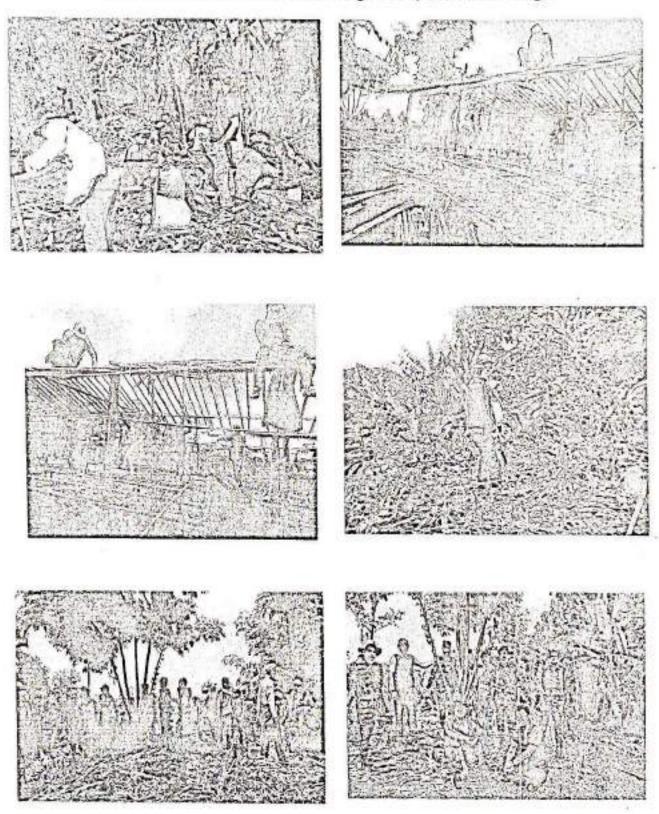




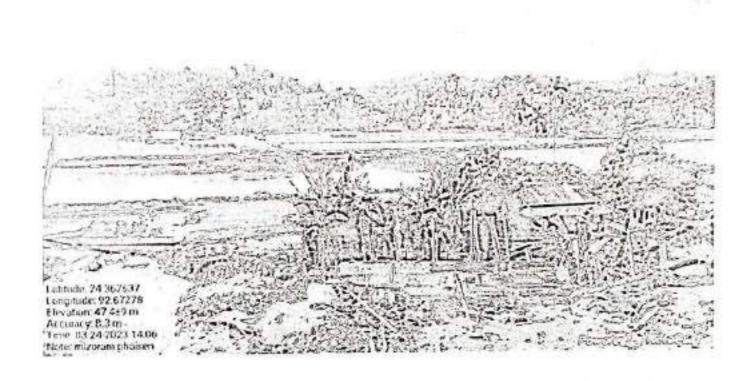


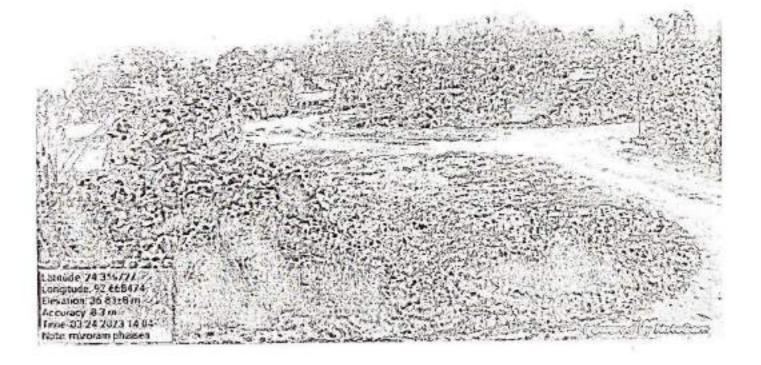
On 13-07-2021 it is detected that illegal Construction of Mizoram Police barrack in Inner Line Reserved Forest area under Gharmurah Range, Hailakandi District, Assam.

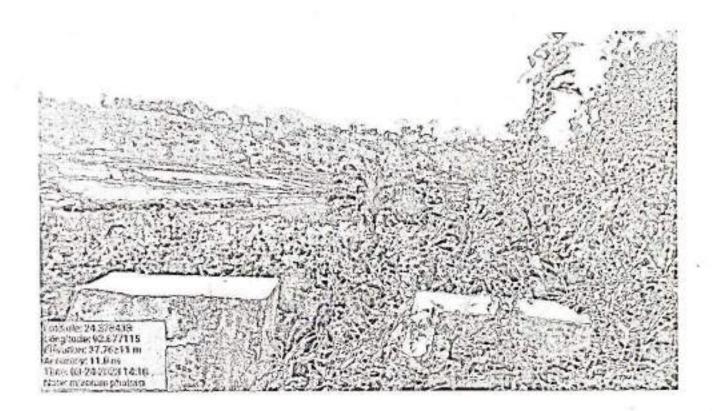
On Photographs of Illegal Construction of Mizoram Police barrack in Inner Line Reserve Forests under Gutguti BOP, Gharmurah Range.

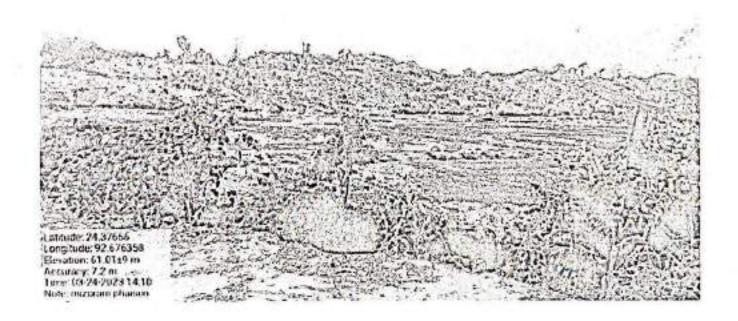


Photograph of Mizo encroached area at Paisan in Inner Line R.F. under Hailakandi Forest Division

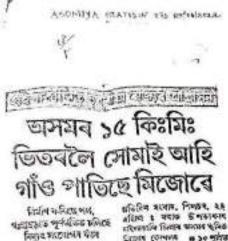








Add Paper cutting GPS coordinates and a Google MAP Showing the encroached area. Area in hectares etc. also fill up in the format.



THE WALLSTON

affine t weis Smeinen SCORE COMMA # 30 900 ্রহান নামেরী হন কটোনে পরিতেই আগতহে বানলৈতিক আগতার। আলোড হলে করা প্রকালত হয়। অসমৰ ১৫ কিঃমিঃ ভিতৰলৈ সোমাই আহি গাঁও পাতিছে মিজোৰে

বিও স্থাপন, পৰা নিৰ্বাণ সম্পূৰ্ণ কৰাৰ নিচক এইবাৰ অন্যাস মন্ত্ৰিক স্থান , মিতপতশীয়া কৰাৰ বাবে নিয়োলনৰ চৰকাৰে নিয়াৰ সম্পোধন বাব আৰম্ভ दरिए। ध्यमन प्रतित सङ्ग्रीक निर्देश कर्त भाग प्रतित विद्यालाम ल्युर परिवारी क्षेत्र कृत त्याया, क्षेत्र कृत स्वय गूर्णावस्य बारवास्त्रास হুইলাক্ষণিৰ গুৱাহনত কিলোহেৰ আনহাইছে নিচুৰ স্বয়েনৰ খনে। অসমৰ মাতিত নিজেৰাৰে নৈয়ুতিক ধৰি মন, খুন সৈতা ধৰ্ম সম্বৰ্তত ব্যিনভয়নীয়ে অসম অবস্থান বাব নিছে যদিও এই বাম নিস্কু বছ চেবা इति। भीनाएक पान पान पानकीर वन पानकी पान लिएर भारतान दार हों। लाख, ध्वेर केंद्र स्मिक्स्टल प्रांथनि यह रतिव प्राप्ते हेर्जीड प्रदान लिएड लूमन बाद कमड निर्माणिक एवं निर्दात पूर्वडा हेजनराम्य ता एवक छण्डालक विस्तानम जाजनीतक वीनतन कियी ३७० विकासिया होगान बन निकासिया बहिनामधि विकास ব্যাৰ্থত। আন্তাৰ্থনীয়ত দীয়ালে পৰা হাম পোনৰ নিম্নোনীয়ে আনৰ তিৰ অন্যান্য চৰাই বিভোগেৰ পৃতিটাত প্ৰৰ বিভাগৰৰ সংস্থা क्षीत्। वरे तम बीट्रेंग होन्- स्ट्रेन्सन-सामस्ता, स्वानगठीहरी काल सहित्स, कीकी-येतीय बाद लक्का-प्रिनायक्ता। धरे ক্ষুতেইটাৰ সুৰোধানে বিশ্বৰ বিনাসেইটাত মিলোগাৰে প্ৰথমিটী থাকা ,राज्यन वर्षमञ् पृद्द प्रदेश रहिर श्रंट श्राप्त करिए। बर्डिया बर्ड

ं तथन पूर्वान भव । यस वक देशपालंग की लोहकेन कहिए। चौकाहरू शिष्ट महत्त्वन हितने बात प्राप्त करिए विद्यालया। देख बंध प्राप्त - कर्म कर वेदा वक्त देशपालंग की लोहकेन कहिए। चौकाहरू शिष्ट महत्त्वन हितने बात प्राप्त करने कर वात चान बेहान महिड रिर्मान करा नथा साम्छ क्षेत्र एकडा, धान देना नाम চনাইছে মিজেবাস। স্থানীয় প্ৰতিক আৰু হিচানে পুডিক আৰত বাৰি নিয়ে লগা আন্টোর এই বান চনাই গৈছে। ইয়েবালীয় বে নিয়েগুটো অনুত্ৰ সমূহত ভূমি হয়ন কৰি এইবাৰ কৰু নিৰ্মণ আৰু খাঁও ছালন কৰা বার্যা নিয়ের অনিক্ষেত্রিত হসের ক্ষেত্রণ ক্ষেত্রণ করিবারী করমের হান কৰ নাই। তলুকা হাইনাগৰিক মিজেয়ন সীমাজনী এলাকাত कत्त बहारीर क्षेत्र मीन्छ की बाद्य। यह भीन्छ क्लेस्स्का इंच कारका प्रमाणन बहरूका स्थापन वहेंच्या कारका हिन्द মীৰত চনীত নিজেকৈত আফলিয়ে নিজেন আন্তৰ্যন খেন কৰিব পাঁচ গুটা বধ দিন্দি কর, বাঁও স্থাপন করা অকলসমূহত অসন আর্থনীন কর উপুতি হ'বলৈ যা সভল প্ৰয়োল হল। মানুধৰী আৰু কটোকলে হৰে नार्त्वीत के चरित्रय कीरह चमन च्याकी छेन्द्रिक इंच काल एकाल তাৰ ভাৰ। এই আহৰ সুকো লৈনে নিছে ভিতৰটোত ভিতৰত হমাৰে যতিও দকা নিৱলংগীয়ে কাম বাবে ইটোৰ নিৱত নিটো প্ৰৱেশ টাটো বান কাণেকৰ পেণ্ডেটা সহায়কৰ হৈছে নিযুহ সহায়ক। নিযুহ সংযোগ দি নিয়েবন চানেরে অসমৰ অঠিত ছুগুন করা গঠৈত ব্যৱসায় স্কৃতিবাত মহেলিত কৰে প্যাহল টাহে। ইয়াৰ বিনহৈত স্থানীয় প্ৰশাসন ভথা অনা দেখাৰ বিষয়েক লৈ আগানা কৰিছে দীনেটো।

হাইলাকান্দির যিজোদের দখল করা জয়িতে মায়ান্মারিদের পুনর্বাসন!

নিয়ৰ প্ৰথিনিত্তি, ভাটনিয়ান, ২৫ क्षीत्रमः । च्यानावर्गम्य विद्यालय STEEL FOR SAME SCREEN ভিত্ৰের। ক্ষাস্ট্রের করি দশত করে প্রাবহারে পার করারে কৈনুভিত খুঁট ने प्राप्त विद्यासः अक्ष अस्प्रदर्शन वर्षा বালবে ক্রমনেত প্রতিয়ন্ত্রণ জেন্দ্র proper comme on cost क्याना की स बालाय समान गाँउ যায়ত। নিয়োৱা খুঁট গোৱার । যামের ক্যাক্ষরি খ্যানতহারে Complete and section (C. C.) তালেনে ইবানিকালে সন্তব্যক্তি কুমানার আর ভার করে ইতিহান। बंदमार प्रज्ञ काम स्टब्स्ट सह प्रति श्रीकृष्ण प्रज्ञित स्टब्स्ट Machina core core proces a sola

भरत्या दगन्छ धविदाय गाप प्रकृति।

कर्पादि, भावनास 1452 পার্যাত ভারুগালের পানে বৃত্তি স্থানাপ্রার লোপ মানুস পান্যানী স্থান Figuração solam Picacção নিবেলেৰে প্ৰতিভাগ কৰাৰ মহান post for Booker and MACHA DES WHENE WIT তিলেল ধরণ হলে অভিযান भूत्याम् नित्रं क्यं भूतिकवास्य भूत्य টোছে বলে হাইসালানি নিজোনে FIRST CHIEF WILL

शह बदा चाउठ कान हमाह. CONCE ALTER MANAGES ALLE क्रमाच्या पारस्का, चारित्यत परव अल्लेड काल कात बाक्स बाहिएस

क्षारण करत निरादा की कारण POCKETS WHEN PRINCE WOR WAS सामार्थ। व वृष्टी आप रिवृतिक वृष्टि ्रिकार काल नव नार्वात प्रभावत क्षक जाक ताल नहीं स्थापक स्थाप অনুহত বিশ্ব

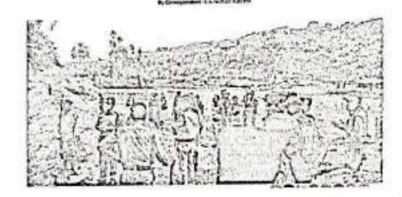
75074 1.06. भविष्णान्यः न्द्रं विन्द्रभवन्ति क्षण कारण की दानकी चीटाई कार्र कार्य कार्य की प्रतिकार की প্ৰসূত্ৰকাল যেতে আন্তৰ্গুৱন্ত কৰিছ विश्वास्त्र प्रकार अन्तर्भ भवन द्राप অনুমে নিটে হকা হিচালেন্ড হানীয়ে বেগ ১ ত চলেছে। মুখ্যতী বিবাহিত শাসনিয়েরমের नवल कवि क्थिन इस्टेस्ट इक्स्टर CONTRACTOR NAMED

হিছিলাকাশির

মিজোদের দবল

প্রাচন্ত্র মনে ক্ষেত্রণ ক্রেব special special algorithms MANAGES MIL CORNE MICHA non with from filtre weres धाक्रक विद्यासम्ब भारतस्य क्रांम মিবাসে কেন্দ্র সংস্কৃত বার দিয়ে পরে बहुन अनुबन्धाः अस्य ध्याप्त हरिकालांगा बंदाव स्थाना सुद्ध ENDING ENDOYION WE FEDER DOMESTIC:

305 Situation along Assam-Mizoram border continues to be tense as 2 houses burned down



Harlakndi. June 6; Tension continues in Assasa-Mizoram bordering Gutgut; area of Hailakandi district after the burning of two houses

Harlakanda Superintendent of Police, Ramandeep Kaur today said that the two cases have been registered regarding the burning of houses and construction of structure by the miscreants from Mizoram within Assam land. She said that the inquiry has been initiated to find the miscreants behind the burning of houses and illegal construction of structure within 300 meters inside the Assam land from the border. She said that after the tension in the border a few months back, people vacated the houses near Gallacherra BoP and the miscreants burnt down the two houses in the area.

Also Read - ACKO conducts free hearth check-up camps for tea plantation workers in Assam

Gallacherra BoP is totally abandoned, she added. Regarding the construction of structure in Assam land by the Mizo miscreams. Kaur said that the area falls under inner line reserve forests covered by jungle and it is very difficult on the Assam side to reach the spot. SP Kaur informed that the matter has been taken up at the higher level in Mizoram and hoped that the issue would be sorted out shortly with the intervention of both the states. She admitted that the demarcation of the bordering area has not been accepted by all and problems created due to this. Security forces have been placed in the area, she added.

Also Read - Prez Murmu's visit to Assam's Karbi Anglong cancelled due to bad weather

Assam shares a 164.6 kms border area with Mizoram.

It is reported that the suspected Mizo miscreants set fire to the houses of Ali Hussain and Saidul Islam on Friday might in Gallathherra village bordering Mizoram under Ramnathpur police station area of Hailakandi district.

Although they were not at home during the time of the incident. The deputy commissioner Rohan Kumar Jha, Superintendent of Police Ramandeep Kaur, Officer in Charge of Ramnathpur Police Station, Liton Nath and other forest officials rushed to the spot and took stock of the situation.

Correspondence made with District authorities

GOVT OF ASSAM

OFFICE OF THE DIVISIONAL FOREST OFFICER: HAILAXANDI FOREST DIVISIONAL FOREST DIVISIONAL FOREST OFFICER: HAILAXANDI FOREST DIVISIONAL FOREST OFFICER: HAILAXANDI FOREST DIVISIONAL FOREST DIVISIO

Letter No. HKD/DFO(T)/Border / Encroachment/1265-67

Dated, 04 -05-26-20

Mesterens

The Deputy Commissioner, Hailakandi

Regarding encroachment by Mitoram in Inner Line RF under Gharmurah Rango, Iradicians, Fr. 1155 Sub: Division, Hailakandi District, Assam.

Your telephonic instruction dt. 02-06-2021. nef:

Sir,

I have the honour to inform you that as per your instruction under reference ever this you regarding illegal encroachment by Mizo people in the adjoining area of Assam (Alzoreta 'nterstate burder boundary in Bicherra area under Gutguti BOP I along with District Developmen. Commissioner, Halfakandi, Addl. S.P., Halfakandi, Range Officer, Gharmurah and other Police and Forest person to the 19 proceeded to Gutguti B.O.P. and have reached there in the evening on that day. Due to a fit thurs we could not proceed to Betcherra area on the same day but all of we have stayed the night at Gutzoti 30P. The next morning Le on 03-05-2021 we have proceeded to Betcherra area but before resching in the alleged location it has been learned from a local Reang pedestrian that i good nos, of ermet betts ich of favorum have been in ambushed position surrounding the offegad entroached hause. As such in solf, ODC and Add!. S.P have decided that it is not wise to proceed further more without one are gifted that it is not wise to proceed further more without one are gifted. reality. Thus we have sit under a tree and armed forces along with us taken position to each the operation. Thereafter we send only three persons in The I/c Range Officer Sr Profile (\$ 'th D₁, *11*get con Police officer, one Forest Guard Kabir Hussain Mazumder and one dally ebour Suya's Bookin Buildhuiya to observe the situation. Accordingly, the Police Officer, Fores: Suard Lacir Husselm Mazumeler and one daily labour Suyab Uddin Berbhulys, have approached near to the lengtheath ause and request for providing drinking water saying that they are in Parest patrolling only. The end term is a found 12 Nos. IPBN under Mizoram Police are in embushed position under different bushell a guarantee recrarched house. Forest Guard Kabir Hussain Mazurador asked the name of touse huide in a word less. in reply the house holder devices to disclose his name and stated that now he is in Mathach and it is 1 and it is 1. may be known from the D.C. Marnit of Misorarr. Then the Forest Guard Kabdis nessain that here's rack. fully taken the GPS coordinates of the house standing at the porch of the 12... of 10 of 10 en photographs of the house. As there is armed battalion and conversation is turning treve of sinhalities and doubtful approach. They have comeback and stated the above facts and it is also the control of the state of t has been executing since last year. Thus we insturn back to Gutguti BOP and discusse the area for with you in presence of SP Hallakandi at Gutguti 602 on 01-06-2021 even re. Afternatur his array in the my H/Osr at Hailakandi.

The Photographs and the taken GPS coordinate showing in Google Map are enclosed here with for ready reference.

Under the circumstances above I would like to inform you that as per Google Map the alleged encroached house under construction is within inner Line Reserved Forest as par the recorded GPS coordinates. But the Mizo house holder stated the land is in Mizoram, Moreover the area is adjacent to border boundary of Assam Mizoram. As such there is a possibility of error on the part of the householder whereas the Mizoram Govt. is always confused about the border boundary of Assam Mizoram fails a ruler Gharmurah Range along with inner line Reserved Forest boundary as revealed from the existing records. So the matter may be taken up with the counterpart D.C Mamit, Mizoram for discussion and to learn their opinion in to the matter for taken further step if deem fit and proper.

This is for your kind information and taking needful action.

Enclo:- As specified.

Yours faithfully

(M. All, AFS)

Divisional Forest Officer Hailakandi Forest Division, Haila tandi

Copy to:-

The Chief Conservator of Forests Southern Assam Circle, Silchar for kind information and natestary action.

2. The Superintendent of Police, Hailakandi for kind information and necessi-

Divisional Forest Officer

Hallakandi Forest Division, Hallakandi



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GOVT OF ASSAM

OFFICE OF THE DIVISIONAL FOREST OFFICER: HARLAKANCH FOREST DIVISION:: HAILAKANCH Letter No. HKD/DFD(T)/Border / Encroachment/1283-85 Dated, 05 05-2021.

The Deputy Commissioner, Hallakandi

Regarding the incident of burning of 2 (Two) nos, encroacher's house at Gollacheraa within Inner Line Reserve Forest under Gharmurah Range, Hailakandi Forest Division during last night (04-06-2021).

Our telephonic discussion dated, 05-06-2021.

Sir,

With the subject cited above, I have the honour to inform you that an incident of Burning of 2 (Two) Nos. cottage of Encroachers took place on last night at Gollacherra within Joner Line Reserve Forest under Gharmurah Range by suspected Mizo miscreants as reported by the I/c Range Officer, Gharmurah . Photographs of burned down cottage along with GPS coordinates shown in the Googla Map are lengoed herewith for ready reference. The detailed report will follow.

This is for favour of your kind information.

Endo:- As specified.

Yours faith

(M. Ali,

Divisional Forest Officer Hallakandi Forest Division, Hallakandi

The Chief Conservator of Forests Southern Assam Circle, Silchar for kind information and necussary

The Superintendent of Police, Hailakandi for kind information and necessary again.



OFFICE OF THE DIVISIONAL FOREST OFFICER::HAILAKANDI FOREST DIVISION::HAILAKANDI Letter No. HKD/DFO(T)/Border / Encroachment/Matijuri/1440-41 Dated, 27-06-2021

To,

The Deputy Commissioner, Hailakandi

Sub:

Regarding construction of most temporary shed at Kachurthol (Balicherra) encroached area under

Dhalcherrra BOP.

Your telephonic instruction dt. 27-06-2021. Ref:

Sir.

With the subject and reference above, I have the honour to inform you that on receipt of your instruction dt. 27-06-2021 I along with DSP, Border, Circle Inspector, Lala I/C Range Officer, Matijuri, armed police personnel, other forest and police staff went to Kachurthal area near Balicherra under Dhalcherrra BOP and found a most temporary shed at Kachurthol (Balicherra) at GPS Coordinated 24°29'12.35868"N 92°44'28.13208"E in the Mizo encroached area occupied by Broom cultivation. The area of Broom cultivation is about 120 Hectors. During our visit nobody found in the location. The area is already encroached by Mizoram with the plea of interstate border boundary of Assam Mizoram since long. back. As per Googol Map the area is within the Assam and distance of nearest border boundary is about 847 Meter. The said location is within Inner Line R.F and under Matijuri Rango.

This is for favour of your kind information and necessary action.

Yours faithfully

(M. Ali, AFS)

Divisional Forest Officer Hailakandi Forest Division, Hailakandi

Copy to the Chief Conservator of Forests, Southern Assam Circle, Silchar, for kind information and necessary action.

Copy to the Superintendent of Police, Hallakandi for kind information and necessary action.

GOVT OF ASSAM

OFFICE OF THE DIVISIONAL FOREST OFFICER::HAILAKANDI FOREST DIVISION::HAILAKANDI

Letter No. HKD/DFO(T)/Border / Encroachment/ 1795-67

Date: 14/07/2021

To

The Deputy Commissioner,

Haifakandi.

Sub: Illegal Construction of Mizoram Police barrock in Inner Line Reserved Forest area under

Gharmurah Range, Hallakandi District, Assam.

Ref:- Our discussion dt. 13-07-2021.

Sir.

With the subject cited above, I am to inform you that on 13-07-2021 the staff of Gharmurah Range have been reported regarding illegal construction of a new Police Barrack by the Mizoram Police and IR Battalion in Inner Une Reserved Forest under Gharmurah Range, Hailakandi District, Assam. On 14-07-2021 I along with S.P. Hailakandi and other Forest, Police personnel and Armed forces went near Boraghar area but could not proceed further more due to disorder of road condition. Another team together with C.O. Kellicherra, O/C Ramnathpur P.S, I/C Range Officer, Gharmurah, Forest and Police personnel proceeded through Gutguti BOP track and visited the aforementioned place of occurrence. And it is seen that huge nos. of Mizoram Police and IR Battalion are staying in the newly constructed Barrack. On conversation with the Mizoram Police and our team they stated that the area is within the Mizram State and hence they are constructed the Barrack. The Mizoram officials at the Barrack are strictly rigid with their opinion. In view of maintenance of peace and tranquility in the intenstate border area of Assam Mizoram no further step against the encroachment could be initiated. The GPS coordinates of the new encroached area is 24° 09'13.9"N 92° 27'42.7"E which Is well inside the Assam territory. The location the encroachment is shown in the enclosed Google Map as per GPS coordinates together with some photographs.

In this regards, I would like to request you to take up the matter with the counterpart D.C, Mamit District, Mizoram to abstain from the illegal activities by Mizoram Police and IR Battallon in Inner Line Reserved Forest under Gharmurah Range, Hailakandi District, Assam.

This is for favour of your kind information and necessary action. Endo:- AS specified.

Yours faithfully

(M. Ali, AFS) Divisional Forest Officer

Hailakandi Division, Hailakandi

Copy to:-

The Chief Conservator of Forests Southern Assam Circle, Silchar for kind information.

The Superintendent of Police Hallakandi for kind information.



No. HKD/DFO(T)/Border-2/24/7-49

Dt21 -05-2021

To

The Chief Conservator of Forest, Southern Assam Circle, Silchar

Sub:- Regarding illegal construction of a culvert over Bhairabi cannel at Kachurthal area

This office letter No. HKD/DFO(T)/Berder/Enc-2/2413-15 Dated, 19-08-2021, Ref:-

Sir.

With the subject and reference above, I have the honour to inform you that illegal construction of a culvert had been started few months ago over the Bhairahi cannel located at the boundary of Assam Mizeram but due to objection and obstruction from Assam side the constructional works was stopped. On 19-08-2021 Mizoram Govt, has again started the works in the same culvert but the police have stopped the works. Today, Mizoram Govt, again intended to construct the same but failed to do the same due to intervention of Assam Police. As such the interstate border areas within Inner Line R.F under Hailakandi district is running with tense situation.

Under the circumstances, I would request your honour kindly to arrange for posting of staff against the vacant posts, allotment of departmental vehicles and sanction of fund for and cost of fuel, hiring of vehicle, etc. at the earliest so that border area duty can be done properly at the prevailing situation and according to the demand of the hours.

This is for favour of your kind information and necessary action

Yours faithfully

(J. Deka)

Divisional Forest Officer Hailakandi Division, Hailakandi

Copy to for the Deputy Commissioner, Hailakandi kind information. Copy to the Superintendent of Police, Hailakandi for kind information.

OFFICE OF THE DIVISIONAL FOREST C DIVISION::HAII

::HAILAKANDI FOREST

Letter No. HKD/DFO(T)/Border/Enc-2/2378-80

Dated, 14-08-2021

To.

The Deputy Commissioner, Hailakandi.

Seb: Reg.- (a) Suspected to be low intensity blast and damage of Sahebmara Pakua Punji EGS L.P. School at Sahebmara Pakua Punji area under Gharmurah Rango and (b) Illegal construction of Road near Dholaikhal Nula under Matijuri Range within Inner Line Reserved Forest under Hailakandi District, Assam.

Ref: Our telephonic discussion dated, 14-08-2021.

Sir

With the subject and reference above, I have the honour to furnish below the detailed information regarding (a) low intensity blast and damage of Sahebmara L.P. School at Sahebmara Pakua Punji area under Gharmurah Range and (b) illegal construction of Road near Dholaikhal Nala under Matijuri Range within Inner Line Reserved Forest under Hailakandi District, Assam as reported by the concerned ife Range Officer.

- 1. On getting information regarding damage of Saluebmara Pakua Punji EGS L.P. School at Sahebmara Pakua Punji area under Gharmurah Range within Inner Line Reserved Forest in night hours of 13-08-2021 by low intensity blast the i/e Gharmurah Range along with Circle Officer Katlicherra, O.C Ramnathpur, Police Station and others Police and Forest personnel went to said place of occurrence on 14-08-2021. The GPS coordinates of the location is 24° 10′ 58.7° N 92° 31° 32.9° E. Some photographs along with Google Map showing location of said school appended herewith.
- 2. That as per your instruction dt. 13-08-2021 the i/e Range Officer, Matjuri along with Circle Officer Lala, Circle Inspector, Lala Police and others Police and Forest personnel went to Dhalaikhal Nala area on 14-08-2021 for field variation, wherein they have noticed that about 2.00 (Two) KM Kacha road (earthen road) constructed by the Mizoram Govt, in Inner Line Reserved Forest under Matijuri Range, Hailakandi District, Assam. But today no Mizo encroachers have been seen in the place of occurrence. The GPS coordinates of the end of newly constructed road is 24°30'27.02" N 92°44'52.6" E. Some photographs along with Google Map showing the end of constructed road is annexed herewith.

This is for your kind information and necessary action.

Enclose As specified.

Yours faithfully

(J. Deka)

(J. Deka) Divisional Forest Officer Hailakandi Division, Hailakandi

Copy to:

 The Chief Conservator of Forests, Southern Assam Circle, Silehar for kind information and necessary action.

2. The superintendent of Police, Hailakandi for kind information and necessary action.

Waster.

GOVERNMENT OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER; HAILAKANDI DIVISION HAILAKANDI.

No. 11KD/DFO(T)/Border-2/ 2916(A) - (F).

Dt. 30-09-2021.

To The Deputy Commissioner, Hailakandi

Subs- Construction of road in Inner line RF near castern boundary of Assum Mizoram border under Matijuri Range, Hailakandi District by Mizoram Govt, is in progress and also in southern interstate boundary of Assum Mizoram under Gharmurah Range Mizoram Govt, has taken measurement of incomplete RCC culvert done by them over Bhairabi cherra on 29-09-2021 and which works was stymied in recent past by the Police of Hailakandi.

Ref.- Field visit of Police and Forest officials dt. 30-09-2021 reported by i/c R.O. Matijuri and report dt. 29-09-2021 received from i/c R.O. Gharmurals.

With the subject and reference above I would like to inform you that on today i.e. 30-092021 Forest Officer along with Police Officer and forces have been visited the Kachurthal Ballcherra area under Matijuri Range. In this regards the i/e Matijuri Range reported that the
illegal road works is extended up to 3.00 Km recently within Inner Line R.F under the
territorial jurisdiction of Hailakandi district by earth cutting with excavator and other
equipments etc. by the Mizoram Govt. violating the role of statuesque decided by the both Govt.
jointly. Some photographs of constructed road are appended berewith as ready reference.

Further, it is to be informed that the incomplete construction of RCC culvert over Dhairabi cherra, Kachurthal area located at southern interstate boundary of Assam Mizoram under Gharmurah Range by Mizoram Govt. and which works was stymied in recent past by the Police of Hailakandi. This RRC culvert has been visited by the officials of Mizoram Govt. and has taken its measurement etc on 29-09-2021 as reported by the i/e Gharmurah Range.

This is for favour of your kind information and necessary action.

Enclo:- As specified.

Yours faithfully

Chefelian

(J. Deka) Divisional Forest Officer Hailakandi Division, Hailakandi

Copy to:

2

 The Addt. Principal Chief Conservator of Forests (T), Lower Assam Zone, Indira Nagar, Basitha, Guwahati-29 for favour of kind information.

The Chief Conservator of Forest, Southern Assam Circle, Silchar for favour of kind information.

3. The Superintendent of Police, Hailakandi for kind information.

Je was



Ammexura-I?



GOVERNMENT OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER; HAILAKANDI DIVISION HAILAKANDL

No. 11KD/DFO(T)/Border-2/ 3263-66

Dt. 26-10-2021.

To

The Deputy Commissioner, Hailakandi.

Sub:- Re-construction of incomplete RCC culvert over Bhairabi cherra and which works was stymied in recent past by the Police of Hailakandi.

Ref:- R.O. Ghammurah's letter No. Gm/31/Border/2021/234 dt. 26-10-2021.

Sir.

With the subject and reference above I would like to inform you that on today i.e 26-10-2021 the Range Forest Officer, Gharmarah Range has informed that the Mizeram Govt. has again started re-construction of incomplete RCC culvert over Bhairabi cherra. Three nos. Photographs of the constructional works of RCC culvert are annexed herewith.

This is for favour of your kind information and necessary action.

Enclo:- As specified.

Yours faithfully

(J. Deka)

Divisional Forest Officer Hailakandi Division, Hailakandi

Copy to:

1. The Addl. Principal Chief Conservator of Forests (T), Lower Assam Zone, Indira Nagar, Basitha, Guwahati-29 for favour of kind information.

2. The Chief Conservator of Forest, Southern Assam Circle, Silchar for favour of kind information.

The Superintendent of Police, Hailakandi for kind information.

Divisional Forest Officer Hailakandi Division, Hailakandi

Sherry

GOVT, OF ASSAM

OFFICE OF THE DIVISIONAL FOREST OFFICER, HAILAKANDI DIVISION, HAILAKANDI

No. HKD/DFO(I)/Border-2/3448-52

Dated 22/11/2021

To

The Deputy Commissioner, Hailakandi,

Sub. Illegal Construction of Road in ILRF at upstream of Haticherra area by Mizoram Govt.

Ref. Our telephonic discussion dated, 21-11-2021.

Sir.

With the subject and reference above, I have the honour to inform you that Mizoram Govt. has started construction of a Road by Earth custing at upstream of Haticherra area within ILRF under Kukicherra Range The said road is about 2:00 KM (Aerial) inside Assam territory from the later State Border Boundary of Assam-Mizoram. A point of GPS Coordinates (N 24°21'15.5° E92°38'23.6°) on the said road has been taken by the staff of, Kukicheera Range. The newly constructed road length is about 3.50 KM. There is no human habitation is in and around the vicinity of the road. Some photographs of the said road are enclosed herewith for ready reference along with Google Map.

This is for favour of your kind information and necessary action.

Enclo: As specified.

Yours faithfully

(Jayanta Deka) Divisional Forest Officer Hailakandi Division, Hailakandi

Copy to:

 The Principal Chief Conservator of Forests and Head of Forest Force, Assam, Aranya Bhawan, Panjabari, Guwwahati-37 for favour kind information.

 The Addl. Principal Chief Conservator of Forests (T), Lower Assam Zone, Basistha, Guwwahati-29 for favour kind information.

3. The Chief Conservator of Forests, Southern Assam Circle, Silchar for favour of his kind information.

 The Superintendent of Police, Hailakandi for favour of his kind information and necessary action.



OVERNMENT OF ASSAU

OFFICE OF THE DIVISIONAL FOREST OFFICER; HAILANAIND DIVISION HAILAKANDL E-mail: hallakandifogents1992@cmail.com

No. HKD/DFO(T)/Border-2/ 261-64

Dt. 02-02-2022

TO

The Deputy Commissioner, Hailakandi.

Regarding encroachment by Mizo-Miscreants of Mizoram at Gollacherra and Birsima area within inner Line. Reserved Forest under Charmurah Range, Hailakandi district.

Our telephonic discussion dt. 02-02-2022. Ref:

Sir.

With the subject and reference above I have the honour to inform you that the Range Officer, Gharmurah has reported that recently Mizo- people of Mizoram has cleared the natural forest cover of about 1.5 Hectors land in Gollacherra area within Inner Line Reserved Forest under Gharmurah Range. The place of occurrence is 500 meter (Aprox.) away from Interstate border boundary of Assam Mizoram and 500 to 600 meter (Aprox.) away from Gollacherra BOP, A Map showing the encroached area with GPS coordinates is annexed herewith as Annexure -1.

In another location at Birsima area Mizo-Miscreants has started aggression in the Jhuming area of Reang encroachers. Temporary sheds of Reang encroachers in the Jhum cultivated area have been destroyed by Mizo-Miscreants and obstructed the Reang encreachers in harvesting crops from their Jhum area. The place of occurrence is 600 meter (Aprox.)away from interstate border boundary of Assum Mizoram and about 2.00Km, away from Birsima BOP and Gutguti BOP, A Map showing the encroached area with GPS coordinates is annexed herewith as Annexure -2.

This is for your kind information and necessary action.

Enclos As specified.

Yours faithfully

Divisional Forest Officer, Hailakandi Division: Hailakandi.

Copy to the Chief Conservator of Forest, Southern Assam Circle, Silchar, for favour of kind

Copy to the Superintendent of Police, Hailakandi for kind information and necessary action. information.

Copy to the Range Forest Officer, Gharmarah for information. He is directed to draw offence against the illegal encreacher immediately and repot compliance. He should keep regular watch over the bordering areas under his Range jurisdiction and submit report regularly to the undersigned with due intimation to the Circle Officer. Katlicherra' O.C. Ramathpur till the situation is over. This has reference to our telephonic discussion dt, 02-02-2022.



OVERNMENT OF ASSAM THE DIVISIONAL FOREST OFFICER; HAILAKANDI DIVISION HAILAKANDI. E-mail: Imilakandiforests19925/episail.com

No. HKD/DFO(T)/Border-2/400-402

Dt. 09 02-2022

To

The Deputy Commissioner, Hailakandi.

Regarding encroachment by Mizo-Miscreants of Mizoram at Gollacherra area within Inner Line Sub:-

My visit dt. 08-02-2022 and this office letter No, HKD/DFO(T)/ Border-2/251 - 64 Dt. 02-02-2022 Ref:-

Sir.

With the subject and reference above I have the honour to inform you that I along with Circle Officer, Katlicherra, Range Officer, Gharmurah, O.C. Ramnathpur and other staff visited the Gollacherra area within Inner Line Reserved Forest under Gharmurah Range, Hallakandi district. During our visit it is seen that the earlier encroached area has been extended by cutting/clearing the bamboo etc. from the forest area, the total encroached area is about 3.00 Hectors. Four nos, of photographs of the area are annexed herewith for your kind apparition.

This is for your kind information and necessary action.

Reserved Forest under Gharmurah Range, Hailakandi district.

Enclo: As specified.

Yours faithfully

(J. Deka)

Divisional Forest Officer, Hallakandi Division: Hallakandi.

Copy forwarded together with photographs to:-

1. The Chief Conservator of Forest, Southern Assam Circle, Silchar, for favour of kind information.

The Superintendent of Police, Hailakandi for kind information and necessary action.

Divisional Forest Officer, Hailakandi Division: Hailakandi.



OVERNMENT OF ASSAM

OFFICE OF THE DIVISIONAL FOREST OFFICER; HAILAKANDI DIVISION HAILAKANDI. P-mail: hailaltandiforers:1992@gmail.com

No. HKD/DFO(T)/Border-2/ OL/48-49

Dt. 27-02-2022

The Deputy Commissioner, Hailakandi.

Sub:- Regarding illegal construction of road by Mizoram Govt, at Kalapahar area within loner Line Reserved Forest under Gharmurah Range, Hallakandi district.

Sir. With the subject and reference above I have the honour to inform you that on 26-02-2022 I along with staff of Gharmurah Range, Gharmurah, went to foothill of Kalapahar ridge and it is learnt that about 2.00 Km away towards eastern direction from Gollacherra B.O.P Mizoram Govt have constructed new road at Kalapahar area within Inner Line Reserved Forest under Gharmurah Range, Hallakandi district. The said newly constructed road is southern side of recent past Mizo encroached 3.00 Hectors area (Aprox.) as reported vide this office letter No. HKD/DFO(T)/Border-2/400 - 402 Dt. 09-02-2022.

(A). GPS Coordinates N 24°15'28.47" E92°33'12.80" is indicated for Gollacherra B.O.P in the annexed (B). GPS Coordinates N 24°15'28.47" E92°33'12.80" is indicated the Encroached 3.00 Hectors area (Aprox.) done by Mizoram during 1* week of Feb/2022 in the annexed Google Earth Map) (C). A point of GPS coordinates of the illegally constructed road is N 24°15'29.36" E92°34'0.23"

indicated in the annexed Google Earth Map)

This is for your kind information and necessary action.

Enclo: Google Earth Map.

Yours faithfully

(J. Deka)

Divisional Forest Officer, Hallakandi Division: Hallakandi.

Copy forwarded together with photographs to:-

1. The Chief Conservator of Forest, Southern Assam Circle, Silchar, for favour of kind information.

The Superintendent of Police, Hailakandi for kind information and necessary action.

Divisional Forest Officer, Hailakandi Division: Hailakandi.



GOVT, OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER, HAILAKANDI DIVISION, HAILAKANDI

E-mail: hailakandiforests1992@gmail.com

No. HKD/DFO(T)/Border-2/OL/51-53

DateJ 11/03/2022

70

The Deputy Commissioner, Hailakandi

Sub:- Illegal Construction of temporary buts at Sahobourn area under Gharmurah Range in Inner Line Reserved Forest.

Ref .- Our telephonic discussion dt. 11-03-2022 in the evening.

Sir,

With the above subject reference I have the honour to inform that on 11-03-2022 the staff of Gharmura Range along with O.C. Ramnathpur Police Station and other Anned Personnel visited the place of occurrence and dismantled one abandoned temporary but at Sahabmara area under Gharmurah Rauge in Inner Line Reserved Ferest constructed by Bengali encroacher. As regards another illegally constructed temporary but done by Mizo people, the local Circle Officer and Police Officer of Mizoram appeared at the place of occurrence and approached to O.C. Rammathpur and the Staff of Gharmurah Range and requested not to dismantle the temporary but at that moment because they will remove the said but within three days. The area is adjacent to interest border boundary and hence to maintain the law and order situation. Our officers have returned back from the place of occurrence agreed with the assurance given by the counterpart officials.

A Googol Earth Map showing GPS, Coordinates of the recent detected encroached buts is

annexed herewith for ready reference.

This is for your kind information and necessary action.

Enclo: As specified.

Yours faithfully

(Jayanta Deka) Divisional Forest Officer Hailakandi Division, Hailakandi

Copy together with a Googol Earth Map forwarded to:

1. The Superintendent of Police, Hailakandi for favour of his kind information and necessary action. This has a reference to our telephonic discussion dt. 11-03-2022 in the

2. The Range Forest Officer, Gharmurah Range, Gharmurah. This has a reference to our

telephonic discussion dt. 11-03-2022 in the evening.

Divisional Forest Officer Hailakandi Division, Hailakandi





OVERNMENT OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER; BABLAKANDI DIVISION HABIAKANDI. I -mail; bailal and freeds 1992 a grand com-

No. HKD/DFO(T)/Border-2/1010-12

Dt. 30 03 2027

To The Deputy Commissioner, Hailakandi.

Regarding illegal digging of pits for installation of electrical post in Gallackerrra area within inner Line Reserved Forest under Gharmurah Range, Hallakandi District, Assam by the Mizoram Govt.

With the subject and reference above, I have the honour to inform you that on today i.e 30-03-Sir. 2022 the Range Officer, Gharmurah reported that Mizoram Govt. Is illegally digging pits for installation of electric post meant for power supply in Gollacherra area within Inner Line Reserved Forest under Gharmurah Range, Hallakandi District, Assam. A photograph of pits is given below.

This is for your kind information and necessary action.

Yours faithfully

(J. Deka)

Divisional Forest Officer,

Hallakandi Division: Hallakandi

Copy forwarded to:-

1. The Chief Conservator of Forest, Southern Assum Circle, Silchar, for favour

The Superintendent of Police, Hailakandi for kind information and necessary action.

1

Divisional Forest Officer, Hailakandi Division: Hailakand

GOVERNMENT OF ASSAM

OFFICE OF THE DIVISIONAL FOREST OFFICER: HAILAKANDI DIVISION: HAILAKANDI.

Email: hallalundiforests1992@gmail.com. dt./2/01/2023.

Memo No. HKD/DFO(T)/ Border/ 309-312

To.

The Deputy Commissioner, Hailakandi.

Regarding illegal activities by Mizo people near Gollacherra B.O.P. within Inner Line Sub:-Reserved Forest under Gharmurah Range, Hailakendi District.

R.O., Gharmarah's letter No. GM/31 /Border/2022/246 dtd. 26.12.2022. Ref:-

Sir,

With reference to the subject cited above, I have the honour to inform you that on 26.12.2022, the Range Forest Officer, Gharmurah reported that some fresh clearing of jungle was perpetrated by Mizo people for Jhum Cultivation (Shifting cultivation) within Inner Line Reserved Forest near Golinchera B.O.P. (G.P.S. Co-ordinate at N=24°25'34"; E=92'55'66".)

However, no Mizo people were found on the spot. The Range Officer, Gharmurah also reported that the B.O.P. personnel chased away the Mizo people and managed to secure the said areas. At present there is no any adverse situation/tension.

This is for favour of your kind information and necessary action.

Engla:- As specified.

Yours faithfully,

(A. Dulia, AFS) Divisional Forest Officer, Hailakandi Diyn. Hailakandi

Copy to:-

1. The Chief Conservator of Forests, Southern Assam Circle, Silchar for favour of kind information.

2. The Superintendent of Police, Hailakandi for kind information & necessary action.

3. The Range Forest Officer, Gharmurah Range, Gharmurah for information and necessary action. He is asked to regular patrolling duty and strict vigil over the area.

Divisiona /Forest Officer.

Hailakandi Divn. Hailakandi

GOVT OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER: HAILAKANDI DIVISION HAILAKANDI

E-mail: hailakandiforests 1992/argnail.com Date:/0/03/2023

No. HKD/DFO(T)/Border/1260 - 63

The Deputy Commissioner Hailakandi.

Sub;- Report regarding Mizo encroachment at Birsima area in Inner Line Reserved Forest under Hailakandi District.

In inviting reference to the captioned subject I have the honour to inform you that on receipt of an Sir. information regarding Mizo encresclement at Birsima area within Inner Line Reserved Forest under Hailakandi District on 08-03-2023 the Beat Forest Officer, Bhairabi Beat, Ramnathpur and O/C Rammathpur Police Station along with other staffs proceeded to Birsima area and found that two Mizo miscreant were cleaning and dressing a hillock area for construction of a new road by an excuvator. The Mizo people stated that they were engaged in the works by a Mizo contractor namely F. Zoasang of Aizwal (Mobile number of the contractor is 9612611013).

Therefore, our officials on duty have asked the miscreants to stop the works and vacate the area. The place is disputed border boundary area of Assam Mizoram and also under status-quo as per joint statement dtd. 05-08-2021 issued by the concerned authorities of the both Sates. A Google Map showing the location of the said encroachment is enclosed herewith.

This is for favour of your kind information and taking necessary action Enclo: As specified.

Yours faithfully

-Duftia, AFS) Divisional Forest Officer Hailakandi Division, Hailakandi.

Copy to:

1. The Chief Conservator of Forests. Southern Assam Circle, Silchar for kind information.

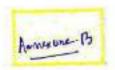
The Superintendent of Police, Hailakandi for kind information and necessary action.

3. The Range Forest Officer, Gharmurah Range for information. He is directed to arrange regular vigil over the area alongwith Birsima B.O.P Personnel and report compliance time to time.

> Divisional Forest Officer Hailakandi Division, Hailakandi

> > Submitted

Divisional Forest Officer. Hailakandi Division, Hailakandi



HNNEXURE-B

Most Urgent
- By Special Messenger

GOVT OF ASSAM

CFFICE OF THE DIVISIONAL FOREST OFFICER::HAILAKANDI FOREST DIVISION::HAILAKANDI
Letter No. HKD/DFO(T)/Border / Encroachment / 1873

Date: 18/07/2021.

To.

The Superintendent of Police Hailakandi.

Sub:- Requisition for special armed forces for Gharmurah Range under Hailakandi Forest Division

Madam,

With the subject cited above, I am to inform you that the about 80% Gharmurah Range boundary is along with Inter State Border Boundary of Assam Mizoram and the said border area is disputed area with Mizoram. Moreover the reserved forests area viz. Inner Line Reserved Forests under the Range has huge encroachment in bordering area by both Mizoram and Assam side.

Under the circumstances I would request you to provide special armed forces to conduct requisite protection measure toward prevention of further extension of encroachment and ejection of encroachers in face manners.

This is for favour of your kind information and necessary action.

Yours faithfully

(M. Alī, AFS)

Divisional Forest Officer

Hailakandi Division, Hailakandi

Cocyton-

- The Addl. Frincipal Chief Conservator of Forests (T), Lower Assam Zone, Kacharighat, Gurahati-1, for kind information.
- The Chief Conservator of Forests Southern Assam Circle, Silchar for kind information.
- The Deputy Commissioner, Hailakandi for kind information.

Divisional Forest Officer Hailakandi Division, Hailakandi



ANNEXURE-'C

FICE OF THE SUPERINTENBENT OF FOLICE ... HALLAKANDI ... ASSAM.

Menso No. RED/B/91/2021/324

Dated Heilelandi, the 24th July, 2021.

To

The Director General of Police. Assum, Ulubari, Guwahati-7.

Salar

Regarding establishing a base for appellat armed forces like Commandos at Charmorah Range of hater-Line Reserve Ferest area under Hailakandi Forest Division.

Ref :-

Letter No. HKD/DFO(1)/Bords/Fregreschment/1373, dated 18.07.2021 of D.F.O. Hailakandi.

Sir.

Appropos to above mendioned subject and reference, it is being brought to your kind notice that Chambursh Range of Inner-Line Reserve Forest shares a substantial boundary with Mizotem and is under severe constant encreachment. The area is remote and due to absence of any constantiation in severa of roads and other facilities, it is very difficult to respond in case of any fresh encreachment attempt from Mizotem side. For the protection of the Reserve forest in this intensitie border area, D.F.O. Hailakandi has requisitioned (vide above mentioned reference). Optical armed forces. As the area is vast and of vital importance to the state, in view of the above, a full Entration of Commandos atc. may be entasted to be deployed in the area.

Submitted in anticipation of your kind consideration.

Yours faithfully,

Riclo :- Above rientiched reference.

Superintendent of Police. Hailskandi.

Memo No. HKD/B/91/2021/324-A

Dated Heilekandi, the 24th July, 2021.

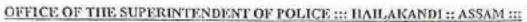
Copy for favour of kind information to :-

- 1. The Spl. Director General of Police (B), Assum, Srimantapur, Guwahati-32.
- 2. The Sn! Discrete General of Police (T&AP), Assam, Ulubari, Guwahati-7,
- The Principal Secretary to the Govt of Assam, Home & Political Department, Assam, Dispur, Guwahnti-G.
- The Principal Secretary to the Govt, of Veran, Unvironment & Porest Department, Assem, Dispur, Guraluti-6.
- The Addi. Principal Chief Conservator of Powsts (T), Lower Assam Zone, Kacharighat, Guwahati-1.
- The Commissioner & Secretary to the Govt. of Assen, Border Protection & Development, Dispur, Guwahati -6.
- 7. The Deputy Commissioner, Hallakandi.

ANNEXURE-D

Amnyure 3





Menio No. HKD/B/91/Vol-III/2023/224

Dated Hailakandi, the 26th June, 2023.

Fo,

The District Forest Officer, Hailakandi Division, Hailakandi.

Sub.: -

Regarding Handing Allocation of Land at Damcherra Lyinh within Inner Line Reserve Forest under Gharmura Forest Range for Raising 2nd Commando Battalion.

Sir.

In inviting a reference to the subject cited above, I would like to bring to your kind notice that there are reports of numerous incidents of encroachments in and around Ghamura Range of Inner-Line Reserve Forest under Hailakandi Forest Division which shares a substantial boundary with Mizoram State which is a threat to the security and sanctity of the Forest lands of the State.

In view of the above, it is imperative to provide ample security with a strong and well equipped Police force in order to respond to any incident of attempt of encroachment from Mizoram side and to ensure protection of the Reserve Forest area along the inter-state border of Assam-Mizoram in order that the activities of the Forest Department to protect the Forest land, its flora and fauna is carried out without any threat of encroachment or any other disruption by miscreants.

In view of the above circumstances and keeping in mind the increasing challenges of safeguarding the Inter State Border boundaries and the evolving nature of encroachment by miscreants, it has become imperative to establish a Commando Battalion that is capable of effectively responding to such critical situations.

After careful consideration and evaluation, the authorities have identified a suitable Forest land that would be ideal for the construction of the Commando Battalion facility at <u>Damcherra</u>. The chosen location has been assessed to have the necessary attributes, including adequate space, accessibility and strategic positioning which are essential for the successful establishment and operation of the Commando Battalion.

B. 4. 1. 5.

Hand Dagger

Page I of 2

The establishment of the Commando Battalion would be of significant value in preserving the natural resources. Further, every effort would be made to ensure minimal disruption to the environment during the construction and subsequent operation of the facility. Necessary measures such as reforestation initiatives and strict adherence to environmental regulations will be implemented to mitigate any adverse impact on the Forest ecosystem.

In view of the above, I request you to kindly hand over the aforementioned Forest land to the Hailakandi District Police accordingly.

Yours sincerely,

Superintendent of Police, Hailakandi

Dated Hailakandi, the 26th June, 2023.

Memo No. HKD/B/91/Vol-III/2023/224-A

Copy forwarded for favour of kind information to:-

- The Director General of Police, Assam, Ulubari, Guwahati 7.
- The Addl. Director General of Police (SB), Assam, Kahilipara, Guwahati 19.
- The Inspector General of Police (TAP), Assam, Ulubari, Guwahati 7.
- The Inspector General of Police, Border, Assam, Srimantapur, Guwahati-32.
- The Commissioner & Secretary to the Govt. of Assam, Border Protection & Development, Dispur, Guwahati-6.
- The Deputy Inspector General of Police (SR), Assam, Silchar.
- The Managing Director, Assam Police Housing Corporation, Assam, Rehabari, Guwahati 8.
- The Deputy Commissioner, Hailakandi.

Superintendent of Police, Hailakandi.

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SITE VISIT REPORT ON 2"COMMANDO BATTALION CAMP AT DAMCHERA WITHIN INNERLINE RESERVE FOREST UNDER GHARMURA RANGE, HAILAKANDI FOREST DIVISION

1.1 INTRODUCTION

An environment activist has filed a complaint with the Ministry of Environment, Forest & Climate Change accusing the Assam Government's top Forest Official of illegally diverting 44 hectares of protected forest land for a Commando Battalion headquarters in Barak Valley. The complaint alleges that mandatory provisions under the Forest (Conservation) Act, 1980 were bypassed for the construction of the 2^{nt} Assam Commando Battalion Unit Headquarters inside the Inner Line Reserved Forest in Hailakandi district. The said complaint was published in Northeast Now News dated 25.12.2023 titled "Assam PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion"

The Hon'ble National Green Tribunal(NGT), Principal Bench (PB)vide Order dated 23.01.2024 had registered Suo-Moto Original Application No. 61/2024/PB on the basis of the said news item published in Northeast Now News dated 25.12.2023. Vide the said Order, the Hon'ble NGT observed that the News item raises a substantial issue regarding compliance of environmental norms and accordingly has impleaded and issued notices to the concerned authorities of the Central and State Government as Respondents in the instant proceedings.

Ministry, New Delhi vide letter dated 16.02.2024 has requested Regional Office, Shillong to examine the matter in detail and submit a factual report with specific recommendations.

1.2STAND OF THE PCCF& HoFF, GOVT. OF ASSAM

The PCCF & HoFF, Govt. of Assam has filed an Affidavit dated 21.01.2024 before the Hon'ble NGT, Principal Bench in Original Application No. 61/2024/PB. The PCCF &HoFF in his Affidavit has taken a stand as under:

- i. no illegal diversion of 44 hectares of forest land has been done as it was only for the purpose of setting up camp for the Commando Battalion, which was created for protection of the Inner-line Reserved Forest, the space was allowed, as per the decision of the Cabinet of the Government of Assam, along the Assam-Mizoram border, which is under severe threat in the form of encroachment from the people of Mizoram wherein Assam is having border dispute and encroachment.
- ii. no mandatory procedure under the Forest Conservation Act, 1980, has been bypassed and/or violated to grant permission for the construction of the Assam Commando Battalion Headquarter inside the Inner Line Reserved Forest in Hailakandi district. The Forest Conservation Act, 1980, has adequate provisions for any work which is ancillary to conservation and the Commando Battalion, which is an "Operation Battalion" and which is not a regular law and order, enforced battalion, has been set up only with the sole objective of protection of the Inner Line Reserved Forest, solely on the request of the DFO, and Superintendent of Police, Hailakandi, made to the Director General of Police, Assam. The forest protection and ancillary activities do not require permission of the State or the Central Government under the Act.

- iii. no question of malafide intention on the part of the DFO and PCCF &HoFF in allowing the Commando Battalion to be set up inside the Inner Line Reserved Forest, which has been set up only for the protection of the Inner Line Reserved Forest and stopping further encroachment and aggression from Mizoram side as the sole objective.
- iv. The PCCF has referred to the explanation (b) of Section 2 of the Forest(Conservation) Act, 1980, which states that '...... but does not include any work relating or ancillary to conservation, development and management of forests and wild life, namely, the establishment of check posts, fire lines, wireless communications and construction of fencing, bridges and culverts, dams, waterholes, trench marks, boundary marks, pipelines or other like purposes:' Accordingly, the camp that has been set up with in the Inner Line Reserve Forests was only for the purpose of protection and conservation of forests.

1.3CHRONOLOGICAL ORDER OF EVENTS W.R.T SETTING OF 2ND COMMANDO BATTALION CAMP AT DAMCHERA IN INNERLINE RESERVE FOREST UNDER GHARMURA RANGE, HAILAKANDI FOREST DIVISION:

This Office through Sub-Office Guwahati letter dated 08.02.2024 had requested the Addl. Chief Secretary, Environment & Forest Department, Govt. Of Assam seeking an appointment on 13.02.2024 for discussion on the matter in issue however due to other preoccupations the meeting could not happen and discussion was held with the PCCF and HoFF, Assam.

Regional Office, Shillong had sought details from the State Government on the alleged violation for setting of 2nd Commando Battalion Camp at Damchera within the Inner Line Reserve Forest. State Government has accordingly submitted the information and the following chronological order of events can be construed based on the submission of the State Govt and the Site visit of the Regional Office, as under:

SI No.	o. Date Brief Description of Event				
1.	09.03.1933	Government Notification under Section 2 of the Bengal Eastern Frontier Regulation, 1873 prescribing boundaries of "Inner Line Reserved Forest' Annexure-1			
2.	18.07.2021	Divisional Forest Officer, Hilakandi requested Superintendent of Police, Hailakandi to provide special armed forces to conduct requisite protection measures toward prevention of further extension of encroachment and ejection of encroachers, Annexure-II			
3.	24.07.2021	Superintending of Police, Hailakandi forwarded the request of DFO, Hailakandiletter dated 18.07.2021 to Director General of Police, Ulubari, Guwahati, Assam. Annexure-III			
4.	28.07.2021	Cabinet's approval for creation of five new Commando Battalions of Assar Police. Annexure-IV			
5.	22.10.2021	Sanctioning Orderfrom Home & Political Department, Govt. Of Assam for raising 1 (one) new Assam Commando Battalion i.e. 2 nd Assam Commando Battalion (Operation), Birsima, Hailakandi along with creation of posts. Annexure-V			
6.	27.12.2021	Chief Engineer, Assam Police Housing Corporation vide Notice no. APHC/T/22/2021-22/02, dated 27/12/2021 floated the tender inviting eligible contractors for "Raising of New Assam Police Battalions at different location of Assam". Annexure VI			
7.	13.02.2023	Assam Police Housing Corporation issued Notice to proceed with Work for raising new Assam Police Commando Battalion at Damcherra in Gharmura Range in favour of M/s. Badri Rai& Company with a tender value of Rs. 139,93,44,801.51 / Annexure-VII			

8.	26.06.2023	Superintendent of Police, Hailakandi requested the Divisonal Forest Officer. Hailakandi to hand over the forest land in favour of the Hailakandi District Police. Annexure VIII
9.	20.07.2023	DFO, Hailakandi informed the CCF, Southern Assam Circle, Silchar to take up the matter with the higher authorities for strengthening the armed forces for protections duties in the interstate border area in ILRF to prevent further encroachment activities. It was also informed a proposal has already been submitted for departmental operation of 21 nos. of trees standing in the proposed area as per the provisions laid down in the approved Working Plan (2022-23 to 2032-33) for Hailakandi Forest Division. Accordingly, request was made to accord permission for establishment of 2nd Battalion Unit at Damchera in Inner Line RF.Annexure-IX
10.	27.07.2023	CCF, Southern Assam Circle requested the Addl. Principal Chief Conservator of Forests (T), Lower Assam Zone to consider the proposal and request the PCCF &HoFF, Assam for according permission towards establishment of 2nd Commando Battalion unit at Damcherra area under Gharmura Range of Hailakandi Division of 43.99 Ha and also permission for felling 21 nos. of trees. Annexure-X
11.	28.07.2023	Addl. Principal Chief Conservator of Forests (T), Lower Assam Zone brought to notice of the Principal Chief Conservator of Forests, Assam certain points inter-alia 'ideally, this calls for permission under the Forest (Conservation) Act, 1980 for diversion of forest area for non-forest purpose since Reserved Forest area is involved, unless Government decides otherwise'. Accordingly request was made to the PCCF, Assam to take a suitable decision on the same Annexure-XI
12.	03.08.2023	PCCF &HoFF, Assam returned the proposal to the Addl. PCCF (T), Lower Assam Zone with a request to look into the proposal and reconsider the same considering the merit of the requirement. Annexure-XII
13.	07.08.2023	Addl. PCCF (T), Lower Assam Zone submitted the proposal to the PCCF &HoFF, Assam for allotment of land for establishment of 2 nd Commando Battalion Unit inside Inner Line Reserved Forest of Damcherra area under Gharmura Range, Hailakandi Division for consideration. Annexure-XIII
14.	28.09,2023	PCCF &HoFF, Assam wrote to the Addl. PCCF (T), Lower Assam Zone informing that the proposal for 43,99 Ha for establishment of 2 rd Commando Battalion Unit in the Inner Line RF is for protection and conservation of Reserved Forest and qualifies as an activity relating to conservation of forest mentioned under Section 2 (b) of the Forest (Conservation) Act, 1980 Accordingly permission was given for the establishment of the proposed 2 rd Commando Battalion Unit in the interest of conservation and protection of forest land. Annexure-XIV
15.	05.10.2023	CCF, Southern Assam Circle, Silchar informed the DFO, Hailakandi that the PCCF, Assam has allowed the establishment of 2 ^{sd} Commando Battalior inside Inner Line RF at Damcherra under Gharmura Range in the interest of conservation and protection of forest land. Accordingly, CCF had requested DFO, to take necessary action strictly following the Forest Conservation Act 1980 and related guidelines. Annexure XV
16.	26.10.2023	Range Forest Officer, Gharmura Range Office has informed the DFO Hailakandi that after receiving due clearances from PCCF &HoFF, Assam, the construction work for establishment of 2 nd Commando Battalion unit a Damcherra inside Inner Line RF has begun at the designated site measuring 43.99 Ha which has been degraded due to encroachment and paddy cultivation. Annexure XVI
17.	27.10.2023	DFO, Hailakandi informed the CCF, Southern Assam Circle that establishment of 2 nd Commando Battalion unit at Damcherra inside Inner Line RF will not violate the Forest (Conservation) Act, 1980 and its related

guidelines since the unit will vehemently be helpful in conservation and
protection of forest land within the provision of Section 2 (b) of the Forest
 (Conservation) Act, 1980. Annexure XVII

1.4 SITE VISIT ON THE 2ndCOMMANDO BATTALION CAMP AT DAMCHERA WITHIN INNERLINE RESERVE FOREST UNDER GHARMURA RANGE, HAILAKANDI FOREST DIVISION:

The Site Visit was conducted by Ministry of Environment, Forest & Climate Change, Regional Office, Shillong, on the alleged illegal clearing of forest land for the 2nd Commando Battalion Camp at Damchera in Inner Line Reserve Forest under Gharmura Range, Hailakandi Forest Division on 8th March, 2024 represented by:

- (i) Shri W. I. Yatbon, Deputy Inspector General of Forests (Central) and
- (ii) Shri Gary R. Majaw, Legal Assistant/Consultant

Accompanying the team was Officials from the State Government and User Agency as under:

- Shri M. Tunglung, Chief Conservator of Forests, Southern Assam Circle, Silchar,
- (ii) Shri Akhil Dutta, Divisional Forest Officer, Hailakandi Forest Division,
- (iii) Shri Paul Lalhlimsang, Officer-In-Charge, Ramnathpur Police Station, Hailakandi.
- (iv) Shri DhrubaJyoti Das, Range Officer, Range Forest Office, Gharmura Range,
- (v) Shri ChiranjitDutta, Executive Engineer, Assam Police Housing Corporation
- (vi) Shri Mobrur Ahmed, Assistant Engineer, Assam Police Housing Corporation
- (vii) Shri Ashish Kumar Jaiswal, Project Manager, M/s BadriRai& Company.

Prior to the Site visit, Regional Office, Shillong through Sub-Office, Guwahati (MoEF&CC) issued letter dated 01.03.2024 to the Addl. Chief Secretary, Environment & Forest Department, Govt, of Assam informing that site visit to ascertain the facts of the area in issue will be conducted on 7th and 8th March, 2024 and accordingly, State Government was requested to furnish the following information:

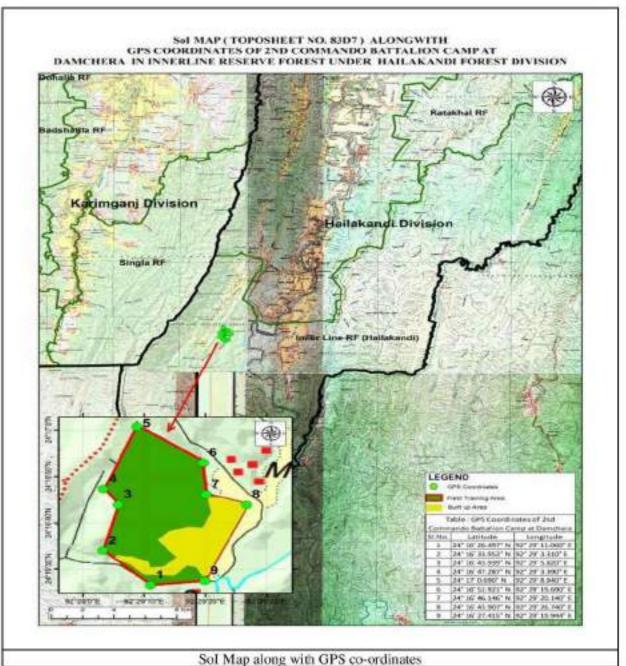
- The purpose-wise break-up of the 44 ha land with layout map.
- The detailed project report (DPR) of the construction of the Commando Battalion.
- 3) The original or colour scan SoI map along with GPS coordinates with proper legend.
- The soft copy of the Kml/shape file.
- The copy of Notification letter of the Reserved Forest land or which the Battalion is being established.
- The order copy of the State Govt. for establishment of Commando Battalion at Hailakandi.
- 7) The order copy of (i) the State Govt./authority authorizing diversion of forest land for establishment of Commando Battalion at Hailakandi and (ii) order copy of handing over of land if any, from the Forest Department for construction/ establishment of the Commando Battalion.
- The order copy of the State Govt, assigning duties to the Commando Battalion.
- The rank-wise breakup of the officers and men to be stationed in the Battalion.

On the request made by Sub-Office, Guwahati, MoEF& CC, State Government vide letter dated 06.03.2024 has furnished the desired information which is marked as **Annexure-XVIII**

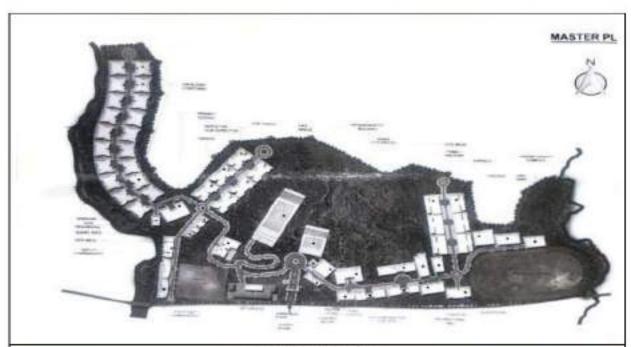
1.5BRIEF OVERVIEW OF FINDINGS:

On reaching the site, it was observed that the construction was on-going in full swing with around 500 workers and construction vehicles wherein the issue is under consideration before the Hon'ble NGT, Principal Bench. The officials present on site informed that the construction is on-going day and night. Officials from Assam Police Housing Corporation Ltd. has shown the Master Plan map of the site (Annexure-XIX) and as per the Master Plan some of the building structures are about 50% completed and whereas some of the structures have just started construction wherein only pillars of the same have been erected. Photos illustrated at table 1.1

Table 1.1: Illustration of photos/maps



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Master Plan of the Site



Overview of the Site



Workers in progress of the construction

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Building structures are about 50 % completed and whereas some of the structures have just started construction wherein only pillars have been erected

1.6 AREA STATEMENT OF BUILDING STRUCTURES:

(A) RESIDENTIAL BUILDINGS as reflected in the Master Plan:

SI No.	Name of Buildings	No. of Units	Floors	Built up area	Blocks	Total Area (in sqm.)	No. of Units	Blocks	Total Area (in sqm.)
1.	C.O's Residential	1	G+1	250.00	1	250.00	1	1	250.00
2,	Garage	8	G	40.00	1	40.00		1	40.00
3.	Sentry Post		G	16.00	1	16.00		1	16.00
4.	Guard Shed		G	74.00	1	74.00		1	74.00
5.	Deputy Commandant	4	G+1	720.00	1	720.00	4	-1	720.00
6.	Assistant Commandant	8	G+1	600.00	2	1,200.00	8	2	1,200.00
7.	Inspector, SI	45	G+1	1,040.00	5	5,200.00	32	4	4,160.00
		æ		650.00	1	650.00			
8.	Havaldar, ASI, Constable	190	G+1	744.00	23	17,112.00	96	12	8,928.00
	2503000005			558.00	1	558.00			
9.	Followers	8	G+1	640.00	1	640.00	8	1	640.00
10.	Accommodation for SO's (Insp., SI)	40	G+1	00.00	2	1,200.00	20	1	600.00
11.	Barrack (Havaldar, Const., Folowers)	504	G+1		8	8064.00	240	4	3,840.00
	Total Strength	800		i.	2 (1)	9	409	8	
			TOTAL	BUILT UP	AREA			90	20,468

(B) NON-RESIDENTIAL BUILDINGS:

SI No.	Name of Buildings	No. of Units	Floors	Built up area	Blocks	Total Area (in sqm.)	No. of Units	Blocks	Total Area (in sqm.)
1.	C.O's Office Building		G+1	1083.00	1	1083.00		1	1083.00
2.	Garage	8	G	40.00	1	40.00		1	40.00
3,	Sentry Post	U.	G	4.00	2	8.00		2	8.00
4.	M.T. Garage with office (20 vechicles)		G	870.00	1	870.00		1	870.00
5.	Ration Store and Clothing Store		G+1	300.00	1	300.00		1	300.00
6.	Magazine/Kote Building with explosive depot		B+G	350.00	1	350.00		1	350.00
7.	GO'S Mess/Guest House		G+1	650.00	1	650.00		1	650.00
8.	SO'S Mess	124	G+1	870.00	1	870.00		1	870.00
9.	Community Center with Canteen, Saloon, Laundry block	5	G	600,00	1	600.00		1	600.00
10.	Hospital (10 beds)		G	330.00	1	330.00		1	330.00
11.	Drill shed with stage		G	400.00	1	400.00		1	400,00
12.	Gate complex with 10 men barrack		G	175.00	1	175.00		1	175.00
13.	Watch Towers	ĝį .	G	5.00	10	50.00		10	50.00
14.	Fire Station with Barrack		G+1	350.00	1	350.00		1	350.00
15.	ATM		G	15.00	1	15.00		1	15.00
16.	Control Room	\$	G	50.00	1	50.00		- 1	50.00
17.	Classroom Block with Computer lab	dr _e	G+1	700,00	1	700.00		1	700.00
18.	Indoor sports complex with gym.		G+1	800.00	1	800.00		1	800.00
19.	Primary School	3	G	560.00	1	560.00		1	560.00
20.	Family Welfare		G	500.00	1	500.00		1	500.00
21.	Naamghar	8	G	300,00	1	300.00		1	300.00
22.	Recreation Hall		G	400.00	1	400.00		1	400.00
- 3	Total Strength	800	1 1 1	1	18 9				5

(C) ABSTRACT:

Residential Buildings	20,468.00sqm.
Non Residential Buildings	9,201.00sqm.
Total Built Up Area	29,669,00sqm.

1.7 INSPECTION ON BUILDING STRUCTURES:

I. RESIDENTIAL BUILDINGS:

(i) Havaldar/Constable, Inspector/Sub-Inspector and Followers Building Quarters:

The site of the building structures for Havaldar/Constable, Inspector/Sub-Inspector and Followers Quarters are in the initial stages of construction with some structures having pillars and slabs and some structures have only pillars and rods erected. As per the Master Plan, the said building structures will be G+1 having 4 (four) blocks for Inspector/Sub-Inspector, 12 (twelve) blocks for Havaldar/Constable and 1 (one) block for Followers. The total built up areas of the structures is 13,728.00 sqm. Photos illustrated at Table 1.2 below.

Table 1.2: Havaldar /Constable, Inspector/Sub-Inspector and Followers Quarters



(ii) Assistant Commandant and Deputy Commandant Building Structures

As per the Master Plan the building structures for the Assistant Commandant and Deputy Commandant will be G+1. The Assistant Commandant will be of 1 (one) block and Deputy Commandant will be of 2 (two) blocks.

The site of the building structures for the Assistant Commandant has not yet been erected or constructed. However, the Deputy Commandant Building Structure are in the initial stages of construction with one block having only the pillars erected and the other block having pillars and slabs constructed. The total built up area of Deputy Commandant Building Structures is 720 sqm. Photos illustrated at Table 1.3 below.

Table 1.3: Deputy Commandant Building Structures



(iii) Barracks for Havildar, Constable, Followers:

As per the Master Plan the building structures of Barracks for Havildar, Constable and Followers will be G+1 of 4 (four) blocks having a built up area of 3,840.00 sqm. The building structures are at 40-50 % completion with rooms and staircase. Photos illustrated at Table 1.4 below.

Table 1.4: Barracks for Havildar, Constable and Followers



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(iv) Other observations w.r.t Residential Buildings:

As per the Master Plan, the site for C.O's Residential Building, Garage, Sentry Post, Guard Shed and Accommodation for SO's (Insp., SI) were not observed on site and can be said that the construction for the said structures have not started. The built up area for these structures if constructed will be 2180 sqm.

II. NON-RESIDENTIAL BUILDINGS:

(i) Primary School:

As per the Master Plan, the building structure of the Primary will be G floor structure of 1 (one) block having a built up area of 560.00 sqm. However, on site, the building structure is only in the initial stages of construction with only pillars erected. Photos illustrated at Table 1.5 below.

Table 1.5: Primary School



(ii) Naamghar

As per the Master Plan, the building structure of the Naamghar will be G floor structure of 1 (one) block having a built up area of 100.00 sqm. However, on site, the building structure is only in the initial stages of construction with only pillars erected. Photos illustrated at Table 1.6 below.

Table 1.6: Naamghar



(iii) Magazine/Kote building with explosive depot

As per the Master Plan, the building structure of the Magazine/Kote building will be B+G floor structure of 1 (one) block having a built up area of 350.00 sqm. However, on site, the building structure is only in the initial stages of construction with only pillars erected. **Photos** illustrated at Table 1.7 below.

Table 1.7: Magazine/Kote building with explosive depot



(iv) Ration Store & Clothing Store:

As per the Master Plan, the building structure of the Ration Stor& Clothing Store building will be G+1 structure of 1 (one) block having a built up area of 300.00 sqm. However, on site, the building structure is only in the initial stages of construction with only the ground floor having constructed rooms and the 1st floor having only pillars erected. Photos illustrated at Table 1.8 below.

Table 1.8: Ration Store& Clothing Store



(v) Admin, CO's Office Building:

As per the Master Plan, the building structure of the Admin, CO's Office Building will be G+1 structure of 1 (one) block having a built up area of 1,083sqm. However, on site, the building structure is only in the initial stages of construction with only the ground floor having constructed rooms and the 1st floor having only pillars erected. Photos illustrated at Table 1.9 below.

Table 1.9: Admin, CO's Office Building



(vi) Hospital

As per the Master Plan, the building structure of the Hospital Building of 10 (ten) beds will be G floor structure of 1 (one) block having a built up area of 330sqm. However, on site, the building structure is only in the initial stages of construction with only the pillars erected. **Photos illustrated at Table 1.10 below.**

Table 1.10: Hospital Building



(vii) SO's and GO's/ Guest House Mess Building

As per the Master Plan, the building structure of the SO's and GO's/ Guest House Mess Building will be G+1 floor structure of 1 (one) block each having a built up area of 650,00sqm. for GO's/Guest House and 870,00sqm. for SO's Mess However, on site, the building structure is only in the initial stages of construction with only the pillars erected. Photos illustrated at Table 1.11 below.

Table 1.11: SO's and GO's/ Guest House Mess Building



(viii) Recreational Hall

As per the Master Plan, the building structure of the Recreational Hall will be G floor structure of 1 (one) block having a built up area of 400.00sqm. However, on site, the building structure is only in the initial stages of construction with only the pillars erected. **Photos illustrated at Table 1.12 below.**

Table 1.12: Recreational Hall



(ix) Family Welfare Center building:

As per the Master Plan, the building structure of the Family Welfare Center building will be G floor structure of 1 (one) block having a built up area of 500.00 sqm. However, on site, the building structure is only in the initial stages of construction with only the pillars erected and ongoing construction. Photos illustrated at Table 1.13 below.

Table 1.13: Family Welfare Center



(x) Classroom block with computer lab building

As per the Master Plan, the building structure of the Classroom block building will be G+1 floor structure of 1 (one) block having a built up area of 700.00 sqm. However, on site, the building structure is only in the initial stages of construction with only the pillars erected and ongoing construction. Photos illustrated at Table 1.14 below.

Table 1.14: Classroom block with computer lab building



(xi) Community Center with Canteen, Saloon and Laundry block:

As per the Master Plan, the building structure of the Community Center with Canteen, Saloon and Laundry block building will be G floor structure of 1 (one) block having a built up area of 600.00 sqm. However, on site, the building structure is only in the initial stages of construction with only the pillars erected and on-going construction. Photos illustrated at Table 1.15 below.

Table 1.15: Community Center with Canteen, Saloon and Laundry block



(xii) Indoor Sports Complex with Gym:

As per the Master Plan, the building structure of the Indoor Sports Complex with Gym building will be of G+1 floor structure of 1 (one) block having a built up area of 800.00 sqm. However, on site, the building structure is only in the initial stages of construction with only the pillars erected and on-going construction. **Photos illustrated at Table 1.16 below.**

Table 1.16: Indoor Sports Complex with Gym



(xiii) Drill Shed with stage:

As per the Master Plan, the building structure of the Drill Shed with stage will be of G floor structure of 1 (one) block having a built up area of 400.00 sqm. However, on site, the building structure is only in the initial stages of construction with only small pillars and rods erected. Photos illustrated at Table 1.16 below.

Table 1.17: Drill Shed



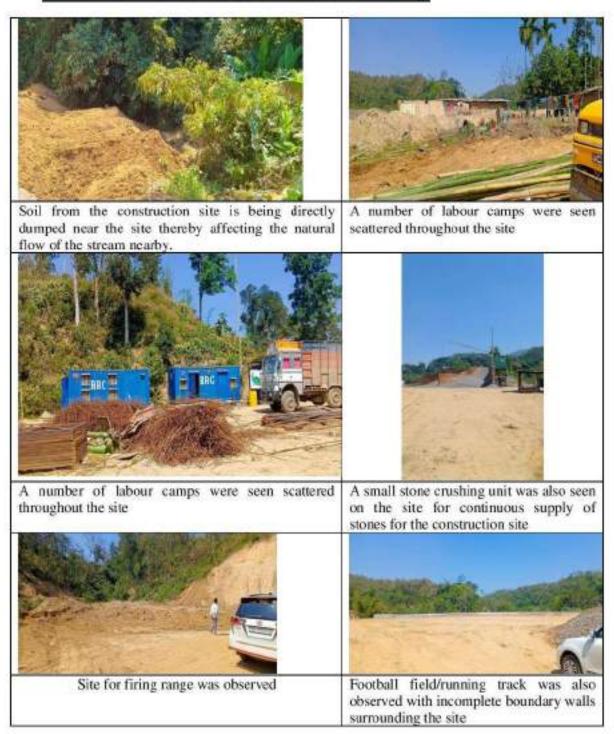
(xiv) Other Observations w.r.t Non residential buildings:

Besides the above observations, the site near the Halvadar/Constable Quarter buildings is a small stream running near the site, the soil from the construction site is being directly dump near the site thereby affecting the natural flow of the stream. A number of labour camps were seen

scattered throughout the site. A small stone crushing unit was also seen on the site for continuous supply of stones for the construction site. The site for firing range was observed. The Football field/running track was also observed with incomplete boundary walls surrounding the site.

Photos illustrated at Table 1.18 below.

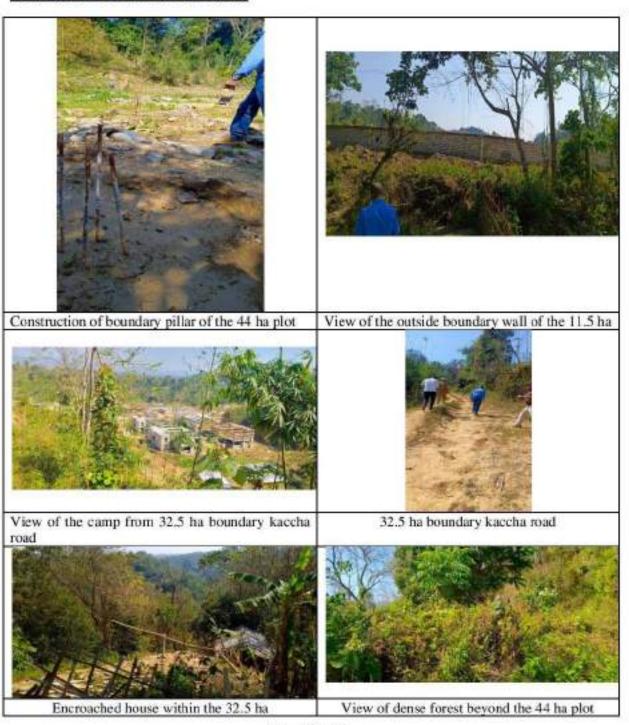
Table 1.18: Other observations w.r.t Non residential buildings



1.8 Observations made on the north-eastern side of the 32.5 ha plot (Field Training Area of the Battalion Camp)

The site has been perambulated on the east- north-eastern side and it was found that the boundary of the plot goes along an unmotorable old path/kaccha road. It is observed that some local encroachers house and bettlenut plantation are within the 32.5 ha plot. As per the local officers, these occupants within the 44 ha plot have agreed to vacate once the construction of the Battalion is complete. Such encroachments are also observed beyond the 44 ha plot. Photos illustrated at Table 1.19 below:

Table 1.19: Observations made on the north-eastern side of the 32.5 ha plot (Field Training Area of the Battalion Camp)



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1.9: OBSERVATIONS:

From the papers made available to this office and at the time of site visit it is revealed that:

- The area on which the construction of the Battalion is in Inner Line RF declared as an RF vide Notification No. 2106A dated 9th March, 1933.
- The area of 44 ha consists of 2 parts, 11.5 ha for build-up area and 32.5 ha for training purpose.
- iii. The area in 11.5 ha build up area is devoid of vegetation and found levelled. It was informed that the area is evicted encroachment area and was of rice fields and plantations before. The vegetation in the rest of the area of 32.5 ha is mostly covered with moderately dense forest interspersed with teak plantations mixed with Gmelinaarboreaor Gamari. There are extensive encroachment all over the area visited across the length and breadth of the RF in the form of rice fields, bettlenut plantation, dwelling houses etc.. The area of the RF does not appear to have been demarcated.
- There is no report of wildlife presence in the area except wild boar, as informed by the field staff.
- v. The site of 11.5 ha does appear to have been encroached and evicted. The area is not fully cleared of the encroachment as seen from the presence of the mosque, and some settlements nearby and within the 44 ha itself being occupied by the local population of the state of Assam.
- As per the forest officers accompanying the undersigned, no tree is being felled for the construction of the Battalion as the area is encroachment-eviction area.
- vii. The site for the construction of the Battalion was selected jointly by the DFO and the Police Deptt as per the letter dated 26.06.2023 keeping in view the strategic location and vicinity to the borders.
- viii. The DFO vide his letter dated 18.07.2021 has requested the SP, Hailakandi to provide Special Armed Forces to conduct requisite protection measures towards prevention of further extension of encroachment and ejection of encroachers.
- ix. The Home & Political Department, Govt. of Assam vide their letter dated 22.10.2021Notified for raising 1 (one) new Assam Commando Battalion i.e. 2nd Assam Commando Battalion (Operation), Birsima, Hailakandi alongwith creation of posts.
- x. The Police Department, Govt. Of Assamissued order No HMA.113/2021/Pt/29 dated 22.10.2021, specifying the posts and force strength is the Battalion as follows:

SI No.	Rank	Gazetted/Non- Gazetted posts	No. Of post for each Battalion
	Force P	ersonnel	
1.	Commandant (SP Rank)	Gazetted Post	1
2.	Deputy Commandant (Addl. SP Rank)	Gazetted Post	3
3.	Asstt. Commandant (Dy. SP Rank)	Gazetted Post	7
4.	Inspector	Non-Gazetted Post	16
5.	Sub-Inspector	Non-Gazetted Post	64
6.	Havildar	Non-Gazetted Post	112
7.	Constable	Non-Gazetted Post	480
8.	Followers		72

	Cook – 20 Multitasking and Maintenance Staff – 18 Water Carrier – 18 Dhubi – 8 Barber – 8	Non-Gazetted Post	
	Medic	al Staff	
9.	Sr. Medical & Health Officer	Gazetted Post	1
10.	Medical & Health Officer	Gazetted Post	1
11.	Physio Therapist	Non-Gazetted Post	1
12.	ASI (Pharmacist)	Non-Gazetted Post	1
13.	Hav (X-ray Asstt)	Non-Gazetted Post	1
14.	Lab Technician	Non-Gazetted Post	1
15.	Staff Nurse	Non-Gazetted Post	2
16.	Hav. Nurse	Non-Gazetted Post	2
17.	Const. Nurse	Non-Gazetted Post	10
18.	Dhai	Non-Gazetted Post	1
	APRO) Staff	410
19.	Inspector	Non-Gazetted Post	1
20.	S.I (Radio Operator)	Non-Gazetted Post	3
21,	S.I (Technician)	Non-Gazetted Post	1
22.	ASI (Radio Operator)	Non-Gazetted Post	4
23.	ASI (Cypher)	Non-Gazetted Post	1
24.	HC (WO/WT/Cy)/Cn (WO/WT/Cy)	Non-Gazetted Post	14
	Grand Total		800

- The work for the construction of the Battalion Camp was tenderedby Assam Police Housing Corporation Ltd.vide Tender Notice no. APHC/T/22/2021-22/02, dated 27/12/2021.
- The Work Order was issued by Assam Police Housing Corporation Ltd. vide Order No: APHC/CS/80/2021-22 dated 13.02.2023 to M/s. Badri Rai & Company.
- xiii. The PCCF and HoFF of Assam vide order dated 28.09.2023 gave a go-ahead for the construction of the Battalion on the ground that the work is ancillary to forest protection.
- xiv. The work was said to have started in October 2023 as per the Forest Department officers (DFO, RFO) and Assam Police Housing Corporation representatives.
- xv. As per the DPR of the project the plinth area is 29,669.00sq metre.
- xvi. The breakup of the land is as below:

Allotted Land for 2nd Commando Battalion Unit within the ILRF: 43,9900.00 sqm.

Built up area : 11.5 ha

Plinth area of the structures : 29,669.00sqm

xvii. The units to be constructed and the progress of their construction is as below:

SIN	Name of the unit	Plinth area in sqm.	Status of construction
Resid	dential Buildings	78 0	
1.	C.O's Residential	250.00	On-going construction
2.	Garage	40.00	On-going construction
3.	Sentry Post	16.00	On-going construction
4.	Guard Shed	74.00	On-going construction
5.	Deputy Commandant	720.00	On-going construction
6.	Assistant Commandant	1,200.00	On-going construction
7.	Inspector, SI	4,160.00	On-going construction
8.	Havaldar, ASI, Constable	8,928.00	On-going construction
9.	Followers	640.00	On-going construction
10.	Accommodation for SO's (Insp., SI)	600.00	On-going construction
11.	Barrack (Havaldar, Const., Folowers)	3,840.00	On-going construction
Non-	Residential Buildings	``	
12.	C.O's Office Building	1083.00	On-going construction
13.	Garage	40.00	On-going construction
14.	Sentry Post	8.00	On-going construction
15,	M.T. Garage with office (20 vechicles)	870.00	On-going construction
16.	Ration Store and Clothing Store	300.00	On-going construction
17.	Magazine/Kote Building with explosive depot	350.00	On-going construction
18.	GO'S Mess/Guest House	650.00	On-going construction
19,	SO'S Mess	870.00	On-going construction
20.	Community Center with Canteen, Saloon, Laundry block	600,00	On-going construction
21.	Hospital (10 beds)	330.00	On-going construction
22.	Drill shed with stage	400.00	On-going construction
23.	Gate complex with 10 men barrack	175.00	On-going construction
24.	Watch Towers	50.00	On-going construction
25.	Fire Station with Barrack	350,00	On-going construction
26.	ATM	15.00	On-going construction
27.	Control Room	50.00	On-going construction
28.	Classroom Block with Computer lab	700.00	On-going construction
29.	Indoor sports complex with gym.	800.00	On-going construction
30.	Primary School	560.00	On-going construction
31.	Family Welfare	500.00	On-going construction
32	Naamghar	300.00	On-going construction
33.	Recreation Hall	400.00	On-going construction
	Total	29,669,00sqm	

- xviii. The construction are of RCC permanent structures of mostly G and G+1
- xix. The rest of the area is kept for training and other needs. The vegetation is left intact as on the day of the visit.
- xx. During the course of discussion it was informed by the DFO, Hailakandi that there are 109 sanctioned posts of which73 are in position as on date which include 1 (one) DCF, 1 (one) ACF, 5 (five) Forest Rangers, 4 (four) Deputy Rangers, 15 (fifteen) Forester-I and 30 Forest Guards.

- xxi. As per the local officers and staff, the establishment of this Battalion will go a long way in protecting the Inner Line RF forests from within the state and the neighbouring state. It is claimed that even now, some impact is felt by way of the morale of the staff being raised with the establishment of the same. During the visit, the visiting team was accompanied, among others, by some of the Commando staff currently attached with the DFO, Halilakandi. There is no dispute that the presence of such combat force in the Department will help the protection and conservation effort of the Division and State.
- xxii. The area being allowed for construction of the Battalion Camp to the Assam Police Housing Corporation could have been reduced had the construction been made more floors than G and G+1.

The construction is large-scale and of permanent concrete structures, considering the area of build-up is 11.5 ha and the plinth area being close to 30,000 sq.metre. The area of 11.5 ha does not appear to have much semblance to any of the activities mentioned in the explanation (b) of Section 2 of the Forest (C) Act, 1980 about ancillary activity for conservation, development and management of forest and wildlife, namely, establishment of checkpost, firelines, wireless communications and construction of fencing, bridges and culverts, dams, waterholes, trench marks, boundary marks, pipelines or other like purposes.

The area of 32.5 ha set aside for training has not been broken by the current activity of the construction of the Camp Battalion. The site has been perambulated on the east-northeastern side and it was found that the boundary of the plot goes along an unmotorable old path/kaccha road. It is observed that some local encroachers house and bettlenut plantation are within the 32.5 ha plot. As per the local officers, these occupants within the 44 ha plot have agreed to vacate once the construction of the Battalion is complete. Such encroachments are also observed beyond the 44 ha plot.

The above are the facts gathered through correspondence and as observed and noted in the field.

Sd/-(W. I. Yatbon) DIGF, RO, Shillong

ANNEXU350 - I

Domerune - 5

Exhibit-4

FAX 03012227000

CO TO CH

PA (0)11

(Copy)

Extract from - THE ASSAH GAZZTZE - BORT-IX .

Dated 15th Match, 1913.

Croces by the Covernor in Council. The 9th Earth, 1933.

Zann-325.

ic.2105A.Egr In supersession of Government Mctification No.9100A.Te. dated the 28th August, 1950, and in exercise of the power conferred by section 2 of the bengal Eastern Frontier Regulation, 1973(V of 1973), as extended to the Lushai Hills District, the Governor in Council with the trevious sametion of the Governor Goneral in Council, is pleased to prescribe the line described below as the "Inner Line" of the Lushai Hills District to

District to From the junction of the Busning with the Earth river, the Inner Line shell run up the midetrees of the forest to where it receives the Lunghalb Lod; themen up the eddstreen of that street to its source, and crossing the range in a vesterly direction down the right bank. of small feader flowing into the Teirnngnek straon; themes down Newstern the eddetream of the latter to its junction with the Schot river. From this point the Inner Lines chall was south-westwards up the midsteson of the Sonai-river as far as its junction with the Spenglown Lui; thence we the misstream of this faithfurthern of the Bogh Whel or Tuisten Lui to ice function with a large feeder that takes its rice meet the deserted willings of actions themes up the midatress of this feeder to the surmit of Ecoglong range, and cressing that range down the widstraws of the Tesdu Lyl. to its morates with lained river. Then a straight line musing in a north-westerly direction from this junction to the Dhalefbridge one furlent north of the 20th mile thome on the Aljel-Dwarfood rund, this, point is also the exijonotion of the Endighered. Subdivision (district Gamps) with the Luchet Hills Matrice; thence up the midstress of the Worlat river to its source, where ; "arcseign the actorshed it strikes the headestors of the Cohicheng led and Sign the citis tream of this Lot in fir junction with the Beron Chara; throse " gown the midstrant of the Beren Chain to ice junction with the Santiurng laid Cr'; thence up the midstress of this Lei to its source in the Dhairabt course . "

(for ; thereon up the midetrons of this Lui to the source in the Dhaltedt range . There cruesing the Ehaltedt range westweeds to the sesses of the Bhaltedt server; thereon the she midetrons of the Bhaltedt the Thelesson of the

Gentlis ... 2/-

[10

-2-

to its junction with the Boken river; thence up the midstream of the Bakes tiver to the second large tributary met with on its left bank; thence up the ministream of this tributary to its course; thence in a mortherly direction. slong a range to Conterchurra Peak (2071); thence due west in a straight line to the trijunction point of districts Sylhet, Lushei Hills (Assen) and Tripure state (Dengal) situated on the Longer river about 5th of a mile south-west of the confluence of the Medil Sharra with that river (wide Notification No. 3313) drived the 4th October, 1928); thenes in a southerly direction up the midstream of the Langai river to its confluence with a small mampless tributery going west about 2% miles north-cast of Betling Sib Fonk -455 beight 3,083, thence in a south-westerly direction to Estling Sib Poak; thence in a southerly direction to Batling Roak height 2,234 which is the trijunction of district Lushoi Hills (Assam), Tripure State and Chicagons Hills Tracts district (Bengal); thence in a south-costerly direction for about a mile to residutary of the Tuildenpul rivor, thereo down the midstroom of this probutary to its confluence with the Tuilianput river thereo down the midstream of Tuiltianpul river to a point about 2% miles south-east of its confluence with Subdivision boundary; the har river, which is the junction of the Aijel Lunglah thence westwards in a straight line to the source of the Harina river; thence down midstream of the Morina river to its confluence with the Karnaphuli river; thence up the midstreem of the Kernsyhuli river to its configurace with the Tgegs Khol; thence up the midstream of the Thags Whal to its junction with two other tributories about 64 miles south-cest of height 2,096 and 54 miles north-west of Waibung Taung, beight 3,083; thence in a south-masterly circcien up the slope for about 2 miles to the Waibung Toung range; thence in a westerly, southerly and easterly direction respectively along the range to Uniting Toung Fook beight 3,083; thence in a southerly direction to Knokradong, which is the trijunction of Chittagong Will Tract (Stingal), Lumbai Hills (Assen) and Northern Arakan district (Burna); thence castwards to Hephrotons or Rengtlang; thence to source of a small straum called tho South Verangiui or Exalkshaung whose source lies due cast of the Paik, soun the midstream of the Varenglui or Mraikchaung to its junction with the Sekul (Kola) or Kalet stress (wheref a boundary stone has been place); thench up the midstream of the Sekul (Mole) or Malet street to the south of the Thavelong or Zyucho stress (where a boundary stone has been placed); thence up the midstremm of the Mawtlang or Lyuchn to its source on the Samang or &

Evinon rang ; thence south wards along the Sameng or Evinen range:

Con til 3/-

to the entree of the Samik ut Kuiman street (where a beindary stone has been placed); thence down the midstream of the Samuk or Kwimon stream to its junction with the Kolndyne (Kaladan) river; thence streight ecross the Koladyne (Koladen) river to the mouth or the Mongas or Kudman stream (where a boundary stone has been placed), (the mosths of these two streams are opposite one another); thence up the midstroom of the Knengga orKwimon strand Le its source in the Kaisi Tieng (where a beembary stone has been placed); thence southwards to the source of the Rale or Shoolaik stream; thence down the midstream of the Raic or Shweinik stream to its junction with the Sulla Tivor; themed up the midetream of the Sulla river to its junction with the Naikhou or Khinkom stronm (where a boundary stope has been placed); thence up the midstronm of the Knikhen or Khinkon stream to its source on the Pathian of February Exlang; thence northwards along the Fathian or Fabray Clang to the source of the Fern strong; thence down the midstream of the Eats strong to its junction with the Mi (Tishi, Tuisi, or Wabling) river; thence up the nicetream of this river to its junction with the Dielow screen; theore up the midstream of the Kheimu stream to its source on the Kahrin or Kughrin (Khasia) Blang; thence south along the crost of the Pahrin or (Panhria) Ring or the

source of the Rothu Ver: thance days the midstream of the Raphu Ver to its junction with the Endou(Falains) river; thence down the midstream as the boins (Keledon) river to the junction with Typo; thence up the efficience of the Tyne to its source on the Vike Tions; thence ensurers to the acures of tributary of the Tuining river; thence down the midatraon of the Tuineng to its junction with the Tuise; thence down the midstream of the Tuits to its junction with the Tuives civer; thence down the additions of the Trival river to its its junction with the Vergran but; thence up the ministraes of the Vangvam Lui to its source at saddle known as Bongkot where he a boundary piller worked HL(1) has been exceed, -thence crossing to the west seed of this saddle to the source of the Tuitei stream; thence down the nicerrect of the Totol Stream to its junction with the Tuiwelriver; thense from the midetrees of the Tuivai river to its junction with the Barck river; thunce down the padatroom of the Barak river to its junction with the Ruanding Lui, which is the trijunction of the lunghi Hills and Gachar Districts and Maniput Smite.

SOTZ :=(1) The Inner Line falls in the following survey of India 1"=4 miles and 1" = 1 miles publications :
North := 83H,83D,83D/15, D/14, D/11 and D/7,

West := 83-D/7,83-D, 84-A, 84-B and 84-C,

South & East:= 84-B, 84-C, 84-E, 84-F, 83-D and 83-H.

Hills district are co-incident with the Inner Line of the Lushei Hills District

Goief Secretary to the Govt. of Assets.

Most Urger By Special Messenger

GOVT OF ASSAM

OFFICE OF THE DIVISIONAL FOREST OFFICER::HAILAKANDI FOREST DIVISION::HAILAKANDI Letter No. HKD/DFO(T)/Border / Encroachment/ 1873 Date: 18/07/2021.

To,

The Superintendent of Police Hailakandi.

Sub:- Requisition for special armed forces for Gharmurah Range under Hailakandi Forest Division Madam,

With the subject cited above, I am to Inform you that the about 80% Gharmurah Range boundary is along with Inter State Border Boundary of Assam Mizoram and the said border area is disputed area with Mizoram. Moreover the reserved forests area viz. Inner Line Reserved Forests under the Range has huge encroachment in bordering area by both Mizoram and Assam side.

Under the circumstances I would request you to provide special armed forces to conduct requisite protection measure toward prevention of further extension of encroachment and ejection of encroachers in face manners.

This is for favour of your kind information and necessary action.

Yours faithfully

(M. Ali, AFS) Divisional Forest Officer Haifakandi Division, Haifakandi

Or Place

- the Addl. Frincipal Citief Conservator of Forests (T), Lower Assam Zone, Kacharighat, Cu. vahati-1, for king information. 2
- The Chief Conservator of Forests Southern Assam Circle, Silchar for kind information. P. Or puty Commissioner, Hallakandi for kind information.

Divisional Forest Officer Hailakandi Division, Hailakandi

ANNEXURE - III

471 HOLDERAN

Metao No. 115.13/B/91/2021/434

Dated Usidak andi, the 24th July, 2021.

HALLAKANDI

To

The Director General of Police. Assam, Ulubari, Gowahati-7.

Saba

Regarding establishing a base for special armed forces like Commandos at Charmerah Range of trace-Line Reserve Forest area under Hailakandi Forest Division.

Ref :

i citer No. HKD/DFC(1)/Borck /Friendschmen/1973. dated 18.07.2021 of D.F.O. Hailakandi.

Sic

Specifically areas and the area is vest and reference, it is being brought to your kind notice that Chambrach Range of Inner-Line Reserve Forest shares a substantial boundary with Mizotam and is under the area constant encroachment. The area is remote and due to absence of any constructionaries in terms of roads and other facilities, it is very difficult to respond in case of any facilities are partitional anomal from Mizotam side. For the protection of the Reserve forest in this interest area, D.F.O. Hailakandi has requisitioned (vide above mentioned reference).

2,12-13 extract forces. At the area is vest and of vital importance to the state, in view of the Lange State for Statestion of Commissions are may be considered to be deployed in the area.

Submitted in anticipation of your kind consideration.

Yours faithfully,

Euclo : Ficure mentioned reference.

Superintendent of Police. Hailakandi.

Memo No. FECD/8/91/2021/324-A

Dated Hailakandi, the 24th July, 2021.

Copy for favour of kind information to ;-

- 1. The Spl. Director General of Police (B), Assau, Stimontopur, Gowahati-32.
- 2. 'the 'sp! Director General of Police (T&AP), Assam, Ulubari, Guwahati-7.
- The Principal Secretary to the Covi. of Assaul, Home & Political Deparament. Assaul, Disput, Guwahati-6.
- The Principal Secretary to the Govt, of Assaul Environment & Forest Department, Assam, Dispur, Guwahati-6.
- The Addl. Principal Chief Conservator of Forests (f), Lower Assam Zone, Kacharighat, Guwahati-1.
- The Commissioner & Secretary to the Govt. of Assen, Border Protection & Development, Dispur, Guwahati -6.
- The Deputy Commissioner, Hailakandi.

ANNEXERE - IV

ANNEXURE YL

___ 59 __

SECRET

ON 28-07-2021 AT 2-00 PM IN THE CABINET ROOM OF CHIEF MINISTER'S
OFFICE AT JANATA BHAWAN, DISPUR, GUWAHATI

Informal Item No.4 Home & Political Department No. file

As part of the State Government's decision to appoint one takk youths in Government jobs, the Cabinet decided to start the process to fill up vacant posts in Assem Police and the process will start from 1st September, 2021. The Cabinet also decided to create five new Commando battalions of Assam Police which will open up recruitment prospects for 6270 youths.

-- 60-

आपादी व अमृत महोत्सव

GOVERNMENT OF ASSAM HOME (A) DEPARTMENT

3rd Floor, CM's Block, Janata Bhawan, Dispur, Guwahati-6 E-mail : assam.home@assam.gov.in

No. HMA.113/2021/Pt/29

Dated Dispur, the 22rd October, 2021

From : Shri Di

Shri Diganta Barah, IPS

Secretary to the Govt. of Assam,

Home & Political Department, Dispur

The Principal Accountant General, Assam, Maidamgaon,

Beltola, Guwahati-29.

Sub:

1

Sanction for raising of 1 (one) new Assam Commando Battalion i.e. 2nd

Assam Commando Battalion (Operation), Birsima, Hallakandi

alongwith creation of posts.

I am directed convey the sanction of the Governor of Assam to the raising of (one) new Assam Commando Battalion i.e. 2nd Assam Commando Battalion (Operation), Birsima, Hailakandi alongwith creation of 800 (eight hundred) nos. of post for this newly created Assam Commando Battalion (Operation) w.e.f. the date of sanction as per the following staffing pattern:

SIL No.	Rank	Gazettel / Non- gazetted posts	No. of Posts for each Battalion	Scale of Pay
		oree Personnel		
1.	Commandant (SP muk)	Gazetted post	1	As per
2.	Deputy Commandant (Addl. SP rank)	Gazetted post	3	RoP 2016
3.	Assti. Communications (Dy. SP mnk)	Gazetted post	7	1
4.	Inspector	Non-gazested post	16	-
5.	Sub-Inspector	Non-gazetted post	64	
6.	Havildar	Non-gazetted post		
7.	Constable	Non-gazetted post	112	
8.	Followers Cook = 20 Multitasking and Maintenance Staff = 18 Water carrier = 18 Dhubi = 8 Bather = 8	Non-gazanad post	72	As per RoP 2016

30

		Medical Stuff		
9.	Sr. Medical & Health Officer	Oracetted post	1	As per RoP 2011
10.	Medical & Health Officer	Charles prom	1	
11.	Physio Therapist	Non-gazested post	1	
12.	ASI (Pharmecist)	Non-gazetted post	1	
13.	Hav (X-ray Aastt)	Non-gazetted post	- 1	
14.	Laboratory Technicism	Non-gezetted post	- 1	
15.	Staff Nurse	Non-gazetted post	2	
16.	Hav Nursing	Non-gazetied post	2	-
17.	Coast. Nursing	Non-gazetted post	10	
18.	Dhai	Non-gazetted post.	- 1	
104		APRO Staff		
19.	Inspector	Non-gazetted post	1	As per
20.	S.I. (Radio Operator)	Non-gazetted post	3	ReP 2016
21.	S.J. (Technician)	Non-gazetted post	1	
22_	A.S.L (Radio Operator)	Non-gazetted post	- 4	
23.	A.S.I. (Cypher)	Non-gazetted post	1	
24.	HC (WO/WT/Cy)/ Cn (WO/WT/Cy)	Non-gazetied post	14	
	Grand Total:	-	800	

Govt has no objection to the filling up of the newly created 800 posts outing the current financial year as per approval conveyed by Finance (SIU) Department vide their U/O No.FSI No.467/2021 dated 21/10/2021.

Head of account will be communicated after creation of particular head against the organization by Pinance Department.

This is issued with the concurrence of Pinance (EC-II) Department vide their J/O. No.733/2021 dated 21/10/2021.

Yours faithfully,

Secretary to the Gove of Assam. Home & Political Department

Dated Dispur, the 22rd October, 2021

Memu No.HMA.113/2021/Pt/29-A

1. The Director General of Police, Assam, Ulubari, Guwahati-7 for information and Copy to :necessary action.

The Finance (EC-II)/ (Budget) Department, Dispur, Guwahati-6.

By order etc.,

Secretary to the Govt. of Assam, Home & Political Department

Dated Dispur, the 22th October, 2021

Memo No.HMA.113/2021/Pt/29-B

ANNEXERE

ON LTD. REHABARI, GUWAHATI-8 ASSAM POLICE HOUSING CORPOR Dated: 29 [12 202]

No: APHC/T/22/2021-22/01

Notice inviting RFP (Request for proposal)

The Chief Engineer, Assum Police Housing Corporation Ltd., Rehabari, Guwahati-8 invites bids through Engineering, Procurement and Construction (EPC) mode of contract for the Construction of Raising of New Assam Police Battalions at Different location of Assam" from the eligible contractors. Details may be seen in the website https://assamtenders.gov.in & also at the office of the undersigned during office hours.

> Chief Engineer Assum Police Housing Corporation Ltd. Rehabari, Guwahati- 8

Dated: 27 | 13 | 0.02 1

Memo No.: APHC/T/22/2021-22/01

Copy to:

- 1. The Director General of Police Assam, Guwahati for favour of kind information.
 - 2. The Secretary to the Govt. of Assam, Home and Political Dept. Dispur, Guwahati-6, for favour of kind information.
- 3 The Advertising Manager, "The Assam Tribune" Chandmari, Guwahati-3 for information and
- requested to publish the above notice in 1 (one) issue of the Daily English News Paper "The Assum Tribune" on or before 29-12-2021.
- The Advertising Manager, "Times of India" Christain Basti, Guwahati for information and requested to publish the above notice in I (one) issue of the Daily English News Paper "Times of India" on or before 29-12-2021.
- 5. The Advertising Manager, "The Indian Express" Dr. S K Bhuyan Road, 23, Dighali Pukhuri (East). Guwaneti - 781 001 for information and requested to publish the above notice in 1 (one) issue of the Daily English News Paper "The Indian Express" on or before 29-12-2021.
- 6. The Advertising Manager, "The Telegraph" (India), ABP Pvt Limited, 3rd Floor, Jupitara Palace, Bhangagarh, G. S. Road, Guwahati - 781005 for information and requested to publish the above notice in I (one) issue of the Daily English News Paper "The Telegraph" (India) on or before 29-12-2021.
- The Advertising Manager, "Asomiya Pratidin", Maniram Dewan Road , Voltas Lane , Guwahati 781003 for information and requested to publish the above notice in 1 (one) issue of the Daily Assumese News Paper "Asomiya Pratidin" on or before 29-12-2021
- . The Advertising Manager, "Niyomiya Barta", News Live Building, Christian Basti, Guwahati 78 1005 for information and requested to publish the above notice in 1 (one) issue of the Duily Assamese News Paper "Niyomiya Barta" on or before 29-12-2021.
- Account Branch, Assam Police Housing Corporation Ltd. for information.
- 10 All Executive Engineer, Joshat / Guwahati / Dibrugarh / Silchar / Bongaigaon / Tezpur / Nagaon / Mandakata Sub-Unit, Assam Police Housing Corporation Ltd. for information & wide circulation.

11 Notice Board

Chief Engineer Assam Police Housing Corporation Ltd. Rehabari, Guwahati- 8

ASSAM POLICE HERODICULEM No.: APDICA'S/80/2021-22/

ISSUE NOTICE TO PROCEED WITH WORK

To.

M/S Budri Ral & Company.

Station Road, Dulinger, Dibrogada

7866002, Phone No. 0374 2800588, 97060 - 65837

Email id: bredgeoggannil.com

Sub:

"Raising of New Assam Police constrando Battalion at Kuchurtul in Hailakandi Dist, Assam (Shitted presently to Damcherra in Gharmura Range under Ranuathpur Police Station) on Engineering, Procurement & Construction (EPC) Mode."

(Online EPC Mode Tender) Tender Value: Rs. 139,93,44,801.51 (Rupces One Hundred Thirty Nine Crore Ninety Three Lakles Forty Four Thousand Eight Hundred One and Paisa Fifty One)

only.

Refs

This office LOA No.: APHC/CS/80/2021-22/21

Date: 10-08-2022

Dear Sir.

Upon submission of Bank Commutee of RTCI bank Ltd. (Bank Name) for Performance Security bearing No.: 0543NDDC00020423, Dtd.: 13-10-2022 amounting Rs. 6,62,240.00 (Rupees Six Lukhs Sixty Two Thousand Two Hundred Forty) only and Bank Guarantee of (IDFC Bank Ltd. (Bank Name) for Performance Security bearing No.: 264GT02222860001, Dtd.: 13-10-2022 amounting Rs. 6,93,05,000.00 (Rupees Six Crore Ninety Three Lakhs Five Thousand) only by you, the appointed date for the above mentioned project is hereby fixed as 720 (Seven Hundred Twenty) days from the date of hunding over of site.

You are requested to start the work as per Contract Agreement.

Enclot Copy of Contract Agreement

Yours faithfully

Chief Engineer. Assam Police Housing Corporation Ltd. Rehabari, Gawahati-8,

Date :- 13-62-2027

Memo No. APHC/CS/80/2021-22/ /19 1

- Copy To:-

The Director General of Police Assam, Ulubari, Guwahati – 7, for Givour of kind information.

2. The Principal Secretary to the Govt, of Assam, Home & Political Dept. Dispur, Guwahati favour of kind information.

 The Commissioner to the Govt, of Assam, Home & Political Dept. Dispur, Guwahati – 6 for favour of kind information

4. The Secretary to the Govt. of Assam, Home & Political Dept. Dispur, Guwahati 6 for favour of kind information.

- 5. The Managing Director, Assam Police Housing Corporation Itd. Rehabari, Guwahati 8, for favour of
- 6. The Deputy Inspector General of Police, (MPC) Assum, Guwahati for layour of your kind information
- The Commandant, 2nd Assam CDO Bn, Birsima, Hailakandi in 21th AP(IR) Bn, Kathicherra for favour
- The Executive Engineer (Elect.), APHC Ltd. for information and necessary action.
- 8. The Executive Engineer, APHC Ltd. Silchar Sub Unit for information and necessary action.
- M/S Design Associate INC, PMC, A-163, Sector 136, Noida 201301, for favour of information.

Account Branch, APHC Ltd. for information.

Chief Engineer, Why Assum Police Housing Corporation Ltd. "Rehabari, Cuwalati-8







GOVT, OF ASSAM

OFFICE OF THE SUPERINTENDENT OF POLICE ::: HAILAKANDI :: ASSAM :::

Memo No. HKD/B/91/Vol-III/2023/224

Dated Hailakandi, the 26th June, 2023.

To,

The District Forest Officer, Hailakandi Division, Hailakandi

Sub.: -

Regarding Handing Allocation of Land at Dameherra Lyinh within Inner Line Reserve Forest under Gharmura Forest Range for Raising 2nd Commando Battalion.

Sir,

In inviting a reference to the subject cited above, I would like to bring to your kind notice that there are reports of numerous incidents of encroachments in and around Gharmura Range of Inner-Line Reserve Forest under Hailakandi Forest Division which shares a substantial boundary with Mizoram State which is a threat to the security and sanctity of the Forest lands of the State.

In view of the above, it is imperative to provide ample security with a strong and well equipped Police force in order to respond to any incident of attempt of encroachment from Mizoram side and to ensure protection of the Reserve Forest area along the inter-state border of Assam-Mizoram in order that the activities of the Forest Department to protect the Forest land, its flora and fauna is carried out without any threat of encroachment or any other disruption by miscreams.

In view of the above circumstances and keeping in mind the increasing challenges of safeguarding the Inter State Border boundaries and the evolving nature of encroachment by miscreants, it has become imperative to establish a Commando Battalion that is capable of effectively responding to such critical situations.

After careful consideration and evaluation, the authorities have identified a suitable Forest land that would be ideal for the construction of the Commando Battalion facility at Damcherra. The chosen location has been assessed to have the necessary attributes, including adequate space, accessibility and strategic positioning which are essential for the successful establishment and operation of the Commando Battalion.

Part 123

Homping Dates



The establishment of the Commando Battalion would be of significant value in preserving the natural resources. Further, every effort would be made to ensure minimal disruption to the environment during the construction and subsequent operation of the facility. Necessary measures such as reforestation initiatives and strict adherence to environmental regulations will be implemented to mitigate any adverse impact on the Forest ecosystem.

In view of the above, I request you to kindly hand over the aforementioned Forest land to the Hailakandi District Police accordingly.

Yours sincerely,

Superintendent of Police, Hailakandi.

Memo No. HKD/B/91/Vol-III/2023/224-4

Dated Hailakandi, the 26th June, 2023.

Copy forwarded for favour of kind information to:-

- 1. The Director General of Police, Assam, Ulubari, Guwahati 7.
- The Addl. Director General of Police (SB), Assam, Kahilipara, Guwahati 19.
- The Inspector General of Police (TAP), Assam, Ulubari, Guwahati 7.
- 4. The Inspector General of Police, Border, Assam, Srimantapur, Guwahati-32.
- The Commissioner & Secretary to the Govt. of Assam, Border Protection & Development, Dispur, Guwahati-6.
- The Deputy Inspector General of Police (SR), Assam, Silchar.
- The Managing Director, Assam Police Housing Corporation, Assam, Rehabari, Guwahati 8.

.......

8. The Deputy Commissioner, Hailakandi.

Superintendent of Police, Hailakandi.

Page 2 of 2



GOVT OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER::HAILAKANDI DIVISION HAILAKANDI

E-mail: hailakandiforests 1 992@gmail.com

No. HKD/DFO(T)/Border/2nd Commandant Battalion Unit/ 3745-47

Date: 26 /07/2023.

To The Chief Conservator of Forests Southern Assam Circle, Silchar

Proposal for establishment of 2nd Commandant Battalion Unit near Assam-Mizoram Interstate border area of Inner Line Reserve Forest for protection and conservation of forest resources in Reserve Forest land and mitigation of Mizo aggressions in Assam-Mizoram Interstate border area of Assam - reg.

Ref:- Your letter No. FGS.13/ECD/Assam Mizoram Border/2018/Pt Dtd. 04-01-2023,

Sir.

With the subject & reference above, I have the honour to inform you that about 52.00 K.M disputed interstate border line of Assam Mizoram falls under Gharmurah Range within Inner Line Reserve Forest (ILRF). About 1000 Ha, land in the Inner Line Reserve Forest has long been occupied by the Mizo people in the name of inter-state boundary disputes and put to non-forest use under Hailakandi division. Since the said areas have been under Mizo aggressions by way of encroachment for a long time, it is pertinent to bring back the area under our control to boost up the conservation efforts. Moreover, it is noticed that there is a consistent endeavors of Mizoram State to occupy more R.F. land of Assam area in addition to aforementioned encroached land. It is a panic disorder to the District Civil, Police and Forest Authorities to prevent the encroachment activities of Mizoram Govt, without deployment of armed forces in a permanent infrastructure within the ILRF. In this regards S.P. Hailakandi was requested to provide special armed force for regular monitoring and needful protection measure in time vide this office letter No. HKD/DFO (T)/Border/Encroschment/1873 dt.18-67-2021(Annexure-I). Most of the border line is located in remote areas without suitable communication facility. The deforestation activity of existing encroachers in and around their encroached land within the reserved forest area is required to be protected. Accordingly S.P. Hailakandi made necessary correspondence with the Director General of Police, Assam, Ulubari, Guwahati-7 regarding establishment a base for special armed forces like Commandos at Gharmurah Range in Inner Line Reserve Forest area under Hailakandi Forest Division vide Memo No. HKD/B/91/2021/324 Dtd. 24-07-2021(Annexure-2).

According to the need of the prevailing hours I have discussed the matter with the S.P. Hailakandi for establishment of 2nd Commandant Battalion Unit in the Inner Line R.F with sufficient strength of armed police to strengthen/ support the performance of interstate border area duty like border protection as well as protection of forests and guard against the scope of encroachment and step taken for ejection of

Contd.P-2

encroachment from the reserve forest area etc. In this regards the S.P. Hailakandi has communicate letter vide Memo No.HKD/II/91/Vol-III/2023/224 Dated Hailakandi, the 26th June, 2023 (copy enclose as Aanexure 3) for allowing the establishment of 2nd Commandant Battalion Unit at Damchera area in ILRF under Gharmurah Range to protect the forest land including its flora and fauna, threat of encroachment or any other disruption by miscreants in addition to numerous incidents of encroachment by Mizoram State in and around the interstate border boundary of Assam Mizoram in Assam area within inner Line Reserved Forests as ancillary activities to Forest Protection and Conservation.

Therefore, your honour is requested to take up the matter with the higher authority in view of strengthening the armed forces for protection duties in the interstate border area in ILRF to prevent further encroachment activities as well as preservation of forest cover. Also activities of natural and artificial re-generation can be enhanced in the deforested area after ejection of encroachers by way of exploring the activities of an Eco-Task force.

In view of the above facts for forest conservation including preservation of forest wealth, an area of 43.99 Hectors land is required for establishment of 2rd Commandant Battalion Unit at Damchera area within Inner Line Reserve Forest, under Gharmurah Range, Hailakandi Forest Division. The most of the proposed area is under encroachment and which will be vacated for the purpose with the help of Civil and Police authorities.

It is to be pointed out that a proposal has already been submitted for departmental operation of 21(Twenty one) nos. trees (Twenty Nos. Teak & One Cham) standing in the proposed area vide this office letter No. HKD/DFO(T)/Thinning /D.O/3629-30 date: 15/07/2023 as per provision laid down in the approved working plan (2022-23 to 2032-33) for Hailakandi Forest Division. (Annexure-4). Two Teak trees have already been uprooted by the recent rainfall and another 19 (Nineteen) nos. tree standing on steep loose tilla soil are also under soil erosion owing to minfall that will fall at any time. Others existing 189 nos. miscellaneous trees standing in the areas are not required for felling because most of proposed construction site for quarter and barrack etc. selected in the encreached agricultural land. (Annexure-5). A Googol earth Map showing the proposed 2nd Commandant Battalion Unit is enclosed herewith (Annexure-6). A site Map with GPS co-ordinates of proposed unit is enclosed as (Annexure-7)

This is for favour of your kind information and taking necessary action for according permission towards establishment of 2nd Commandant Battalion Unit at Damchera area in Inner Line RF under Gharmurah Range, Hailakandi Forest Division to mitigate the concernment illustrated above.

Euclo: As specified.

Yours faithfully

(A. Dutta, AFS)

Divisional Forest Officer Hailakandi Division, Hailakandi

Contd.-3

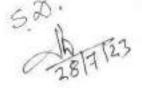
The Deputy Commissioner, Hailakandi for kind information and necessary action.
 The Superintendent of Police, Hailakandi for kind information and necessary action.

Divisional Forest Officer Hailakandi Division, Hailakandi









GOVT. OF ASSAM

OFFICE OF THE CHIEF CONSERVATOR OF FORESTS :: SOUTHERN ASSAM CIRCLE:; SILCHAR-788001 ::

Tel: +91(03842) 796017 (O)

Email :conservator.sac@gmail.com

Letter No. FGS.13/ECD/Assam-Mizoram Border/2018/Pt.

Date: 27/07/2023

From

The Chief Conservator of Forests, Southern Assam Circle, Sitchar.

To

The Addl. Principal Chief Conservator of Forests (T), Lower Assam Zone, Indira Nagar, Basistha, Guwahati-29.

Sub: - Proposal for establishment of 2nd Commando Battalion Unit near Assam-Mizoram Interstate border area of Inner Line Reserve Forest for protection and conservation of forest resources in Reserve Forest land and mitigation of Mizo aggressions in Assam-Mizoram Interstate border area of Assam- reg.

Ref: - 1) Your letter No. FGT.26/Border/Assam-Mizoram/Pt-II, dtd. 27-12-2022.

 This office letter No. FGS.13/ECD/Assam-Mizoram Border/2018/Pt., dtd. 16-12-2022& even no. dated 23-06-2023 & dated 03-06-2022

 The DFO, Hailakandi Division's letter No. HKD/DFO(T)/Border/2nd Commandant Battalion Unit/3745-47, dtd. 20-07-2023.

Sir.

With reference to the subject and letters cited above, I have the honour to forward herewith a copy of the DFO, Hailakandi Division letter under reference No.3 alongwith its enclosures. Wherein he has requested for permission for establishment of 2rd Commando Battalion unit near Assam-Mizoram Interstate border area of Inner Line Reserve Forest at Damcherra area under Gharmurah Range of Hailakandi Division for favour of your kind information and necessary action.

In this regard, I would like to inform you that Mizoram is constantly trying to encroach the Assum forest area for non-forestry activities. Mizoram also has established BOP along with occupied area and giving protection to Mizo encreachers. Establishment of Commando Force at Damcherra area will help our department to protect the forest area from Mizoram supported encroachment. This force can support all three divisions under this circle to protect the boundary of Assam. Raising of Eco Task Force to protect the boundary was discussed with the SP. She informed that presence strong armed force is required to control the advancement of Mizoram into the Assam Territory. The following table shows the details of encroschment of forest area under this circle by Mizoram.

Table: Details of Assam Forest area encroached by Mizoram

S. No.	Name of the	Length of border area (KM)	Area (Ha) of encroachment prior to June/2021	Area of encroachment post June/2021	Total (ha)	
			1,548.70	725.00	2,273.70	
1	Cachar	52.00	1204 200 200 200 200	0.00	377.58	
2	Karimgani	14.50	377.58	0.00		
225	(C)	02.06	1,000.00	0.00	1,000.00	
3.	Hailakandi	92.00		725.00	3,651.28	
	Total	158.50	2,926.28	/25.00	5,054120	

275

The proposed area for establishment of the unit is 43,99ha and no. of trees to felled in the said area is 21 nos.

Hence, I request you to kindly consider the proposal and request the PCCF & HoFF, Assam for according necessary permission towards establishment of 2nd Commando Battalion unit at Damcherra area under Gharmurah Range of Hailakandi Division and also permission for felling of 21 nos. of trees.

Enclo:- As stated above

Yours faithfully

(P. Sivakumar, IFS) Chief Conservator of Forests, Southern Assam Circle,

Silchar

Capy to

- The Principal Chief Conservator of Forests & Head of Forest Force, Assam, Aranya Bhawan, Panjabari, Guwahati-37 for favour of his kind information and necessary action.
- 2. The Divisional Forest Officer, Hailakandi Division for information and necessary action.

Chief Conservator of Forests, Southern Assam Circle, Silchar

OFFICE OF THE ADDL. PRINCIPAL CHIEF CONSERVATOR OF FORESTS (T) LOWER ASAM ZONE BASISTHA: GUWAHATI-29

Email:ceft.laz@ gmail.com Date: 28/07/2023

No.FGT.26/Border/Assam-Mizoram/Pt.II

The Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati-37 **ANNEXURE - XI**

Sub: Assam -Mizoram Inter-State Border - Proposal for establishment of 2nd Commando Battalion Unit inside Inner Line Reserve Forest at Damcherra area under Gharmurah Range, Haliakandi Division - Reg

Ref: CCF SAC proposal Ref No. FGS.13/ECD/Assam-Mizoram Border/2018/Pt. Dated 27th July 2023

Sir,

While enclosing herewith a copy of the proposal received from the Chief Conservator of Forests, Southern Assam Circle, Silchar, the following few points are mentioned for your kind perusal and consideration:

- The proposal was submitted seeking permission for establishment of 2rd Commando Battalion Unit inside Inner Line Reserve Forest at Dameherra area under Gharmurah Range, Haliakandi Division. The Proposal was originated from the Superintendent of Police, Hailakandi District.
- Area of Inner Line RF proposed for establishment of 2nd Commando Battalion Unit is 43.99 Ha
- 3. Number of standing trees enumerated by the DFO is 21 (Twenty-One), as per the list enclosed.
- 4. Law & Order situation in the said area has been a matter of concern and there have been recent incidence of violence due to aggression from Mizoram side. This has also created negative impact on the protection and development of Inner Line Reserve Forest areas. In this backdrop, establishment of the proposed 2rd Commando Battalion Unit inside Inner Line Reserve Forest at Damcherra area under Gharmurah Range, Haliakandi Division assumes significance.
- Ideally, this calls for permission, under the Forest (Conservation) Act 1980, for diversion of forest area for non-forestry purpose since Reserve Forest area is involved, unless Government decides otherwise.

A suitable decision may be taken at your end and the same may be conveyed to this office in due course of time for further action.

Encl: As stated above.

Yours faithfully

(P.J. Vijayakar, IFS)

Addl. Principal Chief Conservator of Forests (T)

Lower Assam Zone, Guwahati-29

Copy to the Chief Conservator of Forests, Southern Assam Circle, Silchar for information.

Addl. Principal Chief Conservator of Forests (T) Lower Assam Zone, Guwahati-29 278



GOVERNMENT OF ASSAM OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS & HEAD OF FOREST FORCE, ASSAM, ARANYA BHAWAN, PANJABARI, GUWAHATI-781037

E mail: hoff-assam@gov.in

No. FG.32/Land Allotment/2023

Date: 03/08/2023

To

The Addl. Principal Chief Conservator of Forests (T) Lower Assam Zone Basistha, Guwahati-29.

Sub:

Regarding Assam-Mizoram Inter-State Border- Proposal for establishment of 2nd Commando Battailion Unit inside Inner Line Reserve Forest at Damcherra area under Gharmurah Range, Hailakandi Division.

Ref:

Your office letter No.FGT.26/Border/Assam-Mizoram/Pt-II dtd.28/07/2023.

In returning herewith the letter under reference, I am to request you to look into the proposal submitted by Superintendent of Police, Hailakandi District for allotment of land for establishment of 2nd Commando Battallion Unit inside Inner Line Reserve Forest at Damcherra area under Gharmurah Range, Hailakandi Division and reconsider the same considering the merit of the requirement.

This is for your information and necessary action.

61C 418/2023

Principal Chief Conservator of Forests & Head of Forest Force, Assam 918





Grant de

OFFICE OF THE ADDL. PRINCIPAL CHIEF CONSERVATOR OF FORESTS (T) LOWER ASSAM ZONE:BASISTHA:GUWAHATI-781029

Email:ccft.laz@gmail.com

Letter No. FGT.26/Border/Assam-Mizoram/Pt.II

Date: 07/08/2023

To,

The Principal Chief Conservator of Forests & Head of Forest Force, Assam, Panjabari, Guwahati-37.

Sub: Assam-Mizoram - Inter State Border- Proposal for establishment of 2nd Commando Battalion Unit inside Inner Line Reserve Forest at Damcherra area under Gharmurah Range, Hailakandi Division- Reg.

Ref:

1) This office letter No. FGT. 26/Border/Assam-Mizoram/Pt.II, dtd. 28th July/2023

2) PCCF & HoFF, Assam's letter No. FG.32/Land allotment/2023, dtd. 03/08/2023.

Sir,

In continuation of this office letter under reference No.1, I have the honour to submit that the proposal for allotment of Land for Establishment of 2nd Commando Battalion Unit Inside Inner line Reserve Forest of Damcherra area under Gharmurah Range, Hailakandi Division may kindly be considered.

Yours faithfully

(P.J. Vijayakar, IFS)

Addi. Principal Chief Conservator of Forests (T), Lower Assam Zone, Guwahati-29.

Copy to the Chief Conservator of Forests, Southern Assam Circle, Silchar for Information.

2771
Regel No. 74

Addl. Principal Chief Conservator of Forests (T), Lower Assam Zone, Guwahati-29.



By e-mail

GOVERNMENT OF ASSAM OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND HEAD OF FOREST FORCE, ASSAM ARANYA BHAWAN, PANJABARI, GUWAHATI-37

E-mail: hoff-assam@gov.in

FG.40/14/Mizoram Border/Pt-II

Date: 28.09.2023

To.

The Additional Principal Chief Conservator of Forests (T) Lower Assam Zone, Basistha, Guwahati-29

Sub: Assam-Mizoram Inter State Border - proposal for establishment of 2nd Commando Battalion Unit inside Inner Line Reserve Forest at Damcherra area under Gharmurah Range, Hailakandi Division-Reg.

Ref: Your office letter No. FGT.26/Border/Assam-Mizoram/Pt.II dated 07.08.2023.

With reference to the above, I am to inform you that As per Section 2 (b) of FC Act, 1980 the non-forest purpose means the following:

"any purpose other than re-afforestation, but does not include any work relating or ancillary to conservation, development and management of forests and wildlife, namely, the establishment of check-posts, fire lines, wireless communications and construction of fencing, bridges and culverts, dams, waterholes, trench marks, boundary marks, pipelines or other like purposes".

Since the purpose of proposal for 43.99 Ha. Forest land for establishment of 2^{nt} Commando Battalion Unit in the Assam-Mizoram interstate border area of Inner Line Reserve Forest is for protection and conservation of Reserved Forest land, it qualifies as an activity relating to conservation of forests mentioned under Section 2 (b) of Forest Conservation Act, 1980. Therefore you are allowed to go ahead with the establishment of the proposed 2nd Commando Battalion Unit in the interest of conservation and protection of forest land.

Principal Chief Conservator of Forests & Head of Forest Force, Assam

Copy for information and necessary action to:

The Chief Conservator of Forests, Southern Assam Circle, Silchar.

The Divisional Forest Officer, Hailakandi Division, Hailakandi.

814

Principal Chief Conservator of Forests & Head of Forest Force, Assam

ANNEXURE - XV

285





BY E-MAIL

COVT. OF ASSAM

OFFICE OF THE CHIEF CONSERVATOR OF FORESTS : SOUTHERN ASSAM CIRCLE: SILCHAR-788001:

Tel: +91 (03842)796017 (O)

Email:conservator.sac@gmail.com

Letter No. FGS.13/ECD/Assam-Mizoram Border/2018/Pt.

Date: 05 /10/2023

From.

The Chief Conservator of Forests, Southern Assam Circle, Silchar.

To

The Divisional Forest Officer, Hailakandi Division, Hailakandi.

- Sub: Assam-Mizoram Inter-state Border-Proposal for establishment of 2nd Commando Battalion unit inside inner line Reserve Forest at Damcherra area under Gharmurah Range, Hailakandi Division-Reg.
- Ref: 1. The PCCF & HoFF, Assam's letter No. PG.40/14/Mizorum Border/Pt-II, dtd. 28-09-2023.
 - This office letter No. FGS.13/ECD/Assam-Mizoram Border/2018/Pt., dtd. 27-07-2023.
 - Your letter No. HKD/DFO(T)/Border/2nd Commando Battalion Unit/3745-47, dtd. 20-07-2023.

With reference to the letters cited above, I am to inform that the PCCF & HoFF, Assam has allowed the establishment of the 2nd Commando Battalion Unit inside inner line Reserve Forest at Damcherra area under Gharmurah Range of your division in the interest of conservation and protection of forest land.

Therefore, you are requested to take necessary action strictly following the Forest Conservation Act. 1980 and related guidelines.

(P. Sivakumar, IPS)

Chief Conservator of Forests, Southern Assam Circle, Silchard

ANNEXURE - XVI

287-9

Memo no: GM/31/BORDER/2023/236

Dtd: 26/10/2023

To

The Divisional Forest Officer Hallakandi Division Hailakandi

Sub: Progress report 2nd Commando Batta/ion unit at Damichera inside ILRF Ref: Your letter No: HKD/DFO(T)/ASSAM-MIZORAM BORDER/6561 dtd: 28-09-2023 HKD/DFO(T)/ASSAM-MIZORAM BORDER/6731 dtd:05-10-2023

Sir,

With reference to the subject cited above, I have the honour to inform you that after receiving due clearances from respected PCCF & HoFF, Assam, vide letter no FG.40/14/Mizoram Border/Pt —II dtd:28-09-2023, the construction work for the establishment of 2rd Commando Battallon unit at Damchera inside Inner Line Reserve Forest under Gharmura Range, Hallakandi Division, has begun at the designated site measuring 43.99ha which has been degraded due to encroachment and paddy cultivation.

This is for favour of your kind information and necessary action.

Yours faithfully

Range Forest Officer Gharmura Range Office Gharmura

Range Forest Officer Gharmura Range Gharmura ~ 170

ANNEXURF₃₇₃XVII



9 30/10/23

1.00g

GOVT OF ASSAM
OFFICE OF THE DIVISIONAL FOREST OFFICER::HAILAKANDI DIVISION
HAILAKANDI

No. HKD/DFO(T)/2nd C. Bn./7028-29

E-mail: hailakandiforests1992@gmail.com Date: 27/10/2023.

To

The Chief Conservator of Forests Southern Assam Circle, Silchar

Sub:- Assam-Mizoram Interstate border Proposal for establishment of 2nd Commandant Battation Unit inside Inner Line Reserve Forest at Damcherra area under Gharmurah Range, Hailakandi Forest Division and execution thereof.

Ref:- (i) PCCF&HoFF, Assam's letter No. FG.40/14/Mizoram Border/ Pt-II Dtd. 28-09-2023.

(ii) Your letter No. FGS.13/ECD/Assam-Mizoram Border/2018/Pt Dtd. 05-10-2023.

(iii) This office letter No. HKD/DFO(T)/Border/2nd Commando Battalion Unit/3745-47 Dtd. 20-07-2023.

Sir,

Secure Comes

With reference to the above, I have the honour to state that the Range Forest Officer, Ghamurah Range has informed vide his Memo No. GM/31/BORDER/2023/236 Dtd. 26-10-2023, that after allowing for establishment of the 2nd Commando Battalion unit inside Inner Line Reserve Forest (ILRF) from the respected PCCF&HoFF, Assam under above reference, the concerned Police Department has started execution of the said 2nd Commando Battalion unit inside Inner Line Reserve Forest (ILRF) at Damcherra area under Gharmurah Range, Hailakandi Forest Division in the interest of conservation and Protection of forest land including maintenance of Status-quo in the disputed border boundary of Assam-Mizoram under Hailakandi District.

It may be stated that most of proposed construction site for quarter and barrack etc. selected in the encroached agricultural land which involves 43.99Ha. land in Inner Line Reserve Forest (ILRF) of Gharmurah Range, Hailakandi Forest Division.

Again, the Superintendent of Police, Hailakandi had communicated earlier a letter vide memo no. HKD/B/91/Vol-III/2023/224 Dtd. 26-06-2023 stating that the said commando Battalion unit will be helpful in protection of forest land including its flora & Fauna, threat of encroachment or any other disruption by miscreants in addition to numerous incidents of encroachment by the Mizoram state in and around the interstate border boundary of Assam-Mizoram in Assam's areas within Inner Line Reserve Forest (ILRF) as ancillary activities to forest protection and conservation. Also activities of natural and arturinal progeneration can be enhanced in the areas after ejection of encroachers in the nearby areas by way of exploring the activities of an Eco-Task force.

Contd.P-2

Page-2

Further, the establishment of the said 2nd Commando Battalion unit inside Inner Line Reserve Forest (ILRF) will not violate the Forest Conservation Act' 1980 and its related guidelines since the unit will vehemently be helpful in conservation and protection of forest land within the provision of Section 2(b) of Forest Conservation Act' 1980.

This is for favour of your kind information and necessary action. Enclo: As specified.

Yours faithfully

(A. Dutta, AFS)
Divisional Forest Officer
Hailakandi Division, Hailakandi

Copy to the Principal Chief Conservator of Forests & Head of Forest Force, Assam, Aranya Bhawan, Panjabari, Guwahti-37 for favour of his kind information. This also refers to his letter No. FG.40/14/Mizoram Border/Pt-II Dtd. 28-09-2023.

Divisional Forest Officer Hailakandi Division, Hailakandi

GOVERNMENT OF ASSAM OFFICE OF THE DIVISIONAL FOREST OFFICER: HAILAKANDI DIVISION:: HAILAKANDI

Email: hailakandiforests 1992@gmail.com

No. HKD/DFO(T)//Border/2nd Commando Battalion Unit/1232

Date: 06/03/2024

To

The Deputy Inspector General of Forest (C) MoEFCC Regional Office, Shillong.

Sub: Submission of point-wise report

Ref: F. No. 22-11/2000/RONE/2022/5284-85 Dated: 1-03-2024

Sir,

With reference to the subject cited above, I have the honour to submit the point wise response in connection with the letter no. mentioned in the reference which are as below:

- 1) The purpose-wise break-up of the 44 ha land with layout map: Annexure 1
- 2) The detailed project report (DPR) of the construction of the Commando Battalion: Annexure 2
- 3) The original or colour scan Sol Map along with GPS coordinates with proper legend: Annexure 3
- 4) The soft copy of the Kml/shape file: Annexure 4
- The copy of notification letter of the Reserve Forest land or which the Batalion is being Established: Annexure 5
- The order copy of the State Govt, for establishment of Commando Battalion at Hallakandi: Annexure 6
- 7) The order copy of
 - I) No diversion of the area alloted for construction of second commando battalion was proposed as the work is relating or ancillary to conservation, development and management of forest and wildlife which is in adherence to section 2(b) of FC Act 1980. A copy of a letter issued by The PCCF & HoFF, Assam allowing the permission of establishment of the 2rd Commando Battalion at Damchera vide letter no FG.40/14/Mizoram Border/Pt-II dated:28-09-2023 is annexed herewith: Annexure 7
 - Question of handing over of forest land does not arise as the reserved forest land in question remains under the disposal of the forest department.
- 8) The order copy of State Govt. assigning duties to the Commando Battalion: Annexure 8
- The rank-wise break-up of the officers and men to be stationed in the Battalion: Annexure 9
 This is for favour of your kind information and necessary action.

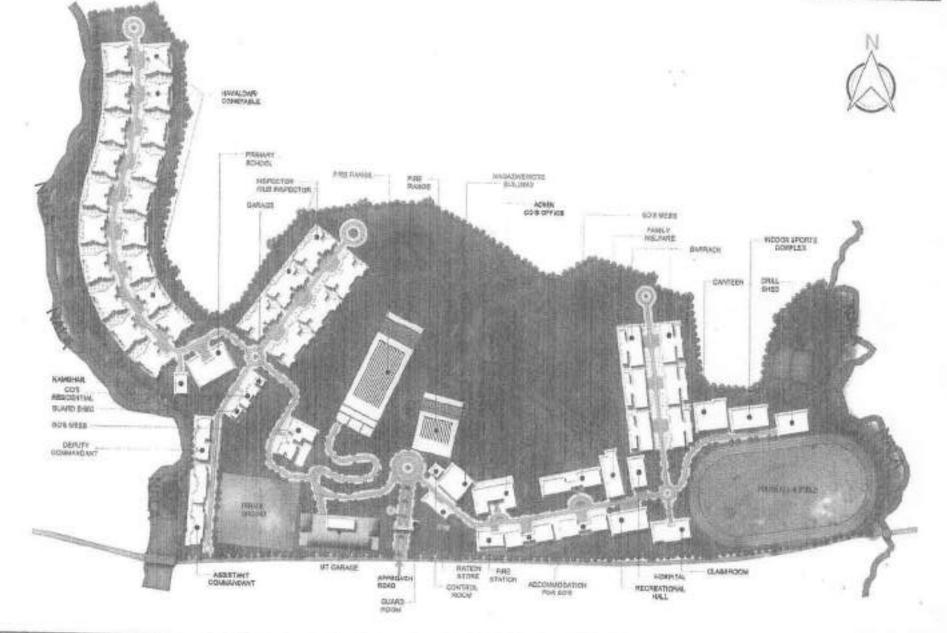
Enclo. :- As Specified

Yours faithfully

(A. Du'ttà, AFS)
Divisional Forest Officer
Hailakandi Division, Hailakandi



95



PROJECT.
ESTABLISHMENT OF NEW ARRANGED, DE COMMINDIO
BATTOLISM OF BRITISH (BATCHER (W.). HALMAND)
ASSAMI

SCHOOL POLICE HOUSING CORPORATION CO.

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EPC CONTRACTOR-STATES INCIDE, SULLAND AC DULANK DIST, INVOCABLE MARK, TRISEZ

1

ASSAM POLICE HOUSING CORPORATION LTD REHABARI, GUWAHATI-8.

NAME OF WORK: -

Establishment of New Assam Police Battalions at Hailakandi District of Assam

Chief Engineer, Assam Police Housing Corporation Ltd, Rehabari, Guwahati-8.

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INDIAN POLICE SYSTEM

BACKGROUND TO THE POLICE SERVICES IN INDIA

History of Indian police on modern lines dates to the dawn of the 19th century. The idea of a separate regular police force as it exists today was never in consideration before the British period and for a considerable time even after the commencement of the rule. It was only in 1774 that Warren Hastings introduced for the first time under the Company's rule several measures for police reforms, which later culminated in the Police Act of 1861. To tackle this crime-ridden and difficult area, reorganized the native police system so that it could function properly and produce desired results.

This system was based on two principles:

- The police must be completely separated from the military.
- They must act as an independent body.
- Assisting the Collectors in the discharge of law-and-order responsibilities.

The system provided for an Inspector General of Police who was responsible for the law and order of the entire province. Provinces were divided into districts that were controlled by Superintendents of Police who headed the police administration under the control of the Magistrates. The main principles were not altered even by the Police Commission of 1860, which is responsible for the current police system in India. Recommendations of the Police Commission of 1902-03 further improved the system to some extent.

In 1917, Islington Commission Report referred to it as the Indian Police Service for the first time. After independence Sardar Vallabhbhai Patel, the first Union Home Minister saw the importance of organizing the Civil Services on an all-India basis. In 1949, in the Constituent Assembly, he emphasized the importance of having a ring of services to help the country remain intact under a federal constitution, saying "...the Union will go, you will not have a united India if you do not have a good All India Service, which has the independence to speak out its mind". And thus, the Indian Police Service was born as an All-India Service,

POLICE SYSTEM DURING ANCIENT INDIA

Origin of police can be traced to the early Vedic period as the Rig and the Atharva Veda mentions certain kinds of crimes known to the Vedic people. In fact, evidence indicates the existence of security forces even in the Harappan period. Though the exact reference of the criminal justice organization during the Vedic period is not available, the Mauryan period exhibits important features of the same. Kautilyu's Arthushastra (310 BC) is a treatise on the criminal justice system. It reads like a manual for police in modern times. There is a reference to DANYARIKA, ANTEVANSIKA, PRADESIKAS, MAHAMATRAS, RAJJUKAS, and so on. There were 3 types of police—Dandpal, Durgapal, and Antpal.

Magasthenese, the GREEK Ambassador, and Fa Hein, the Chinese traveller have written detailed accounts of the Gupta administration. Dandikas were the highest officers then. Others like Nagar Shreshthi, Rabasika, also find mention. The criminal justice system developed during this period continued for five to six handred years. The only difference between the two periods being that the Mauryan system was centralized whereas the Gupta system was decentralized. But the basic structure of the police system of village police, eity police, and palace police was the same, suitably altered by various kings.

POLICE SYSTEM DURING MEDIEVAL INDIA

There is no mention of police organizations found anywhere. It may be so because more focus was on conquests and military occupation without any serious attempt to consolidate or run civil administration. The Muslim conquerors did try to implant the police system in line with one prevailing in their homeland trying to fit it with the Indian social setting. The system of administering justice, panishment, and policing was, however, Islamic and was based on the Holy Quran. During the Sultamute period, the Hindu population was subjected to a different law and the Pandits were associated to interpret the Hindu law and to give their opinion on it, Muhtasibs, Muqaddams, were ranks of officials in charge of administration.

Punishments were very harsh, following the Islamic law, such as flaying alive, cutting of nose, ears, or foreams, trampling by elephants, and mutilation. All this must have led to the generation of deep-rooted harred for the police functionaries.

During this period, the center of power and political activity was the Sultan. Faujdar being the head of the criminal justice delivery system at the provincial level entrasted to maintain its peace and security. Kotwal was magistrate, head of the police, and municipal officer, all rolled into one. Chankidar was responsible for the village administration. The government under the Maghals was autocratic and military in nature. Justice delivery system and police organizations both were weak during this period.

POLICE SYSTEM IN MODERN INDIA

BRITISH INDIA PHASE

After the British victory in 1757 at Plassey and the decline of the Mughal Empire, whatever police system was then in vogue became further corrupted in the area.

In 1862, the Indian Penal Code and the Criminal Procedure Code came into force. The Evidence Act was enforced in 1872 and thus the Qazis, the Muftis, the Pandits along with the Islamic law and the Hindu law got replaced. Though changes were made in the administrative functioning by the Britishers yet the Mughal framework for policing was retained. Ranks such as Kotwals. Thanedar, Pargana, Darogah, continued. However, changes slowly came in the Perso-Arabic model and the British way of policing was adopted.

PRE-INDEPENDENCE ERA.

By the early 19th century, the Mughal empire started disintegrating and till the middle of the 19th century, there was no satisfactory police system primarily because of British inexperience and lack of knowledge about the country. Zamindars retained policing till 1792 when Comwallis was sent to India as Governor-General. He abolished the zamindari system and made Thanedars responsible for the maintenance of law and order. Some other reforms were also introduced. Later, a model of policing developed by Napier culminated into the Indian Police Act of 1861, on which the current police system is also based.

INDIAN POLICE ACT OF 1860

After the revolt of 1857, the British scalized the threat of losing power and were determined to ensure complete suzerainty and suppression of all challenges to their power. Thus, a Poäce Commission was appointed in 1860, to make police an efficient instrument for the prevention and detection of crime.

However, the system so designed was sharply opposite to that of the Britishers, celebrated in the whole world as a symbol of democratic policing. The primary objective was to meet the exigencies of trade and company profit and to ensure that the trade route was safe, exploitation of resources continued unhindered. This system was based on the structure developed by the Mughals in the 17th century incorporating many features and names of officials like Daroga, Faujdar, and Kotwal. The Act imposed in the whole country a uniform police system. It relieved the District Magistrate of his duty to keep a check over the local police and made it more professional, organized, and disciplined in nature. The system of policing instituted by the Act is still in force and brought uniformity in administration. However, the general conditions of crime control remained unsatisfactory probably due to poverty, famine, and other adverse conditions like shortage of force. The second All India Police Commission was formed in 1902 to conduct a comprehensive inquiry and recommend improvement in various aspects of the organization. But nothing concrete was done according to the recommendations to improve the forces till independence.

After 1920, the imperial forces were open for the Indians through entrance examinations. Indianisation of the services remained slow despite pronouncements and recommendations. Due to the unavailability of Europeans, more Indians started getting appointed to the services later. After independence, India adopted the 1861 system unaltered in any basic respect.

THE CURRENT STRUCTURE OF THE POLICE SYSTEM IN INDIA.

After 1860 recruitment of senior police officers was done in two ways- first, by the appointment of officers from the British Army, and second, by nomination from amongst younger sons of landed gentry in the UK. Both ways were abolished in 1893, Recruitment of officers now was done through a combined competitive exam held in London which only Europeans could take. Later it was opened for Indians too, Today recruitment made through Combined Civil Services Examination is conducted annually by the Union Public Services, Commission. Article 312 of the Constitution of India mentions about the All-India Services, Probationers recruited undergo very tough basic training in physical academics, arms, and other activities.

According to the Constitution, the police force is a state subject. States draw rules, regulations and guidelines for the police in the state police manual. The organization structure of police forces in India is uniform in all the states throughout the country. The head of the police force in a state is called the Director-General of Police (DGP). A state is further divided into several zones, ranges, and districts. The district force is headed by an officer of the rank of Superintendent of Police (SP). Group of districts forms a range which is headed by an officer of the rank Deputy Inspector General of Police (DIG). Zones are composed of two or more ranges headed by an officer of the rank Inspector General of Police (IG). Districts are further subdivided into sub-divisions like circles and police stations which are headed by officers of different ranks. The district police are also divided into two branches—the civil police and the armed police, where the former primarily controls crime, and the latter deals with law-and-order situations and is also the reserved police of the district kept meetingan emergency.

INFLUENCE OF PAST POLICE SYSTEM ON THE PRESENT

The Indian Police system and structure as presently organized are essentially based on an Act 131 years old, the Police Act of 1861. The working of the police has been analysed twice at an All-India level within a period of 90 years. First was the Indian Commission of 1902-03 during the British regime and second was in 1977 by the National Police Commission. They found police far from efficient, defective in training and organization, lacking in public relations, welfare measures, machinery for redressal of grievances, etc. and that it was generally regarded as corrupt and oppressive. Even after independence, we were devoid of a better police administration system. There is still a requirement for a reorientation of attitude and approach on the part of the police.

ASSAM POLICE

Assam Police comes under direct control of Department of Home Affairs, Government of Assam. The Assam Police is headed by a Director General of Police (DGP). The current DGP of the Assam Police is Bhaskar Jyoti Mahanta, IPS

Assum police forces are organized into police ranges, headed by an inspector general deputy impector general, who controls several police districts.

The police district is the folcrum of state police activity, and each district is headed by a superintendent. In many states a superintendent is assisted by one or more additional superintendents or deputy superintendents. Generally, a police district is same as a revenue district of a state.

The police district is divided into police sub-divisions under the command of a deputy superintendent of subdivision police officer.

The police sub-division is made up of one or more police circles, and is under the command of an inspector, often referred to as the circle inspector.

Under the police circles are the police stations, generally under the control of a sub-inspector.

Assum state police force also maintains its own Reserve Armed police force (special armed police and armed police) which is responsible for emergencies and crowd control issues.

HISTORY OF ASSAM POLICE

POLICING IN ASSAM DURING AROM RULE

Before the advent of the British, there did not seem to be any organised police force in Assam, either under the Ahom Kings or earlier. The army as well as the various officers of the kingdom were responsible for the maintenance of peace and safeguarding the lives and properties of the people. Towards the end of the Ahom rule, during the reign of Kamaleswar Singha (1795-1811), an armed force on the British model was raised to serve the dual functions of maintenance of law and order and border defence. It was, however, not a regular and fully organised police force.

ASS AM POLICE DURING BRITISH RULE

On taking over the administration of Assam, after the Yandabu treaty of 1826, the British also did not immediately introduce any revolutionary changes and the army was employed in the task of maintaining law and order. Army outposts were also set up at different places for this purpose, however, the high expenditure in maintaining a large body of troops reduced the number of troops to just four regiments by 1839-40. Steps were taken to increase the armed component of the Civil Police in the province. The necessity of raising a separate force under the civil government apart from the armed civil Police was also felt and the first unit of this new organisation was formed.

This was the 'Cachar Levy', formed in 1835 by the Civil Service Officer, in-charge of Nowgong district, Mr. Grange, to guard new settlements and tea estates. It consisted of 750 officers and men of different ranks, viz., Inspectors, Head Constables and Constables. Three years later, a similar body, called Jorhat Milirin', was formed to protect the border areas against frequent border transgressions. It was also known as the 'Shan militia', as the recruits were mostly from the Shan community. Eventually it was merged with the 'Cachar Levy', which was subsequently renamed as 'Frontier Police' in 1883 and then as 'Assam Military Police' in 1891 and then again as 'Assam Rifles' in 1920,

After 1862, the British deployed regular troops in several parts of Assam to consolidate its occupation and a police establishment consisting of one Darogah, one Jamadhar and several constables was maintained at each district headquarters. The duties included guarding of the Eastern Frontier of Assam from the Brahmaputra River to Cachar. The Levy was a force of a semi-military nature. The men were poorly paid, and the duties were arduous and often involving fighting. It is important to note that at the initial stage most of the recruits were from Bengal, as the local Assamese were not interested in joining the low-paid police service. The Government found that the Police force inducted from outside was not only inefficient but also oppressive, and therefore, decided to attract local Assamese youth to improve the character and efficiency of the police force. In October 1843, the Government approach the salary of the Darogah from Rs. 25 to Rs. 100 and there was a corresponding hike of the salary of other police personnel. This development saw the gradual induction of Assamese youth into the police force.

ASS AM POLICE IN INDEPENDENT INDIA

The year 1947 saw the transfer of power from British to Indian hands. The preliminaries to Constitutional changes as well as the aftermath threw an imprecedemed strain on the Poüce Force. Two important changes affected the Assam Police. The first was the transfer of the Sylhet district to Pakistan and second was the complete separation of the administration of the Assam Rifles from the Police. The retirement of many service officers mainly British, the release of personnel opting for Pakistan and the absorption of those serving in Sylhet who opted for India were some other major factors which caused a temporary setback in the strength and resilience of the Police force immediately after Independence.

Several problems connected with the partition of the country kept the Police busy during 1949 and there was hardly any time for them to attend to proper training in professional skills and discipline and the control of crime. The force proved isadequate for the various complex problems facing it. Large gaps in the cadre of superior officers led to rapid promotions of inexperienced or old officers. Demands on the armed reserve of the state by other departments and the requirements of security on the Pokistan border brought to the fone front the utter inadequacy of the armed police strength, Moreover, the appearance of the cult of violence propagated by certain elements made the situation menacing. It is gratifying to note, however, that despite all these short comings and difficulties, the Assam Police, by and large, managed to tide over this difficult traditional period without much of its reputation impaired.

The anti-terrorist operation carried out in 1950-51 with the help of the Army and the Assam Rifles brought to the surface both the weaknesses and the strengths of the Police organisation and indicated clearly what further measures should imperatively be taken to remove the deficiencies. To make the Police suited to the changed circumstances the Government set up a Police Reorganisation Committee in 1952 but due to financial stringency most of the recommendations of the Committee could not be implemented. Some urgent items were, however, pushed through and these included establishment of more Police Stations and Outposts, increase in the armed and unarmed police and construction of buildings. The Wireless and Fire Service Organisations were also reorganised during this period. The posts of Dy.IG, Range DIG, Armed Forces and Training andDy.IG Administration were created. The disturbed conditions in the Naga Hills arising out of the activities of the followers of A. Z. Phizo claiming independence for the Nagas posed a new problem to the Assam Police in 1956 and in the following years. The Police force in the Naga Hills had to be reinforced and many platoons of the A. P. Battalions were drafted to cope with the situation. It is a matter of pride that the Assam Police gave a good account of themselves and proved equal to the task

and as good as any armed force deployed in the area. When the Naga Hills district was separated from Assam in 1958, the Assam Police was withdrawn in stages, but they continued to man the outposts on the Naga Hills bonder.

The strength of police force in Assam at the time of independence was around 8,000. From 3,352 officers and men in 1874 when Assam was separated from Bengal and placed under the administration of a Chief Commissioner to the strength of 8,000 at the time of independence is not a spectacular development. But the British left behind a disciplined force with a set of rules and regulations which provided the foundation of the present police administration in the state. After independence, the police administration in Assam has grown from strength to strength. In 1980 it had a force of 40,290 and at the end of the 20th century its numerical strength was 61,263. There have been significant changes in the police administration at both the horizontal and vertical levels. Several new branches have been created in the post-independence era to cater to the needs of the state. Some of these newly created branches are:

Bureau of Investigation (Economic Offences)

Special Branch

Crimical Investigation Depti

- Assam Police Border Organisation
- Assam Police Radio Organisation
- Assam River Police Organisation
- State Fire Service Organisation
- All Women Police Station
- Establishment of Forensic Science Laboratory

Assum Police is adjusting itself to the changing circumstances and is working towards the ideal of a Police Force of a Welfare State whose efforts and service will be to serve the interest of the people and unlike the past, is no longer an oppressive arm of an alien administration. During the past decades, the Assum Police has developed proud and healthy traditions of service and conduct and though it had its failure and shortcomings, it has been able to play its part with credit and distinction and its record and performance have been as good and as worthy as that of any other police force in India.

BRANCHES OF ASSAM POLICE

- Assam Police Radio Organisation (APRO)
- The Bureau of Investigation (EO)
- Battalions
- Border
- Police Commissionerate
- Special Task Force
- Criminal Investigation Department
- Railway Police
- Village Defence Organization
- Special Branch
- Assam Police Housing Corporation Ltd.
- CM's Special Vigilance Cell
- River Police
- Commando
- Training Institutes
- Mounted Police

BATTALIONS

- Assum Police Battalion (APB)
- Assam Police Task Force
- IRBN
- Commando

Scope of Work for the Consultants

OBJECTIVE OF THE PROJECT:

The objective of this Assignment is to provide Project management consultancy services through preparation of -

DPR, Master Plan & Architectural Drawings, undertaking Bid Process Management for selection of contractors and vetting of construction drawings for Establishment of New Assam Police Battalions at Pubboi in Biswanath Chariali, Ambikapur in Sadia, Geleky Kanualabari in Siyasagar, Birsima in Hailakandi & Doldoli in Karbi Anglong District of Assam.

INTRODUCTION

This Request for Proposal (RFP) aims to appoint a reputed firm as a Project Management Consultant (hereinafter referred to as PMC) who will undertake the Design, Development, BidProcess Management and vetting of Construction drawings for Establishment of New Assum Police Battalions at Pabboi in Pabhoi in BiswarathChariali, Ambikapur in Sadia, Geleky Kamalabari in Sivasagar, Birsima in Hailakandi&Doldoli in KarbiAnglong District of Assum

THE STRATEGIC MANDATE OF THE PMC IS AS FOLLOWS:

- Conceptualization of the project and preparation of Detailed Project Report.
- Preparation of the Master Plan, architectural drawings and implementation model of the project.
- Estimating the detailed cost of the project.
- Assisting APHC in the procurement of suitable contract or sin line with CVC guidelines.
- Issued for the purpose.
- Vetting of Construction Drawings.

DISTRICT PROFILE, HAILAKANDI

Hailakandi district in the southmost part of Assam. It is located between longitude 92025 to 92.460 East and latitude 2408 to 24.530 North, it has an average clavation of 21 meters (68 feet). The total Geographical arear aof the district is 1327 sq.km of which rural area is 13167.47 sq.km and Urban area 10.53 sq.km, the district is situated in the middle of Barak Valley and bounded by Cachar district in the north and east, Mizoram state in the south and Karimaganj district in the west. The district consits of both plain and hilly areas. It was a civil subdivision on 1st June 1869. Subsequently, it was upgraded to district in 1989. Hailakandi comprises of three notified towns viz. Hailakandi(district beadquaters), Lala and Algapur and one industrial township viz. Panchgram. A Manucipal Board governs Hailakandi town & a town Committee governs Lala. It has five development blocks viz. Algapur, Hailakandi, Lala, Katlicherra& South Hailakandi block. The district is having 62 Gaon Panchyuts, 331 revenue villages, one municipality board and two town committees. There is also a small township at 'Hindustan Paper Mill' area at Panchgram in 'Algapur block' area.

The connectivity of the district is comprised of road NH-53 and NH-154 and railway (Meter Gauge). Only 22 % of the PWD roads are surfaced, having 78% of un-surfaced roads in the district which indicate that access and availability of good road connectivity in the district is exceptionally low. Neurest nirport is Kumbhigram airport which is located 83 Km from the district bendquarter.

Climate

The climate of the district is characterized by hot and humid. The sammer starts from March and continue till October. Winter generally starts at the end of November and continues up to February.

Rainfall.

The average annual rainfall of the district is 2441.94 mm with 123 average rainy days on the basis of last ten years record (1999-2008). High rainfall generally concentrates during the month of May to September though floods were also experienced during March to April due to the occurance of heavy rainfall in Mizoram draining in Dhaleshwari river which flows through the middle of the district resulting floods in the Hailakandi district. Winter months December to January remains generally dry without or with scanty rainfall.



APPROACH AND PLANNING

The design development for the assum police battalion, Hailakandiis divided into several zones as public functions, semi- public and private zones.



The design concept also incorporates the hierarchy of the police battalion.



LAYOUT AND PLANNING

The design development for the assum police buttalion, Hailakandiis divided into several zones as public functions, semi-public and private zones. The design concept also incorporates the hierarchy of the police buttalion as per there functions and requirements.

The first public zone incorporates administrative block for the CO's office alongside with the magazine/Kete Building with explosive depot, Ration and clothing store and control room.

MT garage and fire station are situated at the entrance of the site for easy access.

The second private zone starts with Family line of housing and residences followed by their hierarchy.

- 1. Co's Residence
- 2. Deputy commandant Residence
- 3. Assistant Deputy Commandant Residence
- 4. Inspector & sub-inspector Quarter
- 5. Havildar & Constables Quarter
- 6. Follower's Quarter
- Other facilities like close to the residences are Go's Mess, Naamghar etc.

The semi-private zone contains common facilities of the site like Primary school, Hospital, Classrooms, Canteen, Indoor sports complex, accommodation for So's and So's mess etc which are placed at the central location and can be approached by Housing/ residences as well as barracks.

A separate road leads to the Parade ground, obstacle park and shooting range etc. in order to segregated and in nearby proximity from the barracks.

Project Scope:

The complete master plan design for 800 battalion strength which includes Non-Residential, Residential & common facilities as listed given below-

Out of the above In Phase-I 50% of the capacity is considered for Residentials Havaklar/ASI/Constable, Inspector/Sub Inspector, Accommodation for SO'S & Barrack. Common infrastructure structure facilities in Phase-I also includes the following-

- 02 Nos Parade Ground (200x115m & 90x100m approx.)
- Short (25 m) & Long (100 m) Shooting Range
- · Children's Park & Playground Field as per master plan

EPC Contractor Scope-EPC Contractor has to visit the site & analyse the above phase-1 scope as per site conditions & execute the work on Lumpsum price on EPC mode. EPC contractor has to carried out detail design engineering for the MEP & other allied infrastructures facilities and construct & commissioned the same along with the buildings. For Detail project requirements & design parameters etc. please refer DBR enclosed as Annexure.

Sr	Activity Description	Duration of Activity (Months)																								
No		Time	M1	M2	МЗ	M 4	M5	M6	M7	M8	M9.	M10	M11	M 12	M13	M14	M15	M 16	M17	M18	M 19	M20	M21	M 22	M 23	M24
1	Mobilization	3																								
2	Design Engineering Works	2		П							,						*									
3	Building Sub Str. Const. Works	6										7				3		4							-	
4	Super Str. Const. Works	12																								
5	Masonry Works	12																								
6	Pastering Works	10																								
7	Door Window Joinery Works	12																								
8	Rooring & Dado	9																			П					
9	PHEWorks	9																П								
10	Finishing Works	6																								
11	Bectro Mechanical Works	12																								
12	Boundary Wall	12																								
13	Road & Site Development	15																								
14	other infrastructure works	9			6 7																					
15	Commissioning & Handing Over		-											-												

.40	TOTAL PLOT AREA			100						
70			165123.37	5001			1			
	NAME OF DUILDINGS	MOOR	CHOURD FLOOR	FIRST FLOOR	SHOOMS	THIRD FLOOR	FORTH FLOOR	BUILT OF AREA PER BLOCK	GRUTAL BRILT-GP AREA	TOTAL GROUND COVERAGE
	ORNETIATIVE BUILDING & OTHERS		-	_						
	O Z GRUDCK BERT DRAS	1	540.59	841,50				1,439.00	1,083.04	541.50
	LT. GERKOGE WITH OFFICE	1	62,769					471.00	070.98	970.00
	ATION STORE & CLOTHING STORE	1	304.09	_		_	-	386.00	300.04	100.00
	KZ: MASAZANE, NOTE OLILIZANG NYTH	4.1	888.00	3				356.00	150.04	150,00
	ENTRY POSY & BOUNDAIR WALL.		523.64	325.00	_	-	_	658.00	650.94	125.00
	DS NOS	1	425.84	485.00	_	_	-	#26.00	670.04	435.00
	DEMORITY CONTRA WITH CANTEEN.		172.70.07	- 300.00			_	-		-
	SLOOM & LAURIDARFIBLOCK	1	200,09					986.00	000004	96000
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	STEROMER BY WITH LEMBOR BARRIES		175.66					175.00	175.00	175.00
-	AATGI TUVENS	30	63.2					00.2	50.04	50.00
	BLE STATION WITH DARRACH.	1	175.69	175.00				358.00	350.00	175.00
	ITM .	1	15.80					15.00	1500	15.00
	DRIBUL ROOM	1	19.66	0.00			(C)	\$8.00	50.00	\$8.00
	ASSECTIVE CONTRACTOR AND STOCK OF THE STOCK	1	359.69	259.00				796.00	700,04	350,00
-	MICON SPORTS COMPLEX with CYM	1	400.00	100.00				336.00	800.00	400.00
	SINLEY SCHOOL		564.00				- 7	584.00	560.08	560.00
	ADMICT WIELFARE COMORS	1	509.10					514.00	-500.04	\$60.00
. 2	SATSHAA!	T.	101.00	1	100		9	316.00	200.01	100.00
- 10	EXTENTION HALL	1	100.00	3 22				406.00	400.44	100.00
1000	G DESMITAL / QUARTERS			S	_	_	- 3	00000	22565,41	
T	OS RELIDORESA, BLAUDING WITH A SCAN	4	125.69	125.00				258.00	25100	125.00
1	BRUTS CORMARCANT'S SEADERTIAL ERLURIG - 40RITS -3 BLOCK	1	100 to 0	390.00				726.00	723.00	lea:m
	VISTE COMPANIANTS RESIDENTIAL FALLING - HORITS - 20LOUS	2	2010	308.00	- 8		- 3	416.00	1,200.00	500.00
П	METECTOR'S RESIDENCE - NO LIMITES.	\$8600-6-1 (400803) \$1860X-6-1 (50809)	3,123.04	2,716.00				turn.co	1,000.44	1,178.00
	NAMESANCE, AND CONNECT AREAS MONTHING CO.	23 BLOCK-G-1 (104 INTEG) & 1 BLOCK-G-1 (0.400000)	8,928.00	6,741.00	-0			17,676,00	12,670.00	8,928.00
1	DLLOWING UTS. ON UNITS	(III () 1 () ()	559.00	339.00			2 30	648.00	640.00	320.00
	CONCENTION FOR SOST HOUSE TO	X	1009.09	300.00				098.00	1,200.00	960.00
- 1	ARKACK ADDOMEDRATION)-504 NOS.	0	504.00	304,00	100		- 57	1,000.00	0,066.00	4,032.00
	SOOMS	. 2	40.00	-	7.			46.00	80.00	60.00
. 8	BYTRY PORT	2	4.00	5. 20				4.00	0.00	BLOD
	ENTRY PORT	1	15.00					16.00	10.00	16.00
	SURBRIED	1	74.00					74.00	74.00	74.00
20	TOTAL	1	389.00		-		1 3	286.00	45,405.00	25,469,50

PROPOSED CONSTRUCTION OF POLICE CAMMANDO BATTALION AT HAILAKANDI, ASSAM
PROJECT GRAND SUMMARY

3		3	PHASE-LOEVE	LOPMENT
S. No.	DESCRIPTION	FLOORS	Area (In Sqm)	Preposed Cost (In Rs.)
Α.	BUILDING WORR			
	ADMINISTRUCTIVE BUILDING & OTHERS		2 1	
1	COSOFFEERILDING	G:1	1,083.00	31331,764.5
1	MY GARRAGEA 000100:	E	970.60	246,89,473,6
- 3	RATION STORE & CLOTHING STORE	G-1	300.80	84,87,141.2
- 4	MAGAZINE/KOTE BUILDING WIGHEXPLONIVE DEPOT	- F:	350.40	101,03,998,1
5	DO'S M0SS	601	650.00	182,64,515.0
- 6	5175 MESS	G-1	870.60	250,97,197.0
7	COMMUNITY CENTER WITH CANTEEN, SALORN & LAUNDARY BLOCK	- 12	503.60	172,41,310.0
11	HOSPITAL (14 HOD)	- E	33010	10137,28015
0	19(3),1, SH(1)	E .	400.00	42,30,380,0
10	GATK COMPUSS WITH 10 MAN BARRACK	- 30	17510	36,61,553.1
11	WATCH TOWER-10 Not.	E	50.60	\$63,550.0
12	FIRE STATION WITH BARRACK	GH	350 00	10464,097.5
11	ATM	E.	15.60	TAN WISE
1.1	CONTROL HOUN	6	50.00	12,54,486.8
15	CLASS ROOMBLOCK WITH COMPUTER LAR	GeT	700.60	204,21(195.0
16	INDOOR SPORTS COMPLEX WITH CYM	G-(1	800.00	232,75,000,0
12	PRIMARE SCHOOL	- 6	560.60	160,50,556.0
18	FAMILY WELFARE CENTER	- 6	500 80	145;84,425.0
19	HADIGHAR	6	300.60	82,10,665.6
20	REDREATION HALL		400.60	11527,546.6
-	RESIDENTIAL BUILDING/QUARTERS	2.2	200.00	782 307 107 1
21	COS MESIDENCE-1 BLOCKS	G/1	250.00	71,23,275.0
22	DEPOTY COMMANDANT'S RESIDENCE-1 BLOCKS	G-1	72040	202.95,602.0
23	ASSISTANT COMMANDANT'S RESIDENCE - 8 UNITS (2 BLOCKS)	G+1	1,200 #0	341,59,720.0
24	INSPECTION S RESIDENCE- 22 UNITS (4-BLOCK- G-1)	6+1	4,160,10	1171,53,696.0
25	HAVELDRE'S, ASI, CONSTABLE RESENDICE - 96 UNITS (12 DECCE: G-1)	G+1	8,923.60	1521,32,316.8
26	FOLLOWINGSPRINGER # HNITS (3 HLDCKS)	G-1	64180	100,45,1840
	ACIDINCIDATION FOR SD'S ONS/BILT DRISS.(1) -20 UNITS	92.03	19351922	
27	(1 BLOGS)	G+3	600.00	171,99,860.0
200	BARRACK - 240 NOS. ACCOMODATION	11000	4.000	TAXABLE POR
26	(4H.003-G/1)	Get	3,580.00	1096,79,144.0
29	GARRAGE-210S	6	80.00	20,25,650.0
30	SENTARY POST - 2 NOS	6	83/0	90,368.0
- 81	SENTARY PORT - 1 NOS	8.	1640	120,3364
32	GUIRD SHED-RYNOS.	6	74.60	7,15,654.6
33	CILL HOUSE	6	280.60	41.56,659.3
TOTAL A	(DEULDING WORKS)	- 100	20,149.60	8120,10,019.8
B	MEP BIGB SIDE/DEVELOPMENT WORKS		STALLOW CONTRACT	250000000000000000000000000000000000000
27	EXTERNAL SITE DEVELOPMENT (CIVIL)		Ç	2749,77,342.3
27	PURIOC REQUER & PIRE FROITING			237,64,666.0
20	EXTERNAL ELECTRICAL WORKS			25807,429.0
	(NEP HIGH SIDE/DEVELOPMENT WORKS)			3245,49,437.3
TOTAL-O	TOTAL COST AS PER CPWD PLINTII AREA RATE (A+B)			13665,67,447.1
	ADD FOR CONTINUIDACY CHARGES (8-1%)			156,65,674.4
	ADD FOR DEPARTMENTAL CHARGES @5%			533,28,372.3
	ADD FOR GET ON DEPARTMENTAL CHARGES @19%			104,00,187,0
95	ADD FOR PINC CHARGES ENCLUDING GST			240,00,000.0
1	ADD FOR GPF/TSL(60.95% ON COMULATIVE COST			690,7% 41 6.1
TOTAL-D	(CONSULTANCY AND PMC CHARGES			13171.40,015.1
TOTAL-	COST OF PICE CONSTRUCTION ACTIVITIES AND ENABLING WORKS / STATUTORY CHARGES (Local body approveds including tree cutting etc., Electrical External Service Connection, Civil External Service Connections & Survey)			141,85,943,7
TOTALE	SUB-SOR INVESTIGATION ADD FOR SSL50 NOS. BORES & 30000 Per flore [Calculation Sheet Endosed for reference]			15JAUNIO
C. C. C. C. C. C.			and the second second	
	GRAND TOTAL PROJECT COST (D+E+F)			13528,25,978.8

16 57

16108,71,987.86

PROPOSED CONSTRUCTION OF POLICE CAMMANDO BATTALION AT HAILAKANDI, ASSAM PROJECT GROUND SUMMARY TOTAL DEVELOPMENT PHASE-I DEVELOPMENT PHASE-II DEVELOPMENT FLOOR Area Proposed Area Proposed Area Proposed DESCRIPTION FLOORS FLOORS S. No. (In Sqm) Cost (In Rs.) 8 (In Sqm) Cost (In Rs.) (In Sqm) Cost (In Rs.) A BUILDING WORK ADMINISTRATIVE BUILDING & OTHERS G-T 2.083.00 313,31,764.56 G+1 1.083.00 313,31,764.56 CO'S OFFICE BUILDING MT GARRAGE& OFFICE G 870.00 246,49,471,63 G 870.00 246.49.471.63 3: RATION STORE & CLOTHING STORE G+1 300.00 84.87,141.25 6+1 300.00 84,87,141,25 G 350.00 MAGAZINE/KOTE BUILDING with EXPLOSIVE DEPOT G 350.00 101.03.998.13 101.03.998.13 650.00 182,56,515.01 6+1 650.00 182,56,515,01 \$ GO'S MESS G+1 . -250,97,797.01 870.00 250,97,797.01 870.00 SO'S MESS G-1 6+1 COMMUNITY CENTER WITH CANTEEN, SALOON & LAUNDARY BLOCK G 600.00 172,41,310,00 G 600.00 17241.310.00 4 G. 330.00 101,37,283.51 G 330.00 101,37,283,51 8 HOSPITAL (10 HED) DRILL SHIPD G 400.00 42.33.200.00 G 400.00 42.33.200.00 . 3.0 GATE COMPLEX WITH 10 MEN BARRACK G 175.00 36,61,553.13 G 175.00 36,61,553.13 G 50.00 G 50.00 5,63,550.00 11 WATCH TOWER-10 Nos. 5,63,550.00 350.00 12 FIRE STATION WITH BARRACK G+1 350.00 104,64097.51 G+110464097.51 13 ATM. G 15.00 3,63,935,07 G 1500 3,63,935,07 4 14 6 50.00 12,54,496,88 G \$0.00 12,54,486,88 CONTROL ROOM 15 CLASS ROOM BLOCK WITH COMPUTER LAB G-1 780.00 204.28.195.00 G+1 700.00 204.28.195.00 800.00 232,75,080.00 232,75,080.00 16 INDOOR SPORTS COMPLEX WITH GYM 641 641 800.00 \$60.00 160.98.556.00 560:00 160,98,556.00 17 PRIMARY SCHOOL G. G 18 FAMILY WELFARE CENTER G 500,00 143,84,425.00 G. 500.00 143.84,425.00 4 19 NAAMGHAR G 300.00 BR 10ASS00 G 300.00 RX10.655.00 20 RECREATION HALL G 400.00 115,27,540.00 G 400.00 115,27,540.00 . RESIDENTIAL BUILDING/QUARTERS 21 CO'S RESIDENCE A BLOCKS G+1 250.00 71.23.275.01 6+1 250.00 71,23,275,01 22 720.00 202.95.832.00 G+1 720.00 202,95,832.00 DEPUTY COMMANDANT'S RESIDENCE-1 BLOCKS G+1 341,59,720.00 ASSISTANT COMMANDANT'S RESIDENCE - 8 UNITS (2 BLOCKS) 1,200.00 341,59,720.00 1.200.00 23 6+1 E+1 DISPECTOR'S RESIDENCE: 45 UNITS 24 G+1. 5,850.00 1657.57.635.01 G+I 4160.00 1173,53,696.00 G+1 1.690.00484,03,939.01 (5 BLOCK-G+1 (40 UNITS) & 1 BLOCK-G+1 (5 UNITS)) HAVELDAR'S, ASI, CONSTABLE RESIDENCE - 190 UNITS 25 Gat 17,670:00 4995,16,477.01 6+1 8.92800 2521.32.316.80 Go L B.742.00 2473,84160,21 [23 BLOCK- G+1 (184 INITS)& 1 BLOCK -G+1 (6 UNITS)] FOLLOWERS RESIDENCE - 8 UNITS (1 BLOCKS) G-1 640.00 180.45,184.00 G+I640.00 180.45.184.00 27 ACCOMODATION FOR SO'S (INSPECTOR'S,S.I) -40 UNITS (2 BLOCKS) G-1 1.200.00 343.79.720.00 6+1 600.00 17189860.00 G:1 600.00 171.89868.00 BARRACK - 8 BLOCKS (504 NOS. ACCOMODATION) 1198,47,014.40 28 G+1 8,064.00 2285,26,118.40 6+1 3.840.00 1086,79,184.00 G+1 4.224.00 29 GARRAGE - 2 NOS. G 80.00 28,25,650.00 G. 80.00 20,25,650,00 30 SENTARY POST - 2 NOS 8.00 G 880 G 90,168.00 90,168.00 31 SENTARY POST - 1 NOS G 16.00 1.80.336.00 G 16.00 1.80.336.00 . 32 G 74.00 7,15,65400 7400 7,15,654.00 GUARD SHED - 01 NOS. G 33 KILL HOUSE G 41.5665930 41.56.659.30 TOTAL-A 45,125.00 12748,42,983.42 29,869.00 8420,18,009.80 (BUILDING WORKS) 15,256.00 4328,24,973.62 MEP HIGH SIDE/DEVELOPMENT WORKS ж 2749,77,342.35 27 EXTERNAL SITE DEVELOPMENT (CIVIL) 3613.27.215.89 863,49,873,54 27 PUBLIC HEALTH & FIRE FIGHTING 328.48,220.00 237,64,666.00 90,83,554.00 28 EXTERNAL ELECTRICAL WORKS 486,28,854.50 258,07,429.00 228,21,425.50 TOTAL-B 4428,04290.39 (MEP HIGH SEDE/DEVELOPMENT WORKS) 3245,49,437.35 1182,54,853.04 TOTAL-C TOTAL COST AS PER CPWD PLINTH AREA RATE (A+B) 17176,47,273.81 11005,67,447.15 5510,79,820.66 ADD FOR CONTINGENCY CHARGES @ 1% 171,76,472,74 116,65,674.47 55,10,798.27 ADD FOR DEPARTMENTAL CHARGES @5% 858.82,363.69 583,78,371,36 275,53,991,33 49,59,718,44 ADD FOR OST ON DEPARTMENTAL CHARGES @169/ 154,58,825,46 104,99,107.02 ADD FOR PMC CHARGES INCLUDING (ST 240.00.000.00 240.00.000.00 678,47,067,32 460,79,414.16 217,67,653.16 ADD FOR EPF/ESI @3.95% ON CUMULATIVE COST TOTAL COST AS PER CPWD BATES WITH CONTINGENCY, ARCHITECTURAL CONSULTANCY

AND PMC CHARGES

19280.12.003.02

13171.40.015.16

PROPOSED CONSTRUCTION OF POLICE CAMMANDO BATTALION AT HAILAKANDI, ASSAM PROJECT GROUMMARY TOTAL DEVELOPMENT PHASE-I DEVELOPMENT PHASE-II DEVELOPMENT Area Proposed FLOOR Area Proposed Area Proposed FLOORS FLOORS DESCRIPTION S. No. (In Sqm) Cost (In Rs.) 8 (In Sqm) Cost (In Rs.) (In Sqm) Cost (In Rs.) COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING WORKS / STATUTORY CHARGES (Local body approvals including true cutting etc., Electrical External Service Connection, Gvil External Service Connections & Survey) ADMINISTRATIVE BUILDING & OTHERS CO'S OFFICE BUILDING 11,20,092.75 11,20,092.75 MY GARRAGE & OFFICE 8,90,707.51 8,99,797.51 RATION STORE & CLOTHING STORE 3.10.275.00 3.10.275.00 MAGAZINE/KOTE BUILDING with EXPLOSIVE DEPOT 3,61,987.51 3.61.987.51 4 GO'S MESS 6.72.262.51 6.72.262.51 50'S MESS 8.99,797.51 8,99,797.51 COMMUNITY CENTER WITH CANTEEN, SALOON & LAUNDARY BLOCK 6,20,550.00 6,20,550.00 HOSPITAL (10 BED) 1.68,000.00 1.68.000.00 8 9 DRILL SHED 3,41,302.51 3.41.302.51 GATE COMPLEX WITH 10 MEN BARRACK 36,61,553.13 10 36,61,553.13 11 WATCH TOWER-10 Nos. 21,000.00 21,000.00 92 FIRE STATION WITH BARRACK 3,61,987,51 3,61,987.51 ATM 15,513,75 15,513,75 13 CONTROL ROOM 51,712.51 51,712.51 14 15 CLASS ROOM BLOCK WITH COMPUTER LAB 7,23,975.00 7,23,975.00 INDOOR SPORTS COMPLEX WITH GYM 16 8,27,400.00 8,27,400.00 5.79.180.00 17 PRIMARY SCHOOL 5.79.180.00 FAMILY WELFARE CENTER 18 5,17,125,00 5,17,125.00 19 NAAMGHAR 3.10.275.00 3.10,275,00 20 RECREATION HALL 4.13,700.00 4.13,700.00 RESIDENTIAL BUILDING/QUARTERS CO'S RESIDENCE-1 BLOCKS 2.58.562.51 2.58.562.51 21 DEPUTY COMMANDANT'S RESIDENCE-1 BLOCKS 7,44,660.00 7,44,660.00 22 ASSISTANT COMMANDANT'S RESIDENCE +8 UNITS (2 BLOCKS) 23 12,41,100.00 12,41,100.00 INSPECTOR'S RESIDENCE- 45 UNITS 24 60,50,362,51 43,02,460.00 17,47,882.51 (5 BLOCK-G+1 (40 UNITS) & 1 BLOCK-G+1 (5 UNITS)) HAVELDAR'S ASI, CONSTABLE RESIDENCE - 190 UNITS 25 182.75.197.51 9233,784.00 90,41,413.51 [23 BLOCK-G+1 [184UNITS]& 1 BLOCK-G+1 (6 UNITS)] FOLLOWERS RESIDENCE - 8 UNITS (1 BLOCKS) 6,61,920.00 6,61,920,00 ACCOMODATION FOR SO'S (INSPECTOR'S,S.I) +40 UNITS (2 BLOCKS) 6,20,550.00 12,41,100.00 6,20,550.00 27. 293 BARRACK - 8 BLOCKS (504 NOS. ACCOMODATION) 83,40,192,00 39,71,520.00 43,68,672.00 GARRAGE - 2 NOS. 82,740.00 82,740.00 29 30 SENTARY POST - 2 NOS. 3,360.00 3,360.00 SENTARYPOST - 1 NOS 6,720.00 6,720.00 31. GUARD SHED - 01 NOS. 31,080.00 31,080.00 32 33 Cost of Survey (LS) 1,50,000.00 1,50,000.00 TOTAL COST (PRE CONSTRUCTION ACTIVITIES AND ENABLING WORKS / STATUTORY TOTAL-499,54,481,73 341.85,963.71 157,78,518,02 CHARGES) SUB-SOIL INVESTIGATION (ADD FOR SSI 50 NOS, BORES @ 30000 Per Bore TOTAL-15,00,000.00 15,00,000,00

SAY

197.95

19794,76,485.00

Crore

SAY

135.28 Crore

(Calculation Sheet Enclosed for reference))

GRAND TOTAL PROJECT COST (D+E+F)

Crore

6266,50,506.00

13528,25,979.00

SAY

62.67

1	0	8
_	_	v

_	PROPO	SED CONSTRUCTION OF POLICE CAN			LION A	T HAILAK	ANDI, ASS	A.M.
		GO'S OFFI	CEBUILDI	NG				
	1	No. at Storeya	- 10 -	G+1		0:		0
	100	Total Greend Anna		1003,00	Sque	97		
		General Covered Acea		5 th 50:	Sym			
	100	Visiar Height Typical		420	19tr.	20		
	2	Plich High.	- +	260	His	S N	-	2
S.Sec.	Sell-AR	Description	Acres.	linit	Balle	7	Amount	
3-7941	2003 Herri	news those	AFRICA	4.004	Ponts.		(fire fire.)	
		4				Gird	PHART	destrical
- 1	1.0	BUILDING COST						
18	1.498	(Specifications unper Americans: 1)				21 20		2
	Office	RECFRANCE STRUCTURE						
1	service refers	(flyie Time Sinneys)			l			
	From APWID	0.0000000000000000000000000000000000000		_				
	durind	Floorist 360 m	1075000	Sen	20005.00	22401.055.00		100
	4010/1003	7 AND 10, 4760 M	99 80000	10000		4240128400		
	100	Tetal Budging Cont.			Tall	124,04,455,00	0.00	6,00
	1,1	PATILISTON				7.		
200	100000	Every USest additional height of mount floor higher of		100	= 37 AV	11/21/02/1		
2	4.392	2.60%	93 65.04	State	740.00	R2H,420.00		
	4/013	(foceday 42 rp. / 42 3 6) (\$3 (278)	107/04	100	1000	125 (C) (C)		
	Comme	Rony Ochobs cheeper fram distinst-over terminal depth of 3.80						
-31	1.84	mir (an ground floor area mily)	541.90	Sgre	200.00	1/19/200700		
		(So: 1.50 m death - (1.5 t. 2.70.20.20)) Making stronger foundations to take lead a lawy additional			-			
4	1.35	floor at a later date the around floor and color	541.50	Som:	3900.80	8,00,400.00		0
	7	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED AND ADDRESS				17,7%,100,00	6.00	0.00
	Vanae.	TOTAL-A HUTTL WOOKE				243,77,075,00	0.00	0.00
	1.5	FIRE FIGHTING				77.50000000		
. 5	1.5.0	MORE work since spall approaches against a	£800UR0 -	- Septi	1200.00	DC 25	42,09,68180	Č.
	100	TOTAL REPRESENTATION CO.		0	10	(1.89	12,99,600.00	0.00
	1.4	FIRM ALASM SYSTEM					_	
-	1.62	Automatic Fire Alicen Nation	1,083,30	365	600.00	-		648 910.00
	1.0	STRUCTS TOTAL CORRESPONDING		2011	10000	(1.23	0.00	6,01,092,20
-	2.0	Internet Water Supply & Smill and Internet	2214/01/065/00	- %-	4%	-	.89695438	-
	22	Laternal electric contains may	22401.955.00		12.5%	-	0.0163-1-10	28,000,231,800
_	24	EXTRA FOR	-		-			
	2.45	Power wing and plage	221,01,951.00	-	3394			0.96,974.29
.139	1.62	Lagit wing conductions	225/01/05/200	1/16	2,00%	77		11,094.04
.11	2.63	Trimbas contains	224.01JB5.00	19.	0.25%	100000000000000000000000000000000000000	Wildy Hilly	15,095,64
TLA		TOTAL O PERMICINE	Contraction of the Contraction o	MALIE	3300-	0.43	3,96,874.28	38,99,337,30
-	3.6	WATER TAME (BCC 088.9)			-	11. 11. 12.	-	
12	3.1	Overhead time videos linde personal disease	2500	July 1	- 20		531,950.00	2.00
	-	TOTAL COST AS PARCENUS PLENTIS AREA RATE (A-60-6-4			_	0.83 240,77,075,00	5,00,900.09	9,00
_		FUTAL COST OF PRINCIPAL COST OF BUILDING			-	240,72,002,000	2642704.70	313,35,744.5
	-	TO THE OWNER OF PHILIPPING	-	1		for No.	3.11	Crore
		COST OF PRE-CONSTRUCTION RETURNS AND						
-		ENABLING WORKS / STATISTIMIX CHARGES	200000					A. Company
15	2.25	Electrical External Service Commutations	224,01,853.00	- 16	3.75%	33 = 2		8,60,869.56
14	2.28	Local body approvals including tree cutting etc.	22101,055.00	76	1,25%	(i)		2.80,021.35
19	8.60				Truck.	S 5		THE STATE OF THE PARTY OF THE P
		TOTAL-II						11,26,092.70
	100	C. Contract		12		Say Rs.	0.11	Grere

		MTGARRA	GEA OFF	ICE				
		Fig. of Stoneys	-	110	0	57		
		Total Covered Area	-	97000	398			
		GresedCaterral Acre	-	1970/10	500	0.0		
		Flanc Hright G.F		6.00	690			
_	_	Philitelata	_	0.60	Mile	_		
		Philippi	-	0.80	- Allie	S 10		
£.8a.	Ref PAR 2021 Hom	Bescription	Area	mer.	Botic'		Amount (In Ru.)	
	-		. 0			CWB	PRINCE	Electrical
12.	400.17	BUILDING OIST						
T.	1,0	(Specifications as per Americane-1)						
	Otto	BOLFRAMED STRUCTURE				25		
t	Sup APSO	(Upto Titros Soriga)						
	dicinst minimum	Floor in 3 50 m.	0:70,00	Squ	20088.00	179,95,950.00		
		Year Building Cod			14	178.95,950.00	0.00	0.00
_	1.8	EXTRACTOR		-		1		
1	(33	Drey Obst ablitional height of normal Born higher of Dobas The extracted in 1809-1609-1609 Higher Edwards	этвао	tips.	THERE	20075.20076B		
3	124	Conty Cliebr despet from that so one normal depth of LPE (and foreground floor area only) (for LEE or death of LEE (1/13 No. 201)	атию	Squt	201.90	2,74,000.00	2000	
		The same of the sa				27,49,280,69	0.00	9.00
		THE ALL A COVER MICHAEL				397.45,650.00	0.60	100
	1.5	REFERENCE						
	3.5.1	Down our Cotors	973.00	fige	480.00	23 3 5 5 1 1 7 7 7	3,84800.00	\$ 720.0
CLOCK	10000	TOTAL & FRANCESCO PAGE	7	11553	CTT-LL	0.00	3.4E,803.00	0.00
	1.6	PULLALMONISTRIM					-0-0400000	100
. 1.	10.7	Autoraute Pire Aluriu Sommi	079.00	Sign	5400 SE	(2- V)		1,22,000.00
900	500000	TOTAL C (THE ALAIM OVETEM)				0.00	0.00	5,33,856.80
375	2.0	SERVICES	Transport of		Fig. 10.	26 - 20 - 20		20100000000
1	23	Da broad Motor Employ & Spectary Bustofishs on	17931,000.00	71	679		7,10,000,00	
0.50	338	Tancoul dorne mandatione	1,75935,990,00	96.	12.5%	0.00		22,45,490,75
	2.4	ESTRA FOR	77.77		0.05			
	24.2	Lai duite conductors	17595,980.00	71	1.25%	The state of the	127423000000	44,989,000
-3.50	1000000	TOTAL DISERSORY	NAME OF TAXABLE PARTY.	-	3000	0.00	4.10,E1E.00	22,9 (488.4)
	3.0	[WATER TANK (RCCONES)				. 15		-
	7.1	Dyrelated last will been independent staging	1000	Library	10	0	20,000.00	
-		TOTAL (WATER CANE)		. 1 1. 1 1		0.00	20,000.00	0.00
		TOTAL COST AS PED CITAD PURSUE AREA BATE JA BACA	141			387.45,058.00	10,87,618.08	26,14,107.6
		TOTAL COST OF BUILDING				20.10		246,45,473,6
-		1	127			Say Ro.	250	Grero
8		CONT OF PIRE CONSTRUCTION ACTIVITIES AND ENABLING WHENS / STATUTORY CHARGES						
1.6	321	Clause and Entermal Service Community on	17991,980.00	. 94	3.75%	(C)		6,74,848,03
11	22.6	Local body approvals including tree entling etc.	17995,980.00	96	125%	00 300		2,24,499.30
7/17/0-	100000	TOTAL-E	CHICARITA	1311175	Section 1	0	1000000	639929231
		2000000				Nay Ra-	0.69	Oran

1	Λ	0
\rightarrow	v	J

		RATION STORE & C	LOTHIN	GST0	RE			
		Six, of Storm's		G-1		100		
	1 3	Total Covered Area	100	300.00	Spin	43		
	-	Granand Conney & Arma		130 00				
		Rear Reight Typical		4.20	300			
		Plieta Beigle	-	0.60	- bits			
5.5e.	But PAR 2021 item	Description	Area	link	Rate		Assumet (in Ha.)	
						tivil	PHARE	Electrical
1	1,0	BUILDING COST (Specifications as per Appendiro-1)						
	Office	DOC PROMES STRUCTURE						
ī	Everytelia	(Upto Three Storeys)						
	00.00.2023	Florist 3.63m.	351.00	Spe	30688-00	62,98,88000		
_	3000019-01	Yotal Building Cost	-	-	14	62,05,520.00	0.00	6.10
	1.9	EXTRAM FOR			- 10	BEAT SERVE	440	630
_	100	Deep diling additional beight of current foor higher of						
2	133	7.00 m (Expens) 4.2 m . 442.26170.36170	303.00	Squ	1 400,00	4.HLEGE SE		
7	1314	Dury 5.3 set despectantation con semal depth of 1.50 set (conground floor area only) (for 1.50 to depth - (1.54.21/4.41,224))	183/00	Squa	200.01	20,000.00		
						4,74,000.08	0.00	6.50
		POTAL-A P. IVE. WORK)				66,79,500.00	0.00	1.20
	1.5	racriamss			_			_
	112	Mithweliner stelen	309.00	Spa	D\$0.03		2,44,000,00	-
_	1,0	FIRE ALARM SYSTEM	-	2000000	-	0.10	2,40,888.00	8,30
-	100	Astonatic Fire Alarm System	200,00	Sora	66500		2-0-0	1,90,000,00
_	1.00.0	TOTAL CIFIE ALGOLAYSTING	200.00	Aca	100000	0.00	0.00	180,000 H
	1.0	SERVICES				70.00		Acceptant
6	21	Telerra Water Steply & Santiery Lest allette en	42,03,100.00	. 56	E%		43549100	
Ť	2.5	Internal circ bit metallations	12.05,300,00	%	12.5%			7,73,087,98
	2.4	EXTRAPOR					-	į
0.	242	Lackbase confering	152,6 5,500,00	. %	0.25%			15,513.75
	10000	TOTAL IS (SERVICES)		10.00	2000	0.00	4,35,466.60	7,91,201.23
	14	WATER TANK (BUC OWLY)	7200	-	-		7.000000	
ų.	3.1	Dorrhood track will bear in dependent studing TOTAL E (WATER TANK)	5000	Mer	30	0.00	1,00,000.00	1.00
_	-	TOTAL COST AS JOIR CPUID PLINTS AREA BATE (A-B-C-		-	_	66,79,100.00	0.20.000.00	9,71,301.25
	_	TOTAL COST OF BUILDING			-	100.5100.00	2000000000	84,85,141.2
		19039-2219-1900-			2	Kap Str.	0.305	Orner
0		COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING WORKS / STATISTORY CHARLES			dischi.	2		Consensor
99	221	Electrical External Service Connections	12,05,100,00		3.75%	1	1	2,52,796.25
71	223	Local body approvals including tree cetting ste.	42,05,380.00		1,29%			77,568.75
_		TOTAL III	and the same of		_	-	-	5,10,275.91
						Sign Ma.	0.03	Crore -

		MAGAZINE/KOTE BUILDI	NG with E	XPLO	SIVEL	EPOT		
	-	No. of Store yu	-	4				100
	- 0	Total Covered Area		350,00	Squi		E-1	E.
	-	Ground Growed Area		350000	Signi			
-	- 3	Floor Heidal Tapical		4,70	Mh.		99	
-04	3	Plints Height		-046	MILE		31	35
Ola.	BeffAR 2021 Hom	Description	Ayes	Unit	Rate		Account (in Re.)	
35		i		100		Civil	PISAFF	Electrical
1	1.0	DEREINAL COST (Specifications as per Assessure-1)	j 8	0 3		2		ŝ
1	collier contractors	RCC FRANCED STREET URE (Upto Three Storess)	2000			and the second	0	
	Story APPATE	Roomint, 3 15 mg.	50.09	Serv	posett en	10,34,250:00	V	-
П	01.00.2822	Piner 18, 3-60 mg.	36000	Sign	23968 89	62,05,510.00		
	1.3	Total Robbing Cost			Tel.	72.5%,750.00	0.00	6.00
2	132	EXTRAS FIRST Every Ochiat, additional Insight of normal floor higher of 1590a. See extra 42 in . [4,3-5,6) (4.5-5) (8)	Menus	Sea	740.06	2,22,00046		
9	134	Every 0. Inch feeper branching over sormal-logith of 1.50 atr (suspected four area only). For 1.50 sudgests of 1.5 t. (10.3 t. 200).	36020	Sign	200.00	70,991.00	3	
4	133	Making stronger translations to take load of our additional from at a later state ion present from area only)	85000	701	160000	5,64000.60		
_	- 3					E,57,000,00	0.00	0.00
	01000	TOTAL A JUNE WORKS	3			00.01,750.06	0.00	0.00
-	15	FIRE FIGHTING	47.10	-	-			
5	157	With set their section Towar a prime inchitime;	353.00	Sign	000,00	620	2,98,900.00	6.00
-	1.6	FIRE HARM SYYTEM	388.00	1000	(000000		-	2,35,900.00
5	1.6.7	Automatic Res Alarm System TOT ALC (FIRE ALARM SYSTEM)	358.00	Term	decide	6.00	860	2,10,896.00
_	2.0	gmyers				6.040	1100	2,111,899.00
3	2.1	Internal Water Supply & Sport on Institutions	72,71,75000	14	46		109,298.60	
8	23	informal electric installations	72,75,750000	- %	12.5%			0.04,948,75
	2.4	EXTRA FOR	U. 20.21 P.7		-		(1)	
9	2.4.1	Foreer wiring and plage	72,39,750,00	- 54	4.0%	3		2,09,590,40
18	2.62	Lights top conductors	72,75,751.00	. %	0.23%	4	of an arms	30,075,30
355	2000000	TOTAL O (SERVICES)	STATE OF THE PARTY	50000		6,00	2,81,910.00	12.12,004.13
	300	WATER TANK (BOX ONLY)		-				
11	3.1	Derhealten villout subprodut status	3360	Uttr	10.	6.00	20,000,00	0.00
		TOTAL COST AS PER OPER PURPLE HER BATTOR TANK! BOTAL COST AS PER OPER PURPLE HER BATTOR TO FOR HOUSE	Det)			99,91,759,00		1422,65311
		NOT NOTICE OF BRIDGING				Sacilla	1.01	Cincs.
11		COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING WORKS / STATUTORY CHARGES						9
11	221	Herteical External Service Connections	72.49.753.00	5	3.73%			2,71,696.63
13	2.23	Local body approvals including tree cutting etc.	72,73,750.00	. 14	1.25%		8	93,496,88
		TOTAL-III		07.10			0.00	1,61,987.51
_					_	San St.	204	Crere

4	-	$\mathbf{\Omega}$
7	1	11
-	_	U
_	_	$\mathbf{\mathcal{I}}$

		60'	S MESS					
=0		No efficiency.		Bet.	F-31	- 17		0 =
-		Total Governd Area		650 00	light	- 1		
		Greated Comment Association		32510	Septe	-		
- 22	- 0	Ricor Fleight Typic at	- 40	3.30	Mir.	40		
-		Phothiteight		0.66	- DATE:	- 1		-
No.	RefPAR 2021 item	Description	Area	Unit	kate		Ameumi (InRs.)	
						Civil	PHAFF	Hedrical
1	1.0	MURAING COST Especifications as per Assecuere: ()				11		
1	Office person as fless	REC. PEAMED STRUCTURE. (Epin Three, Strongs)						
	dated based	Hone ld. 3 60 m.	650,00	Sax	20685.00	134.45250.00		
		Total Bribling Sort	S 5	N 13	Tel S	134.45.258.00	-0.00	690
-	1.3	EXTRAS FOR						
8	12.1	Dony 2.3ml additional height of second floor higher of 2.00m. For epiter 2.5 m., 227-205-2282-231.	660,000	Squ	(00.00)	3,41,400.00		
2	1.0.1	Dony Clast deeps foundation over name aldepth of C30 sets (as grown flow sets sub) for 1 Stra Apath - (13-12) - (31000)	335.00	Squ	300.00	65,966,06		
4	13.5	Holding stronger femulations to take land of our additional form of a later date (on monate) that area early	325.00	Spin	3609.00	1.20,000.80		
					-	1,25,500.83	9.00	0/80:
_	2000	TOTAL ASCIPT, WORKS		_		142,70,758,30	636	6,80
-	1.0	PITE ALABO SYSTEM	VECAS	-	Van he	.r. > 000000 7 V		V 444 044 44
5	163	Amounts: Fire Alarm System TOTALLS (FIRE ALARM SYSTEM)	#10.0E	Sex	(20,20	0.99	636	3,06,060.00
-	2.0	SERVER SE	-			0.44		27/10/2001/20
6	77		13445.25186	76	75		\$2,100F2.W	
0	2.8	Internal electric totalisticus	13445.25004	76	12.5%		The same of the sa	16,9005625
	2.6	EXTRAPOR	70 TO 1		-			
п	241	Forectpicities and plans	13445.25086	26	6.8%			\$200000
9	242	Debta ag conductors	13445-25084	- %	0.25%	- 2		33,613.11
10.	2.48	Selegiume conduits	13445.29(9)	. 16	0.25%	S		33,618,11
900	100000	TOTAL-D (SERVERS)	MISTON CONTRACTOR	SHIDLE		9,88	12,86,672.50	12,85,602.51
	3.0	WATER TANK (BECCONLY)				- 2		
11	33	Overly ad task without adependent mating	1000	Liter	20		1,945,909,00	
		TOTAL-E (WATER TANK)			10000	0.92	1,600,000,68	680
-	_	TOTAL COST AS PIR OPINIO PLINTIN MEA KATE (A 484C +	0+03			112,70,758.88	55,86,072.50	
	_	TRIALORITOR BUILDING	777			200	2.44	180,56,5158
						Say Re.	1.82	Croru
11		COST OF PRETAINSTRUCTION ACTIVITIES AND IN ARBUNG WORRS / STATIST ON LIBERTIN						
12	221	Enternal Internal Service Connections	134,45,25091	. 16	175%			5,04,194.88
13.	228	Lored hody approveds including iron retting our	13108-25190	766	1.20%			1,68,965,83
100		TOTAL II		1000		11000	1000	6,72,267,31
		- 171.000.00			10 TO	Roy Re.	4.47	Crops

		80	'S MESS					
		Disc of Starreys	/	6+1		10		0
-11	- 2	Total Covered Area		670,00	Squi	E 32		
	-	Simund Covered-brea		485.00	Squi			0
- 11		Place Height Typical		25,390	Mt	- 13		-
74		Phiath Height	- 3	0.60	· Mi	< 0.		0
CN.	Ref PAR 2021 itsen	Description	Aros	Unit	Rote		Amount (Infla.)	
-10			-			Coeff	PRAFF	Electrical
1	120	BUILDING CORT (Specifications as per Anacoure-I)						
1		REC PERMITO STRUCTURE: (Clata Three Storews)						
	feee APRITS daried mixts 2002	Hoor In 3 Dr as	\$70,06	Sign	200/85/00	179/35/08/10		
	I THE PARTY OF THE	Total Building Cort			241	171,95,950,00	8.00	0.00
_	1.0	EXTRAINES				A2000-25000	0/1007	-
2	182	Freey 0.500 additional begins of narroal floor higher of 1870; Statemers 3.5 m. (3.5-38) (8.5-570)	enue	Sqn.	379.80	3,21,969.69		
3	124	Proty 4.3re in despire formulation over normal disprise? 1.50 mtr (on ground floor laist only) floor 1.50 m death - 11.5 5.27(1) (6,20)	43539	Sge	200,00	87,006.00		
4	133	Making stronger few althought take lead of our additional floor at a later state (on report floor arrantely)	615.00	Son	1600.00	5.9500.00		
	_			$\overline{}$	0	TOTAL PROPERTY.	0.00	6.00
_		THE A SCIVIC WORKS			27	14200380000	0.00	0.00
-	1.52	HRE HEITING	979.00	Son	969.60	-	5595,800,00	_
	100	YOTAL O DIRECTION OF	13.0	-	-	109	5, 76, 802.00	0.00
	1.6	HRE ALARK STATEM			-11	- 5	3000	-
6	1.61	Automobil: Fire Allery Seaform	23.16	Son	(89.00	775.500		5,22,000.00
	1000000	TOTAL COMMERCIALISM SYSTOMS		-	7	101	0.60	5,22,660.00
-	2,6	SERVILES	191799999	-		Comments.	A	governor.
-8	23	Referred Water Supply & Sankary Last abbisions Referred electric test of alexans	179.95,950.90	- 5	12.5%	-	16,13638.00	224999371
9	2.4	DOTA FOR	11909,950,96	- 2	14.5%			14,45,493.11
41	231	Progressing and plant	17905-060 80	90.	1.0%	-		2,291,008.90
10	242	Lichtung conductors	179355,950,90	90	2.25%	L 05		44,969,08
210	2.48	Telephone row dute	179,95,950.90	96.5	1.25%			44,509.00
- 17	100000	TOTAL-D (NUMBERS)			17	109	76,19635,30	30, 53, 31:1.51
-	3.6	WATER TANK (BIG ONLY)	1999		177.5		131111111111111111111111111111111111111	110000000000000000000000000000000000000
17	84	Overhood task will be in independent staging	5000	Liker	- 30	100	1,000,000,001	100
		TOTAL COST AS PER O'WE PLINTH ASSA SATE JA-6-C-6 YOTAL COST AS PER O'WE PLINTH ASSA SATE JA-6-C-6 YOTAL COST OF BERLING	D-ES			100,000,000	34.156.95.30	250,01,797,0 250,01,797,0
					1	SAFRA	251	Clore
11		GUST OF PISE CONSTRUCTION ACTIVITIES (1909)			Š.,		7.90.0	
13	221	ENABLISH WORKS / SPATTUTORY CHARGES Electrical External Source Connections	170,05,050.80	96	1.75%	-		5,74,848.13
14	223		179,95,950.00		1.25%			2,24,949,38
44		Local body approvals including two cutting etc.	1.4/20/2007/00	190	1.42%			100000000000000000000000000000000000000
_		TOTAL-II				-		8,99,797,61
		100				Say Rs.	0.09	CHEE

	PROP	OSED CONSTRUCTION OF POLICE CAN						SAM
		COMMUNITY CENTER WITH CAN	TEEN, SAL		& LAUN	DARY IILO	ICK	
	-	No. of Harrys	-	- 6				570
		Total Covernal Area	-	601.00	Sign			
	- 1	Miniard Governi Area	- 4	46 LOS	Sign			
		Bloor Height Typical		4.20	M91.			
-		Plinth Shape	-	4.80	Min			0
Min.	Ref PAR 2021 Hern	Description	Arm	Test.	Hele		Amount (In Sa.)	
-	-					Civit	PHART	Hedrical
1	1.0	BUILDING COST (Specifications as per American)						
1	086vy.	RCC FRANKD STREETING (Exits Three Streets)						
	Beed APATS Band CHENDARY	Berrit 168 m.	141.00	390	J260530	124,11,000.00		
	OFFICE AND ADDRESS OF THE PARTY	Total Rending Cont.			Tel	124,31,903.00	1.00	0.00
	1.3	EXTRAS POR.			-	11111111111111111		120
2	134	Borry 9.3 at a Millional height of a grand floor higher of 5 50 ca (for entra 4.2 m.,) 6.2-2.6) (0.30270)	64100	igo	79009	6.46003.00		
ŧ	13.4	Dury 9.5 wit dieger to antidoor over worsel eq.(1 of 1.80 of 1.00 green) flow areas (6). the 1.18 to death (1.51.210.35(184))	68100	Syn	200.04	1,28,000,00		
4	133	Military changer from eld input to take food of one unlifetion of those or a later flow loss crossed from services(r)	640.00	Sim	168100	0,44,000.00		
		-conditional control processing				15,24,000.00	6.00	640
		TUTAL-M (CITIL MORK)				139,35,993,09	8,80	5,60
_	1.5	EDIE PIGHTING		-	-		-	
3	153	TOTAL-E STREET PLOTTENES	900.00	389	\$10,00	8,00	2,48,000.00	639
-	3.6	THE ALARM SYSTEM	Service Control	1000	20000000	9,00	2,40,000.00	100
6	162	Adams for Alam Index	900.00	Yes	500.00		-	384,000.00
-	154	TOTAL CIPILE MARRISTONIA	990.00	7.00	900,04	8.00	2.56	3,60,000,00
_	2,0	SERVICES				-	-	-
7	7.1	District Water Sough & Southery Fast date our	12411.000.00	- 50	4%		6.96,000.00	
ñ	2.9	Internal electric local Allinia	02411.000.00	- 16	12.0%			15,5137500
	2.4	ECTAL FOR			-			
9.	24.1	Private system, and plants	1241180000	25	126			4,96,5 (0.01)
107	2.63	Biglishing medicators	1241140000	- %	0.25%			31,627.58
11.	243	Telephone conduits	12414.600.00	1.06	0.25%			11,327,13
		TOTAL DEBANCES				9,00	4,44,840.80	21,34,870,90
-	3.0	WATER PARK (BCC ONLY)	Cont	-	-		4.0000000	
12	2.1	Overhead tack without independent staying	5000	Dir	73	1000	1,00,000.03	200
-		TOTAL COST AS PIN CPWO PLINTH AREA BATE (A+R+C+D	**	-		139,35,909,00	1,00,000.00	24.65/876/H
_		TOTAL COST OF HOLDING		_	_	TOATABLANCE	0,35,040.00	172,41,310.0
		TOTAL SOAT OF SOMEONE				See Pa	1.72	Crore
11	- 000	DET OF FEE CHISTRECTION ACTIVITIES AND ENABLING WORRS / STATUTORY CHARGES	San Constant					in the second
13.	22.1	Bectrical External Service Connections:	12411.000.00.	25.	3.75%	5		4,05 FT 2.59
14	223	Local body approvals including tree cutting etc.	12421,000.00	- 500	135%			1,55,137.50
		T0T4L-0	10	1				6,20,550.00
						Say Ba.	1.06	Crore

		HOSPITA	L (10 BEE	11				
		Nv. of Storeys		-00		N 22		V)
	7	Total Cosened Apon	- 0	33000	Sign	0		
	-	Grend Grend Ana	10 1	33000	Squ			(i-
		Flore Heidst Typical	- 1-0	4.30	Mov			2
		Pflotts Height		11.65	580			10
S.Mo.	Ref PAR 2021 item	Description	Area	Unit	Mate		Americani (In Rs.)	
						CMB	PHAFE	Electrical
1	1.0	HILLDING COST (Specifications as per Asseture I) log HANGO STRUCTURE						
t	retico tecnorecidate fram (ATVI)	[Upin Three Starotes)						
	Ast-4 BEXTRACT	Flouritt Stift to	190.00	Squ	3646520	64,24,050.00		i
	Section 198	Tone halding Gost	. 2	- 2	Del .	68.26,058.30	300	8.00
	13	EXTRAS FOR					10000	2
1	13.1	Every O.Son additional larger of normal floor higher of 3.60s. (Rev cetta 4.2m. (4.2-3.6) (8.3-670)	330,08	Squ	740.00	2,94,290,00		[
3	1211	The entry 42 m. (42-3.6) (43-670) Every 0.3 of the depends and other were meand displit of 1.50 part (or ground lose area only) for 1.50 m. depth. 1.51 Jun Marrolli	53070	Squ	206.60	66,000.00		
	132	Not 1.58 restrate - 11 is 1, 23/0.7007001 Making of engine foundations to rate load of one at bits and floor at a liter date (an ground floor area out)	200.00	lqu	1000.00	5,20,800.00	35000	2 227
_		TOTAL A SOME WORKS		-		0.38288.00	0.06	4.00
	1.5	HRE HERLING				34,64,256,90	0.76	2.00
-	1.61	Donnounus System	33689	Sign	100.00		1,32,680,09	S
-	BRIDGE	TOTAL BETTER DIGITING		200		0.007	1,32,690,00	0.00
	1.0	FIREALAIM SYSTEM	5		S		2000 COLUM	
16	142	Automotic Plac Alaem Testina	130.00	Squ	C06.00			1,780,690,00
		TOTAL CIFIE A ARM MATERIA	2 00		- :	0.00	9.04	1,96,000,00
-	2.0	SERVICES.	*********	-	-	-		-
18	2.1	Internal Water Supply & Suntary Installations Descriptions to the testallations	68(15(0)03(0)) 68(16(0)03(0))	76	12.5% 12.5%		6,02,645.09	8.73.156.20
	2.4	PATRAFOR	66,15,000,000	-	12.00			R/5/(196.25
4	EAL	Even or setring and african	68,05,663,00	- %	46%			275,642.80
16	242	Lighting resolutions	660,000,000	4	0.27%			17,065.12
TI	243	Triciheser eschilis	98,76,893x(0)	16.	4 27%	S		17,09E 63
-0.Y	0 100	TOTAL O (SOUVERS)	ERCENDARY.	-	CONTRACTOR	0.00	4,82,695,60	11,60,628.51
	3.0	MATER TANK (SECTION V)						
11	11	Overhead tasis without askspended status	19006	Uhr	20	-	3,00,693,00	
		TOTAL A SWATER TARKS	. 10	-		0.00	3,910,690,600	0,00
_		TOTAL COST AS PERCEWO FLIVTH AREA RATE [A-8-6-6-				38,64,250,30	11,11,585,68	15,50,428.5) 801,35,283.5
	200		-			Say 4s.	1.01	Crare
11.	-	COST OF PAS CONSTRUCTION ACTIVITIES AND			-	-		00
-		EXAMILING WORKS / STATE TORY GRADICES						
1)	2.11	Discrical External Service Georgetisms	68,75,053,00	96	3.23%			2,55,576,88
14	223	Local body approvals including tree cutting etc.	64,36,050.00	*	1.25%	: 0		85,325.68
	Name of the	70714-0		-	4	1000	V171.00	3,41,302.51
	(A)		T.		20	Stoy Re.	0.03	Crore

		DRILL SE	IED					
7.1		No. of Storegy	- 1	G	15.11			
		Total Covered Area	-	100.00	Squ		-	
100		Ground Covered Area	1 - 0	400.00	liga.		1	0
		Floor Height Typical	-	5.90	Mix			
		Planta Height		0.60	Mile			
S.No.	Bef PAR 2023 Hem	Description	Arm	Unit	Raite		(In Rs.)	
- 15	- 1	100 W/150 (101			12	CIVIE	PHASE	Hestrical
1	1.0	DULIBRE COST (Specifications as per Annexure: II				- 55000	2000	5-4-05-mch
1	1.8	STALLPORTION	1					
-	1.03	Flore fg. 360 m.	400.00	Squ		33.00300.00		
_		Total Dailding Cost			94	35,46 (100.16	0.00	0,06
_	1.3	DOTRAS FOR	-	_			_	
ž.	101	Brery 9.3 set additional height of normal floor higher of 3.00m (Sor extra 5.8 m. (5.6-3.6)/0.354.70)	400.60	5qm	933.00	3,75,200.00		
3	3.84	Boory 0.3 mtr. despection adultion over numeral dispits of 1.55 outr- (on ground floor area only) (for 1.50 in depth = 11.5-1.21/0.35/200)	400.00	Sgm	2018.00	90,000,00		
_					17 1	4,53,298,00	0.56	0.06
_	2.0	SERVICES TOTAL A (CIVIL WORK)	3			36,13,209.90	0.00	0.00
		Interrul electric installations	23.60.000.00	14	12.9%	_	_	420200M
-	0.5	TOTAL-D ISERVACES		- 4	14,75	9.50	0.00	4,26,000.00
-		TOTAL COST AS PER CPWD PUNTH AREA RITE (\$4-8)				38,13204.06	0.00	4.26.000.00
- 10		TOTAL COST OF HURDRING	8		(C) +1		Service Co	42,53,266.00
3) ř					25-1	Set Sa	0.42	Croose
11		CONT OF PITE CONSTRUCTION ACTIVITIES AND ENABLING. WORKS / STATISTICAL CHARGES						
5	22.1	Electrical External Service Connections	\$3,00,000,00	74	3.75%			1,26,890,09
6	2.2.2	Local body approvals including tree outling sto.	23/40/009/00	- %	1.25%			42,916,00
- 1		TOTAL-II	5		100		1 1	1,68,880,08
-11						Say Xx.	0.00	Crore

		GATE COMPLEX WITH	10 MEN	BARI	RACK			
121		No. of Storege		- B				
-	-	flatalGovered.area		175.00	Sym			
		Greenal Concessed Agrees		475.00	Sopre			
		Hore Height Typical		- 5160	Pile			
		Photh Height	- 1	244	FORm			
,No.	Ref PAR 2021 Hern	Description	Area	Unit.	Rate		Amount (ln 8x)	
	-					Civi	PHAFF	Electrical
1	1.0	BUILDING COST (Specifications as per Assessive 1)						
1	Cities recreased any	BLE BEAMED STRUCTURE.						
	MIND APPLD dated minocontrol	flooris 340m	125.60	Som	20085 90	22342519		
1	1/1	MILPORTON	- Investor	100	1-74000	3.5000000000000000000000000000000000000		
	181	Goor ht. Lattra	51/03	Som	SERRE	4,50,069.00		
-	-	Your Building Cost	-00000	100	1.4	10,45,625.00	9.60	8.00
-	1.0	DYRW FOR			[4]	30/05/642768	2,141	0.00
,	134	Dony fill not desper frontistion over across depth of 1.58 nor- long shoot floor area only) (for 1.50 m, depth - [12.3-1.2] (1.24-200)	17510	Som	20.01	35,000,007		
						35,000,00	0.00	8.10
-	-	TOTAL-A(CIVIL WORK)				30,40,425,80	0.00	0.10
	15	INTERNATIVE.				CONTRACTOR OF THE PARTY OF THE		10000
4	1.52	Son accessor System	125.84	Signi	408.01		56,900.00	
40		TOTAL RIFER FIGHTINGS		-	0.000	6088	50,000.88	8.96
	1.6	FIRE ALARM SYSTEM			22	-		
	142	Sutton at to Pine Alberto Systems	175.61	Sign	40.41			.75,000.00
	2.0	TOTAL CITTE ALARM SESTEMS	-	-		0.91	9,00	75,000,00
6	21	Internal Water Separate & Sanitary Installations	980591500		4%	-	1,21,22569	
7	23	Interval effectes testaffahan	33,051,33.00	-	12.8%		Tingenter.	3.75 700 0
100	-86	TOTAL B (REDYCES)		-	36,979	0.00	1,70,225.00	4.50,703.1
		TOTAL GOOD AS FER UPWE PLINTIL ARRANGET LA-ES				20,000,000		SALANIE I
		TOTAL COST OF 1 BUILDING			17.5		2	20,01,1333
-						Sty Fa.	9.17	Greek
=		COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING. WORRS / STATUTURY CINERALS	- 8		ý-			
4	221	Onstrical External Service Connections	30,05635.00		3.75%		9	1,12,710.9
9	223	Local hedy approveds including tree ratting etc.	33,05,635.00	- 1	1.2.5%			37,570.31
	2000	10000-0	200000000000000000000000000000000000000		100000		2 2	1.50281.2
		TOTAL COST OF 1 SUBJUNE						8.50,281.2
1		7	3		1/	Sup Ku.	9.02	Grece

4	1	0
_		ૅ≺
-	_	$\boldsymbol{\smile}$

		WATCH TOWER-	10 Nos.					
		No. of Staropy		10	Name and Address of the Owner, where			
		Total Conversed Area	* * * * * * * * * * * * * * * * * * * *	50.00	See	0. 3		
		Ground Goycood Arma	411	50.00	State	1		
		Floor Height Typical	- 4.0	6.00	Hite			
		Plinth Height	-1410	0.63	Hir			
S.No.	Ref PAR 2021 items	Description	Ares	Unit	Rate	- 8	Amount (in 8s.)	
			- 3			Civil	PIL AZE	Electrical
1	1.0	BUILDING COST (Specifications as per Amercure-1)	7			4		
1	1.3	CTILL PORTION	1,1					
9-3	1.01	Floer lit, 1.60 m.	\$11.00	Sign		4,29,000.00		
	0.000	Total Duilding Ceek	- 10		[4]	4,20,000.00	0.00	0.00
2	182	EXTRAS FOR Dvery 0 Just additional height of asmual floor higher of 3 dileta	\$0.00	Sun	1,500,00	96.000.00		
*:	142	(for extra 6.0 m., 16.0-3x0/0.2x370)	50.60	Squ	790676	96,000.09		
2	13/6	Every 0.3 soft deeper from Latinu over curroual depth of 1.50 unit (on proceed floor over only) (for 1.50 is death - [1.5-1.2]/133(200)	50.00	Squ	200,00	10,000.00		
7 0					-	10,000,01	0.00	0.00
9 3	- 000	TOTAL-A (CIVIL WORK)	- 60			5,10,000.00	0.00	0.00
	2,4	SERVICES	LINKWA IS		N. Carlo			4 10 1000
4	2.7	Internal electric installations	4.59,000,65	- %	12.9%			52,500.00
		EXTRAFOR	200			1	_	
3	2.4.2	Lightning combactures	422,000.00	30	9.25%	0.20	-	1,058,00
	100000	TOTAL - B SERVICEQ TOTAL COST AS PER CPWD PLINTH AREA RATE (A+E)	SECONDINE.		SAMORE	5.10.000.00	0.00	51,550.00
-	-	TOTAL COST OF HULLION:	_	_		A 19 Minute	0.00	53,550,00
		TOTAL SINT OF BUILDING				Say Bs.	8.86	SAXSSOA Crore
31		COST OF PRE-CONSTRUCTION ACTIVITIES AND ENABLING WORKS / STATUTORY CHARGES						
6	2.2.1	Electrical External Service Connections	4,10,000.00	20	3.75%			15,750.00
7	223	Local body approvels including tree rutting etc.	430,000,00	36	1,25%			5,250,01
		TOTAL-0			17			21,000.00
1			100		1	Say Ba.	0.00	Crore.

		FIRE STATION	WITH BA	RRAC	K			
	()	Disc of Strongs	- 6	E+1	17.	A		1
		SetalCovered favor	-	350.00	Som			
		Granad Covered Area	-	175.00	Signa			.0
	1	Floor Height Typical	0.1	4.20	Mtr			
_	STREET, SQUARE,	Plurch Height	-	0.60	Mir			_
Site.	Rei PAR 2021 Hem	Description	Area	Tuit	Rate		Amount (in 8s.)	
	Acres 1000	The second second				(5)(3)	PHAFF	Hostrical
ı	1.0	BUILDING COST Expecifications as per Announce-1)						
1	office meters and an from APAD	все, неамен эткистине Epito Three Skrieys)						
	664 81832822	Hoor in 3.40 m.	200.00	Sym	30 605/00	72,91,710,00		
3	(2)	Total finilding Cost			Isl	72,39,750.00	8.00	0.86
	LI	EXTRAS FOR		8	-			
2	132	Every Other additional bright of normal flow higher of 1500s for estra-time, (+2-2 s)/0.350706	350.00	Sqia	74000	2,59,000,03		
1	134	Every 0.5 not riceper fearch that over named depth of 0.50 not (an ground floor area wily). But 1.50 nodespth - (1.5-1.21/0.3h.200)	37546	Sgra	200.00	37/04000		
	13.5	Making stronger immediations to take lived of one attributed floor of a later data (on present) floor area auto)	17500	Sym	1646.00	2,80,000.03		
						5,74,000.00	6.00	0.90
11 1		TOTAL A (CHIL WORR)	-			78,83,798,00	6.00	0.96
	151	FIRE HEATING With yest sizer and nutrickler review	250.00	Scient	1200.00	-	420,000,000	-
1100		TOTAL-R (FIREFIGHTING)		300	1249.00	0.03	425,000,00	0.80
	1.0	FIRE ALARM SYSTEM						
6	163	Autoritals: Fire Alarm System	358.00	Sea	640,00			2.10,000.0
		TOTAL CORREALARM SYSTEM)			200	6.03	8.00	2,10,000.0
11111	2.0	SERVICES	Cold to the				-0.2007/2004	
2	- 61	Internal Water Supply & Southery Installations	72,19750.88	- 5	- 53		2/25,550.00	10010000
В	23	Internal electric restallations EXTRA FOR	72,7975138	16	12.5%	_	-	904,968.7
- 14	141	Power winted and place	72,39790.04	15	40%	_	-	2,00,500,00
10	142	Lightning conductors	72,39,750.86	16	0.35%			18059.38
11	143	Telephone conduits	713975186	. %	0.15%	Construction Co.	- 25-5-10-168 ²	1809939
17.75		TOTAL-D SERVICES	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner	2000 L	3,500,000	6.03	2,89,510.00	12,30,757.0
	3.6	WATER TANK [ROCERLY]				100000000000000000000000000000000000000		POR BUREAUST
12	3.1	Overhead task without in Expendent staging	25000	Liter	30		00,000,002	
_		TOTAL S (WATER TANK)				24 43 224 00	12.05.570.00	14.40,757.5
_	_	THITM, COST AS PER (PWD PLINTHAREA BATE (A+R+C) TOTAL CHIT OF HILLBAG			-	Safeti Sagette	120FCS/BUR	104,44,097.
		TOTAL SHET OF MULLERS				Say Ru.	1.05	Grere
		COST OF PILE CONSTRUCTION ACTUSTICS AND DVARLING WORRS / STATUTORY CHARGES			i Sanna			Town or server
13	221	Electrical Esternal Service Connections	71,39,750.04	16	3.75%			271,490.6
14	123	Local body approvals including tree nutting etc.	7239,750.00	*	125%			99,416.88
		TOTAL-II			-0.	15 15		3,61,987.5
_			-	-		Say Rx.	0.04	Crarel

4	4	4
1	1	4

		ATM						
	1	No. of Storeys		45	and the same			
		Total Covered Area	- + -	15,00	Sque	0.5		
		Ground Governed Area		15.00	Sqin			
		Floor Height Typical	-	3.60	Mb:) = 2	
-		Plinth Height		0.60	Mir	5	1	
No.	Ref PAR 2021 illom	Description	Aren	Unit	Rate		Amount (to Rs.)	
						Civil	PILARE	Electrical
1	1.0	BUILDING COST (Specifications as per Annessure- I)						
1	Office nemorantias inst/PND dated	RCC FRAMED STRUCTURE (Upto Three Storage)						
	0501.2022	Recrat 380 m.	15.00	Spr	20603.00	310,275.00		1204
	Contract Contract	Total Building Cost		200	141	3.10,275.00	9.00	0.00
	1.3	EXTRAS FOR			- 01	CONTRACTOR OF	70.100	
2	12.2	twey 2.3 of additional beight of permat therebigher of 1 Obs (for even 2.6 m., [3.6-3.0]/0.3x370]	11.00	Squ	748.00	11,160.00		
3	13.4	Story 0.3mfr deeper foundation over normal depth of 1.50 mfr (on ground floor area only) (for 1.50 m depth: (1.5-1.2) (0.35:200)	1530	Syn	200.00	1,000.00		
						14.100.00	0.00	0.00
		TOTAL A (CIVE WORK)	9			1,24,375.00	0.00	0.00
4	2.9	SERVICES	215 200 100	-	12.5%			38,79438
•	24	Internal electric partallations OXTRA FOR	310,27500	-3-	14.5%		_	36,754.56
5	2.42	Lightenna conductors	\$10,27500	- %	825%	E) 6	7 19	275.69
		TOTAL® (SERVEJS)	1			0.00	0.00	19,560.07
=		TOTAL COST AS PER SPWD PLINTH AREA BATE (A+B)				1,24,375.00	0.0.0	24,566,87
	0	TOTAL COST OF BUILDING					ST. 22.54	3,63,915.0
_	23	John St. Harden Commission				Say Hs.	11.01	Crem
II.		COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING MODES / STATUTORY CHARGES						
6	724	Electrical External Service Connections	9,10,275.00	. 16	175%	3 3		31,635.0
7.	223	Local healy approvate including two cetting etc.	2,10,27510	- 14	125%	85 3	(a)	3L87B.4
		TOTAL-II		11			(6500)	15,514.7
			3 4	3 37		Say lis.	9.00	Craire.

		CONTROL	ROOM					
		Nic. of Stores's		6.		(d)		ė.
		Total Covered Jena	- 4	5000	Squ			
		Ground Covered Asea	- 1	5000	5199			
		Floor Height Typical	-	350	Mit			
3		Plinthilleight	-	0.60	Mtr.			
S.No.	RefPAR 2021 item	Description	den	Unix	Retr		Amount (In Rs.)	
		White the second			3)	Civil	PEAFF	Hectrical
1	1.0	BUILDING COST						
_	-	(Specifications as per Annexore: ()			-			
1	Other	RICC FRAMED STRUCTURE	1					
2	anacadus.	(Ripto Three Storoys)						_
	form news	and the second		360				
	Material W101 2022	Floris, 3,07 m.	50,00	Sign	20685.00	19,34258,00		l.
_	7.107.200	Total Ball Handball	_		Dil.	10:34.250.00	6,00	0.00
_	1.8	Total Stabling Cod	_	_		107-34-52-30-10	1000	3000
_	N	Every 0.3 at additional height of normal floor higher of 3.00m				-	_	
2	13.2	[for exchange the large of the	50.00	Squ	740.00	37,000.00		
		Every 0.3 mTr desput formulation over narran I death of 1.50 mTr		-	-			-
3	13.6	(in ground floor area ordy)	50.00	Squ	200.00	10000000		
	Carson .	(for 1.50 m depth -(1.5-7.25/0.9);2001	Juneamen J.	A-F-SA	Common		000000	5-01225-
						47,800,80	0.00	6.00
		TOTAL A ICINE WORK)			2	10,81,250.00	0.00	0.20
d	2.0	SERVICES					SY	10000
4	2.1	Internal Wigter Samply & Southern Installations	10,24,351.00	16	4%	1/1	41,379,09	
5	7.3	Internal electric just ellettern	10,84,75140	. %	127%			1,29,381.2
	2.6	EXTRA FOR				0.5		
6	24.2	Lightning conductors	10,34,250.00	- %	0.25%	2012/03/04/04	Vicinity of the	2,585.63
2000.0		TOTAL # (SERVICES)	Contractor		CONTRACT OF		41,370.00	
_		TOTAL COST AS PER CPMB PLINTH AREA BATE [A+B]			1	10,81,250.00	41,770.00	
_		TUTAL COST OF BUILDING			-			12,54,486.8
						Say Rs.	6.13	Centra
LP I	-	COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING	-	-			_	_
11		WORKS / STATUTORY CHARGES						
7	221	Electrical Estornal Service Connections	10,34,250.60	1.50	3.76%	(T		98,784.50
- 8	123	Lecal body approvabinchading tree satting etc.	10,34,251.00	16	125%	S 61		12,928.13
		TUTALS			4	10		31,712.51
						Say Ry.	0.01	Crore .

	1	1	
_	L	_	-

		SED CONSTRUCTION OF POLICE CAN CLASS ROOM BLOCK	-	THE OWNER OF TAXABLE PARTY.	-	_		
		Max of Storage	WITHCO	E+1	ERLA	1		
-		Total Crivered Area		700.00	No.	100		
-	_	Count Covered Area		330.00		-		
-	_	Section Control Contro		4.20	500	-		_
		Floor Height Typical Plant Nooder		0.60	990	1		_
-	Ref PAR	Place Dougla		0.66	880			_
Jie.	2021 Item	Docription	Area	Test	Rute		(in its.)	
155						Chril	PHART	Dectrical
1	1.0	Specifications as per Assessors-D				12-11/1-52	(0)(0)(1)	31.97.163.E.
3	Titles remembed in	RCC PRAMED STRUCTURE (Upte Three Screye)						
02.1	Have compass	Place ht. 3.66 ra.	796.90	Signs	59 69 2,00	144,79,800.00		
1111		Total Building Cost			140	14679,580,09	1.00	0.96
11.	1.3	EXTRAS FOR						
2	13.2	Svery 0.2 of additional begint of annual floor higher of 160 o for extra 4.2 or .14.2.0.61/1.3 of 61	796.80	Som	74109	EDDOORIZ		
1	13.4	Every 0. But 1 desper family time ever normal depth of 1.26 sets (as ground feor area only). For 1.50 as depth 11.5-1.210.3 h;200:	356.30	Sign	280.0+	79,004.00		
4	135	Making stronger borni atlans to take heat above a killianal Book at a later data ion present dear an acade)	356.80	Sgra	1800.00	5,00,000.03		
						11,18,000.00	8.00	0.00
931.	100	TOTAL & JUNU, WORK!			0.00	156,27,580,00	8.06	0.99
	1.5	RIBE FIGHTING			diam'r.	1100100100000	200 mg	
1	1.53	Milk set race and qualishter to soon.	799.90	Tops	1,200,00		E 40,000.00	
		TOTAL REPRESENTING				0.00	11407990166	0.98
6	162	Internal Principles	790.00	Som	500.00			\$20,000.00
-	104	YOUNG (PINEALAN SANTAN)		-300	140.04	6.99	8.00	4,260,000,00
-	20	GRIVEIX						
1	2.1	Internal Water Sepale & Septemy Installations	544,79300.00	16.	876	1.0	179,190.00	
	2.3	internal electric installations	144,79,500.04	36	125%	Z1		18(09:907.50
3.2	. 24	EXTRA FUR			25.5	.5 6		3.77.119.69
9	241	Ponest address and a bios	144,79,590,64		43%	25		\$9.081,PT2
10	142	Uplicing conductors:	144,79,530.04	*	0.25%	1.5		36,156.71
21	143	Erichise consists	144,79,500.08		0.25%		F Street Williams	36,156.75
-	8.0	TOTAL D DESWIES				0.99	5,79,180.00	24.61,515.0
12	31	SEATOR TANK (BOC ONLY) Decrined hads will and product shadour	25000	18er	20		. 800,000,00	
-		TOTAL-E (WATER TANK)		1000	- 00	0.49	5,00,000,00	0.96
12.00		DOTAL COST AS PER CHWIP PLINTH AREA BAYE (A+0+C+)				156,27,500,00		2001.515.00
-3-	- 0	TOTAL COST OF BUILDING					0.000	284,28,105.3
000						Say Ris.	2.04	Linere
	- 0		7				10000x 0	100000
п	5.1	COSE OF THE CONSTRUCTION ACTIVITIES AND		1 1	48 at 1	8 30	- 5	V.
-		DOMESTING WORRS / XTATUTOST LITARIES		-	2.000			
13	121	Hectrical External Service Connections	144,79,500.00	. %	3.79%			5,12,981,25
14	229	Local body approvals including tree catting etc.	14(19,500.00	36	1.25%			1,80,993.75
100		TOTAL-II		1				7,23,875,00
100		50045100				Say Rs.	0.07	Crare

		INDOOR SPORTS	COMPLEX	WIT	H GYM			
80		No. of Storeys		Set.				
10	-	Total Covered Area	40.00	89000	Squ			
O)		Ground Greened Area	-	40000	Squ			
		Floor Height Typical	-	4.20	Mtr.			1
100		rlinh Height	-	Hab.	MIT.			
SN A	Ref PAR 2021	Description	Area	Unit	Barto		(In Rs.)	
08		Annual Marian				Civil	PERSON	Hestrical
1	1.0	HIRLIANG COST (Specifications as per Annexus + 1)				300	environsen.	1 Vibbosi-1
1	Office memoranda m Com-	RCC PRANKED STRUCTURE (Ulada Those Storege)						
		Mearlet 550 m.	menn	Sgr	20685300	145,90,001.00		
-	1.3	Total Building Cost.			lei.	165,48,000.00	0.04	0,00
2	13.2	DATES FOR There (Liber additional length of normal floor higher of Li-fen. (the cours A.I.m., (42-3.0) 9-3-670)	886,00	Squ	748.00	2,92,000,00		
9	1.84	Free; 0.3cts (reperSambation over normal depth of 1.56 nots (on ground floor sera coly) (for 1.56 m depth - [1.5-1.2], 0.3(4))	400,00	5 gu	209.30	88000.R)		
	135	Making stronger foundations to take load of one arkiteinad floor at a later date (on ground floor area only)	400,00	Sgu	1620,10	6,41,00100		1
_						13,12,001.00	0.00	0.00
1333	1.5	FREFIGETING TOTAL A (CIVIL IN ORIG)				17860,000.00	0.66	0.00
+	155	With well their and sprinkler stoken	100.00	San	1200.00		9,60,000,00	_
100		CARTINGS SHEEP-TATOT	-	Discussion.	STATE OF THE PARTY OF	0.00	9,64,003,60	0.00
	1.6	FIRE ALASM SYSTEM					Heat-man	1700
6	1.6.7	Antiocatic Fire Alarm System	300,00	Signs	601.00			4.85,000.00
US.		TUTAL-CATHERALARM SYSTEMS				8.00	0.00	4,30,000,00
-	2.8	SERVICES	BARCESTANIA.			111744	Control of the contro	
0	23	Internal Maker Supply & Societary Instalkeisen. Internal electric destablations	165,40,000,00 165,48,000,00	7	12.5%		6/41/92020	20,68,500.00
0.	2.4	EXTRA FOR	160,9500000	10.	12.56	-	2	202423000
0	141	Power widing and plage	165,49,000.00	16	489			661,920.00
12	2.12	Melague anduten	165,91000.00	140	0.23%			41,870,06
11	2.43	Telephone conduits	165,43,000,00	- 56	0.276	d court S	Janes e se	41,370.00
1935	-	TOTAL-DESERVICING			PARK NEW	8.00	6,11,920.00	28,15,166,0
12	3.1	WATER TRANSPORT ONLY) Crushealters without independent stacket TOTAL 1 (WATER TANK)	25000	Lite	20	0.00	\$60,000,00 \$60,000,00	0.00
		TOTAL COST AS PER CHWILDLISTH AREA RATE (A-B-C- TOTAL COST OF MULLIONS				178,60,000.00		
						Say Ro.	2.33	Onere
11	Leaving 8	COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLEMS WORKS / STATE TORY CHARGES		vous	02504			/ 1000 DE 100
13	221	Electrical External Service Connections	165,49,000,00	96	3.75%	1 1		6,20,550,00
18	2.23	Local body approvals including tree cutting etc.	165,48,000.00	9	1.29%			2,06,850.01
80		TOTALAL		- 8	8			8,27,400.01
						Say Ba.	0.08	Greent

30	7
U	, ,

		PRIMA	RY SCHOOL	L				
-		Fig. of Starepa	1 - 5 - 1	-0			0	17
		Total Greened Area	11 19 1	560.01	501			
- 22		Ground Covered Area		560.00	1.5gm			6
- 1		Bloom Height Typical	- 4	4.20	Min			
		Planti-Hoght	7 (4)	0.00	Mb			
i.No.	RefPAR 2021 Ben	Description	Area	Unit	Hate		Acousert. (In Rs.)	
_						Civili	PRAFF	Electrical
1	1.0	BUILDING COST (Specifications as per Americo: U						
+	Office personalists from APVD	BCC FRAMED STRUCTURE (Dylo Thron Street)						
-3	604cd 0000 2000	Rose M 1 M m.	trees	Sym	3959500	115/15/60.00		Š
- 1	27/200	Tetal the lifting Cost.			DI	115,83,600,00	1.00	0.04
	1.7	EXTRES FOR				J. 0000 1000		
4	132	Every DJack additional beight of notward from higher of 2000a Contents 3 Co. 142-245 (20020)	166.60	Spe	740.00	(51,006.00		
3	134	Borry is Brutt deeper foundation over normal depth of it 50 rate (or ground floor area only) (for 1.50 m depth / 1.51.210.001/01)	teacons	Sign.	200.00	12230030		
4	155	Philosop stronger freestritunatio take had of one odditte sall flace at a later date jon ground flow area only)	560.00	Spe	1688.00	NOTICE OF	Sex S	\$ 5500
						14,27,408.00	1.00	0.04
		TOTAL A JUNE WORKS				136.86,600,90	1.00	0000
-	1.5	FIRE RIGHTING	isani		40000		2.24000.00	
3.	2.5.1	Dewnster System TOTAL REFERENCES		>qa	400.00	0.04	2,24,000.00	0.04
	Lô						-	5 9000
-	167	Automatia Pero Acures Septiens	160.00	Tire.	600.00			2225,000,00
		Advanta For Alexa Indian TOTAL C (FIRE ALARM SESTEM)	11			9.00	8.00	3,36,890.60
	350					3	3.000.00	2
7	21	Internal WeberSough: A Santacy DataBations	DESCRIPTION	%	-8%		4,63311103	-
15	7-7	becod decid ratio face	115304400	71	12,5%			14,4595030
4	24	ENTRA FOR The or we may analysis	111.35568.00	71	UPs	-		10324110
10	242	Oglering resolution	115,83(60100)	20	0.25%	-		25,759.90
11	443	History contain	115.0000.00	71	6,235		Contract of the Contract of th	20,700.00
100		THALDISONOS	PERSONAL PROPERTY.		10000000	0.04	4,633344.88	15,69,212,68
	3.0	WATER TANKENGLONLY!						
11	31	Overhead tank without independent staging	9290	Liver	26	7///	\$1,06000030	
		TOTAL E PARTIE TANKS				0.00	1,00,010.00	
		TOTAL COST AS PER OPHIS PLANTE MILE ENTER 4+8+C+ TOTAL COST OF BRELIENC	PE)			138.86,690.00	Y87,341.86	160,98,556.00
			J1 - 17			Say Rx.	144	Crere
11		COST OF PRE COASTRUCTION ACTIVITIES AND INABLING WORKS / SEATSTORY CHARGES						
13.	221	Electrical Enternal Service Learnections	135.83.66.800	90	3.55%			4,34,385.00
14	223	Localhody approvals including two outling etc.	11583,640.00	91	1.25%			1,44,795,00
		TOTAL-II		_	-		S 15	5,79,100.00
_			74 102	1 7	()	See Ro.	0.00	Crore

		FAMILY WE	LFARE CE	VIER				
-7		Fo. ofStareps		-63			0	
		Total Greened Area	11 19 1	90000	501			
- 22		Consul Covered Area		50000	1.5gn			
1.5		Bloom Height Typical		4.30	Min		4	
		Plantificight	1 14 1	11.66	Mb			
S.No.	Ref PAR 2021 Ress	Description	Area	Unit	Hate		American (In Re.)	
		X				Civil	PR AFF	Electrical
.1	1.0	BUILDING COST Expecifications as per Ameriure: IJ						
1	(Since SCHOOL STATE	BLC PEANED STORETURE (Upto These Storem)						
	Son APPED Solved 00001-2023	Hook M. 3.68 m.	100.00	Squ	1060510	181,42,500,00		
		Total Hariding Cost			DI	103,12,500,00	8,60	0.06
	13	EXTRES FOR	JE - 700			3		2:
¥	132	Breey films additional beight of mound foot higher of \$60m (for core 4.2 m. 143-2.5) (63-270)	300.00	Squ	740.00	170,000		
9	E0.4	Hvery 9.3 to be deeper foundation over turns of depth of 1.50 star (see ground floor area only) (for 1.50 m depth (1.5.1.2 (5.3%)))	300.00	Spe	200.66	1,00,000,00		ì
+	125	Ploting stronger trends time to bete lead of our with tread floor at a later date (on ground floor area only)	100.00	300	1680.00	EX.100.00		č.
_				_	_	12,79,998.00	6.00	0.04
-	1.5	PREFERENCE TOTAL ALLIVE WORKS	-			1196.12.1000,000	1.00	0.04
1	151	Dewastanie Spelien	500.00	Sim	400.66		2.00000034	75
		TOTAL B (FEIL PERTING)		-	- Terror	0.00	1,00,000,00	0.04
77.		FIRE ALARM SESTEM						Secret Annual
- fit	16.2	Andonastic Flow Alletto Society	100.00	Sign	9000	2 0500	COUNTY 1	SUBSERVED STREET
100		TOTAL-CIFIRE AGARM STRUMT	2012/01/5	7000	100000	0.00	1.00	3,66860,60
3	2.0	SERVICES Internal Water Supplied Societies (Installations	103.4238400	76	-86		4.12700.03	
8	33	Internal clarks: best datum	153.12.588.00	91	12.5%		4.14.00.09	11/00/817/91
12.		EXTRA FOR	Local Control	- 17	0.000		7	VOICE X (X)
W.	24	Fourtraining and plags	113.42,501.00	91	4.0%			413,79030
10	2.4.2	Dalvining renderism	183,42,50100	%	0.25%	8	()	25,656.25
11	233	Tel-sphone conductor	101.6230400	71	6.20%		-	23,856,25
_	3.0	WATER TANK (BLC ONLY)				6.04	4,13,798.86	17,59,225,08
17	71	Overhead hash veithors i poliqueade at shaping	5393	Litter	76	_	1,06000018	-
	- 11	TOTAL E (WATER TORK)		Lang	-	0.00	1,00,000.00	0.04
=		TOTAL COST AS THE CHILD PLAN OF A SATE (A SHICL) TOTAL COST OF HISLING				116.77 500,007	7,13,788.88	78,58,275,84 143,84,425,0
		The Annual Medical Control	1/2	- 7		Say Sa.	13.00	Crare
11		CRET OF PICCOASTRUCTION ACTIVITIES AND ENABLING WORKS / IT ATTITUDE CHANGES	and was					
13.	221	Block had Between difference Commentions	153,4239 800	77	8.76%		× -	3,47,613,75
14	223	Local hody approvals including two outling etc.	103/42/581400	*	1.25%			1.29.201.25
		II-JATOT				K		5.17.125.00
					1	Say Hs.	0.255	Crece

		NAAM	GHAR						
		No. of Storwys	-	- 6					
		Total Covered Area	100	300.00	594		2 2		
		Ground Greened Area		100.50	High-				
		Floor Height Typical	100	4.20	Mir			0	
-	1 5	Plantingle	- 6 -	0.68	Mit				
S.No.	Beffar 2921 Sem	Description	Area	ttell	Rote	Amount (In Re.)			
					-	Geil	PHARV	Electrical	
-	44	DUILDING COST							
1	1.0	(Specifications as per Annesure-1)					(i)	0 0	
1	Office	RCC/BANED STRUCTURE.							
1	accessed as	(Upto These Steern)						0	
	diesi consulta	Flour M. 240 m.	301/0	Sgrie	29685.00	62,15,500,00			
-	101111111111111111111111111111111111111	Total Building Cost			Sell	62/85/508.00	8.00	0.00	
	1.2	EXCRAS HOR				AMERICA STATE	200	500	
:	1.32	Every 0.341 abbitual leght of menud for legher of 3.050 (become 1.2 or, (4.2.343,0.3670)	300.00	Ngia	740.00	2,22,000.00			
3	1.34	Every 6.264r deeper konstation over normal depth of 1.50 note (on ground floor are a role) (for 1.50 in death of 1.5-1.71 (to the 201)	100.00	Sun	200.00	20,668,30			
4	135	Making stronger translations to take head of one satisfacend. Source a later date (encouncil foor area coly)	109.00	Syn	1009.00	1,69,000,90			
_		ACCUPATION OF THE PROPERTY OF				9.82.000,00	1.05	6.00	
-	Continue of the	TOTAL A (CIVIL WORK)			100	86,07,599,00	3.00	0.00	
-	1.1	PREPRETING		1	-		-	0.00	
\$	1.51	Downcomer System	300.08	Sgn	469,00		1,20,060,00		
0_		TITAL-BIRBERGETRIC		100		0.00	130,000,00	0.00	
_	1.6	FIRE ALARM SYSTEM	300109	-				**********	
fi.	142	Automatic Fire classe System. TOTAL CORREALARM SYSTEM:	30,61,00	.399	MORE	8.00	3.00	1,00000.00	
-	2.6	SERVICES			-	0.04	244	TOTO STATE	
T.	11	Internal Video Supply & Sandary Installations	42.05/30930	- %	486		2.46.230.00		
В.	3.9	before all electric lead at latters	42.05,500 pp	- 16	12.5%		S. Francisco	2.75.607.90	
-	2.4	EXTRA FOR	-	0.710	-				
9	2.41	Prover winter and place	62,03,500,00	36	+.0%			2.48,224,00	
10	242	Lieftming conductors	62,05,509,09	. %	0.25%			35.513.75	
11.	243	Telephone conducts:	62,01,000.00	. %	0.25%			15,313,75	
	1000	TUTAL BESETVICES				D.00	2.4E,22000	10.54395.00	
-	3.6	WATER TANK (BOC ONLY)		-		0.7.00		2.00.00	
12	3.5	Description officed in reproduct display	3000	Lite	20		1,00,000.00	640	
-	_	TOTAL GRET AS FEE CHAD FLORES AREA WATE (ALBECT		-	-	66,07,589.20			
-		TOTAL COST OF BUILDING	Print.			HWW. CORKER	100,22000	23,10,655,00	
		TOTAL COST OF MICHIGAN				Sec No.	AMI	Dere	
	38			0 ==		2000	3.450.457	7000	
11	1	COSY OF PER LONG TRULT FOR ACTIVITIES AND					1 1	3	
		DIAMEING WORKS / STATUTURY CHARGES	-					-	
17	721	Destrical Courted Service Connections	4507,200,00	- %	3.77%			2,12706.35	
11	823	Local hody approveds including tree setting etc.	41.05,500.00	%	1.20%			27,560.75	
0	100	TOTAL-II			- 0			3,13,275.00	
				S	-	Say Ric	0.03	Crore	

		RECREAT	TON HALI						
		No. of Storeys	- 0	公事会			100	0==	
		Total Concred forto		466 (8)	STOR			7	
		Ground Environ Stea	11.00	406 701	Som I		9-1	-	
		Floor Height Typical	- 4	4,20	Mir				
	0	PReth Height		0.60	F631-		or a	10	
S.Mn.	BeffAR 1021 item	Description	Area	Unit	Rate		Aressant (Ds Rs.)		
				-		Civili	PHAFE	Electrical	
1.	3.0	BURDING COST (Specifications as per American 1)				200	Tillett	Aprilatives	
1	netoorindes from NYO	accreamen sinocrone (Lipio Three Sursyn)							
	Article casessore	Floer HL 160 m.	400 30	See	20926.00	EZ,T480000	ą.	Ų.	
		Twist Bridge Cost		0.00	Tel.	82,74,006.00	- 0.00	6.00	
	1,1	EXTRAS FOR		200			27 101 011	-	
1	132	Over Clast additional height of cortain floor higher of 240s (fercetted 2 is 1423-6402s)(1)	690.00	Sea	74010	296466.00			
1	134	Every 6.3m trid open kombation overnammal shipth of 1.50 (at 150 ground floor area only). (for 1.50 m depth of 1.5-1.21/0.3in 2008)	+90.00	Sea	20030	00.06140			
	125	Making stronger feredictions to take load of one with total floor at a later date (on propositions area patri	AND IN	Spe	tratte	540,000.00	11	3	
_		NAME AND ADDRESS OF THE PARTY O				18,16,038.80	0.00	4.00	
_		FIRE STOPPING			-	92,90,004.00	0.00	0.00	
	151	Controper System	40010	Sele	400.90		1,02,000,00		
-		TOTAL STREET STREET		-		0.00	3,08,818.00	4.00	
	1.6	FIREALARM RISTIM	100,000			-	-	71100000	
6.	1.67	Asturactic Fire Alacse System	400.00	See	600.88		7.5	2.40,000.00	
		TOTAL C (FIRE ALARM STETEN)				4.01	0.00	2,46,000.0	
_	2,8	apmas	-	-			-	-	
7	21	Internal Mater Supply & Society Tretal Internal	8274,004.03	16.	7%		3,86,960.00		
6	21	Internal electric matafletace EXTRA FOR	0274,000.03	16.	12.5%			10/34/2308	
	242	Power withing and plays	10279/004200	- 9	46%		7.	4,30,760.00	
10	2.12	Codingsonialities	H274.064.09	16	0.25%		-	20,665,00	
11	2.43	Telephone conduits	10274-003-09	14	0.25%	0.355	Division of	20,985.69	
55/53		TOTAL-D (SERVICES)	CHURCHSTANT	17.00	1000	0.01	3,38,868.00	14,06,300,0	
	1.2	WATER TANK (RECORES)							
H.	35	Drede adduct without radioned and above.	\$300	LBC	- 21		1,00,800,00	-	
		TOTAL F I WATER TOAK! TOTAL COST AS FEE COWN PLINTS AND MAIL DARROWS. TOTAL COST OF RELIGIONS.	D+E3			9,00 12,90,004.00	1,01,909.00 5,94,968.00	15,46,200.6 15,25,540.6	
	4	100000000000000000000000000000000000000		-	- 37	See No.	1.15	Onre	
-							-		
*		COST OF PRE CONSTRUCTION ACTIVITIES AND INVALUNG WITHINS / STABLITERY (MARKES							
11	221	(Destrical External Service Connections	027400404	- 16	3,75%		-	5,59,275,00	
14	223	Local body approvale including tree cutting etc.	H2,74,030.00	4	1.25%			1,03,425,0	
		TOTAL-II				- 10	55000	4,13,700.0	
				47 7		May No.	9.64	Cease	

A	1	\mathbf{O}
_	_	X
-		

		C.O'S RESIDEN	CE-1 BLC	CKS				
		No. of Starrys :		C+1				
		Total Governd Area	1 1	230.00	Squ	0.		
		Ground Covered Area	-	12500	Spin.			
	H.	Floor Height Typical	1 2 7	-3.30	100	(1)	2	
	2	Platti Height		0.68	bbs			_
S.Ne.	Bef FAR 2021 ibem	Description	Area	Trit	Rate		Amount (la Re.)	
						tivil	PHARF	Electrical
1	1.0	BUILDING COST (Specifications as per American-1)	8 9					
1	Other removarion	DESTRUMENTAL STRUCTURE						
	Stree APWTO vlave streets	Disorbit 100 m.	25000	tops	20645 80	51,71,280.00		
	25	Total Building Cost	St. 1		[4]	SE71.258.80	0.00	0.00
	1.1	EX BAS FOR	S)		100	-	7	
1	132	Svey films additional bright of normal their higher of 3,00m (fercetta 3,5 m., (3,3-3,00,0,3:476)	29800	Spin	37609	92,500.00		
2	134	Dvery 0.3 methodogue from fattion over morn all depth of 1.50 methodogues from measurably (for 1.50 methodogues). 51.51.21/0.21/2011	11500	Squ	201.00	25,000.00		
4.	133	Misking stranger form-hatisen to take hand of our sciellinused thour at a labor chair (on recognil floor area only)	12500	Spa	1600.00	2,00,006.00		
		27				3.17,500.00	0.00	0,00
	10000	TOTAL-A (CIVIL WORK)			7	\$4,80,750.00	0.00	0.00
-	151	OBLEGATING	25900	Sora	40.09	-	1.0100004	-
		Document Statem TOTAL BUTCH FIGHTING	42000	203	4337	0.50	1,00,000.00	0.00
800	1.62	PIRE ALARM SYSTEM Automatic Fire Alarm System	25000	Serve	000.00			1,50000.00
-	1.04	TOTAL-C #- BEALARM SISTEM		- 201	18/1/07	0.00	0.00	1,54,000,00
_	3.0	NUMBER OF THE PARTY OF THE PART				10.00	240	A. St. Allendar
	21	Saturnal Water Saugh, & Smittery Saturitations	\$1,71,250.00	16.	. 0%		445.48259	
11.		fatornal electric installations	\$1,71,250.06	- 56	12.5%			6,46,486.25
9	2.4	BIT ART XS	18000000	100				1000
10	2.41	Poyor witing and alkan	\$1,71,250,00 \$1,71,260,00	- 5	0.25%		_	2,06850 sti - 12539 sti
H	2.43	Eighteing / audorium Telephone conduits	\$1,71,250.00	- 50	0.25%			12528.53
-	4.47	TOTAL DESERVICES	ALC: Name of	-	0.427	0.00	4,05,612.50	
	3.0	WALER TANK (ROCONLY)	100000000000000000000000000000000000000		1000		-	-
12.	2.5	Overhead task without independent studing	2010	Silver	20	Elwin !	#4,000.6E	
25.57		TOTAL-LEWATERTANE)				0.00	40,000,00	0.00
		POTAL COST AS PER CENTER INTERMEDIATANT (INDICATE)	DHE			54,00,356.00	6,05,912.59	10.29,112.5
	-	TOTAL CEST OF BUILDING				Say Re.	931	71,23,275.0 (core
7.0	3	COST OF THE CONSTRUCTION ACTIVITIES AND	_				3	340777
31.		IDABLING WORKS / STATUTORY CHARGES						
13	2.24	Electrical External Service Connections	\$1,71,250.00	- %	3.75%			1,93,921.08
14	225	Local body approvabine trading free calling etc.	53,71,250.00	10	1,25%			61,010.83
		TOTAL-8				S		2,58,562.53
_		10000				Ser lis.	0.03	Cross

		DEPUTY COMMANDAY	NT'S RESID	ENG	-1.BL0	CRS		
		Die ofStareju	0 7	641		100		0
-41	- 3	Total Covered Avea	0.0	720.00	Sqm-	5.0		
		Strough Covered Area		260.00	Squi	- 1		0
- 11		Place Height Typical		3,390	Mi	- 13		4
-		Phinth Skeight	- 3	0.60	- Mi	< 0		10
Obs.	Ref PAR 2021 item	Description	Aron	Unit	Rote		Amount (Infla.)	
-11	-					Codi	PRAFF	Electrical
1	1.0	BIRLDING CORT (Specifications as per American II)						-
	Office principal feet from APWO	REC PLANED STRUCTURE (Cata Three Stores)						
	6104 8103.7812	Floor Int. 3 DH as.	72006	Syn	20/85/0	1,100,000		
- 6		Yeta Bullding Cost	- 0		(a)	148,93,760,00	000	1000
_	13	EXTRA FOR			-			-
2	13.7	Bory Oline additional beight of natural floor higher of Salar, Shortern Little, CLE-201 (E-1677)	720.06	Toyn.	379.80	2,64,188.89		
3	124	Brisey K. hart deeper formstation over nimitaal depth of 1.50 out (long-round floor array only). Mar 1.50 na deeth - 11.5 a. (1.9.3) (1.98)	36006	Sign	200.00	72,006.80		
+	155	Making stronger interdations to take loaded one additional floor at a long-date (on count floor are early).	FIO.DE	Sgir	3600.09	\$,56,060.00		
_		TOTAL A GIVE WOOSE		_		9,14,400.80 100,00,600.00	000	5.00
_	1.5	HRE DOPPING		-		15400000000	0.00	5.00
	1.51	Petroana in Centrus	300.00	Tip:	400.60	-	1,44300.00	
		TOTAL 0 DIRECTIONS		-	7-	109	1,44,000.00	0.00
100	Lat	HINE ALARM STRITTON	1700000		A. Santa	Z 22		
6	161	Office of the Name of Street, and the second	726.98	Syn	VER 50	101	0.00	4,12,000 so
	2.0	SERVICES						
2.	2.1	Internal Water Sounds is Vantary I adultations	14809020180	- No		C 02	13.40,189.07	
18.	23	Internal abortry installations	1481,93,200.00	36	12.5%			18/6145031
10.11	2.4	EXTRAFOR	A CHARLESTON		1000			Y SUCKE
9	241	Boyne resident and follows	140,01,200,00	30	5,0%			\$95,720,00
#	243	Lichtung conductors	149090,200,80	-	1.25%	_		17,233.80 17,233.60
-	2,463	Telegines conduits 107.81-0 (SERVELS)	14929,20090	- 70	3.23W	808	13.403(8).00	25,30,994.8
_	3.0	WATER TANK (SICC ONLY)						
17		Creshood had relieve automated states	2000	Liter	- 30		40,000,00	
		TOTAL-E (VOLTER TOOK)	2000			508	40.006.04	0.00
		TOTAL COST AS PER CPWO PLINTH AREA RATE (A+E+C) TOTAL COST OF BUILDING.	1000			128/07/40000	15.243nb.40	292,95,844,9
		0.0000000000000000000000000000000000000	3			Septic	2.03	Centy
n		FOST OF PRE-CONSTRUCTION ACTIVITIES (NO) EN MICHIG WORRS / STATUTORY CHARGES						
11	221	Dedrivel External Service formations	14859,20030	- %	3.75%	15 25		5,50,405.00
1+	22.9	tocal body approvals including tree carding etc.	140,90,200.00	10	1.25%	9		1,06,165.00
		TOTALII			2.5			7,44,660,00
_						Say Re.	0.07	CHEC

_	PROF	OSED CONSTRUCTION OF POLICE CA					ANDI, AS	SAM
_		ASSISTANT COMMANDANTS	RESIDEN	Name and Address of the Owner, where the Owner, which the Owner, where the Owner, which the	INITS	2 BLOCKS		
		Dis. of Stornys		G41				
		Tetal Covered Area	-	1204.00	300			
		Direct County Area		0000.08	Spin	15		
100	_	Florar Reight Typical:	4	3030	No	46 46	-	
	- 4	Hinthitege	-	0.00	Ma-	21 21		15
No.	Ref PAR 2021 item	Proscription	Area	ttell	Hote	1	Amount (InRs.)	
	-				7	- Livit	PHARE	Biochical
1	1,0	RUICHNC (06T Especifications as per Americane-II)			j.			
1	Office montand as from AVV D	BLC PRANSO STRUCTURE (Lipto Three Surges)						
	dated	Floor Is, 3.04 m.	121044	Spe	39005.00	149,23,000,00	-0.571	
		Total Publish Cost			- let	248,22,090.00	8.00	0.00
	1,5	RATINA FOR		3				
2	132	Recy 9.5to: additional larger of normal their logies of 500m. For extra 2.2 to 193-106/036270	1200,00	4	379.80	4,94,800,04		
3	13.4	Every 6 Such deeper foundation over normal depth of 1.50 pair (or ground floor area only); from 1.00 to death of 9.5 - 1.21 to the 200	000.00	Sem.	200,00	1,2000000		
+	13.7	Pinking circular femalistens to talo lead of one additional from or a letter data (on a considerate accounts)	600.00	Squ	1690,00	\$80,000,00		
_						T5,24,000.08	9.00	93,0
-	-	TOTAL A40V8 WORK)				2014(439.8)	9.00	0.00
-	3.5	INNE RESERVE	10000	-	-		-	_
1	133	TOTAL SCHOOL PROPERTING	1001.00	. Tax	\$00.00	0.00	2,40,899.04	0.00
-	1.6	PRINT ALABA ENTITION			-	9,00	2,4100,99,21	0,09
6	1.62	Antoniate Pay Alien feeters	1201.00	See	100.00			7,20,000.0
-	1.02	TOTAL CHINE ALARM SISTERS		-24	10.002	0.00	9.00	7,26,900.0
	2.0	NORTOS						
+	.1.1	Daterral Water Signify & Santrary But officians	24522800.68	- %	.996		72,50,000 80	
6	-22	Istand electric installations	249.22800.68		12.2%	10	***********	31.12790.0
	24.	ENTRA POR			1000			
9.0		Discornitring and plags	248;22,00000		4.0%	le (1		9,92,890.0
38.	141	Backrang roothemer	298,2489088		5.4275	.0		142,812.69
11	2.53	Telephone conduits	248/2280030	. 16	1.25%	J. 100 . 121	572335272	62,838,69
200	100000	TOTAL 9 (SURVICES)	Section 2		DVO CONTRACTOR	0.00	22/33/Weron	62,19,796.0
-	3.0	WATER TANK (BIX ONE S)			-			- A. C. C. C. C.
17	31	Contract tasks thout task packing started	24043	Liter	- 20	-	4.80X300H	
-		TOTAL E (WATCH TANK)		_	_	0,00	16021974	
-		THE STATE OF			_	203,40,000,00	24,24,000,00	
-	_	TOTAL COST OF BUILDING		-		Ser St.	142	345,59,720
						382.00		-
II		EIGHT OF PINE CONSTRUCTION ACTIVITIES AND ENABLING WORKS / STAT UTDAY CHARGES		1				
38	221	Mirelaturi External Service Corner, Bloom	248(7)(900.00		1.23%			4,30,005
14	228	Local hody approvals including tree enting etc.	2012/22/10020	16.	136%			3,10,2764
		TOTALSH			100	The second life	100000	12,41,100
		2000				Con Re	0.17	A STATE OF THE PARTY OF THE PAR

	PRO	POSED CONSTRUCTION OF POLICE (AMMANDO	BATT	ALION	AT HAILAK	ANDL ASS	AM
		INSPECTOR'S	RESIDENCE	45 U	NITS			
		(5 BLOCK- G+1 (40 UN	TS) & 1 BLO	DCK-G	+1 (5)	INITS))		
		No. of Sternish	1000	6-2				
		Tetal Course of Areca	1.0	3004.00	-5tm			
201		Cons & Coresed Area		3138.09	Squ			
600	-	Floor Hotelst Trained	100	339	He		0.00	
100		Photh Heider	7.0	0.69	Min		Commence of Commen	
5.11	Bell PAR			100000			Amount	-
5.50	23/25 these	Description	fires	Beit	Bate.		(10.36.)	
501				100		Civil	TH MIT	Electrical
15	200	BULDINGCOST		$\overline{}$	-			
1	3,4	(Specifications as per Armmuru-1)						
7.1	Office	DEC PROMIDETRUCTURE						
1	- contra							
	THE APPET	(Upto Three Stoneys)						
	Auto		0.000,000	1601	2002203	04/202011/02		
	0000.2625	Recr W. 101 m.	58000	Spe	29405.00	3219007259306		
511		Votal distilling Cost			[4]	1210.07250.00	0.00	0.00
	1.3	PT THAN I'M						
	57.61	Body Klint additional height of normal Boar Nigher of	CUSANTES	1100	51500	CONTRACTOR		
2	132	CEN	2002/00	State	\$70.00	21.64.510.03		
	10.545	Birestra33e; 0.3-28/8.3c59)	0.000	100		022000V		
		Times I had deeper fromdates over some alderfact I 50.		1.00			R 83	(a)
*	1.00	otr (ca grown) floor area soly)	31.11.60	Sen	210.00	4/CE0001031		
-		Bry Lidera death : II 5-1-21/03b-2001	-	-	-	-		_
4	13.5	Making disorger translations to take load of new additional	312110	See.	1600.06	45-82,000.00		1000
-	-	har a abordar immonificación (de)	-	-	-	77E0.580.00	0.00	919
-	-	TOTAL A TEME MORE		-		1/280/2007/2007/00	0.00	0.00
-	15	STREET, STREET		_	_	Epities C-Stook	0.00	9/19
\$	151	Development System	28/2000	Ten.	460.23		12-46 (60.00-	
-	-	TOTAL-HIPTREFICHTING		-	10000	9.00	12,48,166,00	9.69
-	1.0	FIRE ALARY STATEM						
-10	10.2	Senne des Per Alama Somma	165000	Selfe	080-93			95,16,030.00
C311	100 AND THE	TOTAL 4 (MIRALARM NAVTEM)	777777777	1000		5.00	0.00	15,10,000.00
	3.4	somes.					1200	
- 1	7.1	Internal Water Compily & Seattery Excludations	1219,07,25±.08	- 5	9%		10E/00/AST 50	
0	7.3	Submoderate, personal con-	12000725109	1 5	11,2%			151,25,986,78
-	7.4	ATRAJER		-	-			
. 9	741	Corner will high and place	121007254.00	. 5	4,076			10,46,(70.01
10	247	Light sing conductors	1219,07,219.00		625%		-	3,0231833
11	141	Publisher could the TOTAL-DISERVICES	121007289.00	-	11199	0.00		205,7120255
100			-	-		1.00	180,400,52,50	200,7120341
12	33	Section Visit (Section 19) Declared hash of host independent stagles.	3250	Liber	30		7,517(60.84)	_
-66-		TOTAL QUARTANE		100		0.00	1,520,000,000	4/4
		TOTAL CHIT ASPER CPAIN PLANTE AREA BATE (A+B+C)		_		1995.65.750.00	128B0U/5250	246,83,292,21
-	_	TOTAL COST OF BUILDING			_	19402-0-3004	10200041011	1657,57,635.6
-		10.141.1517.01.001.041	2.			Sep No.	16.38	Crore
		MULTIPLE CONTROL CONTR						
п	1	LEST OF PIECLOS TRUCTION ACTIVITIES AND	-					
150		CAMBLING WORKS / STATUTORY CHARGES						
13	221	Destrical Enternal Service Consections	1210,07,219.00	- %	323%		N 0	65,37,771,8
:4	143	Local body approvals including tree cetting etc.	12(0.07.290.00	-	1.15%			15,12,590.0
-4	2.50		100 500000	- 75	144.50			
		TOTAL E	-				9	60,58,162.0

1	20
_	ZU

43,00,480,00

Erere:

Say Ex.

0.43

PROPOSED CONSTRUCTION OF POLICE CAMMANDO BATTALION AT HAILAKANDI, ASSAM INSPECTOR'S RESIDENCE- 32 UNITS (4 BLOCK- G+1) PHASE-1 No. of Borers Total Governd Aims 41085.00 Squi Grantal Conceed Area 3080.00 - Sypt. Floor firight Typical 2.30 PHOTO: Pirath Height 0.60 Hir. BALPAR Amount S.M4 Description Aren Unit Rote 2001 tom Units.1 Civil PH SEE Section THURLDING CHEEK BOY FRAMED STRUCTURE (Upto Three Storeys) (market) Pleate 3 90 m. 43,00,01 2000 ID TO A PLOTO ID Tiget. 00005-2010 Intel Endaling Con-Pd. Withfullian nee 15.000 EXTRAS FOR very 4.3cm additioned height of cornect floor ligher 13.8 300m 4110.01 170.69 1535236.61 Hor entra Edina (1:5:10) M.S. (78) Breay Charte deeper foundation over surroad depth of 1.50 netr lies ground floor area salvi-2099.01 Som 200.89 4.16(100.00) (for 1.5) in death. (1.5-1.2) (1.5-20). Nating stronger boundations to take boulded one additional. 3090.00 100000 83,28300.00 135 Signi floor at a base date (on ground floor area outs). 130312300.00 9.00 0.00 TOTAL: A SCIVIL WORK 913.37.800.00 11.00 0.00 PREFERENCE 15.1 Diversiner better 406.01 # \$2,000 cm 20,000,00 TOTAL SCHOOL HOSTERS 0.00 8,32,000.94 FIREALARNSYSTEM 1496,000.00 43.65.00 3 gm - 400.09 Automotic File Alarm Spilene TOTAL-COTH ALAIM STREET 840 14,96,000.00 2.0 SERVIES Batering Water Speedy & Southery Installations 856,49566.00 77,04,064.00 23 2015/86/2019 1970,475 (01 ob Datema electric terrishations 7.4 EXTRAPOR ZAL Programme 242 Light and conduction 34.41,59400 Peopraktu adaksa. Wat,49505.00 8.25M 215/2080 856 43100 00 4.25% 243 Telephone conducts \$140,450,000.00 TOTAL O (SERVICES) 2.00 77,44,664,00 144,28,432.00 3.0 WATER TANK (REC ONLY) Contract sub-actions adopted printing Torres & (WATER LANK) 2.1 30000 1.20,000.00 1,711,100 0.00 0.09 TOTAL COST AS PER CPWD PLINTE AREA BATE (4-B+C+D+E) 913.32.890.00 | 58,96,464.00 | 171.24,632.00 1171,63,696,000 Ser-Su COST OF PIECONAT MICTION ACTIVITIES AND ENABLING MORRS / STATUTURE CHARGES 13 BSD, #RACD, 0D 221 3.75% 32.26,860,00 Dephical External Service Connections 14 Local body approxals including tree cutting etc. 1.25% 223 BLD, REGION OF 10,75,620,00

TOTAL-R

PROPOSED CONSTRUCTION OF POLICE CAMMANDO BATTALION AT HAILAKANDI, ASSAM HAVELDAR'S, ASI, CONSTABLE RESIDENCE - 190 UNITS (23 BLOCK-G+1 [184 UNITS)& 1 BLOCK-G+1 [6 UNITS])

1		Base Berry		D+T	1000000	1		
		Total Sovered/Area		176778.88	- Date			
	9	Strong of Covered sizes.		9000mm	900			
		Hoor ties (Str Typical		3.91	PEY.			
	0.1151.075.30	(Bath/leight		0.60	lette.	- 1	100 M	
	BelPAR	The state of the s	100000		10000		Assessed	
No.	2621 Hors.	Rescription	Area	Unit:	Rate		Italia.b	
	AGLOSS					CNE	PRAFF	Electrical
	-	BUILDING COST				1400M		- contract
1	1.0	(Specifications or per Annoque 1)	0			- 6		
1	Differ necessarias	Six Planeto Personali Sixte Three Second						
	dated cook, party	Short It 300m	ENGTHUR.	Spe	286 (6.0)	3455,0000000		
-	-	Total Building Cod	7		141	345 \$ 8335 0.60	6.90	6.00
	1.3	ESTRAN POR	2.	-				
ú,	133	Newsy Chest while head height of a core of these higher of 1870 as for some 1870 c. (1.5-10) (0.71078)	2767660	Squ	270.00	45,77300.00		
3	List.	Recy f. Partrib-per Soundation communical depth of 1.50 - nitr (on ground Poor area only) (for 1.51 or depth of 5.5.2(3.7);(100)	Migues	No	200.00	25,000		
	635	Making stronger translation to take to decrease Millioner Rock at a later data two promodifices area selections	103810	Sgn	1600.08	1423/000600		C. work
$\overline{}$						220,000,104.80	0.00	6.06
-0		TOTAL-AUGINE WHEEL				2801,1235080	6.80	8.08
-	15.1	BRECKERYS.	1000000	-	-		THE RESERVE	
7	15.1	Towares lates Toware a draw received	#930 B)	Son	403.09	6.00	35.75 SHOR	8/80
-	1.0	HIS ALARM WATER	100	-	-	F./87	36,75C200081	A.O.
6	16.7	Int and the Fire Alarm System	17979.64	500	48 3.00		1000120	185423000
		TOTAL C BUSIC ALARM SYCTEMS	-		1000	6.00	0.00	100,00,004.00
_	2.0	SERIO IN						
9	- 11	Balanyad Mister Scooth & Sankley Destallations	3675,03993.04	- 56	- 9%	. 71	200,963.65.00	12/05/2019
Я.,	13	Interpolation entallature	3605.033913.04	- %-	12.5%			490000000
_	28	BOTEA FOR	-					-
90	247	Royal referenced sheet	SALANDARA DA	- 14	LINE	- 0		1002015000
11	243	Rightning conclusions Telephone conclusion	2005/35/80/00	- 2	1,25%			513,759.00
-1	443	TOTAL FISHWICEST	September 2	-	14415	6.00	BRACKSON.	421,3537531
	3.0	WATER TANK BUT ONLY)						
12	11	Courtered lank without independent staging	12006	Like	-	10100	CLOUWEUE.	5 200
180	125	TOTAL SEMANTIR TANKE				9.494	22,04,900,00	6.00
	1	TOTALLEST AS FIR CPAYS FUNCTIONED AND DARK PART (\$400 of the				5865,11250.00		127,013471,54
		TOTAL COST OF BUILDING	-0			UI POIN		4955, 30,477.01
1		10 m	4			Seg Sa	90.85	Centry
ii.	L.,	CHRY ID PRE-CONSTRUCTION ACTIVITIES AND EMAILING WORKS / STATUTORY CLARGES	i.				163500	Scan-122
187	123	Restricted Entertral Service Cute actions	5425,0300016	. 94	1.7906			77776,7963
14	223	Recal body approval rinchalling tree cutting etc.	3655,0335010	16	1.25%			45,68,798,58
	-	TOPALII	3					180,75,095.51
			77			Sep La	1.83	Croce

4	7	4
	-4	

	PRO	POSED CONSTRUCTION OF POLICE CA		_		Assessment of the later of the		ım	
_		HAVELDAR'S, ASL CONSTABLER		96 UN	mx (1	2 HLOCK-G	+1}		
_			HASE-1		_				
-		No. of Sterres	-	Gell			_		
-		Tetal Control day		19,39,00	-		_		
-		Ground Constrainting	-	830 830	Mar		_	-	
-	-	Photolicular Typical	_	0.66	Mir.		_		
2000	347700	0.0000000000000000000000000000000000000	0.007	1000	-0.100		Assert		
S.No.	3925 itom	Description	Area	-Unit.	Sate	- 11 - 2	(take)		
22.5	-	And the Control of th		1	10110	Gril	FILSET	Electrical	
1	1.0	BUILDING COST Open Booken a per hammare II						2	
_	(30%)	BOX PLONED STRUCTURE							
4	Inc. (745)	Tipes Three Services							
8	diest.	Fine S S Com.	pronin	tops	draint or	inter, transcer.		M	
	1000000000	Total Bull May Carl		111	141	1014,75,683.80	0.165	690	
	13	CONSTRU				THE PERSON OF TH	1100		
2	133	Every Colonia Statement Sength of scenario these Euger of Advan- Clareston (Criss, p. 2-2-20), Volume (C	8030.80	Spe	350.01	32,05,500.06			
	181	Every 0.1 min desper fraculation over control death of 1, 20 in this process floor area each) the 150 m Apple (1,5) (2,5) (2,0) (200)	164.00	ton	280,01	8,00,000,00			
	104	Multing stronger than dictions to take hard of one additional. Soon it a laser than too ground floor one in his	6661,80	Syn	140.00	75,82,69.04			
		AND THE PERSON NAMED IN COLUMN TO PARTY.				413;38,560;00	0.00	800	
70	-	TOTAL A (OWN WORK)			-0.0	1963,14,240.00	6.96	8.00	
	1.5	THE REMINE		_	_				
1	151	APPROXIME PORCE. TOTAL & LINE PICHTURE)	383/5	Spn	800.912	8.00	17,81,000,84 17,81,480,68	600	
_	1.6	PIRE ALARM COSTEM	_				10,41,40010	E SERVI	
+	161	Safe male fire Alarm feetiers	970400	San	10000			\$3.50,MILCO	
	100000	THE ALL STREET ALABM OVERFUL				9.00	8.36	53,000,000,000	
-	2.0	MINISTRA	Contraction of		-	2000		SWANING	
÷	33	Interest Maior Topply & Lacitory (act of linears) Internal electric metallations	1816,75,080,80 1816,75,660,80	-	12.5%	_	300,750111.20	23030, Will 10	
÷	2.4	A STRAIN HAND	1996, 2006, 90	-	10009			1303404	
9.	241	Power wartes and place	1846,7558030	. 5	1.0%	-		75 FORT W.	
	241	Alighman construction	1946.25,680.00	. 9	1,25%			_000W030	
-11	243	Telephone conducts	1896,75,630.00		1,35%		-	461,099,24	
_	1.1	MATTER TANK (B.C. 1994 F)		-	-	4.00	14COURT LA	313,91,815,61	
-01	Ti.	Overland to knot but independent manus	68960	Litter	19		9.043390307		
1		TOTAL E INVITER TAKE	Control of the Contro	- 100	-	4.00	5/50/098 90	670	
-		TOTAL ONLY AS THE CENSURE HE TO AREA BOT A SOURCE	П			1965,14741.00	183,66,413.36	307,5186540 2131,10,1168	
3	H H				< 0)	lay bo	2525	Crien	
		COST OF PIE CONSTRUCTION ACTIVITIES AND ENGINEERS.				1			
11	2.11	Buchical Estamas Service Connections	\$8.90,T5.6800.8 F	16.	175%		_	45353390	
10	223	Local body approvals including tree cutting etc.	19-91,73,600000	196	133%			12,03,4360	
	100	TOTALI	NAME OF TAXABLE PARTY.		11/1/2000			92,33.784.0	
7		00.76.5				Say Na.	0.92	Linera	

		FOLLOWERS RESIDE:	NGE-BUIN	ITS ()	BLOG	KS).		
		Die of Stavens	- 01 7	691		10		0
	- 2	Total Covered Area	0	640,00	Squi	= 53		
	- 0	Kinsard Covered-brea		3000.00	Squi			0
		Place Height Typical	8	3390	Mt	- IS		ii.
100		Plath Height		0.60	- Mi	< 0.		10
Obs.	Ref PAR 2021 item	Description	Aron	Unit	Rote		Amount (Infla.)	
-11	-					Cadl	PRAFF	Electrical
1	1.0	EIILDING ONT (Specifications as per Americane II)						-
1	Office error at Case feet APATO	NGC PRAMID STRUCTURE (Cipta Three Storeys)			%			
	dreid electrosts	Bloor In 300 m.	5-000E	Sgn	29(85.10	132,30,400.00	V2000e	C MINNE
	HELES A Devel	Total Building Cost	10		. Jal	132,46400.00	040	6.00
	1.3	DEFRAS FOR	- 3		Spile	THE CONTRACT	10/01/2	S AZV
3	13.2	brocy O.hat additional beight of surreal floor higher of name: Secretaria 3.5 m. (5.3-53) (8.3-570)	810.01	Spt.	379,69	2,75(46.69		
3	154	theory 4.3% in decayer (neurolation) over assemble optimal 1.80 min (on ground floor area only) than 5.30 to death (16.5% 2.00.00) 258)	120,00	Squ	(00.00	64,006.00		
+	133	Making stronger introductions to take load of one solidinasi. Second a later state conspound floor arrapoint.	32006	sign	asonos	\$,12,000.00		
_	_	TOTAL ARIVE WORK		_	-	0,12,000.00 140,51,200.00	0.00	6.90
_	1.5	HISE DESTROY				THEOREM	0.00	6.00
1		Robogram er Scottena	320.00	500	MOTAU.		1,250,000,00	
100	-	TOTAL-8 (FIRST RESETRIC)	20,000	-000-	120000	1.09	1,28,000.00	4.90
	1.6	tuese transposes				- 11		
6	1.62	July made: Fee Nieta Stellem	586.84	San	03.036	-0.000	00.00	3,94,004.00
		Addressed Street Street TOWAR-C (FIRST ALARM STREET IN)	- Colorest	-	()	8488	ODE	1,65,600.00
_	1.4	Parties of the Sales and the S		_	22			STATUTE IN THE
7	2.1	Internal Water Supply it Santary Lant Alatinus	132,38,40030	- 50	9%	-	JL55243430	71.7913557
8	23	Internal electric installations	132,36,600.90	36	12.5%			ti,54,000.88
4	24	EXTRA FOR	137,38,400 90	-	1.0%			5,25,596,97
10	241	Personner of the grant of the second of the	13-2,30,400,90	- 2	8.25%	-		31,006.86
11	243	Toleralises conduits	132,30,400,00	96	1.25%	7 70		
	-	TOTAL D (SIRVICES)	ALMOS ASSOCIATION AND ADDRESS OF THE PARTY O		multi Militaria	101	11.01456.00	31,000.00 22,58,528.60
200	3.8	WATER TASK (BUL COLY)	10 rec 10	10000	2000	0001100	A 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	200000000000000000000000000000000000000
12	3.1	Overhold task without independent staging	(000	Like	20		40,000,00	
		TOTAL E (MATER TANK)				909	60,000.06	0,00
_	-	TO TAL OUST AS PER O'MO PLINTE ANEA BATE (A+B+C+C	HEE		-	148,51.300,00	11.593456.00	26,34,528,93
		THEAL DISTOR BRIDING				See to	1.0	196,65,184.0 Croins
n	2002	COST OF PIR CONSTRUCTION ACTIVITIES AND ENABLING WORRS / STATUTORY CHARGES	consumaté		San Ja	1 13		Scoolary
13	221	Hindrical External Service Consuctions	137,38,404,00	20	3.75%	27 17		139,140,00
14	223	Local body approvale induding tree cutting etc.	12(2,91,400.00	*	1.25%	1.0		1,65,480.00
		TOTAL-II	- 12		0	. 10		6,44,926.60
		1//	1		00	Say Ro-	0.07	Crore

1	22
	ZZ

	PROP	OSED CONSTRUCTION OF POLICE CA						anm
_	_	ACCOMODATION FOR SO'S (INS	PECTOR'S.	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	CONT	S (2 BLOCE	(8)	
-//		Na efficerys		E+1		10		1.1
-		Detail Governi Area	_	120200			_	_
_	- 0	Ground Covered Area		40000	Som	1		-
-		Moontikelight Typicali	- 1	3,30	Min	1 1		
- 34	-	Phydritegis	-	0.60	Me		A COLUMN TO SERVICE AND ADDRESS OF THE PARTY	2
K.No.	Bell PAR 2021 ibon	Doctylin	Area	Helt	Bake		(Inite.)	
77						Civili	PHARE	filectrical
1	1,0	ITRUMING COST (Specifications as per Announce-1)						
1	Office money could are from APACO	REC. FRANCID STREET TYPES (Optio There Shoreys)						
-31	\$600 TEXT	Phor ti. 300 m.	121000	Sea	2068500	140,72,000.00		
70		Total Halling Cell			101	246,22,246.00	800	ore
	1.1	DOTRASTOR				-		
2	193	Tivey 6.het utilities i leight at sernal floor higher of 190a flor cales \$3 as 10.5 20/02/d78	1300.00	Squ	120.00	CHANNE		
3	134	Servey 6.3 met skreper formaleskep serve penemal skryfts af LTB met (inn greenwil Bour neven utby) eks: 1.30 m. skrets: (1.5 n.21 n.34m200)	601.00	Squ	200.00	5,20,800.00		
	1335	Naking stronger from that sens to take bount of one adultational floor or a factor than too storaged floor arrays all?	600.00	See	1680.00	990,900.00		
						35,24,000.00	8.00	0.00
- 6	-	TOTAL A COVIC WOORG	_		-	263,46,888.04	8.00	0.00
-	1.51	De agreement Booking	660.06	See	400.00	_	1.43/653/00	_
		TOTAL REPRESENTING	- C400.0E	748	4.0.00	6.00	2,40,868.88	0.00
_	1.6	THE ALARMSTOTEM	4300.00	-	-	-		-
- 6	1,6.2	Automatic Res Alarm System TOTAL COTTON ALARM MATTERS	1,208.90	Sea	600,00	0.00	8.00	7,20,000,00
-	2.0	SERVES			-	0.00	8.00	7.28360.00
7.	7.1	Referred Water Stagely & Southery Installations	186,31,893.00	- %	1996		22,707%80,80	377777
14	2.8	Internal electric metallations	248,71,690,09	W	12.9%	1	77070.0100	33,42,159.00
	24	EXTMAPOR			15000	123		-0.00 (CO.)
.9.	2.41	Physicistres and phase	240,253,9339	- 5	40%			5,52,880,00
18	3.47	Laginating conduction:	245,25,690,09	- 19	0.15%			60,655,66
11	2.47	Teleplane coadults	240,21,890.68	N	6.25%			62,855.00
11112	200	TOTAL D PROVIDED	NA CORPORATION OF		100000	0,00	2233,99000	451024638
11	300	WAYSE YANK (BCC OREA) Therefored hadest filtered and provided studies.	32000	Line	115		6,20000.HI	
15.	81	TOTAL CONTINUES AND PARTY TANKS		Little	-23	9.00	6,20,300.50	0.00
- 33	_	TOTAL COST AS PER UPWE FLIST II AREA SATE (4-E-C-)	Deskil		_	262.46.290.00	18/91/900000	49,290746.84
- 55		TETAL COST OF BUILDING	210			CHINANICE	STOCKED BY	343,79,720.00
- 12						Say lis.	344	Oser
11		COST OF PAS CONSTRUCTION ACTIVITIES AND	-					
13	221	ENABLING NURSES / STATUTURE CRANGES Should and Enter and Statute to September 1	246.223.253.00	76	2.79%			9,30,425.00
772	2000				-			100000000000000000000000000000000000000
14	221	Local hody approvals instuding tree cetting sic.	248.22,60000		1.75%			3,10,275.08
100		TOTALAL		7		V	Thrower 1	12,41,100.00
		100000		8 3		SHERK	0.12	Crose

		BARRACK - 8 BLOCK	\$ {504 NOS.	ACCO	MODV	HON)			
-1		No. of Hereps	- 4	6-1					
-15		Total Geografi Area	5 79	D05 A.09	500			37	
71.		Greend Greened Street	100	4032,00	500	-		7	
- 10		Place Excelle Typical		3.30	Mir				
		Minth Height		DAG	386	_		100	
S.No.	Ref PAR 2021 ibes	Description	Atm	theft	Facto		Assessed (in Siz.)		
- 11		Decree of the second	15			Ced	PHAIR	Slectrical	
1	1.0	DULIANG COST (Specifications as per Associare-1)					esterne.	5,65,656,471	
1	Differ Cons.APVO	NC TRAMED STRUCTURE (Typio Three Normal)							
	Adult	Fine M. 300 ps.	806400	Sur	20085.01	164013,043.00		X	
_	-	Total In Ming Cod		-	Tel	1145,03,010,00	0.00	0.00	
	1.2	DTR46 FOR			-		1000		
1	1312	Berg Albet ekkibasid kegit of arread flore beginn d 180a Sarashin I.J. ac. (10.3.28/03)1780	805400	Spn	379.00	29,00,400.00		ĵ.	
1	1334	Every 6 State deeper foundation lever named death of 1.58 sate Leagues of their level out 6.5 (2016) for 1.50 or death - (1.5 - 1.21-0.31-200)	40000	Open	363.00	1994,000,000			
	13.1	Miking at organ fermilations to take load af one additional floor at a later distriction ground floor are a solvi	estan	Spin	1606.00	61,01,201.03			
-03		STATE OF THE PROPERTY OF THE P				140,41,180,66	6,80	0.00	
- 1		TOTAL A (CANL MORK)	-	- 1		1774/45/2000	8,80	0.00	
	151	HREFERTINE Encyclosury feiters	907270	Sea	403.00		15,12,800.00		
_		TOTAL RIFINE RIGHTING	moral and	-	40400	4.60	16.17,800.00	DEC	
1117	1.6	RIBE MARRISTOTEM	11500100		71100007		- Annual Control	7.7	
D.	164	Substantic File Allers System	1094500	360	693.00	10000		46,33,463.00	
VD/U	10000	TOTAL-CIPPER ALABA SYSTEM		10200	5,000	4.89	0.80	48,35,490,99	
_	1.0	SERVICES							
H	2.3	Sidermal Winter Supply & Spotlary Statisflations	3608/83/840/04	2	17.5%	_	ESE,12345 //	300,9,446.00	
10	23	Internal electric samplisticas	2608,000,840,08	-	111376	_	_	200,50,446.00	
4	24.1	Power winter and plans	3664.03.840.08	-	-0.9%	-	-	04.72.153.00	
10	2.4.2	Califoring conductors	5668,03,840.09	16	4.29 %			4(17,009,6)	
11.	2.43	Tricphone conclusio	3608,033,840.00		128%	200.00	No. of Contract	A,17,909,60	
3317	CALLA	TOTAL-DISCOURS.	The second second	100	NO.DS	0.81	150,13,345.60	283,55,602,88	
-	7.0	WATER YANK (RECORD)							
12.	3.1	Continual tank without independent staging FOTAL I (WATER TANK)	Market	Like	.45	0.00	16,66,803.00	0.00	
		TOTAL COST OF RESCHAED STREET WARE TO SELECT	040	-		1776/12/2000			
_		FOTAL COST OF BUILDING		-	_	T. Statement	AND DESCRIPTIONS	206,03111.9	
				-	-	54 84	22.65	Con	
-		THE RESERVE OF THE PERSON OF T					0.000	1884	
.11		COST OF PINE CONSTRUCTION ACTIVITIES AND CHARGING WORKS / STRUCTORY CRARGES	100000	- 1				See Land	
13	227	Don't had Enternal Service Connections	Deseguação se	-	1.07%			10.00.116.0	
11	228	Local healy approach including tree outling etc.	1668/33/80/00	-	1.2554			20.85,0 00.0	
**	225		1000015/440181	70	1.2000			100000	
		TOTAL E	17	-		- A		83.46,192.0	
						Surfa.	4.83	Crore	

1	2	2
_		U

PROPOSED CONSTRUCTION OF POLIC	U CAMMANDO DATTALION	AT HAIL AN ANDL. ACCAM
PROPOSED CONSTRUCTION OF PULIC	E CAMMANDO DATIALION	AT DAILANANDL ASSAM

_		BARRACK - 4 BLOCKS	# 46 MOS		1573075	11/2/14	_	
4	1	No of Storegy	The same of	Gel	W. O'TON	Section 1	4	17/4
		Total Cryend Area	27 (304000				
	15 5	Count Covered Area	91 3	1921.00	Sga			
8		Floor Height Typical	40.0	9.20	Mic			
	[H]	Photo Feight		-Binn	146.		10	1.1
e/Wn.	BetPAR 2021 Rem	Description	Area	Unit	Rate		Amount (In Bc.)	
3	GA-manife.	Market Market				Dell	PHARE	Hectrical
1	1.0	(Specifications as per Amesure-1)				11145	A48,092.4-1	
1	OTTO WARREN	REE PRAMED STRUCTURE (Viple Three Shareys)						
	deed. testi avaz	Plorte 3.10 m	2810.16	Sign	T04.85.00	SOUR PROPERTY.	[]	
	J i	Total Inclining Cost			M	794,34,400,00	0.00	0.00
2	132	EXTRASFOR Rosy (class additional beight of national floor higher of 300 to Chrostin 2.7 m. (22-20), 0.3:2781	2016.00	Sept	37008	14,20,000.00		
3	354	Divery 0.3 active designer from alertions over mornial dispitated 5.500 active on ground flower areas multiple (1.500 active to the part of the part o	1908.00	Son	28000	3,91,010.90		
	13.5	Making the age: Emodation to I do Is of it out at the whiteward floor at a later date (on second floor area only)	1928/26	Squ	1400.00	30,72,000.00		
_						10,76,811.00	1000	8.80
=	37	TOTAL-A (CIVIL WORK)	-	- 3		943,97,200,00	0.00	0.00
5	3.8	PRETING	COUNT NA	-	11000		T.00.000.00	-
-	151	Description Scales - POTAL REPORT FRANCISCO	17/29,59	Sea	40000	0.01	7,06,019.80	
	1.6	THE ALARM SYSTEM				200	Tong with the	
N.	162	Automatic Fire-Alasu System	3040.09	- 50e	14600			25,04,000.00
	GW11971	TOTAL-CITIES ALAHM SENTEM)				0.04	0.00	21.05,081.00
3.1	2.0	SERVICIA	The state of the			711000	Day 25 25 11 32 1	
1.	21	Tedernal Water Bagoly & hardton behalf dives	794,88,404.00	- %	5%		71.40,736.00	
B.	23	Internal electric rastallations	194,30,460.00	%	12.9%			99,30,600,00
9	24	EXTRA 198	79430.40000	- %	4.0%		-	51,77,216.06
10.	242	Power siring and plags Unit nite confur for	794,38,400.00	-	0.25%	_		196576.01
TE:	243	Telephone conducts	194,29,400.00	- 1	0.25%			196576.03
-		TOTAL-04SON/ICEST	Table Towns	-0.00		0.00	27.48.736.08	135,01168.00
	1.0	WATER TANK (RELIGIALLY)				-	-	-
12.	31	Durked but of his independent stone TOTAL CONTRICTANCE	E1490	126.0	-21	0.04	6,40,909,00 6,40,909,80	0.00
-	10	THEAL COST AS PER CHARGE PLANTS AREA BUT FILLS -C-	n-in					156,07,188.00
13	2 5	TOTAL COST OF HULBONG		- 0				1086,79,104.9
	4 - 1					July Ros.	19.80	Cross
n		COST OF PRECOMETRISCHES AND ENGINEERS AND ENGINEERS WHIRE A STATUTORY CHARGES						
13	221	Electrical Enternal Service Connections	704,39,439300	-	3.79%	_		2978,6300
14	223	Local body approvals including tree outling etc.	704,34,400.00	*	1.29%			4,92,886.0
-	-	TOTAL-III				200		39,71,520,0
		19150-0				Say Its	-	Crere

		GARRAGE	-2 NOS.					
		No. ofStorys	o decimal (c)	. 6		et .		
		Total Covered Area	2 10 0	80.00	Squ			
		Ground Covered Acts		BRI 200	Signs			
		Floor Height Typical		4.50	Mb.			
	9	Plinth Height	3	0.60	Mtr	-		
s.Nec	Ref PAR 2021 item	Description	Area	Unit	Rate		Amount (In Rs.)	
		Y				Civii	PHAFF	Electrical
Ţ,	1.0	BUILDING COST (Specifications as per Annesure- I)	Î			1000	The co	-2004
î.	reture memorani an from APNO	RCC FRAMED STRUCTURE (Upto Three Starcys)						
	803.03.2922	Floor at. 3.00 ns.	DKI.00	5qm	20685.00	16,54,000.00		
15-		Total Building Cont	23		[4]	16,54,900,00	5.00	0.00
	1.3	EXTRAS POR	32 2	0.00	-0.0	George and	1,000	10000
2	13.2	Gery 0.3nst additional beight of normal foor higher of 300m (for extra 450 m. (450-36)/0.2x370)	90.00	State	1852.00	1,60,000,00		
3	13.4	Borry 0. Testr desper formulation over normal depth of 5.50 intr (on ground floor area only) Our 1.50 in depth -11.5-1.21/0.35(200)	80.00	Squ	200.00	16,050.00		
	-		1,5			1,64,000.00	4.00	0.00
		TOTAL-A (CIVIL WORK)	21 3	100		18.18.800,00	6.00	0.00
	2.0	SERVICES	distance in the			(0.00 DATE: 0.00)	10000	17.5
4	2.3	Internal electric metal between	16,54300.00	- %	12.5%		-	106,890.80
		TOTAL 0 (SERVICES) TOTAL COST AS PER CPUSO PLINTIR AREA RATE (A+R)	A CONTRACTOR OF THE PARTY OF TH	-	111111111111	0.00 18.38.000.00	1.00	2,00,850.0
		TOTAL COST OF BUILDING				TH, HILLISONOU	1.00	29,25,050.0
		BOOTH STORY IN MUNICIPAL				Suy Rs.	6,20	Crorre
ıı		COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING WORKS / STATUTORY CHARGES						
. 5	224	Electrical External Service Connections	16,54,600.00	. 56	3.72%			62,655.00
6	223	Local bedy approvals including tree cutting etc.	16,54,800 de	-	1.25%			29,685.00
		TO TAKE II	701			Say Rs.	4.01	Crore

_		ASSAM							
		SENTARY POST	2 NOS						
		No. of Storegs		-6	M				
		Total Covered Area	- 2	8.00	Sign				
	3	Greand Covered Area	-	8.00	Squi				
		Floor Height Typical	7.90	6.00	Mtr.				
	4	Plinth Height	- 4	0.60	Mite		(a) (b)		
No.	Ref PAR 2021 litem	Description	Area	Unit	Rate		Amount (in Rs.)		
		Tomas and the second se				Civil	PHAFF	Electrical	
1	1.0	BRITEDING COST (Specifications as per Annexure-1)							
1	1.8	STILL PORTION	23310		2000		9 9		
0	1.8.1	Floor ht. 3 60 m.	8.00	Squ	8400,00	67,200.00	Server.	1433	
	70000	Total Building Cost			[e]	67,200.00	99.0	0.00	
	1.3	EXTRAS FOR					2000		
2	1.82	Every Oliut additional height of normal floor higher of 3,60m (forestra 6,0 m, 16,0-3,61/3,31270)	801	Squ	1600.00	12,800.00			
3	134	Every 0.5mtr deeper from dation over normal depth of 1.50 natr (on-ground floor area only) (for 1.50 m depth = [1.5-1.2] (0.5)x200)	8.00	Squ	230,00	1,600.00	2		
Ç	5 8					24,400.00	0.00	0.00	
		TOTAL-A (CIVIL WORK)	-		2.	81,600.06	0.00	0.00	
	1,8	SERVICES				100	3		
4	2.3	Infernal electric installations	67,200.00	- 1%	12.5%	77	2 5	R/600.00	
	2.4	EXTRA FOR				-	2 /		
5	242	Lightning conductors	67,206.00	95	0.25%		-	160,00	
		TOTAL-R (SERVICES)				0.00	00,0	8,568.00	
	-	TOTAL COST AS PER (PWD PLINTH AREA BATE (A+B) TOTAL COST OF BUILDING				81,600.00	0.66	90,166.00	
		TOTAL CIGIT OF BUILDING			_	No. of Person	0.01	THE RESIDENCE OF THE PERSON OF	
						Noy Ro.	0.03	Chire	
п		COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING WORRS / STATUTORY CHARGES	500 to co	55.	- Cagnotte			- 1000000	
6	721	Electrical External Service Connections	67,280.00	96	3.75%		3 7	2,520.08	
9	223	Local body approvals including tree catting etc.	67,200.00	96	1.25%		ä U	840,00	
93.6		TOTAL-II	211100000	State of the	2,5-25250	idnya. 995	K	3,360.00	
m I	17			100	lim	Sery Rx.	0.00	Crure	

		SENTARY POST	- 1 NOS					
	E 1	No. of Storeys	The same	C				
	E - 2	Total Covered Area	-	16.00	Squ		7	
		Ground Covered Area		16.00	Squ		4 4	
	- 0	Floor Beight Typical	-	600	Mirr		1 3	
		Plinth Height	100	0.60	Mer.			
S.No.	Ref PAR 2021 item	Description	Area	Unit	Rate		Amount (in Rs.)	
	3	7	10			Civil	PRAFF	Electrical
	7.2.2	HUILDING COST		_	-		20,000	- Law or City College
1	1.0	(Specifications as per Annexure-1)				_		
1	1.8	STILL PORTION		23 E				
_	1.0.1	Downtit, 360 m.	16.00	Septe	0466.60	1.31-00.00		21020
		Total Hallding Cast		70000	[ed]	1,34,400,00	0.00	0.00
_	1.3	EXTRAS FOR	-		-	30.75		
2	18.2	forcy 0.3mt additional height of termal floor higher of 2,60m. (for extraon) to (100-22)/0202719	14.00	Iqu	1660.00	25,600.00		
3	13.4	Berry 0 State deeper is undafator over normal depth of 1.50 mir (in ground floor area only) (for 1.50 m death - 11.5-1.21/0.31-2001	16.00	Squa	203.00	1,200.00		
			0	A-1		28,800.00	0.00	0.00
	5	TOTAL-A (CIVIL WORK)				1,63,200,00	0.00	0.00
	1.8	SERVICES		1	11/10/0			
4	23	Internal electric inotaliations	1,34,430.00	79	12,2%		8 8	16,800.00
	2.4	EXTRA FOR		2011	1000			
ă.,	242	Lightning conduction	1,34,409.00	.79	0.29%		Acres 6	335,00
1500	The state of	TOTAL-B (SERVICES)	Separation.	1000	CANAL	0.00	90.0	17,136,00
		TOTAL COST AS PER CEWD PLINTH AREA RATE (A+B)				1,63,240,00	0.00	17,136,00
		TOTAL COST OF BUILDING				property of the same	100000	1,80,336,00
-		to enduration than the state of the				Say Ba.	0.02	Crisina
11		COST OF PRE-CONSTRUCTION ALTISTIES AND ENABLING WORKS / STATUTORY CHARGES						
6	7.2.3	Electrical External Service Connections	1,34,400.00	16	3.75%			5,040.09
7	2,2,3	local body approvals including tree certing etc.	1,34,400.00	. 55	1.25%			1,690.00
		TOTAL-II	35	7		- 0.00	(33/03/03)	6,720.00
	10.	i and the same of	10:	1000		Say Ba	0.00	Crore

		GUARD SHED - 0	1 NOS.					
	7	No. of Storeys	-0.00	6	Maria Las	1 5		91
	2	Total Covered Area		74.00	State	1		6 1
		Ground Covered Area	- 8	74.00	Som			
		Floor Height Typical		240	Mir	S		
- 1	Same and	Plinth Height	2	0.63	Mir	At 2		6
S.No.	Ref PAR 2021 item	Description	Area	Unit	Rate		Amount (to Rs.)	
-						Civil	PHAFF	Electrical
i	1.0	BUILDING COST (Specifications as per Annexure-B						
1	1.8	STUL PORTION				ÿ		93
	181	Fleor ht. 360 m.	74.00	.5on	8400.00			
- 1	C11000000	Total Building Cost		20000	[A]	6.21,600.00	0.00	61,040
	1.3	EXTRAS FOR				200000		C-1200
2	1.0.2	Freey Court additional heighted normal floor higher of Serina for extra LG m. (3.6-3.6) D-3/SNI	74.00	Sim	0330	0:00		
3	1.3.4	Every 0 State deeper foundation over normal depth of 1.50 min- ion ground floor area only) that 1.50 m death = (1.5-1.25 /0.35/2000)	74.00	Sqm	100.00	14,890,01		
						14,890,00	0.00	0.00
		TOTAL-A (CIVIL WORK)				6.36,400.00	0.00	0.00
500	1.8	SERVICES	are use rest		Event	Control of the Contro		
4	2.3	Internal electric installations	671,6(0.00	*	12,5%	70		77,700,00
100	2.4	EXTRA FOR	Sec. 1990 11.04.5					
5	24.2	Lightning conductors	4.21,668,08	*	0.25%	-		1,554.03
		TOTAL-II (SERVICES)				0.00	0.00	79,254.00
_		TOTAL COST AS PEN CPAYO PLINTH AREA RATE [A+8]		_		0.35,400.00	0,00	79,254.00
_	_	INTEREST OF BUILDING	- 6	_	_	Face Bar	0.07	7,15,054.00 Crops
_						Say Ibc.	0.07	ruses
п		COST OF PRE CONSTRUCTION ACTIVITIES AND ENABLING WORRS / STATUTORY CRARGES						
6	22.1	Electrical External Service Connections	621,600.00	- %	3,75%	5 %		23,310.00
2	22.3	Local hody apprevals inchaing tree cutting etc.	4,21,600.00	36	1.25%	3 3		7,770.00
7	F	TOTAL-II	10			0 0		11,000.00
-			177		1	Say No.	0.00	Crors

			KILL HOUSE						
1340	1607	States No.	Description	MOJ	Q÷	Unk	Rate (in Rs.)	As Per OSS 2423 (Buffal)	Amount As Por SSR (In Ea.)
1	5004		Providing and fixing YEER RESC Complete is all respect too halling. 350° and as our direction of backery in Charge.	230	30	100.5	1217.14		2798540
ú	DIR.	ונו	It wishing and Ligang is position aroundy according the battle of sharps take remove construct for residenced remove construct entire states against a state against the expensable of street from natural anterior. Proclased Promission / Ordinary hardstand / Proclased Stag research of the against the state of the expensions of the Stag construct of the state of the properties of a per St. 2015; to accelerately without impacting elements to the state of the properties of construct to the state of logical country, but they are a function of the construct, distribution and ordering the construction of the construction of the state of the following grades of constructions of the state of the						
		\$30.2	All works above shath less lopts foor Visted					72	
	Ш	53121	Concrete of N25 grade with minimum ovalest content of 100 kg 2008	210	6312	cuts	10000.15	G4121.00	
3	DSR SR(1)	1835.1	It eviding and from band ral of approved one by redding str. to used ladder rading, bullety milling statecase rading and smaller scales, no bullety applying princip; and of approved shed princip. H.S. Tabe		225	.00	IE-LE	(809)675.	
	1					100		1419000.7	2736566

PROPOSED CONSTRUCTION OF POLICE CAMMANDO BATTALION AT HAILAKANDI, ASSAM

EXTERNAL SITE DEVELOPMENT (CIVIL)

-						EDEVELOPM	CIAL LUIALE					_		
-		Plot Area	(*)	11512337							/			
-		Ground Floor Area	-	-25-66/9/50										
- 03	10	External Area		09653.87			9 (8	5 3	10		5 2	-		
_0		Total Built-Up Area		45125.00			N	100			0	- 0		
- 0		Hell-Up Area For Phase-1	-	29969.00				10 10	- 4		0			
_		Built-Op Area For Phase-II	-	1525600						100000	-			- N. S.
				TOTALI	DEVELOPME	VI		HASE	I DEVELOPM	IENT	Pl	LASE-I	DEVELOPM	HENT
No.	PAR 2021 item	Description	Qty	Unit	Bate	Amount (In Rs.)	Qty	Unit	Rate	Amount (In Rs.)	Qty	Unit	Rate	Amount (in Rs.)
		DEVELOPMENT OF SITE												
+		LARGE SITE COMPRISING OF VARIOUS SCATTERED LOW RISE (UPTO 4 STORY). BUILDINGS WITH EXCEPTION OF A BLOCK OR TWO UPTO 4 STORY.	9230,58,570,00	99	7.50%	092,29,392.75	6074,88,210.00	*	7.50%	455,61,615.75	3155,76,360.00	20	7.50%	234,67,777.00
2	4.5	UNDER GROUND SUNP (AS PER NBC-2016 TABLE 7)	6,80,000.00	ltre	20	136,00,000.00	4,50,000.00	litre	20.00	90,00,000.00	2,30,000.00	litre	20.00	46,00,000.00
3	59.1	Horticulture operations i/c 30 cm earth filling, grassing, tree plastation/shrubs and potted plants etc.	89,453.87	Squa	275	246,54,814.25	4482694	Squ	275.00	123,27,468.50	44,826.93	Squ	275.00	123,27,405.79
		TOTAL COST AS PER CPWD PLINTH AREA RATE (INCLUDING GST)				1074,84,207.00				668,89,024.25				405,95,182.75
4		BOUNDARY WALL. Boundary Wall with 1400 mm high wall and 600 mm high concerting cold fencing. With brickworks structure and ECC hand at ground level and coping.	1,994.00	Meter	24,836.00	470,39,384.00	1,894.00	Metor	24836.00	470,39,384.00		Meter	24896.60	230
5	ESPINI	CONTOUR SITE (SOR, CUTTING/FELLING) Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of Skm also including ramning and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.		Gue	348.65	413,13,624.89	56,03400	Cum	368.65	206,56,934.10	56,033.34	Cum	368.63	206,56,698.79
5	AS PER ANALYSIS	RETAINING WALL (HANDOM RUBBLE MASONRT)	1,000.00	Meter	37750.00	377,50,000.00	800.00	Meter	37750.00	302,00,000.00	200.00	Meter	37758800	75,50,000.00
6	AS PER ANALYSIS	RCCRETAINING WALL	1,000,00	Meter	H7740.00	877,44,000.04	800.00	Meter	87740.00	701,92,000.00	200.00	Meter	87740.00	175,48,000.00
7	MR	LONG & SHORT SHOOTING RANGE	1.00	jos	400000000.00	400,00,000.00	100	108	400900008.00	400,00,000.00		108	40000000.00	
		TOTAL DEVELOPMENT OF SITE				3613,27,215.89				2749,77,342.35				863,49,873.54

2000	DSR	BILL OF QUANTITY (RCC RETAINING WALL	100000	00012	Rate	Amount
il-No	2021	Description	Q0	Unit	(in Rs)	(lo.8s.)
				9		
		SUB-IDEAD-L > EARTH WORK				
3	27	Earth work in excavation by mechanical means (Hydrantic recorder)/manual means over arous (exceeding 30 cm in depth, 1.5 m in width as well as 10 squ on plan) including sytting out and disposal of recursing earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer inscharge.	9			
	2.7.1	Onlinery rock	55440	Cum	412.95	228939.48
- 0						
2	225	Filing available excavated earth (excluding suck) in trenden, plinth, aided of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited bayer by ranging and scattering, lead up to 50 as and lift noto 1.5 m.	43140	Cum	353.95	130315.88
-		SUB BEAD-B > CONCRETE WORKS	-	-	\rightarrow	
-	_		-	55	-	
3	4 2D	Providing and laying in position ready intred or site batched design into currents for plan remeal concrete work, using course aggregate and fine aggregate derived from natural sources, Portland Pozadana / Ordinary Portland / Portland slag coment, admixtures in recommended proportions as per 18. 9303 to accelerate/ retard setting of concrete, to improve durability and workability without impairing strength, including puraping of concrete to site of laying, curing, carriage for all leads, but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge for the following goals of concrete. Nate: Botto centerin up to 10% of the miximum specified centent content in design mix shall be payable separately: In case the centent content in design mix is more than 110% of the specified minimum rement content, the contractor shall have duration to either re-design the nixt or bear the cost of extra centent.				
		Note: (1) Executy/hox coment used than specified in this item is psyable/ recoverable separately. (2) By sah conforming to grade 1 of 15 3012 (Part- 1) only be used as part replacement of OPC as per 15: 456. Uniform blending with cement is to be ensured in accordance with chances 5.2 and 5.2.1 of 15: 456-2006 in the items of BMC and BMC.		8		
221	4211	Al works upto plinth level	1000	-	20000000	-
	42011	Concrete of M10 grade with minimum rement content of 220 kg/cum	3.90	CHA	8033.20	31329.48
3.0		SUB HEAD-III > REINFORCED CEMENT CONCRETE WORK	3	33		
-		FORM WORK	9	24	-	
4	59	Centering and shuttering including strutting, propping etc. and removal of				
4)	391	form for all heights: Foundations footings, bases of columns, etc. for mass concrete	36.00	Sign	107.95	11086.20
				1000		
b)	5.9.2	Walls (any thickness) turbating attached placters, lurteresses, plinth and strangcourses etc.	420.00	Squ	669,\$5	281211.00
-		STEEL REINFORCEMENT				
-	- 42	Steel reinforcement for RCC work including straightening cutting,				
5	5.12	bendies, placing in position and hinding all complete upto plinth level				
	\$22.6	Thermo-Mechanically Treated ham of grade Fe-508D or more.	11610.00	Kg.	89.65	1040836.50

SI.No	DSR 2021	Description	Qty	Unit	Rate (in Ks.)	Amount (in Rs.)
6	533	Providing and laying in position ready mixed or site batched design mix concrete for reinforced cement oncrete work, using coarse aggregate and fine aggregate derived from natural sources, Portland Pazzolana / Ordinary Portland / Portland slag cement , admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of moreete, to improve durability and workalability without imposing strength; including pumping of concrete to site of laying, curing, carriage for all leads, but excluding the cost of centering, sluttering , finishing and minforcement as per direction of the engineer-modulage for the following guide of concrete. Note: Extra rement up to 10% of the minimum specified cement content in design mix is more than 1.10% of the specified minimum cement content, the contractor shall have discretion to ether re-design the mix or hear the cost of extra rement.				
a)	5331	All works upto plinth level	Sanana	2		oposanse posta-
~6	5.331.1	Concrete of M25 grade with minimum consent content of 330 kg/cum	11610	Cum	7997.30	928486.53
_	Separation .	Cost For 30 Rmt. Retaining Wall	10000	85.77	200700	2632205.07
		Cost For Per Rmt. RCC Retaining Wall		0	Say Rs	87740,00

5,90,	DETAIL MEASUREMENT OF RCC RETAINING	_		_			-
		NOS	1	800	H	Arva	Uni
	SUB HEAD-1 > EARTH WORK						
	Buth work in excavation by mechanical mount (Bydrauk: excavator)/manual means						
10	over areas (escreeding 30 cm in depth, 1.5 m in width as well as 10 sign on plant including		ı				ı
40	getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed		ı				ı
	by thetineer-in-charge.		ı				ı
	All kgels of sus l		-				
_		-	-	-	-	-	-
_	POUNDATION	- 0		-			-
- 15	PROCRETAINING WOLL,	1	30,00	2.40	1700	554.40	_
					Total	554.40	Car
_	Filling available excavated earth in treaches, plinth, sides of foundations etc. in layers		-				-
			ı				ı
2	not exceeding 20cm in depth, consolidating each deposited layer by romning and						L
- 1	ovatering including lead up to 50 m and bill up to 1.5 m.	- 0	_			00000	3
	Total Betra Becavation	- 0			2 1	554.40	
	Rane-	- 22				11.00	0
_	PCC in foundation					-3.90	
_	BCJ, is Frank/Ism	_	-	_	_	-T16.10	
_	TO A. 10 T 100 TO 100 T	-	-				
_	No. a control to control.	-	-		Total	434.40	CHI
		- 9				2000	
	Providing and laying in position ready mixed plain cement concrete, using the ash and						ı
	consent contrast on per approved design rate and scannifactured in fully antoniatic luiching		I	ı		1	I
	plant and transported to site of work in transit miver for all leads, having continuous		I	ı		1	I
	agitated nature, manufactured as per max design of specified grade for plan cement						
3	concrete work, including pumping of RNC from transit mixer to site of laying and						
2			ı				ı
	curing, excluding the cost of rentoring, shuttoring and fluiding, including cost of curing,		ı				ı
	admixtures in recommended propertions as per B : 9103 to corderate/retard setting of						
	concrete, improve workalidity without impairing strength and durability at per direction		ı				ı
	of the Engineer-in-charge and and aggregate derived from natural sources.		ı				
- 0	or one stighted such as persons and aggregate control of the street streets.	- 33				5 2	4.
	N-10 grade plain cement concrete (consent content connectered @ 220 kg/com)	- 0		3	0.00	8 8	
	FOUNDATION			7			
	RIC RETAINING WALL	-1	201,001	7.33	6100	3.90	
_	ma-bot rentre maid	-	2013/01	1.30			-
_	FO 1000 CM PROCESS AND ASSESSMENT OF THE PROCESS AND ASSESSMENT OF		_		Total	3,90	Case
_		-0		6 .			
	FORM WORK	100		0			
4	Destering and abuttering including struction, propping etc. and removal of form for ::		$\overline{}$				
	Foundations, lootings, bases of columns, etc. for mans concrete	_	-		_		_
41		-	-	-	$\overline{}$	_	-
	POUNDATION		_			_	_
	ROCRETAINING WALL	- 2	30.00		0.600	36.00	
		- 9		8 -	Total	36,00	Squ
- 8							13.
2 a 1 i i	Widh (any thickness) including attached pilasters, batteresses, plinth and string courses		-	-	-	_	
10							
_	etc.						
	IROC RETAINING WALL	-	-	-		700 40	-
_	TOOL ON LINE OF TARRIES	2	30,000		7.00	420,00	
	Close Data Parities St. 1 Class.	2	30,000		Total	420.00 420.00	
7	COSC DALLACITATION FOR THE COSC OF THE COS	1	30,000				
			30,000				
5	Steel reinforcement for RCC work including stronghouting rutting, bending placing in		30,000				
-	Steel reinforcement for RCE week including straightening rutting bending planng in position and binding all complete upto plants over					420,00	Squ
5	Steel reinforcement for RCC work including stronghouting rutting, bending placing in		30,800	100	Total	420,00	Squ
-	Steel reinforcement for RCE week including straightening rutting bending planng in position and binding all complete upto plants over			100	Total	420,00	Squ
-	Steel reinforcement for RCE week including straightening rutting bending planng in position and binding all complete upto plants over			100	Total	420,00	Sape
-	Steel reinforcement for RCC work including stronghening natting, bending, placing in position and binding all complete upto plants level. Therma-Hechanically Treated have of goals Fe-55000 octuors.	ī		100	Total	420,00	Squ
-	Sheel reinforcement for RCE, work including strongliening, natting, bending, planing in position and binding all complete upto plants level. Thermo-Beckunically Treated have of grade Fe-55000 or more. Providing and laying in position ready mixed or site batched design mix concrete for	1		100	Total	420,00	Squ
-	Sheel reinforcement for RCC work including stronghening, rutting, bending, planing in position and binding all complete upto plants free! Thermo-Heckunically Treated have of grade Fe-5000 octaors. Providing and laying in position ready mixed or site batched design mix concrete for crinformal orment concrete work, using marker aggregate and fine aggregate derived from	1		100	Total	420,00	Squ
-	Sheel reinforcement for RCE, week including stronghening, rutting, bending, planing in position and binding all complete upto gliath level. Therma-Bechanically Treated have of grade Fe-SSOD octoors. Providing and laying in position ready mixed or site batched design mix concrete for reinforced cruzent concrete work, using marse aggregate and fine aggregate derived from natural sources, Portland Posselana / Ordinary Portland / Portland slag centred.	1		100	Total	420,00	Squ
-	Steel reinforcement for R.C.C. week including strooptioning, nathing bending planing in position and binding all complete upto plants from the position and binding all complete upto plants from the SCOO or more. Providing and laying in position ready mixed or site batched design mix concrete for crisibar referencements work, using marrie aggregate and fine aggregate derived from carried sources, Porthand Proceedings of Ordinary Porthand J Portland stag reward advantages in recommended prospections as per 15. "BEG to accolerate retard acting of	1		100	Total	420,00	Squ
-	Sheel reinforcement for RCE, week including stronghening, rutting, bending, planing in position and binding all complete upto gliath level. Therma-Bechanically Treated have of grade Fe-SSOD octoors. Providing and laying in position ready mixed or site batched design mix concrete for reinforced cruzent concrete work, using marse aggregate and fine aggregate derived from natural sources, Portland Posselana / Ordinary Portland / Portland slag centred.	1		100	Total	420,00	Squ
-	Sheel reinforcement for RCE work including stronglioning, natting, bending, planing in position and binding all complete upto plants level. Thermo-Heckunically Treated have of grade Fe-55000 or more. Providing and laying in position ready mixed or site batched design mix concrete for miniformal or mentionance to work, using marks aggregate and fine aggregate derived from actual sources, Portland Posentian J Ordinary Portland J Portland slag council, administrate in measure administration as per 15 - 9000 to accolorary / retains acting of concrete, to improve distability and workshillity without impuring strength; including	1		100	Total	420,00	Squ
-	Sheel reinforcement for RCC work including stronglivining, rutting, heading planing in position and binding all complete upto plants level. Thermo-Heckunically Treated have originals Fe-55000 octoors. Providing and laying in position nearly mixed or site batched design mix concrete for combound cruent concrete word, using marse aggregate and fine aggregate derived from natural sources. Portland Procedure / Britishay Portland / Portland stag researd adorators in recommended proportions as per 15 - 2000 to accelerate / metad setting concrete, to improve durability and workability without impairing strength, including pumping of concrete to after of laying curring, carrings for all leads, but excluding the rud	1		100	Total	420,00	Squ
-	Sheel reinforcement for RCE, work including stronglivining, rutting, lending, placing in position and binding all complete upto plants level. Thermo-Beckmically Treated has originals Fe-SSOD octoors. Providing and laying in position ready mixed or site batched design into concrete for reinforced concrete work, using marse aggregate and fine aggregate derived from natural sources. Portland Postelana / Ordinary Portland / Portland slag coward , advantures in recommended proportions as per IS. 2010 to architectary instandanting of concrete, to improve discalidity and workshifty without impuring strength; including of concrete to site of baring curring, currings for allheads, but excluding the runs of centering, doubtering, finishing and reinforcement as per direction of the engineer-in-	1		100	Total	420,00	Squ
-	Steel reinforcement for R.C.C. work including straightening, natting, bending planing in position and binding all complete upto plants level. Therma-Beckenically Treated have of grade Fe-55000 or more. Providing and laying in position ready mixed or site batched design mix concrete for reinforced creard concrete work, using marse aggregate and fine aggregate derived from amount accuracy Footband Procedura. / Dedicacy Footband / Portland slag creased , advantures in recommended proportions as per 15: 9000 to acceleracy instandanting of concrete, to improve distability and workshifty without imputing strength; including jumping of concrete to after of laying curving, carriage for all leads, but excluding the road of centering, doubtering, finishing and reinforcement as per direction of the engineer-including for the following grade efficiences.	ī		100	Total	420,00	Squ
-	Sheel reinforcement for RCC work including strongliening, nathing, heading, planing in position and blocking all complete upto plants level. Thermo-Heckunically Treated have of grade Fe-55000 or more. Providing and laying in position ready mixed or site batched design into concrete for reinforced orment concrete work, using marks aggregate and flux aggregate derived from natural sources, Porthard Positions (Dirthmay Porthard) Porthard slag council, advantures in mecanism and propositions as per 15: "900 to accelerate entire after a situating of concrete, to improve durability and workshifty without impuring strength; including pumping of concrete to site of laying curing, curricge for allheads, but excluding the mod of contenting, doubting, finishing and reinforcement as per direction of the engineer-including for the following grade of concrete. Note: Betra consent up to 30% of the minimum specified remost current in design mix.	ī		100	Total	420,00	Squ
-	Steel reinforcement for R.C.C. work including straightening, natting, bending planing in position and binding all complete upto plants level. Therma-Beckenically Treated have of grade Fe-55000 or more. Providing and laying in position ready mixed or site batched design mix concrete for reinforced creard concrete work, using marse aggregate and fine aggregate derived from amount accuracy Footband Procedura. / Dedicacy Footband / Portland slag creased , advantures in recommended proportions as per 15: 9000 to acceleracy instandanting of concrete, to improve distability and workshifty without imputing strength; including jumping of concrete to after of laying curving, carriage for all leads, but excluding the road of centering, doubtering, finishing and reinforcement as per direction of the engineer-including for the following grade efficiences.	ī		160	Total	420,00	Squ
-	Sheel reinforcement for RCE work including stronghening, rutting, heading planing in position and binding all complete upto plants level. Thermo-Heckunically Treated have originals Fe-SEOD octoors. Providing and laying in position ready mixed or site batched design mix concrete for reinforced concentratives work, using marse aggregate and fine aggregate derived from natural sources, Porthard Fesculana / Defining Porthard / Porthard siting of concrete, to improve durability and workshipsy without imputing strength; including pumping of concrete to attend by any corresponding of concrete to attend facing and reinforcement as per direction of the engineer-include for the following grade of concrete. Note: Butta consent up to 20% of the minimum specified rement cortent in design mix shall be payable separately.	1		100	Total	420,00	Squ
-	Sheel reinforcement for RCE work including stronglivining, rutting, heading, planing in position and binding all complete upto plants level. Thermo-Heckunically Treated have originals Se-SEOD occurous. Providing and laying in position nearly mixed or site batched design into concrete for original cruent concrete word, using manner aggregate and fine aggregate derived from aximal sources. Porthard Procedures / Ordinary Porthard / Porthard stag cowned , advantures in mecanicanded proportions as per IS - 2003 to arcelerary/interdacting of concrete, to improve distribility and workshifty without impairing strength; including pumping of concrete to site of laying curring, currings for allheads, but excluding the end of centering, shuttering, finishing and reinforcement as per direction of the engineer-includes for the following grade of concrete. Note: Betra concent up to 20% of the minimum specified remost currient in design mix shall be populate separately. In case the concent content in design mix is more than 110% of the specified minimum.	1		100	Total	420,00	Squ
-	Steel reinforcement for R.C.C. work including strongleiering, natting, bending planing in position and binding all complete upto plattle level. Therma-Beckenically Treated have of grade Fe-55000 or more. Providing and laying in position ready mixed or site batched design mix concrete for reinforced created concrete for reinforced created concrete work, using marse aggregate and fine aggregate derived from arrand sources. Portland Procedura: / Profitsoy Portland / Portland slag created, advantures in recommended proportions as per 15: 2000 to arreferably instandanting of concrete, to improve distability and workshiftly without imputing strength; including pumping of concrete to after of laying curring, carriage for all levals, but excluding the end of centering, doubtering, finishing and reinforcement as per direction of the engineer-inchange for the following grade effectures. Note: Betra consent up to 30% of the miximum specified rement curried in design mix shall be payable separately. In case the consent report in design mix is more than 110% of the specified miximum entered in the contractor shall have discretion to either re-design the rate or bear	1		100	Total	420,00	Squ
6	Sheel reinforcement for RCE work including strongliving, rutting, bending planing in position and binding all complete upto plants level. Thermo-Nechanically Treated have of grade Fe-SSOD or more. Providing and laying in position ready mixed or site batched design mix concrete for reinforced criment concrete work, using marse aggregate and fine aggregate derived from natural sources, Portland Posselana / Defloary Portland / Portland slag council, advantures in recommended proportions as per 15: "PICS to arcelerate/retard setting of concrete, to improve distability and workshifty without impairing strength; including pumping of concrete to site of laying corning, corning for all leads, but excluding the and of contenting, distribute, finishing and reinforcement as per direction of the engineer-include proportion of the following grade of concrete. Note: Datha consent up to 30% of the minimum specified rement cortent in design mix shall be payable separately. In case the consent content in design mix is more than 1.10% of the specified minimum centent content, the contractor shall have discretion to either re-design the mix or bear the orangent.	1		160	Total	420,00	Squ
-	Steel reinforcement for R.C.C. week including strooptioning, nathing, bending, planing in position and binding all complete upto plants bere! Thermo-Beckenically Treated have of grade Fe-5000 occusors. Providing and laying in position ready mixed or site batched design mix concrete for reinforced concrete concrete work, using marse aggregate and line aggregate derived from actural sources. Porthand Proceduras / Britishary Porthand / Porthand slag covered advantures in recommended proportions as per IS: "BICI to acrolorate/ retard acting of succrete, to improve durability and workshifty without imputing strength, including pumping of concrete to site of laying curring, currings for all licids, but oxiding the unit of centering, distillering, finishing and reinforcement as per direction of the engineer-in-close for the following grade of concrete. Note: Botha consent up to 30% of the minimum specified rement current in design mix shall be payable separately. In case the consent content in design mix is more than 1.10% of the specified minimum exact content, the contractor shall have discretion to either re-design the mix or bear the order of content on MSS grade with minimum content of 330 kg/com	1		160	Total	420,00	Squ
6	Sheel reinforcement for RCE work including strongliving, rutting, bending planing in position and binding all complete upto plants level. Thermo-Nechanically Treated have of grade Fe-SSOD or more. Providing and laying in position ready mixed or site batched design mix concrete for reinforced criment concrete work, using marse aggregate and fine aggregate derived from natural sources, Portland Posselana / Defloary Portland / Portland slag council, advantures in recommended proportions as per 15: "PICS to arcelerate/retard setting of concrete, to improve distability and workshifty without impairing strength; including pumping of concrete to site of laying corning, corning for all leads, but excluding the and of contenting, distribute, finishing and reinforcement as per direction of the engineer-include proportion of the following grade of concrete. Note: Datha consent up to 30% of the minimum specified rement cortent in design mix shall be payable separately. In case the consent content in design mix is more than 1.10% of the specified minimum centent content, the contractor shall have discretion to either re-design the mix or bear the orangent.	1		100	Total	420,00	Squ
6	Steel reinforcement for R.C.C. work including strongleisting, natting, bending planing in position and binding all complete upto plants level. Therma-Beckenically Treated have of grade Fe-SSOD or more. Providing and laying in position ready mixed or site batched design mix concrete for reinforced errors concrete for reinforced errors concrete for reinforced errors of procedure. Providing and laying in position ready mixed or site batched design mix concrete for reinforced errors. Portland Procedure / Profit and in aggregate derived from armonic surrors, Portland Procedure / Profit and in progression as per 15: 2003 to arrobrately instant acting of concrete, to improve distability and workshifty without imputing strength; including pumping of concrete to other flaging, curring, carriage for all levels, but excluding the mid of centering, doubtering, finishing and reinforcement as per direction of the engineer-includes for the following grade efficiences. Note: Betta consent up to 20% of the minimum specified rement curried in design mix shall be payable separately. In case the consent roitent in design mix is more than 110% of the specified minimum excent matent, the contractor shall have discretion to either re-design the mix or bear the cost of extraorences: Concrete of M25 grade with minimum consent content of 330 kg/cmm. All works upto plinth level	1		100	Total	420,00	Squ
6	Sheel reinforcement for RCC work including strongliceting, natting, heading planing to position and binding altroughete upto plants level. Thermo-Hechanically Treated have of grade Fe-55000 crimors. Providing and laying in position ready mixed or site batched design into concrete for minformal criment concrete work, using marks aggregate and fine aggregate derived from actural sources, Porthard Position 2 forticing Porthard / Porthard dag council, advantures in reconsistent of propositions as per 15: "900 to accolorate/ matched dag council, advantures in reconsistent of laying corning, carriage for allheads, but excluding the end of castering, douttering, finishing and reinforcement as per direction of the engineer-including for the following grade of concrete. Note: Betra consent up to 30% of the minimum specified removal cartest in design mix shall be payable separately. In case the consent content in design mix is more than 1.10% of the specified minimum remeat matent, the contractor shall have discretion to either re-design the mix or bear the cost of extraorement. Concrete of N25 grade with minimum corners content of 330 kg/cmm. All words upon plints level.	1	116.10		Total	15610.60 11610.60	Ng.
6	Sheel reinforcement for RCC work including stronglivining, rutting, bending planing in position and binding all complete upto plants level. Thermo-Nechanically Treated have of grade Fe-SSOD occurrent. Providing and laying in position ready mixed or site batched design mix concrete for reinforced concrete work, using marse aggregate and fine aggregate derived from natural sources. Portland Procedure J Defloracy Portland J Portland slag council, advantures in recommended proportions as per 15. "PICS to arcelerate/retard setting of concrete, to improve distability and workshipty settlent impairing strength; including pumping of concrete to site of laying coung, corresponding for all leads, but excluding the and of contenting, distinting, finishing and reinforcement as per direction of the engineer-include proportion of the following grade of concrete. Note: Datha consent up to 30% of the minimum specified rement content in design mix shall be payable separately. In case the consent content in design mix is more than 1.10% of the specified minimum centent content, the contractor shall have distributed to either re-design the mix or bear the cost of extracences. Concrete of NOS grade with minimum centent content of 330 kg/cmm All works upon plants level Sourcete of NOS grade with minimum centent content of 330 kg/cmm ROC RETARNING WALL FOOTING	1	116.10 50.00	1.30	Total	15610.00 11610.00 11610.00	Ng
6	Sheel reinforcement for RCC work including strongliceting, natting, heading planing to position and binding altroughete upto plants level. Thermo-Hechanically Treated have of grade Fe-55000 crimors. Providing and laying in position ready mixed or site batched design into concrete for minformal criment concrete work, using marks aggregate and fine aggregate derived from actural sources, Porthard Position 2 forticing Porthard / Porthard dag council, advantures in reconsistent of propositions as per 15: "900 to accolorate/ matched dag council, advantures in reconsistent of laying corning, carriage for allheads, but excluding the end of castering, douttering, finishing and reinforcement as per direction of the engineer-including for the following grade of concrete. Note: Betra consent up to 30% of the minimum specified removal cartest in design mix shall be payable separately. In case the consent content in design mix is more than 1.10% of the specified minimum remeat matent, the contractor shall have discretion to either re-design the mix or bear the cost of extraorement. Concrete of N25 grade with minimum corners content of 330 kg/cmm. All words upon plints level.	1	116.10 50.00	1.30	Total	15610.00 11610.00 11610.00	Ng

1,140	DOR	BILL OF QUANTITY (RANDOM RUBBLE MASONRY RE	Qbr	Unit	Hate	Amount
95000	2021			(2)(1/1)	(In Rc)	(In Re.)
		SUB HEAD-I := EARTH WORK		-		
ı	27	Earth work in estavation by mechanical means (Hydraulic estavator)/manual means over areas (esteeding 30 cm in depth. 1.5 m in width an well as 10 sgm on plan) including getting out and disposal of estavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer inclusive.	8			
	2.7.1	Ordinary rock	266.40	Cum	412.95	11000988
2	235	Filling available convoted earth (excluding earls) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consoliding each deposited layer by mainting and watering, lead up to 50 m and lift auto 5.5 m.	24090	Criss	153.95	61176.56
		SUB BEAD-IL = CONCRETE WORKS				
3	4.20	Providing and beying in position ready ratural or site hatched design man conserve for piain remarks course work, using course aggregate and fine aggregate derived from natural sources. Portland Potardana / Ordinary Portland / Portland slag concert, admost area in recommended proportions as per 15: 9503 to accelerate/ retard setting of concrete, to improve the ability and workshiftly without impairing strength; including pumping of concrete to site of beying coring carriage for all leads, but excluding the cost of contering, shuftering and finishing as per direction of the engineer-in-clarge for the following grade of concrete. Note: Botra rement up to 10% of the minimum specified concent content in design mix shall be payable separately. In case the content content in design mix shall be apply able separately. In case the content content in design rate is more than 110% of the specified minimum cement content, the contractor shall have discretion to ether re-design the mix or bear the cost of extra cement.				
221	4201	Note: (1) Excess/less cement used than specified in this item is payable/ recoverable separately. (2) Fly ash conforming to grade 1 of 15 3812 (Part- 1) only be used as part replacement of OPC as per 15: 456. Uniform blending with remost 5 to be ensured in accordance with clauses 5.2 and 5.2.1 of 15: 456-2000 in the items of HMC and RMC.* (All words upto plants level).				
123	4.201.1	Concrete of M10 grade with minimum rement content of 220 kg/cmm	3.90	Com	0033.20	31329.40
2.0	1001121		5.000	100	5 10000	110000000
3,0		SUB HEAD-III - REINFORCED GEMENT CONCRETE WORK FORM WORK				
4	59	Genering and chartering including strutting, propping etc. and removal of				
43	591	form for all heights: Foundations, footings, bisses of columns, etc. for mass concrete	36.00	Sum	107.95	11086.20
-	() () () () ()	The second secon	-		-47170	77.000
b)	5.9.2	Walls (any thickness) including attached pilarters, butteresses, plinth and string courses etc.	10000	Sijn	66935	12051986
		STEEL REINFORCEMENT		27	- 1	
5	5.12	Steel reinforcement for IUCC work including straightening, cutting,	0	100		
	5.22.6	bending, placing in position and hinding all complete upto plinth level. Thermo-Nechanically Treated hars of grade Fe-5000 or more.	3246.00	Kg	89.65	2904660

RETAINING WALL

410

BILL OF QUANTITY (RANDOM RUBBLE MASONRY RETAINING WALL) DSR Amount Unit SLNo Description 2021 (In its.) Providing and bying in position ready mixed or site batched design misconcrete for reinforced commit concrete work, using come aggregate and fine aggregate derived from natural assures, Portland Prezidana / Ordinary Fortland / Portland slag central , admintures in recommended propertions as per IS: 9103 to accelerate/ retard setting of concerts, to improve durability and workability without impairing strength; including paraping of concrete to site of laying, ruring, currage for all leads, but 533 6 excluding the cost of centering, doublering, fluiding and reinforcement as per direction of the engineer-in-duage for the following grade of concrete. Note: Estra remest up to 16%, of the minimum specified cement content in design mix shall be payable separately. In case the coment content in design mix is more than 110% of the specified minimum rement nument, the contractor shall have discretion to e ther re-design the mix or bear the cost of extra cement. 5.33.1 All works upto plinth level 53311 21.60 Cum 7997.30 172741.68 Concrete of M25 grade with minimum rement content of 330 kg/cum. Random rubble pusoury with hard stone in superstructure above plinth level and apto floor five level, including leveling up with rement cancrete 7 7.2 1:6:12 (1 repent: 6 mane and: 12 graded done aggregate 20 pm neminal size) at window sills, reiling level and the like. Cement martar 1 6 (1 cement : 6 coarse sand) 40.50 Cum 8275.70 335165.85 1132494.65 Cost For 30 Rmt. Retaining Wall Cost For Per Rmst, RCC Retaining Walf Say Rs 37750.00

_	TAINING	WAL	NG	TAIN	RE	DETAIL MEASUREMENT OF (RANDOM RUBBLE MASONRY
Shi:		H	D.	L	NO5	DESCRIPTION
_	10000			2.	-	SUR HEAD-I - EARTH WORK
					8	Buth work in enswation by mechanical means (Hydraudic excession)/massal means
					ē	over areas (coreeding 10 cm in depth, 1.5 m in width as well as 10 sqn on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed
		- 1			8	lly Radiner-ia-charge.
_				25		All lands of sell
				A		PHUNDATION
§	266.40	3.700	2.40	36.00	1	DETAINING WALL
Cum	256.40	Total				
			17	7.		Filling available excavated earth in trenches, plinth, sides of foundations etc. in layers
						not exceeding 20cm in depth, coincidening each deposited layer by carming and
_	200.00	_	- 1			protering including lead up to 50 m and lift tupto 1.5 m.
_	266.40		- 33	-		Total Estra Facavation
_	-3.90		-	-	-	Resur PIX is foundation
-	-21.60					RCC in Foundation
Corre	240,00	Total				SCALCOLOROX.
-	200000			5 1		
-	7		-	-		CONTROL OF THE PROPERTY OF THE
					5	Providing and laying to position ready mixed plate centent concrete, using fly ash and
						conent context asper approved design nex and manufactured in fully automatic betching plant and transported to site of work in transit rature for all leads, having continuous
					<i>y</i> .	agitated inter, manufactured as per mix design of specified grade for plain rement
						concrets work, including purping of RMC from trausit autor to also of laying and
						curing, excluding the cost of centering, shuttering and finishing, including rost of curing.
						admotures in recommended proportions as per 15: 9103 to accelerate/retard setting of
					9	concrete, improve workshilty without impairing strength and dorability as per direction
		- 4				of the Engineer-in-charge sand and aggregate ferrived from natural sources
_				_		M-10 grade plain cement concrete [coment content considered @ 220 kg/cum]
				88 10		FIUNDATION
_	3.90	0.100	1.30	30.00	1	RETAINING WALL
Cum	3.90	Tetal		-		ACTION OF THE PROPERTY.
	Louise	100		2 13		- CASCATA-SACIL
_			- 0			BORN WORK
_		- 1	- 00	0 13		Centering and shottering including strutting, proposing etc. and removal of form for :
-	-	-	- 1		-	Foundations, isotings, lasers of calmina, etc. for mass cancerte
-	30.00	0.600	-	30.00	2	FOUNDATION FUTTAINING WALL
Same	36.00	Tetal		200.00	-	puranose wata
Septe	3000	Treat				
			- 17		5	Walls (any fluidment) including attached pilaters, butternoons, plints and string conven-
						ex.
	100.00	3.00		30,400	2	RECHREGUNING WALL
Sqtr	180,00	Total				
					()	isted reinforcement for R.C.C. work including straightening, cutting bending placing in
_			2.00	21.00		position and binding all complete upto plinth level.
	3240.00			41.00	1	Thermo-Mechanically Treated burs of grade Fe-5000 or more
М.,	324070	Total				Table transfer we see that the second second second second
_				_		Providing and laying in position ready mixed or site batched design mix concrete for
		- 1				prinfurced rement concrete work, using coarse apprepate and fine aggregate derived from
		- 1				natural courses, Portland Pozzolana / Ordinary Portland / Portland slag cement
		- 1			8	admixtures in recommended proportions on per IS: 9103 to accelerate/retard setting of
		- 1				concrete, to suprece durability and workability without impairing strength, including
		- 1			2	principles of concrete to alte of laying curing, carriage for all leads, but excluding the cost
					4	of centering, shuttering . Ininhing and reinforcement as per-direction of the engineer-in-
						charge for the following grade of concrete.
						Note: Estra coment up to 10% of the minimum specified cement content in design mix
						shall be payable separately.
					9	In case the cenent content in design mix is more than 110% of the specified minimum.
					8	consust content, the contractor shall have discretion to either re-dusign the mix or how
			- 00	A		the cost of extracement
	- 4		- 9			Congrete of M25 grade with minimum concentrantest of 300 to 2009
			- 0			Concrete of M25 grade with minimum centers content of 232 kg/cum All works unio plinth level
						All works up to plinth level
	21.60	0.600	1.20	30.00	1	
Cum	21.60 21.60	D.SDO Tetal	1.20	30.00	1	All works upto plinth level Foundation

	DETAIL MEASUREMENT OF (RANDOM RUBBLE MA	SONRY RE	TAIN	ING	WAL	I.)	
SNO.	DESCRIPTION	NOS.	L	B.	H	Area	Shui
7	Random militie mananty with hard stone in arpensionature above plinth level and upto floor flow level, including leveling up with remembrane rate 1.6-12 [1 courset -6 course sand : 12 graded stone aggregate 20 mm increased into 1 at worklow sills, noting level and the like.				1105		
3	General mortar Eri (1 rement - 6 course south	100	Ji wai			Loon	
3	RANDOM REBBLE MASONEY REYALKING WALL	1	30.00	0,45	3,000	40.50	
-			1000		Total	40.50	Cum

_		BILL OF QUANTITY (BOUNDARY	WAL	-1_		
L.No.	Ref. Code DSR 2021	Description	Qty	Unit	Rate	Amount
1.0		Plus directors and property	2 5	-		
1.0	2.6	SUB HEAD-1: EARTH WORKS Earth work in excavation by mechanical means (Hydraubic excavator)/manual means over areas (exceeding 30 cm to depth, 1.5 m in width as well as 10 sqn on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-change.				
1.1.1	2.6.1	All kinds of soil	3:18	CHIL	205.45	65234
1.2	2.7	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting not and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.				
121	2.7.1	Ordinary rock	9.53	CHU	412.95	3,933.60
1.2.2	2.7.3	Hard rock (blasting prohibited)	1905	cum	118430	22,562.34
1.3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	31.75	cum	253.95	8,063.42
2.0		SUB HEAD-II CONCRETE WORKS		-	-	
2.1	4.1	Providing and laying in position rement connecte of specified grade excluding the cost of contexting and shuttering - All works no to obtain level:				
211	4.1.8	1.48 (3 Cenent : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal stor)	135	ritin	6326,05	8,540.17
3.0		SUB HEAD-III :- RCC WORK	7 8			
3.1	5.30	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced rement concrete work, using rement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shattering, fluishing and reinforcement, including admixtures in recommended propertions as per 15, 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and disciplify as per direction of Engineer in-cluster.				
		(Note > Coment content considered in this item is @ 330 lig/cum. Excess/less cement used as per design mix is parable/recoverable separately).			3	
311	5.33.1.1	All works upto plinth level	7.27	etten	2997.36	59,127.72
321	533.21	All works above plinth level upto floor V level	1.56	CHIN	10080.15	15,677.25
	Connection	CHIEFE SCHOOLS CHARLES	7 - 5			11 200 200 700
3.4	5.22	STEEL REINFORCEMENT Steel reinforcement for R.C.C. work including straightening cutting, bending placing in position and binding all romplete upto plants level.				P. (1950 - 19
341	5226	Thermo-Mechanically Treated bars of grade Fe-500D or more.	929.34	Ka	89.65	83,315.52

Z. Mos.	Ref. Code DSR 2021	Description	Qty	Unit	Rate	Amount
3.5	\$22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending placing in position and binding all complete above plints level.				
351	123A6	Thermo Mechanically Treated burs of grade Fe-500D at more.	155.53	Kg	89.65	13,942.91
-		FORM WORK.	-	-		
36	5.9	Contering and shuttering including strutting, propping etc. and removal of form for				
4)	5.9.1	Foundations, flottings, bases of columns, etc. for mass concrete.	5.40	sqn	307,95	1,662.93
1)	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilovers	20.40	stra	60835	12,410.34
c)	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Strats	1402	squ	804.25	11,919.91
4.0		SUB HEAD- IV - STEEL WORK		- 3		
41	10.25	Steel work welded in bult up sections/ framed work, including rutting, histing, fixing in position and applying a priming root of approved steel primer using structural steel etc. so required.				
411	10.25.2	In gratings, frames, quant har, lattler, ratings, brackets, gates and similar works	36.72	lg	142,30	5,225.26
4.2	16.53	Providing and fixing concertina coil fearing with punched tape concertina coil 600 mm dia 10 metre openable length (1004 length 90 m), having 50 nos rounds per 6 metre length, upto 3 m beight of wall with existing angle iron Y shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.R.T. reinforced burbed wire, shall tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(E.B.T.) / Spring core (2.5mm thack) ware of high tensils strength of 165 kg/sq.mm with tape (0.52 mm thick) and weight 43.478 gm/metre (cost of RS, angle, C.C. blocks shall be paid separately)	1500	metre	303.65	4,554.79
5.0		SUB HEAD-V = BRICK WORK		- 1		2100-000
5.1	6.1	Brick work with common burst clay FPS (non-modular) bricks of class designation 7.5 in foundation and plinth in				
5.1.1	6.1.2	General moetar 1:6 (1 empent : 6 course sand)	2,23	100	6658.25	14,916.27
5.2	6.4	Brick work with common burnt clay FPS (non-modular) bricks of class dissignation 7.5 in superstructure above plinth fevel up to floor V level in all shapes and sizes in				
521	641	Cement mortar 1:4 (1 cement : 4 coarse sand)	7.61	con	8517.10	64,806,53
6,0		SUB HEAD - VI - FINISHING WORKS				
6.1	13.1	\$2mm cement plaster of mix:	1			
6.1.1	13.1.2	1:6 (3 rement :6 fine sand)	37.73	sign	282.00	10.638.45
63 A	13.2	15 nm rement plaster on the rough side of single or half brick wall of mix:	31 15			
314	13/2/2		37.73	200	32400	12,222.90

52. No.	Ref. Code DSR 2021	Description	Qty	Unit	Rate	Amount
6.2	13,52	Finishing with Epoxy paint (two at more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate printing cost, preparation of surface, etc. complete.				
621	35.52.1	On steel work	485	squ	201.70	977.65
63	13.45	Pinishing walls with textured exterior paint of required shade				5
63.1	13.45.1	New work (Two or more coats applied @ 3,28 kr/10 sqm) over and including priming coat of exterior primer applied @ 2,20kg/10 sqm	75.45	son	245.00	18,485.25
		TOTAL COST FOR 15.0 M BOUNDARY WALL				3,72,535.55
		COST PER RMT		- 8		24,836.00

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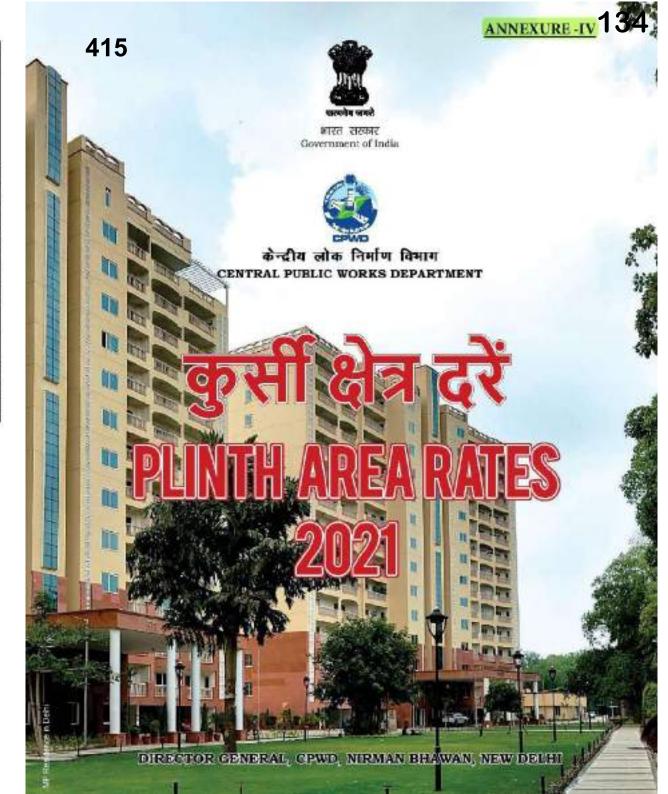
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	The state of the s	ARYWALL COST FOR	_		minute.			
L.No.	SUD HEAD-1 : EARTH WORKS	Detadle	The case	heagth	N LAKE	Bight	Qty	Mak
10								_
	liath work is exception by sechainst creas (Eydrantic	2						
ET.	econvotes)/manual muons over areas (corecting 30 via in depth, 6.5 m in width so well as 10 ages on plan) including	8						
**	petting out and disposal of exemited earth lead agts 50 mg	E .						
	and Bill up to 1.5 as, as directed by Destroyer in-charge.		5.1					
_	Althorhofosi			_				
_	ALEGO OLINE	Taking 300 offset from		-				-
	Pt.	reals footing the for	6	2:18	218	1.200	31.76	3
	T	working state	100	-77	300	70733		
=							311.75	CX
				_		Use 10%	3,43	600
	Earth work in exception by performed onces (Bydonde)							
	excavated/material means over atrust (exceeding 30 are in	1						
1.7	depth, 1.5 or in width to well as 18 opin on plant including							
	getting out and disposal of expected earth lead upto 50 m							
	and lift up to 1.5 m, as directed by Engineer-incharge			-			1 3	
151	Ordinarrinch			_		20% fram above	9.33	688
122	Bland rock: (blasting probibited)		-	-	_	00% from alove	19,05	600
_	Eding available occurated earth (excluding exch) in		-	_				-
	previous, plieth, sides of finantiations etc. in larges not	2					111	
1.3	exceeding fixes in depth, respondating each deposited					Total	31.75	can
1000	layer by ranging and votoring, lead up to 50 to and 88					0-00000	99009	:00
	men i Sun							
	(B000000000000000000000000000000000000	-					- 0	
								-
_			-	-				_
1.9	SUB-HEAD-RI- CONCRETE WORKS			_				-
-	Preveding and lating in position comest concrete at		1	_			-	
2.1	specified grade excluding the cost of centering and							
	startedag - All work up to plotts level							
Z11	1.4df (1 Ground: 4 rooms and (2 me-B1) : 6 godel about							
	Sacrepate 40 (san presidual site)		1	100		374.5		-
	For colours, Condition	M06-15/2+1	6	1.50	1.53	0 100 Yetul	1.153	-
_			-	-		Total	1,35	Las
10	SUB HEAD-II > RO. WORK		1				-	-
-	CLUMM IN LANCE TORRE							
	Providing and lighting in position marking habited and							
	machine rated dissign min M-25 grade commit concrete							
	for reinforced content controls work, noing content							
	content as per approved design not, to hading pumping of							
33	content as per approved design not, to hading pumping of concrete to site of liaming but excluding the cost of							
33	context as per approved design not, to hading pumping of concrete in site of liaring but excluding the cost of entering, distorting fluiding and ministeriorate.							
33	context as per approved design rate, to hading pumping of contexts to side of fairing but excluding the cost of sentering, districting fluiding and minforment, including administration to recommended properties an apper							
33	context as per approved design rate, including pumping of concrete to side of Saring but excluding the year of entering, districting, fluiding and ministronauch, madeling administrate to recommended properties an per St. 9000 to accelerate, related setting of concrete, improve							
	context as per approved design rate, to hackey pumping of contexts to side of fairing but excluding the cost of sentering, distincting fluiding and minforcement, including administrates to recommended properties an apper 55 9100 to accelerate, return setting of concrete, improve markability without impairing energet and distributely an overdirection of fluidings of accelerate.							
20	context as per approved design rate, including pumping of concrete to side of Saring but excluding the year of entering, districting, fluiding and ministronauch, madeling administrate to recommended properties an per St. 9000 to accelerate, related setting of concrete, improve		a sile					
20	content as per approved design mix, to hading pumping of concrete to side of fairing but excluding the cost of sentering, districting fluiding and mixinforment, including administrate in recommended properties; as per \$5, 2000 to a relevable, reliand settling of concrete, supprove searchitectured business consistency and charactery as and distriction of Business characters. All withoughs plants level Column flooting.		6		1.50	629	405	
20	context as per approved design rate, to hacking pumping of contexts to site of fairing but excluding the root of sentering, dustioning fluiding and misticement, including administrates to recommended properties as per \$5,900 to a relevable, retain setting of conserve, improve weak-below without toquaring strongst and durability as see direction of Rootsons in others. All works capts plants level Columns flecting (Columns below)	N-12-010-000-023	b.	6.23	0.23	8.87	0.38	
20	content as per approved design mix, to hading pumping of concrete to side of fairing but excluding the cost of sentering, districting fluiding and mixinforment, including administrate in recommended properties; as per \$5, 2000 to a relevable, reliand settling of concrete, supprove searchitectured business consistency and charactery as and distriction of Business characters. All withoughs plants level Column flooting.	H-12030000-023		6.23		0.67 0.65	3.04	Ger
20	context as per approved design rate, to hacking pumping of contexts to site of fairing but excluding the root of sentering, dustioning fluiding and misticement, including administrates to recommended properties as per \$5,900 to a relevable, retain setting of conserve, improve weak-below without toquaring strongst and durability as see direction of Rootsons in others. All works capts plants level Columns flecting (Columns below)	H-12-010-00-023	b.	6.23	0.23	8.87	0.38	Cine
	context as per approved design rate, to hacking pumping of contexts to site of fairing but excluding the root of sentering, dustioning fluiding and misticement, including administrates to recommended properties as per \$5,900 to a relevable, retain setting of conserve, improve weak-below without toquaring strongst and durability as see direction of Rootsons in others. All works capts plants level Columns flecting (Columns below)	B-12-010-0 N-0,23-	1	638 1500	0.45	0.67 0.65	3.04	Car
3.6.2	content as per approved design mix, to hading pumping of concrete to side of fairing but excluding the cost of earliering, districting fluiding and mixinforment, including administrate in recommended properties; as per \$5, 2000 to accelerate, related setting of concrete, supervi- ces Subtley without topicing energy and districtly as acceleration of Encironcia scharae. All works copic plants level Column below glouts. Plants from all works above plants level and works above plants level Encountering.	H-12-010-000-023-	1	6.28 15.00	0.45	0.45 Vetal	0.38 3.66 7.27	Cier
3.6.2	content as per approved design mix, including pumping of concrete to side of facing but excluding the cost of contents, shottering finaling and mixincronsent, including administrate in recommended properties a super \$5.900 to a relevate, retailed setting of oncerts, turprove sockabitity without impairing energy), and charatity as are disturbed finalised inserts. All works once plants level Column factor gitath and all works once plants are as a final serious All works above plants have upon face Views.	H-12-010-030-023-	1	638 1500	0.45	0.67 0.45 Vetal 248 0.23	0.18 3.94 7.27 9.76 0.79	
3.6.2	content as per approved design mix, to hading pumping of concrete to side of fairing but excluding the cost of earliering, districting fluiding and mixinforment, including administrate in recommended properties; as per \$5, 2000 to accelerate, related setting of concrete, supervi- ces Subtley without topicing energy and districtly as acceleration of Encironcia scharae. All works copic plants level Column below glouts. Plants from all works above plants level and works above plants level Encountering.	H-12-010-0 W-0.23	1	6.28 15.00	0.45	0.45 Vetal	0.38 3.66 7.27	
3.6.2	content as per approved design not, to hading pumping of concrete to side of faming but excluding the cost of contents of durantees for the contents, and make former and make the properties as per \$5, 2000 to accelerate, maked setting of concrete, superve was saiding without to paying strongst and charactery as acceleration of Postmorechark area. All works copic plants level Column forting. Column betwee plants are properties of the set of the se	H-12-010-030-0,73	1	6.28 15.00	0.45	0.67 0.45 Vetal 248 0.23	0.18 3.94 7.27 9.76 0.79	
3.6.2	context as per approved design not, to locking pumping of concrete to side of faming but excluding the root of contexts, dustoring, fluiding and mistorement, meloding administrates in recommended properties; as per \$5, 2000 to a relevable, retain setting of concrete, improve workshifting without impuring strongst and durability as need direction of Bostones dust have a context on the party of the Colombia footing. Colombia footing. Colombia footing. All words above plinth level upon Story Views. But Colombia. But Colombia.		1	6.28 15.00	0.45	0.67 0.45 Vetal 248 0.23	0.18 3.94 7.27 9.76 0.79	
32	content as per approved design mix, including pumping of concrete in site of faming but excluding the cost of contents in destroys, destroys, fluiding and mixinomenest, including administrates in recommended properties a super \$5, 2000 to a relevable, reliarly setting of concrete, superove workshops without topouring strongst, and describing an acciding formation of Resistance Analysis of Column Reliance (Resistance) Resistance in administrate Column Reliance (Resistance) Resistance in administrate Column Reliance (Reliance Included Resistance) Reliance (Reliance Included Resistance) Resistance (Reliance Included Resistance) Reliance (Reliance Including Reliance Including Reliance Including Reliance Including Reliance (Reliance Including Reliance Including Reliance Including Reliance (Reliance Including Reliance Including Reliance Including Reliance (Reliance Including Reliance Including Reliance Including Reliance Including Reliance Including Reliance (Reliance Including Reliance Inclu		1	6.28 15.00	0.45	0.67 0.45 Vetal 248 0.23	0.18 3.94 7.27 9.76 0.79	
32	content as per approved design mix, to hacking pumping of concrete to side of faming but excluding the root of contents of dustoring. Insulaing and mixinforment, motivating administrates in recommended properties; as per \$5, 2000 to accelerate, mixed setting of concrete, improve excluding virtual stages and charactery as acceleration of Enciroprolated area. All works copic plants level Column fortune. Column factors plants level Column factors plants and charactery plants. Plants from the plants of the plants of the plants of the plants. See Column factors plants level Column factors plants from the plants. See Column factors plants are plants. See Column factors plants are plants. See Column factors plants are plants from the plants of the plants of the plants of the plants.		1	6.28 15.00	0.45	0.67 0.45 Vetal 248 0.23	0.18 3.94 7.27 9.76 0.79	
32	content as per approved design mix, including pumping of concrete in site of faming but excluding the cost of contents in destroys, destroys, fluiding and mixinomenest, including administrates in recommended properties a super \$5, 2000 to a relevable, reliarly setting of concrete, superove workshops without topouring strongst, and describing an acciding formation of Resistance Analysis of Column Reliance (Resistance) Resistance in administrate Column Reliance (Resistance) Resistance in administrate Column Reliance (Reliance Included Resistance) Reliance (Reliance Included Resistance) Resistance (Reliance Included Resistance) Reliance (Reliance Including Reliance Including Reliance Including Reliance Including Reliance (Reliance Including Reliance Including Reliance Including Reliance (Reliance Including Reliance Including Reliance Including Reliance (Reliance Including Reliance Including Reliance Including Reliance Including Reliance Including Reliance (Reliance Including Reliance Inclu		1	6.28 15.00	0.23 0.45 0.258 0.238	2.48 0.23 Tetal	0.18 3.94 7.27 9.76 0.79	
32	content as per approved design mix, to hacking pumping of concrete to side of faming but excluding the root of contents of dustoring. Insulaing and mixinforment, motivating administrates in recommended properties; as per \$5, 2000 to accelerate, mixed setting of concrete, improve excluding virtual stages and charactery as acceleration of Enciroprolated area. All works copic plants level Column fortune. Column factors plants level Column factors plants and charactery plants. Plants from the plants of the plants of the plants of the plants. See Column factors plants level Column factors plants from the plants. See Column factors plants are plants. See Column factors plants are plants. See Column factors plants are plants from the plants of the plants of the plants of the plants.		1	6.28 15.00	0.23 0.45 0.258 0.238 766al 803	2.48 0.23 Tetal	0.98 3.94 7.27 0.76 0.79 1.58	
32	content as per approved design mix, including pumping of concrete in site of fairing but excluding the cost of contents of dustrating flushing and mixformanest, including administrative in recommended properties a super \$5,900 to a relevable, reliable stilling of concrete, superover excluding volumes traparing strongst, and dustrating as and distributed flushing seasons and an administrative flushing flus		1	6.28 15.00	0.23 0.45 0.258 0.238	2.49 0.23 Tetal 0.23 Tetal 6/3g/cms	9.36 7.27 9.76 9.76 9.79 1.58	Cer
32	content as per approved design mix, including pumping of concrete in site of fairing but excluding the cost of contents of dustrating flushing and mixformanest, including administrative in recommended properties a super \$5,900 to a relevable, reliable stilling of concrete, superover excluding volumes traparing strongst, and dustrating as and distributed flushing seasons and an administrative flushing flus		1	6.28 15.00	0.23 0.45 0.258 0.238 766al 803	2.48 0.23 Tetal	0.98 3.94 7.27 0.76 0.79 1.58	
32	content as per approved design not, to hacking pumping of concrete to side of faming but excluding the cost of contents of dustrates, fluiding and mistorement, including administrates to recommended properties as per \$5, 2000 to accelerate, miseries estimated properties as per \$5, 2000 to accelerate, miseries estimated properties and per \$5, 2000 to accelerate, miseries estimated properties and dustrately as accelerated for transfer in the content of t		1	6.28 15.00	0.23 0.45 0.258 0.238 766al 803	2.49 0.23 Tetal 0.23 Tetal 6/3g/cms	9.36 7.27 9.76 9.76 9.79 1.58	Ger
32 34 343	content as per approved design mix, including pumping of concrete to side of Saines but excluding the cost of contents of dustrates, flushing and mixinorment, including administrates in recommended properties a super \$5,900 to a relevate, reliad setting of concrete, improve workships without teaparing energy and dustriately as and distributed flushing to the contents of Saines enchance. All works color plants level Colorest better plants and plants and distributed flushing the colorest plants have to color plants level. Plants flushing All works above plants havel upon Sacri Views For Colorest to the color plants for the color of the colorest plants for the colorest plants of goods for 6000 or more.	Total REC from above	1	6.28 15.00	0.23 0.45 0.258 0.238 766al 803	2.49 0.23 Tetal 0.23 Tetal 6/3g/cms	9.36 7.27 9.76 9.76 9.79 1.58	Cer
32	content as per approved design mix, including pumping of concrete to side of fairing but excluding the cost of contents of destroing floating and mixinforment, including administrates in recommended properties as per \$5, 2000 to a relevable, reliarly setting of concrete, supervise contents of the cont	Total REC from above	1	6.28 15.00	0.23 0.45 0.258 0.238 766al 803	2.49 0.23 Tetal 0.23 Tetal 6/3g/cms	9.36 7.27 9.76 9.76 9.79 1.58	Ger
34 34 35	content as per approved design mix, including pumping of concrete in side of Saine but excluding the cost of contents; dustrating illustrating and mixinorment, including shouldness in recommended proportion as per 85 200 to a relevate, mixed setting of coverts, toposed workshots of factors and setting of coverts, toposed workshots of factors in what a content is red. Column factor plants level Column betwee plants level Column betwee plants level Ear Column betwee plants level plants in position and highly an including the plants of the column between the col	Total REC from above	1	6.28 15.00	0.23 0.45 0.258 0.238 766al 803	2.40 0.45 Tetal 2.40 0.23 Tetal 4*3g/cons 300 Tetal	9.36 7.27 9.76 9.76 9.79 1.58	Cer
32	content as per approved design mix, including pumping of concrete to side of fairing but excluding the cost of contents of destroing floating and mixinforment, including administrates in recommended properties as per \$5, 2000 to a relevable, reliarly setting of concrete, supervise contents of the cont	Total REC from above	1	6.28 15.00	0.23 0.45 0.28 0.28 0.28 Total 806 7.27	2.49 0.23 Tetal 0.23 Tetal 6/3g/cms	9.36 7.27 9.76 9.76 9.79 1.58	Cer
34 34 35	content as per approved design mix, including pumping of concrete to side of Saines but excluding the cost of contents; dustrating illustrating and mixinforment, including administrates in recommended properties as as per \$5.900 to a relevate, reliad setting of concrete, improve excluding vibrant topouring strongst and durability as and distributed floatings concludes. All words color faithful level Coloran before plants level Coloran before plants level Coloran before plants level For Coloran All words above plants level plants from Views For Coloran Be an STELL RESERVICE DESCRIPT Steel mixiferences for ECC much including the plants and basis and plants and basis and provide and plants and basis and provide provides and provid	Total REC from above	1	6.28 15.00	0.23 0.45 0.238 0.238 Total 8.05 7.27	2.40 0.45 Tetal 2.40 0.23 Tetal 4*3g/cons 300 Tetal	9.36 7.27 9.76 9.76 9.79 1.58	Cer

4.D.		ARYWALL COST FOR					1	
-	Steel work welded in bulk up sections/ framed work						1	
-	including cutting, betating fixing in position and applying a				- 1			
6.1	privates coal of approved steel private union structural							ı
	ideletz armound							
	in gratings, frames, goard har lables, radings,							
	brackets, gates and stradar works.					6.2T/06.54		
	AND KYEAY OND HOUSED BUILD	1006-10000000000004.00	0.	1.80		5.98	32	
						Total	37	Na
_					-	77170011	-	
-			-	_			-	_
	Providing and fising concerting roll learing with punched							
	tape convertina coli 600 mm dia 16 metre operable length	i i						ı
	(total length 90 m), laying 50 non rounds per 6 metre	E						ı
	South, apro-3 to bright of wall with exating augh iron Y	8						ı
	shaped placed 2.4 m or 5.00 m apart and with 9 horizontal							ı
	ILET, retrifected barbed wire, and tied with GL staples and GL right to extain bestrootal, including recognity builts							ı
**	or Gil harfied or ten lied to single tens, all enoughers are per-	8						ı
	direction of flighteer-in-charge, with reinforced buried	E						ı
	tupe(RB.T.) / Spring rore (2.5nm thirts) wire of high							ı
	beside strength of tell bg/ ognus with tipe (I 52 use							ı
	thirk) and weight 43.470 gm/ metre (cost of MS, angle.)							I
	CC blocks shall be paid separately)		000				I de	
_			-	_		5-111-12	1	
_	New and old benndary scall leigth		-			Tetal	15.00	20.4
711	Settlement of the Control of the Con			_			1	1400
5	SIR HEAD-V): BRICK WORK							_
	Brick work with F2.5, bitchs of class designation 25 in							
5.1	the adjet too, and pribath to ;						1 3	
200	Celeral montar field creent in many sueff.						10.00	
_	Explotes	1				1441000	1	
	(30000000		1	15.00	0.345	0.150	0.78	
_			1	15.00	0.258	6.42	1.43	
_				-	-1	Trial	2.23	E00
	man to construct to the construction of the PMC from an extensive				-		_	
5.2	Brick work with common transplacy E.P.S. (non-nectator) bricks of class designation 7.5 m papers true turn also re-							ı
-	printh level up to fivor 3 level in all shapes and sizes in a							
_			-	-	-		-	_
_	Brankey red length	1215	1		0.258	2100	H 20 -0.67	-
-	Desi culturus		4	P.25	0.230	Total	7,64	
	Zarana za kantana za						1	-
6,0	SUB-HERD - VE - PINISHING WORK							
6.1	1.5 was created planter on the resign was of single or half							
or.	brick wall of rate:						10.0	
_	L6 II cment 6 course mail	100000		48.77		2000	1	_
_	Beauty and length	1-15	-	15.00		2.600	77/4	_
_	Searchey red TOF	I-15	1	15.00		0.230 Yesel	23,45	190
							1	-
6.2	Synthetic enanci point		-				1	
-	Oratorlyork For Yangle section		1	35.72	0.73		486	
	PRI LANDE STORM		-	30.12	0.17	Total	4.85	vite
		2						-
6.1	freeting wife with bottom entertor point of regularit shade:			-				
	Stew work (Two or men cours applied @ 3.26 htt/10 appl)	2					1 1	1
	over and including priming mult of exterior primer applied on 2 2004/103-000							
	Brandary seed length	Let's	2	15.00		2400	72.00	
_		Luis	1	15.00		0.230	3.45 75.45	100
	Readory scal 109	Lutz	-	- Riddon	-	Total	44000	999

			PROPO	SED CON	STRUCTIO	N OF POLICE O	4 114 4 00	BATTALIC	NAT H	MLAKANDI	, ASSAM						
- 4		Plot Area	11512337			SPELLAL	I SED EAST W	URKS		1			1			E .	1
-		Grand Resolves	-21469.88						_		1					1	_
		External Area	05653.87	-	_		_				_	_					
_		All personal relative to the expectation	45125.00								_	_					-
-	-	Total Built-Up Area	29909.00				-	-			_	-		-			-
-	_	Staff-Up Area For Phase-I	TO A POST CONTRACTOR	-	_						_	_			_		-
		Bull-19 Area For Phone-II	15256,00	- Color	701ALB03	DOMENT				PHASE-LDCV	TI OF WINT				PHASE O DEV	TI ORNITATE	
S.FVA.	FAR 1021	Beautylion of Hem	Qty	their	Sinke		t in Rc	Оy	Unit	Rate	100000	win to	Qty	their	Rote	Amoun	et in its
	Bone.				11111111111	Electrical	PERMIT				Electrical	PHARE	-			Electrical	PEARS
		SIN STATIONE QUIPMONTS			-	Cocarna	- rm arr	- 10			DISCHARGE	PRACE				- ERCHONI	TH ACC
4	62.1	Reporting installations (relong and commissioning of TREV/E-001kV or TREV/E-001kV or IREV/E-001kV or IREV/E-00		per KVA	1,000.00	94,94,900,00		662.00	per XVA	1,000.40	5958,000.00		138.00	perKVA	9,000.00	30,42,000.00	
2	63,1	Supplying installation resing and consuminating of Sietz type Dis. Set. AHD Point, that Fronting Analos from DC Set to mounted panel, match calls, florthing of DC Set and AHT Point, DC set on hant piping as per CPCR norms unclusion allied worth.	150.00	perkits	55,000,88	11,44,600,00		256,78	p=+17/5.	90,000.00	25,00,000.00		100.00	period	10,066.00	10,40,0004	
		UNCHERRIPTED POWERSUPPLY				7	- 5	- 13		2						22	
2	1.4.1	Supplying, installation, lesting and commissioning of ordine 3 phase IPS Nature with 30 minutes back up to belong butteries, interes meeting dales, buttery racks etc.	50.90	perKVA	29,000,99	16.96,000.00		33.00	per 10/5	29,000.00	6,64,990,00		12.00	ренКУА	2006898	3,40,00088	
ä	ant	SURAR PHOTO VORTAIN POWER CAMERATION SYSTEM Supplying, leadefactor, costing and remaindening of Grid Researche, real top wide photo to help proving selected according industry space from:	50.00	per KNp	\$6,000,22	25,58,600.00		180	perKinp	\$5,000.00	-		50.00	perKWp	55,000.00	27,50,000.00	
3	101	SCHAR WATER HERTONG SEVICES Supplying, britalisher, toping and enterantening of solar water bearing system with head exchanger type inchaling electrical leader backing, make up water tank but without report.	250,00	100 kiere per dar	22,900.86		\$4,25,00000		100 bters per class	22,500.00		0.	256:00	300 likem per day	22,968.86		\$6,25,000.00
6	60.1 E 10.2	CCTV SYSTEM Supplying, installation, testing and estimates oring of IF Smoot GCTV system for building or only comprising a IFE Free Connects, colding, recording, shaping system and hard some ordinary support. [Rate applicable on total pitch force)							- 1,10								
_	_	Ferfixend Sevellage (Fer Caupus)	89,651.87	permiss.	200.88	175,38,774.00		44.826.91	permit.	200.80	8905,38000	-	44,856.93	person.	265.00	89,65,386,60	_
7	6.13.3	INTERNATIONALISM WATER SEPTEM STATES Supplying, installation, forting and connectioning of Mydroperometric water supply system countries; of planage, perimande basis, Nationalismous Planed received panel, 1976, their received layer, 2 whose, college, with panel or according to the connection plane, values, college, with panel or according to the panel.	LSOQUE	per 1794	1,50038		22,56,00000	756.00	perLPM	130040		11,2560430	756,00	per LIPM	1,561:00		II,25,000.00
		STREET LIGHTING WITH LED					- 3	- 6						33 0		87 8	
0	4.19.1	mont/Pofrovoj/Lawke ope lighting for the outlie Compen (Rate apalicable on whaleke area)	10,651.07	picans. (Not too)	150.M	134.46890,50		44,826,94	per iqu. (Mot Area)	150,00	672484170		44,820.93	persons (MetAma)	139.00	67.24/39950	
	*	STPYETPPLANT Supplying, and addition, leading and communicating of STP/ETP of appropriate to broken formaling Dell Works (compa plant room). Testing Testiment str. for the Building common.						-									
Ä.	+20.1	Phot on UPIO SE CLD	50.80	per ficesoral Lit	25,000.00		31,56,000.00	5e.00	per thousand Life.	25,000.00		17,50,849,00	72	per element Un	75,000.00		20
ħ	6,20.2	ADDESTRA RELEVERY CLU OF Plantain SORAD TO 100 ELD	50.00	Frommed Life	60,000,00		30,00,000.88	58,00	thousand Mr.	94,000.40		11.00,941.00		theorard Un	60,000.00		
ě	8.20.7	ADERCYNA FOR EVERY SUE OF Plant after above, 1990 KUD ARD ADOVE	1:30,40	frommen) Lir	\$5,000,00		75,00,000.00	iseae	thoseset Lit	\$9,000.00		15,0090930	29	thousand.	So,ces-de		¥.
91	-	MOTORIZED STOCK GATON	2.60		Z.BODOSOHE	16,98,888,00	100000000000000000000000000000000000000	2,00	pergate	\$,00,000.00	1031,000.00			pergula	5,00,000.00	* +	1
11	MIL	Water Trystment With Bit	1.00		44.51,835,00		44,51,835.04	1.00		44,51,835,00	1	44.51,895.90		hb	4451,815.00	13	
17	MR	AND A PART	10.00	· Control Control	1.75000.89	-	45,71,98588 17,56,000.88	3.00 7.00	Set.	1.75.000.00		27,1283130 12,2589430	3,00	ALC: UNKNOWN	10427788 17508688	-	\$25,000.00
-		Servago & Cristavoo Pasigis	BL-MI		-		1,54,000,00	146	-	2.241.00		12.550.45	3381	- 51	21444	0	4,5144.93
		TOTAL SAM COST AS PER CPWD PLINTS AREA BATE				100,28,854.50	20000000			K	TOR. 17. 123-20	277,64,666.00		()		238,21,425,00	58 PR 554 00

		Subsoil Investigation Work	7		V - 35	
SNo.	Code	Description of New	Qty	thir	Rate (InRs.)	Amount (In Re.)
1	28.1	Collection from the field and tenting in the laboratory of auditionized and sample for subsoid savestigation (as per microard its colle) be open date estimate. Did man die. Beringli through dancy soil layer, founds soil layer, dandy clay tambe sit layer, for one constitution in tention of layer and the layer of layer, or other hand of penetration beigner? I and collection of SPT samples, elementation of ground to the table, upot from servey to the tentionation and corrying out RL. from neurost BML alternative test particle size analysis, hydrometer tent, logisf limit describing plottle limit distributions operate growty (determination, trivial tent, direct door test, accordingly compensation test, consolidation test) including preparative of subsections of subsection report complete with recessary printing and binding (nanismum 6 content).				
		A. Boring (i) Construction of 100mm band work buring through all types of cycle; sandy (lay, sity sand, afty clay soil excluding transportation charges.	1500	En	675.00	10,125.00
		8. Standard Provincialized (S.P.T.) (i) Carderline of SPT at equal interval of 1.5 m or change of strata whichever is order and collection of disturbed and sample from SPT sampler including process activities action blocking.		fm.	90.00	900.00
_	-	C. Laboratory test		-		
_		(i) Furthele sterv couly in [seet niming]		Per Test	\$60.80	1,700.0
_	-	(b) Determination of Resid limit test (b) 2 points (c) Determination of Plants Limit test	10.05	Der Test	352.00	1,400.00
_	-	(vo. betermination of Plants Land Irea.		Der Test	90.00	900.00
_		[16] Determination of Number Control Inst. [16] Determination of bulk density test.		Per Test	70.00	700.00
_		(viii) Determination of Specific Growth test of fine grained will.		Per Test	105.00	1.050.00
		(no Determination of Direct shour strongth	*****	Lot 1686	302.00	1,010000
_		(1) Zporeti	6.06	Per Test	325.00	1,920.00
		(iii) Determination of consolidated drain test determination of the absor- strategib parameters of a specimen tested in consolidated drain trincial congression test without measuring your water pressure, for transitiest obser- strategib parameters of a specimen test of a meconsolidated annual trained compression test without measuring pow coder pressure by transial test (b) 2 matrix.	510	Per Test	961.00	4300.00
		(xii) Determination of amountized compressive strength (b) 2 points	510	Per Test	251.00	1,255.00
		(viii) Determination of consolidation properties of Smi. (b) 2 points	8.00	For Test	293.00	2,030.00
		TOTAL COST OF ONE BOILE			1	39,310,00
		TOTAL COST FOR SENIOS BORE	50.09	e	30,000,00 6,707,AL	15,01,010.0





कुर्सी क्षेत्र दरें PLINTH AREA RATES 2021







FOREWORD

Plinth Area Rates published by CPWD is a useful technical document for preparation of preliminary cost estimate of projects and development works by engineers in construction industry. This publication is not only being used by CPWD but also by other organizations, PSUs, builders, architects and valuation experts.

Plinth Area Rates was last published in 2020. It has become necessary to revise it to align the GPRA specifications with the latest housing up-gradation norms of MoHUA, to synchronize plinth area calculation method with provisions of IS 3861:2002 and also to incorporate useful suggestions by field units and other stakeholders. Hence, this updated version of Plinth Area Rates is published as Plinth Area Rates 2021.

I wish to place on record the commendable work done by Shri Dharmesh Chandra Goel, Addl. Director General. (Technical), Shri Vinayak Rai, Chief Engineer (CSQ), Shri Divakar Agrawal, Superintending Engineer (TAS), Shri S N Jaiswal, Executive Engineer (CSQ), Shri Mukesh Varma, Chief Estimator (CSQ) and CSQ team in bringing out the Plinth Area Rates 2021 in short time.





Oharmesh Chandra Goel Additional Director General (Technical)



भारत सरकार Government of India



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PREFACE

- Plinth Area Rates published by Central Public Works Department is one of the most comprehensive and useful technical document used by CPWD, PWDs, Other Govt. Departments, PSUs. Builders, Engineers and Valuation officers for preparation of Preliminary Estimates and Rough Cost Estimates for Offices / Colleges / Schools / Hospitals and Rosidonial Buildings. This latest updated version of Plinth Area Rates 2021 is 10° edition since 1955.
- CPWD field units and others in the construction sector have accustomed themselves with the changed format of PAR 2020. This edition is updated as per plinth area narros approved by MoHUA in August 2013 synchronized with up-gradation norms approved by MoHUA in March 2018. Plinth Area calculation guidelines have been synchronized with IS:3861-2002 for uniformity and clarity.
- The per unit area rates for all categories of building, have been revised as per prevailing cost index of 105
 as on 01.04.2021 over PAR 2020 with base 100 as on 01.04.2020. The rates of various extras and
 development charges have been revised as per Delhi Schedule of Rates 2021.
- Plinth Area Rates 2021 mandates that concerned Architectural unit shall work out the floor wise plinth area
 and compile the same to obtain building wise abstract of plinth area. The guidelines are explained in
 Annexure-II and proforms are provided in Annexure-III(a). III(b), III(c) which are self-explanatory so as to
 minimize discrepancies.
- 5. The Plinth Area Rates 2021 (with base 01.04.2021 as 100) comprises of following Amesure:

Annexure-1: Specifications for Residential Buildings, Scale of Amenities, Scale of Sanitary &

Water Supply fittings and Electrical installations in GPRA and Specifications

for Non-Residential Buildings.

Annexure-II: Guidelines for calculating Plinth Area.

Annexure-III: Proforms for Plinth Area calculation by Architectural unit

Annexame-IV: Proforma for calculating cost index for future Cost indices with base 100 as on

01.04.2021.

- All efforts have been made to update Plinth Area Rates-2021 to make it user friendly by incorporating the views and feedback from various stakeholders and the field units and making necessary simplifications.
- I would like to acknowledge the lead taken by Sh. Vinayak Rai, Chief Engineer, CSQ(Civil), Sh. MV. Chalapathi Rao, Chief Engineer CSQ (Elect.) and dedicated efforts of Sh. Divakur Agrawal, SE(TAS), Sh. Sh. Jalswal, EE(TAS), Sh. D.S. Adhikari, AE(TAS), Sh. Patta Madhu kumar, AE(TAS), Sh. Mukesh Varnte, Chief Estimator (Civil), Ms. Arshu Shukla AE (TAS), Sh. Akhileshwar Sah, Chief Estimator, Sh. Naveenkumar P. JE (Civil) and Sh. Chalapaka Ramaraju, JE(Civil) of CSQ who have provided valuable inputs/data in finalization of Plinth Area Rates-2021.

Dharmesh Chandra Goel ADG (Technical) CPWD

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PLINTH AREA RATES as on 01.04.2021

Date in Fanctons

5. No.	The state of the s				Rate in ₹ per sqm		
	Description	Non-Re	esidential Bu	Residential Buildings			
		Offices/ Colleges	Hospitale	Schools	Hostels/Quarters		
1.0	BUILDING COST (Specifications as per Annexure-I)						
1.1	RCC FRAMED STRUCTURE (Upto six storeys)						
1,1,1	Floor height 3.60 meter	27,090	28,455	21,735			
1.1.2		-		-	20,685		
1.2	COMPOSITE (PARTIALLY LOAD BEARING AND I				CTURE (Upto six storey		
1.2.1	Floor height 3.60 meter	22,995	24,150	18,690			
1.2.2	DOMESTIC AND STREET OF THE STR				17,640		
1.3	EXTRA FOR						
1.3.1	Set of six additional storeys			105			
	(i.e. from 7" to 12"storey) Similarly, extra for next set of six storeys may be incre						
13.2		de shall be (i)	Rs 105/- pc	r aqm for su			
	of floor above normal floor height of 3.60 meter / 3.00 meter (on areas baving additional / less height).						
1.3.3	Every 0.3 meter or part thereof, higher plinth height over normal plinth height of 0.60 meter (on ground floor area only).						
1.3.4	Every 0.30 meter or part thereof, deeper foundations over normal depth of 1.20 meter (on ground floor area only).						
		For RCC framed structures					
1.3.5	additional floor at a later date (on ground floor area	For RCC	- 202	tures	Composite structure		
	additional floor at a later date (on ground floor area only).	For RCC :	ramed struc		Composite structure 620		
1.3.6	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only).	For RCC	- 202	10,700			
1.3.6	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only).	For RCC	- 202	10,700 17,100			
1.3.6 1.3.7 1.3.8	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm.	For RCC	- 202	10,700			
1.3.6	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm. BASEMENT FLOOR. Floor height upto 3.35 meter including water proofing	For RCC	- 202	10,700 17,100			
1.3.6 1.3.7 1.3.8 1.4 1.4.1	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm. BASEMENT FLOOR.	For RCC	- 202	10,700 17,100 1,800			
1.3.6 1.3.7 1.3.8 1.4 1.4.1	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm. BASEMENT FLOOR. Floor height upto 3.35 meter including water proofing (axeluding raft base). Add or deduct for every 0.30 meter, or part thereof,	For RCC	- 202	10,790 17,100 1,800			
1.3.6 1.3.7 1.3.8 1.4 1.4.1 1.4.2	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm. BASEMENT FLOOR. Floor height upto 3.35 meter including water proofing (ascluding raft base). Add or deduct for every 0.30 meter, or part thereof, height against normal height of 3.35 meter.	For RCC	- 202	10,790 17,100 1,800			
1.3.6 1.3.7 1.3.8 1.4 1.4.1 1.4.2	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm. BASEMENT FLOOR. Floor height upto 3.35 meter including water proofing (as cluding raft base). Add or deduct for every 0.30 meter, or part thereof, height against normal height of 3.35 meter. FIRE FIGHTING	For RCC	- 202	10,700 17,100 1,800 20,750 1,000			
1.3.6 1.3.7 1.3.8 1.4 1.4.1 1.4.2 1.5 1.5.1 1.5.2	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm. BASEMENT FLOOR. Floor height upto 3.35 meter including water proofing (ascluding raft base). Add or deduct for every 0.30 meter, or part thereof, height against normal height of 3.35 meter. FIRE FIGHTING Downcomer System. With wet riser system.	For RCC	- 202	10,700 17,100 1,800 20,750 1,000			
1.3.6 1.3.7 1.3.8 1.4 1.4.1 1.4.2 1.5 1.5.1 1.5.2	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm. BASEMENT FLOOR. Floor height upto 3.35 meter including water proofing (ascluding raft base). Add or deduct for every 0.30 meter, or part thereof, height against normal height of 3.35 meter. FIRE FIGHTING Downcomer System. With wet riser system.	For RCC	- 202	10,700 17,100 1,800 20,750 1,000 400 800			
1.3.6 1.3.7 1.3.8 1.4 1.4.1 1.4.2 1.5 1.5.1 1.5.2 1.5.3 1.6.1	additional floor at a later date (on ground floor area only). RCC raft foundation (on ground floor area only). Pile foundation (on ground floor area only). Stronger structural members to take heavy load above 500 kg per sqm upto 1000 kg per sqm. BASEMENT FLOOR. Floor height upto 3.35 meter including water proofing (as cluding raft base). Add or deduct for every 0.30 meter, or part thereof, height against normal height of 3.35 meter. FIRE FIGHTING Downcomer System. With wet riser system.	For RCC	- 202	10,700 17,100 1,800 20,750 1,000 400 800			

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S.No.	Description	Non-R	eridential Bui	Idings	Residential Buildings			
		Offices & Hospitals Colleges		Schools	Hostela	Quarters		
1.7	Pressurized mechanical ventilation syst basements with supply dust of exhaust blow (on areas where nechanical ventilation is re-	rens		1	,050			
1.8	STILT PORTION				1848-8			
1.8.1				8,400				
1.8.2	Every 0.30 meter additional height above 3.60 meter.		200					

2.0	SERVICES(Percentage below refers to the per	centage of bu	ilding cost as	per 1.0 above)	
2.1	Internal water supply & sanitary installations.	4%	10%	5%	12% with attached tollets, 8% with common tollets.	9%
2.2	External service connections and local body body whichever is higher.	approval char	rges shall be a	s bereunder	or as per estimates giv	en by the local
2.2.1	Electrical external service connections.	3.75%	3.75%	3.75%	3.75%	3.75%
2.2.2	Civil external service connections.	1.25%	1.25%	1.25%	1.25%	1.25%
2.2.3	Local body approvals including tree cutting etc.	1.25%	1.25%	1.25%	1.25%	1.25%
2.3	Internal electric installations.	12.5%	12.5%	12.5%	12.5%	12.5%
2.4	EXTRA POR					
2.4.1	Pewer wiring and plugs.	4%	454	456	4%	4%
2.4.2	Lightning conductors.	0.25%	0.25%	0.25%	0.25%	
2.4.3	Telephone conduits.	0.25%	0.25%	0.25%	0.25%	A0450
2.4.4	Third Party Quality Assurance.	1%	196	1%	1%	1%

S.No.	Capacity/Persons	Speed in m/sec	Travel height	Price (Tin lass)	Extra for each additional floor (in T)
3.0	LIFTS with power or	serated centre openie	ng doors and AC varia	sble veltage & var	iable frequency controls
3.1	Passenger lifts				
3.1.1		1.0	G+4	16	90,000
3.1.2	8	1.5	G+5	18	90,000
3.1.3	13	1.0	G+4	18	90,000
3.1.4	13	1.5	G+5	20	90,000
3.1.5	16	1.0	G+4	24	1,10,000
3,1,6	16	1.5	G+5	26	1,10,000
3.1.7	16	2.5	G+12	70	1,10,000
3.2	Bed Lifs				
3.2.1	20	0.75	G+4	24	1,10,000
3.2.2	20	1.5	G+5	27	1,10,000

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S.No.	Capacity/ Persons	Speed in m/sec	Travel height	Price (Titt lass)	Extra for each additional flo- (in ²)		
3.2.3	20	2.5	G+12	75	1,10,000		
3.3	Goods lifts						
3.2.1	1 Ton	0.5	G+4	26	85,000		
3.2.2	2 Ton	0.5	G14	33	85,000		
3.2.3	3 Ton	0.25	G+4	41	1,00,000		
S.No.		Description			Rates in 4		
4.0	RCC WATER TANK		1		20 11		
4.1	Overhead tank without	areas to the country for the property of the contract of the property of the country of the coun	T.		20 per litre		
4.2	Overhead tank with a	and the second second	Carlot States of the Carlot States and Carlot St		30 per litre		
4.3	1.000.000.000.000.000.000.000.000		00 metres upto 30 metr		35 per litre		
4.4		raging neight above :	10 metres upto 40 metr	cs	40 per litre		
5.0	Underground samp DEVELOPMENT O	FSITE			20 per litre		
5.1	Levelling	C DITE			300 per sura		
5.2	internal roads & path				and for other		
5.2.1	Internal road with W	7.77	top		1,700 por sqm		
5.2,2	Internal road with W	MM and bituminous	tup		1,850 per sqm		
5.2.3	Cement concrete pay	rement with vaccum	dewatered concrete		2,040 per sqm		
5.2.4	Footpath with PCC I	osse, 60 mm thick per	ver blacks and kerb sto	me edging	2,600 per sqm		
5.3	External sewerage				3,350 per metre		
5.4	Filtered water supply				H 2000000000000000000000000000000000000		
5.4.1	Distribution lines up	to 100 mm dia			1,700 per metre		
5.4.2	Peripheral grid 150 z	nm to 300 mm dis pi	pcs		3,600 per metre		
5.4.3	Unfiltered water sap	ply distribution lines			1,330 per metre		
5.5	Storm water drains				8,920 per metre		
5.6	Rain water harvestin	g (RWH)			3,350 per metre		
5.7	Trenches for services	1			6,400 per metre		
5.8	Boundary wall with 1 metres	500 mm high wall at	ad 600 mm high MS gr	ill including 2100 n	nm high steel gates at every 100		
5.8.1	With brickwork stru-	ctare and RCC band :	at ground level and cop	ring	9,550 per metre		
5.8.2			comprising of E shape ok RCC wall panel inse		8,050 per metro		
5.9	Herticulture Works		SOLIZOS OLIZOS APRICIO, ZURO	270			
5.9.1	Herticulture operation	AND THE RESERVE OF THE PARTY OF	earth filling, grassing,	tree	275 per squi		
5.9.2	Vertical plantations				45 per sem		
6.0	SPECIALISED I	E&M WORKS					
6.1	33 kV RECEIVING	SUBSTAION AND	3 kV/11 kV HT CABI	LING			
6.1.1	33 kV HT panel, tran	aformers 33kV/11 kV cabling to the distribu	ssioning of 33 kV subs 7, 11 kV HT panel, inte ution substations on rin mount.	er connections, 11	3,500 per kVA		

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S.No.	Description	Rates in T
6.2	SUB-STATION EQUIPMENT	Annual Inc. 2
6.2.1	Supplying, installation, testing and commissioning of 33 kV/0.433 kV or 11 kV/0.433 kV substation equipment comprising HT panel, dry type/Oil type transformers, HT cable, bus trunking from transformer to LT panel, LT panels, automatic power factor correction panel, active harmonic filters, TVSS (transient voltage suppression system), SPD (surge protection system), essential panel, earthing, required inter-connections, substation series equipments including LT cabling from substation to the buildings fed by the substation.	9,000 per kVA
	Note: For assessment of kVA estimation of a building, para 4.4, 13 and other relevant paras of "Guidelines for Substation & Power Distribution Systems of Buildings-2019" which is available on CPWD website may be referred to.	
6.3	GENERATING SETS	
6.3.1	Supplying, installation, testing and commissioning of DG sets, AMF panel, hus ducting/ cables from DG sets to essential panel, DG set enclosure more sound insulation/ventilation/smoke exhaust as required, earthing of DG set system, control cabling, flucl tank/piping, DG set exhaust piping/ exhaust chimney as per CPCB norms, civil works connected with DG sets including foundation as required.	10,000 per kVA
6.3.2	Extra for synchronizing panels wherever required	1,000 per kVA
6.4	UNINTERRUPTED POWER SUPPLY	
6,4.1	Supplying, installation, testing and commissioning of online 3 phase UPS system with 30 minutes back up including batteries, interconnecting cables, battery racks etc.	20,000 per kVA
6.4.2	Add for every additional 30 minutes backup	9,000 per kVA
6.5	CENTRAL AC PLANT	
6.5.1	Supplying, installation, testing and commissioning of energy efficient central AC plant including low side works	85,000 per TR.
6.5.2	Extra for stand-by chilling units high side	38,000 per TR
6.6	VRV/ VRF AC System	
6.6.1	Supplying, installation, testing and commissioning of VRV/VRF system including indoor /outdoor units, piping, electrical power distribution/wiring, electrical panel, treated fresh air system etc.	55,000 per HP
6.7	PRECISION AIRCONDITIONING SYSTEM	
6.7.1	Supplying, installation, testing and commissioning of precision air conditioning system including piping, electrical cabling, controller etc. required for the system	1,10,000 per TR
6.8	SOLAR PHOTO VOLTAIC POWER GENERATION SYSTEM	
6.8.1	Supplying, installation, testing and commissioning of grid interactive roof top solar photo voltate power generation system including space frame	55,000 per kWp
6.9	SOLAR WATER HEATING SYSTEM	
6.9.1	Supplying, installation, testing and commissioning of solar water heating system with host exchanger type including electrical heater backup, make up water tank but without piping – 100 litres capacity	22500 per 100 litre
6.9.2	For higher capacity in multiples of 100 litres.	22,500 per 100 litre
6,10	CCTV SYSTEM	7/
6,10,1	Supplying, installation, testing and commissioning of IP based CCTV system for building security comprising of PTZ / fixed camera, cabling, digital recording , HD display system with minimum display of 5" x 8" per camera and hard were software support – for indoors only {Rate applicable on total plinth area but CCTV coverage shall be limited to 15% of the total plinth area as per requirement}	200 per sqm
6.10,2	For external surveillance (Rate applicable on total plot area minus plinth area of ground floor)	200 per sqm

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S.No.	Description	Rates in ₹
6.11.1	ACCESS CONTROL SYSTEM Supplying, installation, testing and commissioning of access control system for	200
	building security comprising of controller, E&M locks, reader, smart cards, cabling, recording, display system, hardware and software support as required (Rate applicable only on plinth area of high security area in the building)	200 per squa
6.12	IBMS: INTEGRATED BUILDING MANAGEMENT SYSTEM	
6.12.1	Supplying, installation, testing and commissioning of integrated building management system for digital/electronic display and menitoring of all E&M systems like substation, DG sets, UPS, solar power, lifts, AC plants, ventilation systems, fire protection systems, pumps etc. to include cabling, menitors, recording, display system, hardware, software support (upto 10,000 sqm) (Rate applicable on total plinth area)	400 per squa
6.12.2	Add extra for built up area above 10,000 sqm (Rate applicable on total plinth area)	125 per sqm
6.13	HYDROPNEUMATIC WATER SUPPLY SYSTEM	Weight days
6.13.1	Supplying, installation, testing and commissioning of hydro pneumatic water supply system occasisting of pumps, pneumatic tank, microprocessor based control panel, VFD, inter connecting pipes, valves, cabling, switchgear etc. as required	1,500 per LPM
6.14	LIGHTING AUTOMATION INCLUDING OCCUPANCY SENSORS	
6.14.1	Supplying, installation, testing and commissioning of lighting automation including occupancy sensors (Rate applicable on area to be specified by client)	200 per sqm
6.15	BASIC HOME SECURITY FOR RESIDENTIAL COLONY	
6.15	Supplying, installation, testing and commissioning of basic security system in the residential colony to include cosmol room at the gate and intercom connection to each dwelling unit, and basic IP based CCTV system to be installed at the entry and exit points, parking areas, ontry point of each dwelling unit and other common areas as required including CCTV control room, required under ground cabling, digital recording system and manitor/ monitors with minimum display of 5" x 8" per cumers in the control room:	
6.15.1	Intercom system (Rate applicable on plinth area excluding service/common areas).	300 per sqm
6.15.2	CCTV system (Rate applicable on plinth area excluding service/common areas).	300 per sqm
6.16	LAN SYSTEM	
6.16.1	Supplying, installation, testing and commissioning of LAN system comprising of core switches & L2 switches with 10 G, 10 gigs SFP modules, WIFI necess points, WIFI controller, network management software, nacks, CAT 6A cable, patch panels, OFC etc. (Rate applicable on plinth area excluding service/common areas).	500 per sqm
6.17	IP BASED EPABX SYSTEM	
6.17.1	Supplying, installation, testing and commissioning of IP based EPABX—system comprising of core switches & L2 switches with 10 G, 10 gigs SFP modules, inclustry standard appliance server, cloud-based, enterprise-grade UC solution, MID/ENTRY level IP/SIP phone with, dual 1 gig ports, racks, CAT 6A cable, patch panels, OFC etc. (Rate applicable on plinth area excluding service/common areas).	500 per sqm
	NOTE: It will be economical to use common infrastructure of switches, OFC, CAT 6A cable for both voice and networking.	
6.18	Conference hall: supplying, installation, testing and commissioning of audio visual/conference system (Rate applicable on carpet area of Hall only)	10,000 per sqm
6.19	STREET LIGHTING WITH LED	
6.19.1	Supplying, installation, testing and commissioning of LED street/ compound/ high most/ pathway/ landscape lighting for the entire compus (Rate applicable on total plot area).	150 per sqm
	Note: This is applicable for plot sizes more than 1 acre. For smaller plot sizes actual requirements may be worked out	

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S.No.	Description	Rates in ₹
	Note:- Cost for general façade lighting, if required, with IP 66/67 LED fixtures (RGB/Tunsble/Mone) along with controls (hardware and software) and cabling may be assessed on case to case basis.	***************************************
6.20	STP/EIP PLANT	
	Supplying, installation, testing and commissioning of STP/ETP of appropriate technology including civil works (except plant room), tertiary treatment etc. for the building/earmpus	
6,20.1	Plent size upto 50KLD	75,000 per KLD
5.20.2	Add extra for every KLD for plant size above 50 KLD and upto 100 KLD	60,000 per KLD
5,20,3	Add extra for every KLD for plant size above 100 KLD	50,000 per KLD
6.21	DRIVER FACE AND AUTOMATIC NUMBER PLATE RECORDING SYSTEM/RECOGNITION SYSTEM	
6.21.1	Supplying, installation, testing and commissioning of driver face and automatic number plate recording system / recognition system including high resolution camera and software set for the driver face capture and automatic number plats recording	7,25,000 per set
6.22	BAGGAGE SCANNERS	
6.22.1	Baggage scanner small: computer based multi energy X-Ray baggage inspection system mounted on caster wheels capable of passing through bags of dimensions 540 mm (W) x 350 mm (H), belt height 750 mm to 850 mm, 22"/24" LCD Monitor, Input / Output rollers with frames etc. as required.	21,25,000 per unit
6.22.2	Baggage seamer big: computer based multi-energy X-Ray baggage inspection system capable of passing through bags/parents of dimension 940mm (W) x 640mm (H) with Belt Height- 750mm-850mm with 22"/24" LCD Monitor, Input/ Output rolliers with frames etc. as required.	35,00,000 per unit
6.23	DOOR FRAME METAL DETECTOR	
6.23.1	20 zone or above door frame metal detector nominal size: 760 mm (W) x 2050 mm (H) x 700 mm (D) loaded with necessary software	3,50,009 per set
6.24	MEDICAL GAS PIPELINE SYSTEM	
6.24.1	Medical gas pipeline system (as per international standards) comprising of oxygen, carbon dioxide, nitrous oxide, AGSS, Air-4, Air-7, vaccum outlets, manifolds, pressure skurns, fully automatic gas control system, bed bend panels, copper piping, cylinder banks, plant equipment such as compressors, vaccum pumps etc.	60,900 per bed
6.25	MODULAR OPERATION THEATER	
6.25	MOT comprising of walls & ceiling system for operating area, steel framework, static dissipative flooring, laminar flow, double done OT light, touch screen surgeon's control panel, scrub station, X-Ray viewing screen, hatch box, automatic sliding doors, anesthesia pendent, surgeon pendent etc.	
6.25.1	With stainless steel technology	85,00,000 per OT
6.25.2	With SMS technology	1,25,00,000 per OT
	Note: The above rates are based on minimum OT size of 50 sqm	
6.25	BOOM BARRIER	
5.26.1	Historomechanical boom barrier with all accessories upto 6 meter longth.	1,25,000 such
6.27	CAR PARKING SYSTEM	
6.27.1	Sensor based car parking system with controller, display etc. as required, (cost based on minimum car capacity of 259)	10,000 per car
6.28	EMERGENCY LIGHT & ILLUMINATED SIGNAGES	
	Illuminated signages (Rate applicable on total plinth area)	1 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -

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8.No.	Description	Rates in T
6.29	Motorized steel gates upto 6.00 metre width	5,00,000 per gate

Notes:

- The rates are inclusive of CP & OH, GST and Labour Welfare Cess (any other cess / levy imposed by local Government shall be added separately).
- If it is not feasible to compute the area or length of development components from item no. 5.1 to 5.7, the cost of these
 components may be worked out as below on the basis of percentage of building cost as per serial number 1.0.

2.1	Compact site, comprising of a single huge area building with a few areillary buildings around or few blocks of high rise (higher than 12 storeys) building blocks in close chatter.		4.5% of building cost
2.2	Semi compact/semi scattered site comprising of few blocks of mid rise (between 6 to 12 storeys) buildings in a gated compound.	-	6.0% of building cost
2.3	Large site comprising of various scattered low rise (upto 4 storey) buildings with exception of a block or two upto 5 storeys.	-	7.5% of building cost

- Cost of the following development works are not included in these rates.
 - Tube wells, pumps, open wells, treatment plant, extension of lines from source of local bodies, head works at water source etc.
 - b) Sewage pumps, sewage treatment plants, septic tanks, extension of outfall sewar upto point of disposal etc.
- Provision for Specialized E&M services if required may be made as per 6.0 above.
- 5) Conscaled wiring shall be used in all electrical works
- 6) The rates for the following green measures are already included for civil & dectrical works -
 - a) Over deck insulation and application of high SRI reflective paint on thereof.
 - b) Masonry work in super structure with autoclave seruted concrete (AAC) blocks/ fly sin bricks.
 - e) Window with reflective glass costing / high performance costings / double glazed unit.
 - d) Paints with low VOC options.
 - e) Provision of piller cock having inferred sensor and form flow technology along with provisions of online water filter for sediment free water from terrace tank outlet or the distribution line.
 - f) Dual plumbing system.
 - g) LED light fixtures.
 - b) BEE certified 5 star rated fixtures.

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GENERAL SPECIFICATIONS FOR RESIDENTIAL BUILDINGS

S.No.	Description			able Specifications		Remarks		
		Type-II & III	Type-IV, IV (Special)	Typo-V & VI	Type-VII & VIII /Bungslows			
1	FOUNDATION	4	1		111111111111111111111111111111111111111			
	Foundation & structure	As per structural requirements	Same as Type II	Same as Type-II & III	Same as Type-II & III	The design shall vary as per soil conditions		
2	SUPERSTRUC	TURE						
	For multi- storey RCC framed structure	RCC frame & fifter walls of sutoclaved acrated orment concrete (ACC) blocks / brant day FPS / fly salt bricks.	Same as Type-II & III	Senne as Type-II & 111	Same as Type-II &	Any other energy efficient suitable locally available material in constitution with architect and structural engineer.		
	For composite structure (partially load bearing & partially BCC framed structure)	Autoclaved seruted octract concrete (ACC) blooks / brust clay PPS / fly sob bricks	Samo to Туре- П & П	Зате за Туре-П & III	Same as Type-II & III	Any other energy efficient suitable locally available meterial in consultation with architect and structural engineer.		
	Intercel Partition	Ealf brick thick masonry in entoclaved acrated coment concrete (ACC) blocks / brunt day FPS / fly ash bricks.	Same or Type II & III	Same se Type-II & III	Same on Type-II & III	Any other energy efficient suitable local material in consultation with architect and structural engineer.		
	Sankon floor for toilets with four course water proofing treatment	Suris reuse in RCC floor of required size and depth for floor trap and W.C. traps	Same or Type II & III	Same as Type II & III	Sume on Type-II & EI			
3	DOORS AND WINDOWS a) Frames(except of in/let/ant/& WC)							
	() Door	Chemically Treated Hard wood / scamleas mild steel tubular frams(with Hot Dip CS Costing) with minimum wall thickness of 2.0 mm. The external entrance door frame will have double rebute or sub frame for double doors in. main door and suftry guill door with SS 304 wire(Powder Control) meet. For internal doors single rebate itames.	Same as type-El	Same as type-II & III	2 rd class teak wood frame work for external enterneo baving double rebate for double doers i.e. main door and safety grill stainless steel door with stainless steel wire mesh. For insternal doors 2 rd class teak wood / uFVC extruded frame sections with stainlesses of 2 mm in single rebate.			
	ii) Window	Chemically Treated Eard wood / uPVC extruded frame sections with minimum well	Same as type-II & III	Some as type-II & III	2 rd calls trak wood /uPVC extraded frame sections of minimum wall			

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9.No	Description.	L	Latest Annillo	able Specifications		4Z8
	A. Contagnina	Туре-П & Ш	Type-IV, IV (Special)	Type-V & VT	Type-VII & VIII	
		thickness of 2.0 mm / powder costed or cultur standized abstrium extracted totaler sections' engineered wood sections along with the provision of sub-flume of suitable material.	(special)		thickness of 2 mm / powder coated or colour anodised aluminum extruded tabular system buving double rebuts / three trucks sliding system for glaced alumen and wire mash alumen and wire mash alumens	
	ii) Doors & windows of toilebbath / WC	Chemically Treated Earl wood / aPVC extraded frame sections with wall thickness minument 2.0 mm / FRF / PVC, compatible to doors shatters	Same as Type-II & III	Sume se Type-II & III	2 rd close teak wood/LPVC / extruded fixme sections with wall thickness manusum 2.0 mm / WPC of density 750 to 1000 kg per cum, compatible to doors shutters	
	ix) Door /window frames in domestic help's area	Not admissible to Type- E, II and III	For domestic help's quarters same as Type-II to III	For domeric help's quarters same as Type-II to III	For domestic bely's quarters same as Type-II to III	
	b) Shattees			-		
	i) Main door/ external door shotters	Double shutters, one mild stool (Hot Dip Calvanized) grill door with mosquito proof statuless sized wirs mesh of SS-304 grade (Powder Coasted), painted and other 35 mm talek factory made flush door abutter both side commercial venerated and patried. (including necessary lipping)	Same as Type-II to III cocept the flush door having descrative venering on both side with melamine polish. For durastic	Double starters one safety grill single / double lost door in SS-304 L grade frame with mongaito proof stantees steel wire-mesh of stantees steel 304 grade (Powder Conted) and stainless steel fittings and other with 35mm thick factory made exterior grade both side doorsalve veneered type first door shutter with melamine polish. (including necessary lipping) For dornastic help's	Same as Type-V &VI	
	ii) Demestic Isip's aces	Not admissible to Type- II and III	For domestic help's quarters name as Type-II to III.	For domestic help's quarters sense so Type-II to III,	Fer a domestar help's quarters same as Type-II to III.	
	Bath, WC & soilet door	25 to 30 mm thick, FRP /PVC panelled deors	Same as Type- II & III	25 to 30 mm thick WPC of density 650 kg per ours peneled / 30 to 35 mm thick flush doors.	Sems as Type-V & VI	
	Other doors	35 mm thick, Chemically Treated Eard wood styles and mile with 12 mm thick commercial ply wood	Same as Type II & III	35 mm thick, Chemically Treated Hard wood styles & rails with paneling of 12 mm thick tesk ply/ tesk wood/5 mm thick	Same as Type-V & VI	

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S.No	Description.		Latest Applic	able Specifications		Romarks
1		Туре-П & Ш	Type-IV, IV (Special)	Type-V & VT	Type-VII & VIII /Bungslows	
		paneling or factory made flush door stutters both side commercial ply venering and finished with weeden Petty and painted.	2000 0000000000000000000000000000000000	trughened glass glazing or 35 mm thick factory made exterior grade both side document vemocred type flush door shatter with me amine polish.		
	e) Window shetters All windows shetters	Double shutter one glaned shutters with frames of / person content or colour anodized abeninsm extraded tabular sections 'aFVC extraded profiles of minimum wall thickness of 2 mm '30 mm trick Chemically Treated Hard wood with glazing of flost / toughened gluss and with / without reflective costing / high performance contings or double glazed unit as per design & requirement and other studen with standard steel 3S-394 grade wire-mesh in place of glazing.	Same as Type II	Double shatter one glaced shutters with frames of / powder costed or colour anodized aluminum extraded tubular sections uPVC extruded profiles of minimum wall thickness of 2 mm/ 30 mm thick 2 nd class teak wood with glaceteg of float / toughoned glass and with / without reflective costing / high performance coatings or double glaced unit as per design & requirement and other with stainless steel 83-304 grade wiremech in place of glazing.	Same as Type-V & VI	
	Domestic help's area (doors & windows)	Not admissible to Type- II and III	For domestic help's quarters same at Type II to III	For domestic help's quarters same as Type II to III	For domestic help's quarters same as Type II to III	Shorters in all respective rooms shall be as per the finishes of Type-I to III in those rooms
	d@inrdware &Pittings Main units	Powder coated or colour anodized sumirum stainless steel freings \$6-304 grade.	Same as Type II de III	Same as Type-II & III	Stainless steel fittings SS-304 grade or chromium / nickel/ chromium & mikel plated breas fittings.	Rubberized deor flashing at the betters rails of all external doors shall be provided for pertection from insects and retirevator site.
	FLOORING, S.	KIRTING & DADO				1027
	a)Flooring Living/drawin g room, dining & family loange	Vitrified / ceramic tile flooring of size not less than 400 x 400 mm	Virtified tile flooring of size not less than 600 x 600 mm	18 mm thick pro- polished grants: stone of upproved shader vitrified tile (in all designs and shades) flooring of size not less than 600 x 600 mm; living / drawing room can also have soratch resistant enginesed wood or laminated wooden flooring.	Same as Type V & VI	

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				200000000000000000000000000000000000000		430
fl.No	Description	200000000000000000000000000000000000000	Latest Applic	able Specifications	g succession of the	Romarks
		Туре-П & Ш	Type-IV, IV (Special)	Type-V & VT	Type-VE & VIII. /Bungslows	
	Office area	Not admissible	Not admissible	Not admissible	Scratch resistant engineered wood or laminated wooden feering	
	Bedrooms	Scentch recistant common tiles of size not loss than 400 x 400 mm with joints finished with matching great.	Sensich resistant commics? verified tiles of size not less than 500 x 600 mm with joints finished with matching great.	Vitrified tiles in all deel gas and shades (with water absorption less than 0.08%) of size not less than 600 x 600 mm/ secuch resistant commic tiles with joints finished with matching grout, origineered wooden flooring in one bedroom.	Same an Type-V &	
	Kitchen	Anti-skid vitrified tiles of size not loss than 300 x 300 mm with owner absorption less than 0.08% laid with joints finished with matching grout	Same as Type-II & II	Anti-skid visified tiles of size not less than 400 x 400 mm with water absorption less than 0,08% with joints finished with matching great.	Anti-skid vitrified tiles of size not less than 600 x 600 mm with water specified less than 0.05% with joints finished with teatching grout.	
	Kitchen countr	18cm thick pre-polished				
	Common circulation area	18 sum thick pre-polished sheeption less than 0.065	(with water			
	Demastic help's sem (flooting)	Not admissible to Type- II and III	For demastic help Type II & III	For demestic help's quarters flooring shall be as per flooring of Type II & III		Piriches in all mome shall be as per the finishes of Type-1 to III in respective rooms
	Common circulation area in domentio help's quarters	Not adminable to Type- II and III	18 mm thick grad	tie atone / locally available s	Lone	Use of locally available stone shall be as per approval of higher of Sorier Architect Policif Architect powided in the Roppen.
	Main Saircaso Fac escape staircase	18 mm thick honed / flar	ned finish grants in	single longth of treads & ris	vers	Nosing design in treads shall be as per architectural design
	Tolles / baltroom/ WC	Glazed occarric enti- skid of size not less than 300 x 500 mm, including grouting the joints.	Same as Type-II & III	Rectified commit sets- skid tiles of rice not less than 300 x 300 mm	Anti-skid vitrified orrantic than (with water athropion last than 0.08% not last than 100 x 300 nm or 18 mm think gang-saw call prepolabed granite stone.	
	Skirting in rooms and other areas	190 to 150 mm high skirt	ing matching the fic	our meterial.		

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8.No	Description.	040-007-00	Latest Applic	able Specifications		Romarks
	Espon Green	Туре-П & Ш	Type-IV_IV (Special)	Type-V & VI	Type-VII & VIII /Bungslows	
	Kitchen dada	Ceramic glaced / vitrified tiles of size not less than 200 x 300 mm as per design from floor upto full height.	Same as Type-II & III	Construct glaned / vitrified tiles of size not less than 300 x 450 mm as per design from their to full height	Coramic glazed / vitrified tiles of size not less fam: 300 x 450 mm as per design form floor to full let.	Must be read with scale of smerrites in the respective sategories
	Tellen/ bathrooms / WC čado	Counsic glazed / vitrified tiles of size not less than 200 x 300 mm upto full beight with decorative bands at contain intervals.	Same as Type- II &III	Counsis glazed / vitrified tiles of size not less than 300 x 450 ram upto full height with decerative bands at certain intervals	Commic glazzd / vitrified tiles of size not less them 300 x 450 mm upto- full height with december bands at certain intervals.	
5.	RAILINGS / P.	ARAPETS IN BALCONTE			Service	
	(s) Railings in balconies	Clear 1.00 m high MS milling made out of MS flats and square bers with 40 mm dia MS pipe hand mill on top (as per approved design)	balustrades with b	stainless steel railing made erizontal inbular SS tubes a reved design); all stainless a grade.	tier band bas siter a	
	Note: Hand rail provided along		rulti storcy flets ma	y he so designed that clothes	drying lines in sufficie	nt manh ars are
	(b) Parapet en tecrace			ersted coment conscrete (ACC sides and top upto 1.0 meter		
6	PINISHES (a) Internal finishes	All walls & ceiling to be treated with 2 mm thick POP (one time only) and painted with low VOC sarytic washable distemper. Synthetic enamel paint on all wood works and steel works	celling to be treated with 1 mm thick POP (one time only) & pained with low VOC acrylic washable distamper. Synthetic enamel point on all wood works & steel works	on all word weeks and stor) works	Premium scrylic considers peint with law VOC of approved shade in roller finish over 6 ron thick POP wall purning Synthetic council paint on all worst works and shed works	
	(b) External finishes	Quarte reinforced tecture acrylic point finish Premium scrylic smooth water proof octation finish over cement-based putty / washed mosaic plaster in premium cement. Synthetic enamel paint on all wood work & steel work	Same as Type-II	Quartz reinferced texture scryite paint finish of opportude shade /premium earylis smooth water proof exterior finish / wested mousic planter in greenium coment-based petty /exposed brick / stone week/GRC / designer coment concert tile oladding/ACP cladding in combination with structural glucing	Same as Type-V & VI	In case of large corepus sic., the external finishes of the residences stall match the overall colour & texture finishes within the escapus

Note: For hostels, same specifications as for Type-IV & Type-IV (Special) quarters shall be followed.

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SCALE OF AMENITIES (CIVIL) FOR GENERAL POOL RESIDENTIAL ACCOMODATION (GPRA)

No.	Iva	Туре-П & Ш	Type-IV & IV (Special)	Type-V &VI	Type-VIIA VIII	help's Own.
1	Kitchen cabinets					- 210
i)	Cooking platform	Yes	Yes			Yes
iii)	Stainless steel AISI 304(18/8) kitchen zink as per IS 13983 with drain board	Yes	Yes			Yes
111)	Built in cupboard made up of box and shelves with both side balancing laminated and shatters with one side decerative and other side balancing laminated 18 mm thick high moisture maintain HDF board or Some shelves with box and shutter of 18 mm thick EPC boards, with suchloss steel hardware, as per architectural design and specifications.	Yes, (with shelves)	Yes, (drawers with telescopic channels)			
iv)	25 mm thick and not more than 400 mm wide both side balancing laminated high moisture resistant HDF board shelves, in tiers upto 2100 mm height in siche and coverad with 18 mm thick, one side decorative and other side balancing faminated high density high moisture resistant HDF board, with stainless steel hardwarens per architectural design and specifications.	Yes	Yes		ν.	Yes
Ψ)	Factory made modular kitchen having sink with double bowl & double drain-board, cooking platform and electric chimney of regured company.			Yes	Yes	
2	Wardrobes		7 -0005			54
	Built in copboard of minimum depth 650 mm made up of 18 mm thick one side decorative and other side balancing laminated high moisture resistant HDF board in box, sides, top and bettom and 18 mm thick both side balancing laminated high moisture resistant HDF board in shelves, with sminless steel hardware as per architectural design and specifications.	One in each bed room upto ceiling height	One in each had rearn upto ceiling height (stool abuttees with fearne not to he used)			One upto ceiling height
	Pactory made wardrobe carease, shelves, drawers etc. manufactured in 19 mm thick block board / ply wood painted with synthetic ename! paint or primer on all the inner surfaces, and sides top and shatter faces finished with pact formed lemination / natural vener with melamine polish and using stainless steel hardware as per the approved sample.			One in each bed recen upto ceiling height	One in each hed room upto ceiling height	
3	Magic eye in front entry door.	One	One	One	One	Cos
4	Curtain rad with required accessories.	On all windows and doors in all rooms except kitches, toileta/burbs/ WC's	Drapery rods un all windows and doors in all rooms except bischen, toileta/bafts/ WC's	Same as Type IV & IV (Special)	Same as Type IV & IV (Special)	Same as Type -II & III
5	Set of page.	To all toilets / boths /WC's	In all solicts/butte/ WC's and wardrobes	in all toilets/ baths/ WC's and wardrobes	In all tesleta/ heths/WC's & wardrobes	
6	18 mm thick projected window sill living, window	Granita stane	Granite stone	Granite	Gramina	Granita
	jembs.		Charles Control of the Con-	storm	atomo	atomo

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SCALE OF AMERITIES FOR SANITARY AND WATER SUPPLY FITTING FOR GENERAL POOL RESIDENTIAL ACCOMMODATION (GPRA)

S.No.	lien.	Турс-П&Ш	Type-IV& IV (Special)	Type-V &VI	Type-VII & VIII	Domestic help's Qtrs.	
1	EWC / IWC with trap (EWC with sent rim and cover) and low level dual flushing cisters.	1.22		One in each toi	let		
2	Water jet and / or health fascet with WC.		Water jet und Koulth Sugest with each EWC				
3	Wash bagin with CP brass basinmixture for hot & cold water, single lever quarter turns type with occume certaidges.	Ose	in each toiler & one	ir. Gning area an pe	or design.	One in each toilet	
4	Tap (In kitchen, toller, bath & WC) CP brass bib cock provided quarter turn type with seasonic sertridges.		Three in	kitchen, une in each	stallet for WC.		
5	Shower with CP brass diverter mixture single liver type for hot & cold water with central contridges		One is each toilet/beth				
6	CP brass towel mil and towel ring		One towel ring wit	house weak basin s	nd towol mil in each b	bath	
7	Mirror with frame and glass shelf having stainless steel frame/guard barrbrackets.	600 x 450 mm wi	th each wash besit	As per design wit	h each wash basin	600 x 450 mm with each wash basin	
8	CP brass/commic trélat paper helden.		With	each EWC			
9	Soop rack / niche as per architectural design and specification.		One wif	h cach wash husin a	nd in each bath		
10	Planning for water purifier and gayset.		Yes for both	in kitchen and for	goyser in each bath		
11	Shringe tack of eagacity as per NBC 2016 provision of separate tack for WC & drinking water.	Separate tanks i	or kitchen and tolle	ts for dual fleehing of online filte	system as per requirem r.	cets with provision	
13	Water meter of appropriate bore size, as per approval of the local municipal body.	Yes, inside the i			it er at first inlet point or each piping system.		

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SCALE OF AMENITIES FOR ELECTRICAL INSTALLATION IN GENERAL POOL RESIDENTIAL ACCOMMODATION

S.No.	Description	Type-II	Туре-ПВ	Type-IV & IV (Special)	Type-V	Type-VI	Type-VII& VIII	Demostic help's Otra.
1	Power plag points (16 A 6 pins)	2 in each room I in kitches I in utility atta	2 in each rearn 1 in kitches 1 in utility norm	2 iz ossh room t iz kitchen t iz utility area	5 in Growing room 3 in Dirring Room 2 in each Betroom 2 in Kitchen 1 in Utility Ares.	5 in drawing room 5 in diving room 2 in each bedroom 2 in kitchen 1 in citity stee	2 in office 4 in drawing room 3 in dining room 2 in family loange 2 in each bedroom 2 in kitchen 1 in stillty eros	Total Z
		Total 8	Total 8	Tetal 12	Total 15	Total 17	Total 22	Laurage -
2	Light plug points (6 A)	2 in each room 1 to kitchen 1 in beloony area	2 in such room 1 in kitchen 1 in halcomy area	2 in each room 1 in kitchen 1 in belowny area	2 is each room 1 in kitchen 1 in store 1 in main belowy	2 in each room 1 in intohen 1 in store 1 in each belowy	1 in office 2 in each room 1 in kitchen 1 in store 1 in each belong	Total 2
		Total 8	Total 8	Total 12	Total 15	Total 15	Yetai 20	
3	Bracket lights (with normal florings contrading lamp/bulls)	I in each room I in kitches I in each seiler I in utility	1 in each room 1 in kitchen 1 in each toilet 1 in easility	l iz each coem l iz kitchen l iz each tollet l iz utility	I in store I in each toilet I in suility	1 in stem 1 in each teiler 1 in utility	1 in stare 1 in each tollst 1 in utility	Total 3
	2011200000	Trial 4	Total 4	Total 11	Total 10	Total 12	Total 12	
4	Colling flux	I in living room I in each bedroom	2 in living suom 1 in each bedroom	2 is living room. I is dining room. I is each badroom	2 in drawing room 1 in diving room 1 in such befroom 1 in such belony	2 in drawing room 1 in dining seem 1 in family longs 1 in each belowy 1 in each belowy	2 in drawing room 1 in dining room 1 in family longs 1 in each bedroom 1 in each beloony	Total 1
		Total 3	Total 4	Total 6	Total 6	Total 12	Total 14	
5	Call bell points	1	1	2	3	3 (One with image display system)	4 (One with image display system)	
6	Highwort files	I each in kitchee, both & WC	I each in kitches, both & WC	I coch in kitzhen, both & WC	I each in kitches. & toiless	1 cuch in kitcher. & tailets	I each in leiteben. Attolies	Total 2
7	AC points (with MCB connected societ outlet with witing)	I in each room except bitchen & toilet	I in each more, except kitchen & toilets	i ir oach roem except kilchen & toilon	I in each room except kilchen & toilets	1 in each room except kitchen & trelists	1 in each room except kitchen & toilets	
8	Cleysor point (with MCB connected socket rutlet with writes)	l in belirous	1 in bethroom / nation	l iz kiphon l iz each toilet	1 in kitahen 1 in each toilet	1 in kitchen 1 in sock teilet	1 in kitchen 1 in each toilet	I in toile:
0.	NDB/MCR point (single phase)	i i	1					3.
10.	Вовумсв			1	1	1	1	
н	(3 phase) Cable TV point	I in living room I in each bedroom	1 in living room 1 in each bedroom	i is drawing moun i is each bedroom	1 in drawing room 1 in each bedroom	1 in drawing room 1 in dining room 1 in each bedraum	1 in office 1 in dowing mon 1 in during stern 1 in family longe 1 in each bodynem	1

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S.No.	Description	Туре-Ш	Туро-Ш	Type-IV & IV (Special)	Type-V	Type-VI	Type-VII& VIII	Domestie help's Qtrs.
12	Telephase point As per the approved of competent outscrity	I in Eving room I in each hedroom	1 in living room 1 in each hedroom	t in drawing room I is each bedroom	1 in drawing room 1 in each bedroom	1 in drawing room 1 in dining room 1 in such bedroom	1 in office 1 in drawing room 1 in fining steen 1 in family leangs 1 in each badroom	
13	Decontive light fittings				3 in drawing room 3 in disting room	3 in drawing room 3 in dining room 2 in such bedroom	3 in effice 3 in drawing room 3 in dining room	
	for LED bulbs (without bulbs)				2 in cash bedrases 1 in kitchen	2 in kitshen	3 in family loange 2 in each bodroom 2 in kitchen	
			I		Total 13	Total 16	Total 22	
14	LED take light fittings (seclading tules)	1 in each room 1 in kitchen	I in each rooms I in kinchen	k iz each roem I iz kitchen	1 in drawing room 1 in draining room 1 in each bedroom I in leitchen	1 in dowing room 1 in dixing room 1 in each bedroom 1 in lebelen	1 in office 1 in drawing room 1 in fining room 1 in family longe 1 in each bodysom	
		Total 4	Total 4	Tetal 6	Total 6	Total 7	Total 9	
15	Modular switches	_	4	=	Yes	Yes	Yes	_

Note: All the common areas e.g. life & staircases, lebbies, competing certifiers etc. shall have lighting arrangement along with LED light flatures as per actual design.



GENERAL SPECIFICATIONS FOR NON - RESIDENTIAL BUILDINGS

No.	Description	Specifications
1.0	POUNDATION	- 100
1.1	For RCC framed structure	As per structural design based on soil investigation, (Primarily with RCC feetings, columns
		radi etc.).
1.2	For composite (partially load tearing and partially RCC framed structure)	As per structural design based on soil investigation. (brick/stone work spread factings or corner; concrete base upto 1500 mm depth below ground level with or without RCC isolated combined factings with plinth beams/bands).
2.0	SUPER STRUCTURE	
2.1	For RCC framed structure	R.C.C. framed construction having filler walls with fly salt bricks / burst clay FPS bricks / sensed coment concrete (ACC) blocks / autoclowed sensed coment (AAC) blocks.
2.2	For composite (partially load hearing and partially RCC framed structure)	Lead bearing construction in burst clay FPS bricks mesonry / stone masonry / scratch corners concrete (ACC) blocks / fly ash bricks / actor/sved semind consent (AAC) blocks with intermediate columns and RCC bends at lintel/colling level as per design.
2.3	Internal pertitions:- Office /college/hospital	Agrated coment concrete (ACC) blocks/ Light weight anteclaved sersted concrete (AAC) blocks/ Oyperat blocks/ Not asbestos double skin coment beards/ Fly sab bricks/
	Schoole	Light weight autoclaved acrated concette (AAC) blocks / burnt day FPS brick mannery work / seruted coment concrete (ACC) blocks / fly selt bricks.
2.4	Sunkm Floor in Levatory Blocks for Floor Traps / W.C. with four course waterproofing treatment	Such recess in RCC floor of required size and depth may be provided for floor traps, W.C. traps.
3.0	DOORS & WINDOWS	
3.1	Frames	
3.1.1	Deer frames- Office/cellege/heepital	Deer frames of 2 rd class Indian tealwood or equivalent in officer's room, anotherd / powder costed polyseter provier costed sluminum extraded tabular sections/extraded hollow mile steel pipes (minimum 2 sum thickness)/aFVC extraded frame sections / WPC of feasity between 750 to 1000 kg per cum.
	Schoole	Locally available chemically mated hard wood/ seamless mild shall inbular frame (with Het Dip GI coating) of minimum. 2 mm thickness.
3.1.2	Window franc:- Office/collegs/bospital	uPVC extruded sections of window frame / Aluminum extraded tubular sections / WPC of density between 750 to 1000 kg per own.
	Schools	uPVC extraded sections of window frame / standard mild steel Z-section steel frame members.
3.2	Door & window alumens	
3.2.1	Door Sauner- Office/college/hospital	Paneled type in 2 rd class Teak wood or flush door with teak vencemd ply/ commercial ply or anodized/powder coated/ polyester powder coated aluminum shutters with toughered gless glazing/paneling whenever required as per CPWD specifications/as per design & downer.
	Schools	Flush door shutters with Teak ply veneuring/commercial ply veneuring (including necessary lipping).
3,2.3	Franc and shutters in wet area	PVC/FRP/WPC door frames & shutters in wet areas.
3.3	Window shazers:- Office/college/hospital	Factory made colour anodized/powder coated/polyester powder coated Z-section aluminum shutters/ standard uPVC/WPC section for windows glazed with glazing of float / toughened glaze and with / without reflective coating / high performance coatings or double glazed unit as per design & requirement.
	Schools	Standard powder costed aluminum tubular profiles windows / mild steel. Z-section steel windowswith glazing of float / toughened glass and with / without reflective coating / high nerformance coatings or double glassed unit as per design & requirement.
3.4	Pittings	Anodized aluminum / stainless steel, SS-304 grade.
3,5	Fire check door	As per fire safety specifications.
4.0	FLOORING	
4.1	Main entrance hall:- Office/college/hospital	18mm thick Pre polished granite flooring.
	Schools	18mm thick Pre polished granic flooring in entrance lobby.
4.2	Corridors:- Office/college/kospital	Matt fluished vitrifled tiles/granite flooring
	Schools	Kets stone flooring and corresponding skirting.

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hom	Description	Specifications
No.		
4.3	Rooms: Office/college/bespital	(innite tiles/vikified tiles/engineered wood flooring (in officers chambers)
	Schoele	Kota stone flooring and corresponding skirting. In principal room and office area vitrified tiles of size 600 π 600 mm and matching skirting/dade.
4.4	Lavatory Blocks:- Office/college/tospital	18 mm thick Grante flooring.
	Schoole	Restified antiskid tiles (of size not less than 400 x 400 mm).
4.5	Laboratories in schools	Rectified antickid files (of size not less than 400 x 400 mm) and chemical resistance files in floor/counters/shalves of chemistry labs.
4.6	Placeting in basement	Vacuum downtered concrete.
4.7	Rest of the area	Vitrified course floor tiles
5.0	STAIRCASE	- I i i i i i i i i i i i i i i i i i i
5.1	Internal stairceses:-	18 mm thick single piece greate stone in flooring in treads & risers with dade of matching
	Office/college/hospital	permanent finish specifications.
	Schools	20 mm thick single piece kots stone flooring in treads & rison with 1300 mm high-dade of ceramic placed tiles of size 300 x 450 mm.
5.2	Fire escape staircase	18 mm thick flamed granite in single piece in treads & risers with dade of matching permanent finish specifications.
6.0	RAILING:- Office/college/hospital	Stainless steet behistrades with 12mm thick toughesed glass railing or stainless steet tubular horizontal guard rails /hand_rails in SS-304 grade.
	Schools	1200 mm high pumpets minimum 100 mm thick or mild steel railing with GI pipe hand rail
7.0	TOILETS:- Office/college/lospital	Oranite flooring / glaced tiles of size not less than 300 x 430 mm / 400 x 500 mm in dado upto celling height, granite counters, rimless counter such besina/stainless steel sinks, mirrors with moulded PVC frame, FRP/PVC doors with frames.
	Schrote	Rectified anti-skid tiles of size not less than 400 x 400 mm and dade upto door height with coronic glazed wall tiles of size not less 300 x 450 mm.
8.0	ROOFING	
8.1	Roof treatment	Coba treatment/over deck insulation with puff slab.
8.2	Pulse onling:- Office/sollege/bospital	False ceiling in office area & tailets to cover the services as per design requirements.
	Schools	False ceiling in office area, principal mem and in tailets (If needed to hide sunitary pipes)
9,	PINESHING	Passe coming an action areas, principles mean task in among the inspector or more manners pripary
9.1	Raternal:- Office/college/hospital	Dry stone cladding/washed stone grit plaster/water proof weather cost paints/ structural glacing/ ACP cladding conforming to Energy Conservation Building Code.
	Schools	Dry mone cladding/washed stone grit plaster upto certain specified heights rust certain plasteres surface with white certain based party and scrylic amount exterior prints.
9.2	Internal:- Office / college / hospital	Connest plaster in wet areas / Dry acrylic paint / distemper in service area & basement / Actylic emulsion paint/ textured paint (low V.O.C) over POP / Wall paneling as per approved architectural design upto still level / 1200 mm height or ceiling beight
	Schools	Coment placered wall surfaces with POP (one time) and acrylic emouth interior points in clasercome, corridors and labs etc. In principal room and office texture paint over POP surface.
9.3	Peintings- Office/College/Hospital	Doors & windows - painting/polishing on wood work as per design requirement.
li sosi	Schools	Doors and windows to be painted with synthetic enamel paint and in comiders upto 1500 nm height on the exterior of classroom walls and upto parapet height on the other side to be painted with synthetic enamel point.
10.0	Provision for bursies free building	Ramps, toilets for physically challenged, chequered tiles, use of Braille signage & lifts etc GRC (glass reinforced concrete) tiles in ramp area.

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GUIDELINES FOR WORKING OUT PLINTH AREA

(As per IS:3861-2002 with upto date amendments as may be issued from time to time)

In order to ensure the adoption of a uniform method of working out Plinth Area from plans, the following guidelines are laid down. These guidelines are general in nature. These are based on the fundamental principle that the plinth area of a building should present a true picture of the covered floor area provided in the plans.

- 1. Terminology
- 1.1 Plinth Area:

The plinth area shall mean the built-up covered measured at the floor level of basement or of any storey.

1.2 Balcony:

A horizontal projection with a hand-rail, balastrade or a parapet.

1.3 Mezzenine Floor:

An intermediate floor in between two main floor having minimum height of 2.2 m from the floor and having a proper and permanent access to it.

Note: Where rules of the local bodies permit intermediate floor of minimum 1.8 m clear height, may also be considered as mezzaninefloor for the purpose of measurement.

1.4 Mumty (Stair Cover):

It is a structure with a roof over a staircase and its landing, built to enclose only the stairs for the purpose of providing protection from weather and not used of human habitation.

1.5 Loft

A structure providing, intermediate storage space in between two main floors without having a permanent access and at a height not less than 2.9 m from the floor below.

1.6 Perch

It is a covered structure supported on pillars or otherwise for the purpose of pedestrian or vehicular approach to a building.

- 2. General
 - Linear measurement shall be measured to nearest 0.01 m, and areas shall be worked out to the nearest 0.01 m²
 - 2.2 The areas of each of the following categories shall be measured separately and shall not be clubbed together so as to enable the cost computation at different rates per unit area as worked out for varied heights or categories.
 - a) Basement
 - b) Floor without cladding (stilted floor)
 - Floors including top floor which may be partly covered;
 - d) Mezzanine floor including additional floor for seating in assembly building/theatre, auditorium etc
 - e) Garage
 - f) Accommodation for service staff
 - g) Mumty (Stair cover)
 - h) Machine room
 - i) Porch
 - Towers, turrets, demes projecting above the terrace level at terrace.
- Method of measurement of Plinth Area.

The total Plinth area shall be the sum total ofbuilt up covered areas measured at each floor level of the buildings for the categories mentioned under 3.1 below and exclude the areas given in 3.2

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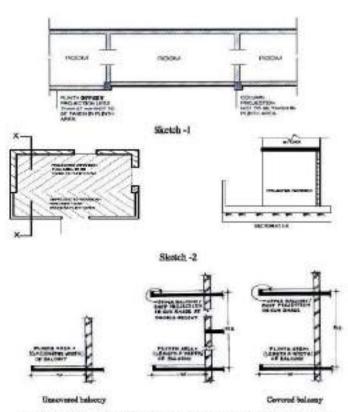
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- 3.1 For the purpose of plinth area, following shall be included:
 - a) Area of the wall at the floor level excluding plinth offsets, if any; when the building consists of columns projecting beyond cladding, the plinth area shall be taken upto the external face of cladding (in case of corrugated sheet cladding outer edge of corrugation shall be considered) (Refer sketch-I). Note: In case, a common wall is owned jointly by two owners, only hall the area of such walls shall be included in the plinth area of one owner.
 - Shafts for sanitary, water supply installations, garbage chute, telecommunication, electrical, fire fighting, air-conditioning and lifts.
 - c) Stair case: Main stair case, open spiral/service stair case/fire escape stair case etc.
 - (i) 100 percent of the plan area of main / service / fire escape stair (enclosed in defined stair hall and nountry at top)
 - (ii) 50 percent of the plan areas of service /fire escape/ openstairs (without any enclosure around andmunity at top).

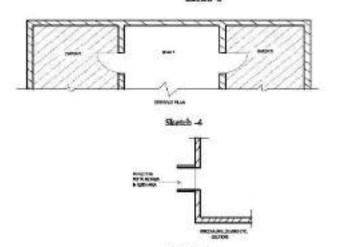
Note:- Any type of steps, ladder/cat-ladder, spiral/flat, with or without side guard rails created for the purpose of approaching inaccessible terrace or from terrace to top of bulk water sterage tanks or otherwise for maintenance purposes shall not account for plinth area.

- d) In case of open verandah with parapets (Refer sketch-2):
 - (i) 100 percent areas for the portion protected by the projections above, and
 - (ii) 50 percent area for the portion unprotected from above.
- e) In case of balcony projections with railing / parapets (Refer sketch-3):
 - (i) 100 percent area of the baleony covered by projection above
 - (ii) 50 percent area of the uncovered balcony
- f) In case of alcove made by cantilevering a slab beyond external wall;
 - 25 percent of the area for the alcove of height upto 1 m.
 - (ii) 50 percent of the area for the alcove of height more than 1 m and upto 2 m, and
 - (iii) 100 percent of the area for the alcove of height more than 2 m.
- g) Area of murnty and machine rooms (Refer sketch-4)
- h) Mezzanine floors shall be measured as different floor levels with deduction for lesser floor heights than the standard heights
- 3.2 The following shall not be included in the plinth area
 - a) Area of loft
 - b) Area of architectural band, comice, etc.
 - Area of vertical sun breaker or box louver projecting out and other architectural features, for example slab projection for flower pot, etc. (Refer sketch-5)
 - d) Terrace
 - e) Open platform on ground
 - Towers, turrets, domes projecting above terrace level.

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H-1 reduct to floor height & H-2 refers to double the floor height to case of staggered belowner. Sketch -3



Proforms for Plinth Area calculation (Floor wise) by Architectural unit

Name of Project:

Reference to building/location:

Floor '

Floor:								
S.No.	Room Designation	Secretarios?	Ares of Room	8 svi - 1	Sec. 10.000	Net Area		
		Length, L (in meter)	Broadth, B (in meter)	Area, A -L*B (in sqrs)	Length, L. (in meter)	Breadth, B: (in meter)	Area, A: - Li*Bi (in sqm)	(in sgm) .A-As
- 1	Area of the wall at the	e floor level co	celuding plints	officts		7	punkernin	1/2
(0)	Basement		Marin September					
(10)	Stilled foor							
(HI)	Entrance foyer / Lobby							
(IV)	Room-1/Hall-1							
(v)	Room-2/Hall-2							
(+2)	Eurom-3							
(VII)								
(viiii)								
(ix)	Domestic help's room							
(x)	Corridors							
(xx)	Kitchen							
(will)	Tollet							
(xliii)	Stores							
2	Shefts							
(1)	Senitary and water							
(10)	Garbage chute							
(iii)	Telecommunication							
(iv)	Electrical							
(v)	Fire Fighting							
3	Stairs					15		11
ω	Main/Service stairs (enclosed)							
(ii)	Service/Fire escape / Open							
4	Verandha							
(0)	Protected versadha							
(11)	Un protected versadhs							
.5	Balconies							
(1)	Covered balconies							
(11)	Uncovered balconies							
6.	Alcove (Cep-boards)	Box storage)						
(1)	Upto 1.00 m	- 31						
(iii)	1,00 m to 2,00 m							
(HI)	Above 2.00 m							
7	Covered area at Term	LOS BOX						
(1)	Machine Room							
(iii)	Mumty							
8	Museumine floor							
9	Posrch							

Note: In above statement more no, of rooms/designated spaces may be added in serial and more than one toilets, balconies, corridors and other ancillary spaces may be incorporated accordingly. All care should be taken that no space on any floor is left out for calculation of plinth area. The preforms is for cuboidal plans only, architectural unit may modify it for other shapes in such a manner that calculation of plinth area is comprehendible.

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Architect

Sr. Architect / Chief Architect

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Abstract of Plinth Area building wise

Name of Project:

Reference to building/location:

8. No.	Floor Designation	Floor No.	Plinth Area with;									
			Standard floor height		More than standard floor height		Less than standard fi beight					
			Height (in m)	Area (in sqm)	Height (in m)	Area (in sqm)	Height (in m)	Area (in sqm)				
1	Basement	(-x)		- N - S 15	22 - 23							
2	(i) Ground Floor	0										
7.0	(ii) Stilted floor	0										
	(iii) Porch (at ground floor)	- 0.5										
3	First floor	1										
4	Second floor	2										
5	Typical floor	3										
6												
7												
8												
9	Terrace floor											
	(i) Mumby											
0.50	(ii) Machine rooms											
10	Mezzanine floor (at any floor)											
11	Domestic help's / service staff accommodation (at any floor)											
	Total Plinth Area (in building)											

Architect / Chief Architect

Abstract of Plinth Area of the project

Name of Project:

Reference to building/location:

S.No.	Building Designation (Nanta/block of building)	No. of blocks	Plinth Area (each block)	Total plinth area in squs (as per building area details)	Reference to building abstract sheet
1.	Residential				
	(i) Type- II				
	(ii) Type- III				
	(iii) Type- IV				
	(iv) Type- V				
	(v) Type- VI				
	(vi) Hostel- 1				
	(vii) Hostel- 2				
2	Office/Admn. Blocks				
	(i) Block- 1				
	(ii) Block- 2				
	(iii) Block- 3				
3	Class room/ Lecture hall Blocks				
	(i) Halls				
	(ii) Blocks				
4	Auditorium/ assembly hall/ workshops				

Architect

Sr. Architect / Chief Architect

S. No. 3.1(a to h) refers to areas to be included for plinth area, 3.2 (a to f) refers to areas not to be included and 2.2 (a to j) refers to areas to be calculated separately on Annexure-II. Plinth area calculation sheets as per proforms (Annexure-III (a), (b) & (c)) above, shall be provided by the Architectural unit.

The concerned Architectural unit would provide building wise Plinth area calculation abstract and a consolidated plinth area abstract for the entire campus based on the parameters explained in Amexare-II, duly approved and signed by stated Architects with the conceptual drawings so as to enable the Project Managers work out Preliminary Estimate based on these Plinth Area Rates.



PROFORMA FOR CALCULATION OF BUILDING COST INDEX

S.No	Description.	Unit	%ago	Rates as on 01.04.2021 (in ₹)	Proportionate value (in ₹)	Weightage rates (in ₹)	Weightagu of Component	Rates at the time of revision of Cost Index	Cost
1	Bricks (Fly Ash)	1000 nos.	100%	4500,00	4500	4500,00	8.00		
2	Cement (OPC)	qtl.	100%	500.00	500.00	500.00	14.50		
3	TMT Steel Reinforces	MT Steel Reinforcement bar							
8.	8 & 10 mm dia		50%	4900.00	2450.00	4000.00	19.50	3.40	
b.	12 & 16 mm dia	qtl.	50%	4900.00	2450.00	4900.00	19,30		
4	Aggregates 20 mm s) Natural sources	cum	75%	1400,00	1050.00	1289.25	6.50	(2)	12
	b) Aggregates 20 mm (RCA)	cum	25%	957.00	239,25	1289.23	6.50	380	() • ()
5 (a)	Send (ocerse send) Natural sources	cum	75%	1500.00	1125.00	1310.25	3.00	-	+
(b)	Send (course send) RA	- Culta	25%	741.00	185.25	KOZOGO	3.00	(15)	
6	Flooring Items		T manie						
1.	Vitrified tiles		50%	560.00	280.00			- 4	
b.	Ceramic tiles	sgm	20%	300.00	60.00	732.00	5.00		
e.	Kots stone	selm	10%	320.00	32.00	1-34-00			
d.	Granite stone		20%	1800.00	360.00				
7	Paints .				200-0				
4.	Synthetic enamel paint		33.33%	175.00	58.33	138,32	3.00		*
ь.	Acrylic washable distemper	litre	33,33%	40,00	13,33			-	
e.	Premium acrylic print		33,33%	200,00	66,66			*	
8	Door / windows-wood	den / uP	VC / alumi	num/steel					
	35 mm thick flush door shutters both side commercial veneering		30.00%	1000.00	300.00			- 32	
ь.	Factory made, standard Z- section steel windows	sqm	15,00%	1750,00	262,50	2085.00	7.00		
c.	aPVC windows	9	20.00%	3500.00	700		1		
d.	Aluminum window		35.00%	2350.00	822.50				
9	Pipes								
B.	15 mm GI pipes		10.00%	95.00	9.50				
b.	100 mm CI pipes		40.00%	650.00	260.00	908900	sansa i		
e.	20 mm clack conduits	metre	20.00%	70.00	14.00	307.50	2.50		
4	20 mm CPVC pipes		30.00%	80.00	24.00				

S.No	Description.	Unit	Negc	Rates as on 01.04.2021 (in ₹)	Proportionate value (in ₹)	Weightage rates (in ₹)	Weightage of Component	Rates at the time of revision of Cost Index	Cost
10	Lamps & Fans	1 W							
2.	Ceiling fans 1200 mm(Five Star)		50%	1590.00	795.00				
b.	1200 mm LED tube lights with fittings	couls	40%	640.00	256.00	1060.00	4.50		
¢.	LED bulbs9/11 W		10%	90.00	9.00				
11	Electrical muchinery, Motor 7.5 HP (pump set) 1500 RPM	each	100%	23010.00	23010.00	23010.00	250		
12	Wires & cables								
8.	Copper wire 1.5 sqmm	100 metre	70%	1335.00	934.50	1000 50	100		
b.	Copper wire 4.0		30%	3190.00	954.00	1888.50	4.00		
13	Labour			***					
2.	Skilled	each 50% 784.00 392.00 714.5	50%	784.00	392.00		24.00		
b	Unskilled		714.50	20.00					
				Burney Control Control		Total	100.00		

Note:

- In the above proforms at S. No. 4 & S. No. 5, Aggregates 20 mm and Sand (coarse sand) are considered in two
 parts (a) & (b) respectively where (a) represents 75% from natural source and (b) represents 25% RCA/RA. In areas
 where components of RCA/RA are not available (because of non setting up of C&D waste conversion units), the
 components of aggregate 20 mm at 25% RCA and coarse sand at 25% RA can be avoided and 100% of these materials
 from natural sources only be considered.
- In the above proforms the rates for building materials adopted in column 5 and corresponding computed rates in column 6 & column 7 are bare rates excluding GST or any other levy. Therefore, for working out local cost index prevailing bare rates only at the respective station shall be considered.



STATEMENT OF COST INDICES OF DBLHI/NCR SINCE 1955

Year	Effective Date	Cost Index	Base 100 of PAR	Year	Effective Date	Cost	Base 100 of PAR		
1962	18.09.1962	131	1955	2006	01.04.2006	236	1992		
1966	19.07.1966	148	1955	2007	01.04.2007	254	1992		
1969	15.01.1969	157	1955	2007	01.10.2007	260	1992		
1969	17.06.1969	168	1955	2007	01.10.2007	100	2007		
1969	15.10.1969	181	1955	2008	01.04.2008	114	2007		
1970	01.01.1970	100	1970	2008	01.10.2008	119	2007		
1971	05.04.1971	120	1970	2009	01.04.2009	113	2007		
1972	03.05.1972	134	1970	2009	01.10.2009	126	2007		
1973	24.12.1973	166	1970	2010	01.04.2010	136	2007		
1975	26.06.1975	180	1970	2010	01.10.2010	139	2007		
1976	01.10.1976	180	1970	2011	01.04.2011	149	2007		
1976	01.10.1976	100	1976	2011	01.10.2011	151	2007		
1977	30.12.1977	113	1976	2012	01.04.2012	161	2007		
1978	31.03.1978	116	1976	2012	01.10.2012	170	2007		
1979	31.03.1979	130	1976	2012	01.10.2012	100	2012		
1980	10,04,1980	176	1976	2013	01,04,2013	100	2012		
1981	23.04.1981	200	1976	2014	01.04 2014	105	2012		
1982	29.01.1982	217	1976	2014	01.10.2014	107	2012		
1982	30.03.1982	221	1976	2015	01.04.2015	104	2012		
1983	16.03.1983	245	1976	2015	01.10.2015	103	2012		
1984	13.03.1984	274	1976	2016	01.04.2016	102	2012		
1985	27.06.1985	312	1976	2016	01.10.2016	101	2012		
1986	09.07.1986	340	1976	2017	01.04.2017	111	2012		
1987	16.05,1987	370	1976	2017	01,10,2017	115	2012		
1988	31.03.1988	397	1976	2018	01.04.2018	116	2012		
1988	01,11,1988	421	1976	2018	01,10,2018	118	2012		
1989	31.10.1989	494	1976	2019	01.04.2019	118	2012		
1990	31,03,1990	521	1976	2019	01.04.2019	100	2019		
1991	11.02.1991	564	1976	2019	01.10.2019	98	2019		
1991	31.03.1991	595	1976	2020	01,04,2020	101	2019		
1992	31.12.1991	664	1976	2020	01.04.2020	100	2020		
1992	01.01.1992	100	1992	2020	01.10.2020	97	2020		
1994	01.01.1994	117	1992	2021	01.04.2021	105	2020		
1995	01.06,1995	132	1992	2021	01.04.2021	100	2021		
1997	01.06.1997	145	1992		55 base 100 is e				
1998	01,06,1998	148	1992		70 base 100 is e				
1999	01.09.1999	158	1992		76 base 100 is e	man and a second			
2000	01,07,2000	162	1992	- 0.127.03707.03	92 base 100 is e	STATE OF THE PARTY OF THE PARTY.			
2001	01.04.2001	166	1992	- 60000000	07 base 100 is e				
2002	01.04,2002	176	1992	 PAR 2012 base 100 is effective from 01.10.2012. 					
2003	01.04.2003	197	1992		19 base 100 is o				
2004	01.04,2004	209	1992	8. PAR 20	(20 base 100 is o	flective fro	m 01.04.2020.		
2005	01.04.2005	223	1992	9. PAR 20	21 base 100 is e	ffective from	m 01,04,2021		

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- 13. Sh. Chalapaka Ramaraju, JE



ANNEXURE - V

Overview of the framework

Large investments, public as well as the private, will be needed in various infrastructure sectors to meet the growing needs or the indian occurring. The public sector would continue to play an important role in building infrastructure and would need to ensure efficient and timely construction of projects within the agreed costs. Towards this end, it would be necessary to adopt a modern contractual framework in the form of a standardised Engineering, Procurement and Construction (EPC) comract based on international best practices.

A modern EPC framework is a pre-requisite for efficient delivery

Need for EPC contracts

The various departments and undertakings of the Central Government as well as the State Governments have hitherto been undertaking construction projects through the conventional item rate contracts where the Government provides the detailed design as well as the estimates of quantities for different items of work (Bill of Quantilies). Payments to the Contractor see made on the basis of measurements of the work done in respect of each tem. Experience shows that item rate contracts are prone to excessive time and cost eveniums, besides recurrent disputes involving large claims. The reasons for their poor performance include inadequate project preparation and estimation coupled with allocation of several construction risks to the Government. For these reasons, the item rate mode of contracting has long been discarded in the developed countries as well by the private sector in India. The structure currently in vague is in the nature of turnkey contracts where the responsibility for design, precurement and construction is assigned to the Contractor. Such contracts are typically known as EPC contracts.

Item rate contracts are outdated

Model EPC Agreement

The afterestid drawbacks of item rate contracting are addressed by the EPC approach that raises on assigning the responsibility

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No. N-14070/14/2016-PPPAU Government of India National Institution for Transforming India (NITI Aayog)

NITI Bhawan, New Delhi September 95, 2016

Office Memorandum

Subject: Initiatives on the measures for revival of the Construction Sector - regarding.

The construction sector has been facing a number of problems, mainly drising from the flourility constraints caused on account of their payments not being released by the Government Departments/ Public Sector Undertakings (PSUs) pursuant to the arbitral awards. To discuss the problems of the construction sector, detailed deliberations/ consultations were held with the representatives of the anastruction industry, banks, major government PSUs and concerned Ministries/ Departments. Based on the above deliberations/ consultations, the NITI Aayog placed a proposal before the Cabinet Committee on Economic Affairs (CCEA) for its consideration suggesting various immediate and long-term measures required for addressing the issues ailing the construction sector. The CCEA, chaired by the Hombic Prime Ninister, has considered the proposals of NITI Aayog in its meeting held on 31° August 2016 and approved the same for the revival of construction sector.

- The NITI Asyog has separately issued instructions on the subject with regard to
 the immediate measures to be taken by all concerned. In addition to the said instructions,
 the CCEA has also directed that the following measures may be expeditiously examined
 by all the concerned Departments/ Ministries /PSUs:
- 2.1 Item-rate contracts, may be substituted by EPC (turnkey) contracts, wherever appropriate. Such contracts have been in vogae for over two decades in the developed world and Fédération Internationale Des Ingénieurs-Conseils (FIDIC an International Federation of Consulting Engineers, known by its French acronym) has also published such contractual frameworks.
- 2.2 Model bidding documents and Model EPC contracts, suitably revisited or modified wherever required to suit the requirements of particular sectors, may be adopted by PSUs/ Government Departments for construction works:
- 2.3 Ministry of Finance has issued model bidding documents for RPQ, RFP etc. which may be adopted (with appropriate changes wherever required) in all sectors. Model EPC contracts have been developed for Highways and Railways and published by the erstwhile Planning Commission also. NHAI has already adopted this document and all construction contracts are currently being structured on this model. NITI Aayog shall assist the concerned departments, wherever required, in this regard.

Page 2 of 2

- 2.4 The method of coociliation has proved more effective in settling disputes as per experience of some of the PSUs. All PSUs/ Departments issuing public contracts may consider setting up Conciliation Committees/ Councils coexprising of independent subject experts in order to ensure speedy disposal of pending or new cases. Recourse to such conciliation may be open before, during or after the Arbitration proceedings. A provision to this effect would also need to be made in the Contract Agreements in future as a mechanism for resolution of disputes.
- All the concerned Ministries/ Departments shall also communicate the above to their respective PSUs for taking necessary action on the aforesaid measures.

(A. Mithievezhappan)
Director (PPPAU)

To

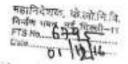
- 1. Secretaries of all the Ministries/Departments of Government of India.
- 2. Chairpersons/CMDs/MOx of all the Central Government PSUs
- 3. Chairpersons/CMDs/MDs/CEOs of all the Scheduled Commercial Banks.
- 4. Chief Executive, Indian Banks Association, Mumbal,
- Shri Alok Tandon, Additional Secretary, Cabinet Secretariat, Rashtrepeti Bhavan, New Beihi – 110001.
- Dr. T. V. Somanathan, Joint Secretary, PMO, South Block, New Delhi 110001.

Copy for information to:

- 1. PS to Vice Chairman/ PS to MoS/ PS to all Members
- 2. Sr. PPS to CEO / PPS to Special Secretary

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No.28012/11/2016-W.3 Government of India Ministry of Urban Development (Works Division)



Nirman Bhavan, New Delhi. Dated: November 29, 2016

Office Memorandum

Subject : Instruction of NITI Aayog relating to revive the Construction Sector - reg

Reference is invited to National Institution for Transforming India (NITI Asyog's) two Office Memoranda Nos. N1-14070/14/2016-PPPAU both dated 5,09.2016 (copies enclosed) on the above mentioned subject containing instructions as approved by the Cabinet Committee on Economic Affairs (CCEA).

2. In this regard, reference is also invited to the meeting held in this Ministry on 10.11.2016 under the chairmanship of Joint Secretary(W&H)in respect of the directions of NITI Aayog regarding substitution of the existing item rate contract by EPC(Turnkey) contract wherein it was inter alia decided that the cut off value of projects, above which, all contracts will be taken up under EPC(Turnkey) methodology, will be Rs.100 crore. Accordingly, all client organisations may be advised to adhere to the instructions contained in the NITI Aayog's Memoranda dated 05.09.2016 and they need not engage outside design/structural consultants, as it would be part of the EPC tender.

Strict compliance of the above directions may be ensured.

(JRoy Chowdhary) Deputy Secretary (Works)

Tel. 23062425

Encl. : As Above

To

DG, CPWD

ii) CMD, NBCC

iii) Vice Chairman, DDA

Page 2 of 2



CENTRAL PUBLIC WORKS DEPARTWENT

OFFICE MEMORANDUM No. DG/MAN/Misc./09 ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAVAN, NEW DELHI

DATED: 09.05.2017

Sub:- Guidelines for - EPC(Turnkey) Contracts.

in pursuance of NITI Aayog OM Nos. NI-14070/14/2016-PPPAU dt. 05:09:2016 instructions have been issued by MoUD vide OM No. dt. 29 11 2016 to the offect that all contracts of value more than Rs. 300 crores will be taken up under EPC (Turskey) Contracts insceed of firm rates (i.e. item-measured) contracts.

NITI Away vide its OM dt. 05.09.2015 ched above has advised that Model EPC Bidding Document published by the erstwhile Planning Commission, suitably re-visited or modified wherever required to suit the requirements of particular sectors may be adopted.

The matter has been discussed in the Technical Committee meeting held on 03.02.2017 and it is decided to permit ADGs to formulate policy for their regions as per specific requirements of the project as per the guidelines issued on the subject by NITI Aayog.

Superintending Engineer (C&M)

Issued from file No. CSQ/CM/16(1)/2017

1. All Spi. DGs, ADGs, CPWD, E-in-C, PWD, Delhi Gost. They are requested to endorse a copy of this O. M. to all CEs. SEs & CEs.

Annexive C



CERTRAL PUBLIC WORKS DEPARTMENT

OFFICE MEMORANDUM NO. DG/MAN/Misc./26

ISSUED BY AUTHORITY OF DIRECTOR GENERAL, CPWD

NIRMAN BHAVAN NEW DELHI

DATED 24.05.2019

Subject:- Mode of Execution of EPC Contracts.

As per provision contained in para 4.8 of CPWD Works Manual 2019 it is made mandatory that tenders for works costing more than Rs. 100 Crores shall be called in EPC made. There are instances wherein clients wish to adopt EPC contract document where drawings are already finalized. Therefore, to resolve the difficulties of adoption of EPC, the following guidelines are issued in respect of execution of works on EPC mode:-

Mode It in this case, the Engineering, Procurement and Construction would be fully contracted. However, the conceptual drawings shall be prepared by the CPWD Architects.

Mode It in this case, the architectural planning would be done by the CPWD Architects/Architects appointed by Clents. The EPC Contractor will carry out Engineering, Procurement and Construction based on the architectural planning by the department.

Mode III: In this case, the architectural designs, drawings and engineering will be done in house by CPWD or the Consultant appointed by Client/CPWD, the work would be executed by EPC Contractor.

As per requirement of the Client, the works on EPC mode in any of the above modes. can be taken up for the works costing more than Rs. 100 Crores. However, in case Client wants to adopt EPC mode for the works costing less than Rs. 100 Crores, the NIT approving authorities are authorized to adopt the same out of any of the modes mentioned above

However it is clarified that Mode I mentioned above will remain the preferred way of execution of works through EPC Contracts.

> 24/05/2019 Chief Engineer (CSQ)(Civil)

issued from file No. CSQS/CM/16(1)/2019

- 1. All Spl. DGs, ADGs, CPWD, E-in-C, PAVD, Delhi Govt. They are requested to endorse a copy of this D. M. to all CEs. SEs & EEs.
- File No. CSQS/CM/18(2)/EPC/2019

CPWD MANUAL / SOP GUIDELINE FOR TENDERING AND ADMINISTRATIVE AND TECHNICAL APPROVAL ON PLINTEL AREA RAYES FOR EPC TENDERING:

ANNEXURE- VI

CPWD WORKS MANUAL 2019

CHAPTER J: GENERAL PROVISIONS

(2) The T/S Authority after obtaining approval from client shall have full powers, upto their tender acceptance limits, to execute smaller works likely to crop up during the execution of work /project for which no provision exists in the sanctioned estimates, subject to availability of funds under sub head "Contingencies" in the conctioned project estimate.

(3) The contingences can be utilized for construction of site office, engagement of watch a ward staff, job works like surveying, material testing, estimating, structural designing, architectural drawings, models, maintenance and hiring of inspection vehicle and any other field requirements directly related to work. Further quicelines on portingencies & its utilization. are given in SOP 3/4.

3.1.1.4 Provision for Departmental Charges (DC)

- (1) No departmental charges are to be levied for Government Works. For the works of Private Organizations, Local bodies and PSUs, departmental charges are to be levied as per the rates given in Annexure -5 of SOP document. CPWD Officers have powers of reducing of DC upto a certain percentage given in 'Compendium of Financial Powers Delegated to CPWD Officers'. They can decide final rates within their competence for which no formal request will be required from the client.
- (2) In case of the GOI organizations who entrust their works regularly to the CPWD, no DC shall be charged if the project has not taken off even after proparation of plans and estimates.

3.1.1.5 Accord of Administrative Approval and Expenditure Sanction (A/A & E/S)

The competent authority of the Administrative Ministry/Department/Client shall accord A/A & E/S on the basis of Preliminary estimate/DPR as the case may be.

(Note: For works undertaken under MoHUA budgetary head, A/A & E/S shall be accorded by the competent authority as per powers given in "Compendium of Financial Powers Delogated to CPWD Officers".

3.1.1.6 Accord of Technical Sanction

- (1) The technical sanction for the works in which percentage rate tenders or item rate tenders are invited shall be issued before inviting tenders and shall consist of the following:
 - Technical Sanction Memo
 - A/A & E/S Memo/Order
 - (ii) Datalled Estimate, Detailed Architectural drawings and specifications
 - (v) Geotechnical Investigation Report
 - Structural drawings for the foundation and preliminary structural drawings of the Superstructure to calculate quantities of the items
 - (vi) Preliminary Drawings for Internal and External services
- (2) In case of work for which tenders are to be invited on "Design and Construct"/EPC contract. basis, provision of Tadhnical Banction required as per CPW Departmental Code is not applicable as the contractor takes full responsibility for design and execution. The scope, description of work, specifications, approved conceptual drawings for angineering and architectural planning, and achedule of quantities (if available) and as provided in the contract document, is to be kept on record.

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F No 20012/7/2016 W-3 Government of India (Works Division)

Ministry of Housing and Urban Affairs

Nirman Bhawan, New Delhi Datest 20:03:2018

OFFICE MEMORANDUM

Sub:- Adoption of New & Emerging Technologies in construction works undertaken by CPWD, DDA and NBCC - regarding

In continuation of this Ministry's O.M. JS/Works/OM/2018 dated 30 05 2016 and O.M. No 28012/7/2016-W-3 dated 28 12 2016 it has been decided that CPWD, DDA & NBCC may adopt the following technologies, which have been validated by Building Materials and Technology Promotion Council (EMTPC) under the Ministry of Housing and Lirban Affairs, in a) their projects prespective of location and project cost.

- Monothic concrete construction system using Aluminium Formwork.
- Manaithic concrete construction system using Plastic Auminium Faithwork
- Expanded Polystyrene Core Panel System
- Light Gauge Sheet Framed Structures (LGSF) Ø:
- industrialized 3-S System using RCC precast with or remout shear waits. courses beams. Celluar Light Weight Concrete Slabs/Sem-Frecast Sold
- Speed Floor System
- Glass Fibre Reinforced Gypsum (GFRG) Panel Building System
- Factory Made Fast Track Modular Building System.
- As decided earlier, in case, it is not found feasible to implement these provisions in particular project, specific permission should be accorded by DG, CPWD/CMD, NBCG/Viox Chairman, DDA respectively on case to case basis, with detailed justification
- The aforeseld modern technologies may be incorporated as per the Schedule of Rates (SoR) issued by CPWD. Further, in future, new emerging technologies, as validated by BMTPC and for which DG. CPWD has issued the SoR will also be included in the list. For this purpose, DG CPV/D is authorized to issue directions in continuation of this Office. Memorandum
- This has the approval of Horible HUAM.

Roy Chowdhui Deplety Secretary (World Tel no 23062425

To.

Director General, CPWD, Nirman Bhawart, New Delhi.

Vice Chairman, DDA, Vikes Sadan, INA, New Delhi-110023

3. Chairman-cum-Managing Director, NBCC Limited, NBCC Bhawan, Lochi Road. New Delh-110003

Copy to

PS to HUAM

2 Sr PPS to Secretary (HUA)

3. PS to all ASsUSs in MoHUA

CHAPTER 4. MODES OF BIDDING SYSTEM

4.6 Pre-bid conference

Before submission of tenders, there shall be a pre-bid conference to clarify the doubts of the confractors, besides discussions on any additional suggestion proposed by the confractors. If found necessary, a configendum to the tender documents would be issued and would be put up on e-tendering portal for information of all confractors and thereafter no further query-condition shall be entertained. Them would be no ber to hold the pre-bid conference more than once, especially in complex types of works. The NIT approving authority shall decide the time gap between pre-bid conference and last date of submission of technical bid based on the importance and complexity of work to avoid extension in the tast date of submission of technical bid based on the

4.7 Manual Tendering

In exceptional cases with recorded reasons when manual tendering is resorted to due to work requirement instead of e-tendering platform, thentin such cases, the general procedure of receipt, opening, dealing with corrections, omissions etc and ecceptance of manual tenders is given in SOP45.

4.8 EPC (Engineering, Procurement and Construction) Contracts

The NITI AAYOG vide DM No. N-14070/14/2016-PPAU dated 5° September, 2016 have communicated the decision taken by Cobract Committee on Economic Attains (CCEA) regarding substituting of item rate contracts by EPC (Turnkey) contracts, wherever appropriate, in pursuance to above, erawhite MoUD (Works Division) vide its OM No 28012/11/2016-W-3 Dated 29° November 2016 have issued directions which there-alia include that cutoff value of projects, above which all contracts will be taken up under EPC methodology, will be Rs 100 Cr. This figure will be as decided and notified by the MoHUA/ CPWD from time to time.

For executing contract on EPC methodology, the following important provisions are to be considered while framing estimate, preparing NIT etc.:

- (1) Enabling estimate can be submitted as per client requirement for carrying out pre-construction, activities wherever required for conceptual planning purpose to assess the precise requirement of the scape of work.
- (2) The concerned CA/SA unit or the consultant appointed by the NIT approving authority shall prepare the concept design, preliminary drawings and specifications based on detailed requirements of the work, in consultation with the stient before preparation of Preliminary Estimate.
- (3) The tenders based on EPC mode cannot be the model based on item rates and quantities hence the estimated cost for such tenders may be worked out on the basis of GPWD plinth area rates as per norms and the cost suitably modified considering applicable cost index or by adopting any other appropriate method as decided by NIT approving authority. Pretiminary drawings and specifications approved by the client shall form part of the NIT.
- (4) Soil investigation report shall be appended in the NIT for indicative purpose only.
- (5) The responsibility of investigations, designing, planning, procurement, construction, safety, quality, and risk of engineering lies with the contractor and the same will be incorporated in the NIT.
- (6) Mode of measurements for payment purpose will be decided by the NIT approving authority.

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CHAPTER 4: MODES OF BIDDING SYSTEM

CPWD WORKS MANUAL 2019.

- (7) The award of work shall be decided based on competitive call of renders. The Grief Engineer ascertains the reasonability of prices using analytical methods such as tendered amount for similar works whose tenders were accepted in the recent past, PAR rates duly enhanced by the current cost index and any other method approved by the Chief Engineer for ascertaining the reasonability of the tendered amount of the L1 bidder.
- (8) In case the tender received is more than A/A & E/B, revised A/A & E/B or in principle approval from the competent authority shall be necessary.

General guidelines for EPC contracts with a sample item along with scope of work to be adopted for EPC contracts are given in SOP 4/6. As per the OM of NITI Aayog dated 5 September 2016, the model EPC bidding document published by the establish Planning Commission can be modified wherever required to suit the requirements of the work, NIT approxing authority may incorporate special and particular conditions as per specific requirements of the project. Till such time the standard form is released, the contract form as decided by the NIT approxing authority may be used.

4.9 Special Purpose Vehicle

On the requirements of MoHUA or any other Ministry/Government department, DG, CPWD may take up the works on "Alternate Mode" of funding. For this purpose, a "Special purpose vehicle" (SPV) under Company Act shall be created after obtaining due approval from MoHUA. The SPV shall have the officers and staff from CPWD. The SPV will be governed by CVC and CAG rules and guidelines.

4.10 Preparation of NIT

- All tenders should be invited on behalf of the President of India. It is therefore necessary that
 the words "For & on behalf of the President of India" should be incorporated in all NIT's.
- The estimated cost put to tender in the NIT shall be worked out based on the rates considered in the Technical Sanction.
- (3) Before approval of NIT, the following are required:
 - A/A & E/S except in Emergent Works
 - (ii) Availability of site in full or part
 - (iii) Approval of plans from local bodies, wherever required.
 - (iv) Other approvals required before commencement of work in case the same are not part of the NIT.
 - (v) Technical Sanction except in case of "Design and Build" EPC Contracts & Emergent Works
 - (vi) Funds availability
 - (vii) For original specialized E & M works including lifts, HVAC, DG sets, Fire starm system, Fire lighting, Wet Riser and Sprinkler system works, the relevant guidelines as given in SOP 4/7 shall be followed.
 - (viii) Guidelines on preparation of NIT for tenders to be invited on Single Bid System and on Two/Three Bid. System are given in SOP 4/8 and SOP 4/9 which can be referred.

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PART - II

SOPS RELATED TO CONSTRUCTION WORKS

CHAPTER 3

GENERAL PROVISIONS

SOP No 3'1: Client Requisition, Team Formation, Framing Enabling Estimate and Rough Cost Estimate (Refer Para 3.1.1.1 (3))

- Client sends the requisition either manually or online.
- 2. The officer receiving the requisition makes a rough estimation of cost, helps the client department fill up the basic requisition proforms' details of the proposed work insiper Annexure -12 and forwards the requisition to the competent official, under whose T/S powers the expected cost of the requisitioned work falls, as per the rough estimation of cost. In the case of compeste works, the competent T/S Authority of the project is the official competent to accord technical canotion to the major component of the work, provided the expected cost of the composite work falls within his/ her T/S powers.
- In case of deposit work, a letter as per Annexure -13 along with draft MOU (as per the standard template given in Annexure 4.) is issued to the client for conveying acceptance to take up the work by the competent official (i.e the authority under whose T/S powers the amount of the A/A & E/S is expected to fall).
- The competent T/S Authority (as per para 2 above) refers the matter to the SDG/ADG or any other officer designated by the CPWD Directorate from time to time, to constitute/ designate a Project / Work Execution Team.
- The competent T/S Authority interacts with the Client for finalization and signing of MOU.
- The competent T/S Authority prepares/ gets prepared enabling estimate (if required) and sends to the client department for A/A & E/S. If required by the client, a rough cost estimate is also sent.
- All co-ordination work up to the stage of preparation of detailed architectural drawings and specifications including local body approvals, structural drawings and E&M services drawings for execution of a project/work is done by the official competent to accord T/S as per para 2 above.
- All field, architectural and planning units are accountable for providing necessary support to the competent T/S Authority.

SOP No 3/2: Preliminary Estimate: Preliminary Project Report. (Refer Para 3.1.1.1(4))

- The Officer under whose T/S competence the total amount of the PE. falls (as per para 2 of SQP 3/1) is also the node officer for forwarding the estimate in case of astimates with compenents from other disciplines. He/ She is also the T/S Authority of the project, and decides on the requirement of the following:
 - (i) Survey of site
 - (ii) Soll investigation
 - (ii) Preparation of prefirmary drawings
- The T/S Authority of the project decides whether to get any of the tasks done in-house or from outsourced agencies with recorded reasons.
- The TIS Authority of the project coordinates all activities required for preparation of the Preliminary Drawings and Preliminary Estimate.

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GENERAL PROVISIONS

CHAPTER 3

- Gonoemed Architectural Wing/Outsourced Consultant Interacts with Client for detailing of imputs
 for preparation of Preliminary Drawings (PDs) and obtains the relevant detailed requirements
 as given in Annexure -12, from the client.
- Concerned Architectural Wing/Outsourced Consultant Interacts with the representatives of all the concerned disciplines as decided by the T/S authority of the project for incorporating their requirements in the crediminary drawings.
- Preliminary Drawings (PDs) and Specifications are prepared by concerned Architectural Wing/ Outsourced Consultant and submitted to T/S Authority of the project for review. The T/S Authority after review, approves the same and sends if to the client for further approval.
- Client department reviews the PDs and specifications and provides feedback, if any changes are required. Changes proposed by client are incorporated by the concerned Architectural Wing/ Outcorced Consultant and submitted again for approved of the client.
- 8. PE is prepared by the T/S Authority of the project on the besis of the preliminary drawings and specifications approved by the client. He/She sends the approved plans and brief specifications to the concerned officers of the minor computerts relating to CMV Electrical Herticulture disciplines, for preparation of the preliminary estimates of the concerned discipline.
- T/S Authority of the project prepares & compiles all the other reports/details required by Client.
 as per requisition for inclusion in the preliminary estimate.
- Preliminary estimate (PE) is to be propored on the basis of Plinth Area Rates or length of read
 sto. worked out on the rate per unit area-length/number, or such other method adopted for ready
 and rough calculation, so as to give an idea of the approximate cost involved in the proposal.
- Prevailing Cost Index over the pfirith area rates, effect of ESI & EPF leviable (rates as given in Annexure -14., Contingencies and Departmental Charges (if applicable) are to be added in the PE.
- 12. The Plinth Area Scales as notified by McHUA is followed for all construction works in the General Pool houses as well as houses for other Ministries/Departments where such norms are applicable. Details of Plinth Areas Scales are available on CPWD web sits. No deviation from the prescribed notice is normally made, unless specifically desired by the client department. In such direumstances, specific reference to the said deviation is made in the history sheet of the estimate.
- 13. Provisions as required by the Architectural Unit, for architectural planning jobs is made in the preliminary estimate/enabling estimate as the case may be, especially for outsourcing the preparation of architectural drawings, to be submitted to the competent authority for accord of A/A & E/S. The provisions so made is placed at the disposal of the concerned Architectural Unit.
- 14. Wherever any preliminary survey, site/soit investigation, preparation of project reports including appointment of consultant and/or other essential preliminary steps connected with the schemes, is needed to be done before the preliminary estimate for the requisitioned work can be finalized, a separate estimate for such purpose(s) (called the enabling estimate) is prepared and sont to client department for according sanction.
- For works which are predominantly of E&M nature, the PE would be prepared and sent by the T/S authority of the concurred discipline within his/her powers to accord T/S.

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- In case of proposals under the administrative control of the Mo-ILIA, while torwording the preliminary
 estimate. It should specifically be mentioned whether the expenditure involved can be met:
 - (ii) From within the sanctioned grant.
 - (ii) From the specific budget allotment during the current financial year.
 - (I) By re-appropriation of funds and if so, source of re-appropriation is indicated.
- 17. While forwarding the PE to the client department for accord of A/A & E/S, an indication is given in the history sheat that the cost and time of the project is liable to revision due to probable escalation in cost of construction epart from reasons such as change in scope, area, design and specifications etc. if so desired by the client at a later cate.
- 18. While sending the estimates it is made clear to the client department that execution of the works will depend upon the receipt of the funds through authorization or through regular allocation wall in time during the financial years.
- 19. The PE includes the provision "In the event of delay in taking over completed Project or completed components of the Project independently as per phasing mutually agreed with client without awaiting the completion of the entire project, charges on security, re-finishing and re-commissioning, conservancy charges ato is borne by the client".

SOP No 3/3: Preparation of Datallad Project Report/ Detailed Estimate (Refer Para 3.1.1.2).

- The T/S authority decides on the packages for the purpose of accord of technical sanction.
 While deciding such packaging, the requirements of the clentrists conditions/nature of work is taken into consideration.
- The T/S Authority decides whether to get the tasks related to preparation of detailed estimate done in-house or from outsourced agencies with recorded reasons. Subsequently he rahe initiates process of hiring external agency through tendering process as per requirement of work.
- The T/S Authority coordinates all activities required for preparation of the DE/DPR. If the
 preparation of DE/DPR is done in-house, the T/S authority forwards to the Architectural Linit all
 relevant structural and service data relevant to the approved preliminary plane, for preparation
 of detailed working drawings and architectural specifications for the work.
- On receipt of the detailed working crawings and architectural specifications, the T/S authority takes up the preparation of the detailed estimate and accords technical sanction.
- 5. The detailed estimate is complete and comprehensive and is supported by detailed architectural drawings, preliminary structural plans, preliminary lay-out drawings of the various services, detailed drawings and/or specifications for the various components of work involved, details in support of the lump-sum provisions made in the estimate if any, a brief note on the special construction difficulties likely to be encountered during construction stage acc.
- The detailed estimate gives broad data is for each item of the work involved. Other details are covered by the accompanying detailed drawings and specifications. The detailed estimate is based on the rates given in the provailing schedule of rates for those items of work covered by it, and by analyzed market rates for non-schedule items.
- The detailed estimate contains a report in the Form CPWD-1, plans, specifications and a detailed statement of measurements as in Form CPWD-2, quantities and rates as in Form CPWD-3 with an abstract showing the total estimated cost of each item or work in case of a project consisting of several works.

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CHAPTER 3

GENERAL PROVISIONS

SOP No 3/5: Accord of Technical Sanction (Refer Para 3.1.1.6 (3))

The T/S authority accords Technical Sanction before a work is taken in hand (except in case of Emergent works and works on 'Design and Construct') EPC mode).

- 2. For various types of buildings, the accramic life is taken as below.
 - (ii) Monumental structures 100 years
 - (ii) RCC framed structures 75 years
 - (ii) Load bearing structures 65 years
 - (N) Sami-permanent structures 30 years

However, Economic Vio dispends upon the geographical location, type of the services and its upon.

- No estimate is generally technically exectioned unless relevant information required for T/S as per proforms at Annexure -16 is prepared so as to enable the sanctioning authority to see that the detailed estimate prepared takes into account all aspects of planning and that no point has escaped notice.
- 4. For technical sanction, detailed estimate is prepared based on applicable schedule of rates. Market rates are followed for the items not covered under schedule of rates. Effect of prevailing cost index over the reference cost Index of schedule of rate is taken on the amount of detailed estimate for items for which rates are based on Schedule of rate. Estimate is technically sanctioned for the total amount inclusive of effect of Cost Index.
- Incase of work for which tenders are called on "Design and construct" / EPC basis, the Contractor takes the full responsibility for the design and execution. Therefore, provisions of Para 64 (Technical Senction) etc. of the CPW Departmental Code are not applicable. Only the scope, description of work, specifications, approved conceptual drawings for engineering and architectural planning, and schedule of quantities (8 available) and as provided in the contract document, is kept on record and a No Objection Certificate is recorded by the CE/CA/SA/SE/EE or any authority designated by the Directorate, for the drawings prepared and submitted by the contractor after proof check, before the same is released for execution.
- It would be necessary that all the architectural and structural data/perameters, details of functional requirement and complete specifications including preliminary drawings are finalized before the call of tenders on "Design and construct" / EPC basis.

SOP No 3/6: Deposit Works (Refer Para 3.1.2.1 (9) and Para 10.3)

1. Realization of Deposits

- Whenever a deposit work is to be under taken, the deposit is realized before any liability is incurred on the work.
- (ii) In the case of deposit works of autonomous bodies which are financed entirely from Government grants, and from whom receipt of deposits is assured, 33-1/3% of the estimated cost of the work or 10% of the estimated cost of the work, is not deposited in

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entered in the Schedule. In such cases, in the event of arithmetical error committed in working out the amount by the contractor, the tendered percentage and act the amount is: taken into account. All corrections in the comparative statement is carried out neatly and clearly, and initiated by the person making the corrections. The corrections are affected by the authority concerned i.e Engineer in Charge/Assistant Engineer/ Christonal Accountant.

SOP No 4/5: Execution of Works on EPC Contract Basis (Refer Para 4.8 (9))

- As per OM No28012/11/2016 W.3 dated 29th November 2016, of MoHUA's Works division. and DO, CPWD's OM No DG/MAN/Misc/09 dated 9th May 2017, works of value more than Re-100 crores or as notified from time to time are taken up under EPC flumkevimode.
- As per the OM of NITI Aavog dated 5th September 2016, the model EPC bidding document published by the erstwhile Planning Commission suitably revisited or incoffled wherever required. to suit the requirements of the work, is adopted by the NIT Approving Authority.
- After the receipt of requisition for the work, the client organizations are advised that they need not engage Design/Structural Consultants as the same would be part of the EPC tender. The detailed planning is the responsibility of the contractor but the monitoring is done by the Engineer in Charge. For works undertaken in the EPC mode, sunction is obtained on the basis of Detailed or Preliminary Project Report as per feasibility and requirement and submitted as per understanding with the client.
- The concept design, preliminary drawings and specifications based on detailed requirements of the work, in consultation with the client, is prepared before framing of the PE. The NIT approving authority decides whether to get these tasks done in-house or from outsourced agencies with recorded reasons. If done in-house, the concerned Architectural unit prepares the concept design, preliminary drawings and specifications based on detailed requirements of the work, in consultation with the client.
- The Preliminary Estimate (PE) or Preliminary Project Report (PPR) or Detailed Project Report (DPR). or any other document submitted for obtaining Administrative Approval and Expenditure Senction defines accurately the scope of the work in terms of outcomes and performance parameters.
- The following details are obtained to enable Prail minury Project Planning (PPP) (both Engineering and Architecture) for preparation of the PE or PPR or DPR :
 - (ii) Document showing ownership of land duty contilled by the client that the same would be in a position to be handed over to the contractor upon award of work free from all oncumbrances. and encroachments.
 - (ii) Boundary of the plot(s) either constructed or demarcated and free from dispute.
 - (ii) Topographical Map of the site.
 - (h) Geotechnical Data (which includes a study of foundation system of structures including private structures - in the vicinity and is as per codal provisions for the proposed structures).
 - (v) Sources of the Bulk Services required as well as apported waste dumps for waste disposal.
 - (v) Mandatory (e.g. fire, lift, El, WS and Si etc.) as well as optional (HVAC, STP, RD, UPS, DG. SPV. Solar water heating etc.) services for each building/structure required by the dient and found feasible
 - (vii) Statutory Approvals required.

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CHAPTER 4

MODES OF BIDDING SYSTEM

- The Preliminary Project Planning (PPP) is developed on the basis of above details and is submitted. to the client prior to the submission of the Preliminary or Detailed Project Report and includes the following in respect of the buildings:
 - (i) Scope of work
 - Floor plans for building etc. and geometry for other works etc.
 - (iii) Elevations/Sections/Perspectives
 - (iv) Layout plan(s)
 - (V) 3-D Block view (s)
 - (vi) Area and/or Length statements as applicable
 - (vii) Specifications in detail for each structure/building and its services to be included in the DPR.
- Soil investigation report is appended in the NIT for indicative purpose only.
- The responsibility of investigations, designing, plenning, procurement, construction, safety, quality, and risk of engineering lies with the compactor and the same is incorporated in the NIT.
- 10. If required, an enabling sanction to cover the cost of activities under para 6 and 7 above is obtained by submitting an Enabling Estimate.
- 11. The DPR (in respect of works in which detailed engineering including architectural design is done before senction) or PPR (Where only conceptual engineering and architectural planning is done before senction) based on the PPP submitted to the client includes, in addition to the PPP. the following:-
 - Brief description of the Progurement Method (which also mentions the name of work).
 - The obligations on the part of the client department, CPWD, and the contractor with specified time limits for smooth execution of work.
 - Architectural, Structural and MEP services specifications along with special conditions for execution of these lobs.
 - In addition to the structures and their mandatory services (e.g. Internal Electrification, Fire-Services, Lifts, Water Supply, Sewerage etc where applicable) the list of optional services. desired by the client.
 - Cost Estimate on simple Plinth Area or length basis where possible and detailed basis for others etc. is duly enhanced by applicable cost index or by adopting any other appropriate method as decided by NIT approving authority in case cost index is not applicable including provision for cost of design development by contractor and risk devolving on the contractor.
 - (vi) Prevision is made separately for post completion operational cost (for 5 years or higher as agreed with client) and maintenance cost (beyond free maintenance period and upto 5 years or higher as agreed with client).
 - (vii) List of approved makes and models for components.
 - (viii) Tentative time frame for completion, post completion operation and maintenance.
 - (ix) List of three or more suitable agencies (proof check agencies) or parameters for the selection of the proof check agencies, tasked with checking and approving the design submitted by the contractor from engineering and architectural aspects.
 - (x) Procedure and time frame for approval of implications of changes in scope of work. regulationed by the client as compared to that indicated in the sanctioned PPRIDPR.

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- 12. For works undertaken by CPWD in the EPC mode, the Contractor takes the full responsibility for the design and execution and provisions of Para 64 (Technical Sanctor) ato of the CPW Departmental Code are not applicable. Only the scope, description of work, specifications, approved conceptual deswings for engineering and architectural planning, and schedule of quantities (if available) and as provided in the contract document, is kept on record and a No Objection Cartificate is recorded by the Engineer in Charge for the drawings prepared and submitted by the contractor after proof check, before the same is released for execution.
- 13. The contractor gets NOC for the design from NIT approving authority for functional aspects and aesthetics and from the approved proof check agency for engineering and architectural considerations. The officers of the CPWO are responsible for broad oversight of these aspects without being expected to examine the design.
- 14. The tender document is approved by the authority comparent to accord technical sanction for the work of similar value in the non-EPC mode (i.e. traditional item measurement basis by efficient of Chief Engineer and above rank. NIT approving authority may incorporate special and particular conditions in the contract document as per specific requirements of the project.
- 15. For EPC contracts, the NIT approving suthority ascertains the reasonableness of prices using analytical methods such as tendered amount for similar works whose tenders were accepted in the recent past, PAR rates duly enhanced by the current cost index and any other method approved by the NIT approving authority for ascertaining the reasonability of the tendered amount of the Lit bidder. The acceptance of financial bid is approved by the authority competent to approve the financial bids for the work of similar value in the non-EPC (traditional item-measurement basis) contracts.
- Submission of measurements, in case of EPC contracts, is only for record purpose. Payment of bits of the contractor is made on basis of stage-wise completion of work as per terms of the contract.

SOP No. 47: NIT FOR WORKS INVOLVING SPECIALIZED E & M SERVICES (Refer Para 4.10 (3) viii)

- 1. Tender for Original building works:
 - Tender for original building works are invited from approved and eligible CPWD Composite category contractors.
 - (ii) The Composite category contractor associates other agency(s) for execution of each of the specialized E&M work(s) notified under List III A and List III B of Annexure -6 as detailed in page 5 of this SOP:
- Tender for Original works comprising of specialized E&M works from List IIA and List II B of Annexure 6.
 - (i) Tender for original works comprising of at least one of the specialized E&M works from List ii A & List ii B of Annexure 6 are invited from approved and eligible CPWD Composite category contractors.
 - (ii) The Composite category contractor associates other agency(s) for execution of each of the specialized E&Mwork(s) notified under List II A & List II B of Annexure 6 as detailed in page 5 of this SOP.

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CHAPTER 4: MODES OF BIDDING SYSTEM

CPWD WORKSMARUAL 2019

- (7) The award of more shall be decided based on competitive call of tenders. The Chief Engineer ascertains the reasonability of prices using snallytical methods such as tendered emount for similar works whose tenders were accepted in the recent past, PAR raise duly enhanced by the current cost index and any other method approved by the Chief Engineer for ascertaining the reasonability of the tendered amount of the L1 today.
- (8) In cases the tender required is more than A/A & E/S, revised A/A & E/S only principle approval from the compotent authority shall be necessary.

General guidelines for EPC contracts with a sample item along with scope of work to be adopted for EPC contracts are given in SOP 4/6. As per the OM of NITI Aayog dated 5 September 2016, the model EPC todaing document published by the enswrite Planning Commission can be modified wherever required, to suit the requirements of the work. NIT approving authority may incorporate special and particular conditions as per specific requirements of the project. Till such time the standard form is released, the contract form as decided by the NIT approving authority may be used.

4.9 Special Purpose Vehicle

On the requirements of MoHLIA or any other Ministry/Government department, DG, CPWD may take up the works on "Abarnata Mode" of funding. For this purpose, a "Special purpose vehicle" (SPV) under Company Act shall be created after obtaining due approval from MoHLIA. The SPV shall have the officers and staff from CPWD. The SPV will be governed by CVC and CAG rules and guidelines.

4.10 Preparation of NIT

- All bandons should be invited on behalf of the President of India. It is therefore necessary that
 the words "For & on behalf of the President of India" should be incorporated in all NITs.
- (2) The estimated cost put to tender in the NIT shall be worked out based on the rates considered in the Technical Sanction.
- (3) Before approval of NIT, the following are required :
 - (i) A/A & E/S except in Emergent Works
 - (ii) Availability of site in full or part
 - (iii) Approval of plans from local bodies, wherever required.
 - (iv) Other approvate required before commencement of work in case the same are not part of the NIT.
 - Technical Sanction except in case of 'Design and Build'EPC Contracts & Emergent Works
 - (vi) Funds availability
 - (vii) For original specialized E & M works including lifts, HVAC, DG sets, Fire slarm system, Fire fighting, Wet Piser and Sprinkler system works, the relevant guidelines as given in SOP 4/7 shall be followed.
 - (viii) Guidelines on preparation of NIT for tenders to be invited on Single Bid System and on Two/Three Bid System are given in SOP 4/8 and SOP 4/9 which can be referred.

24

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DRAWINGS





NON-RESIDENTIAL BUILDINGS

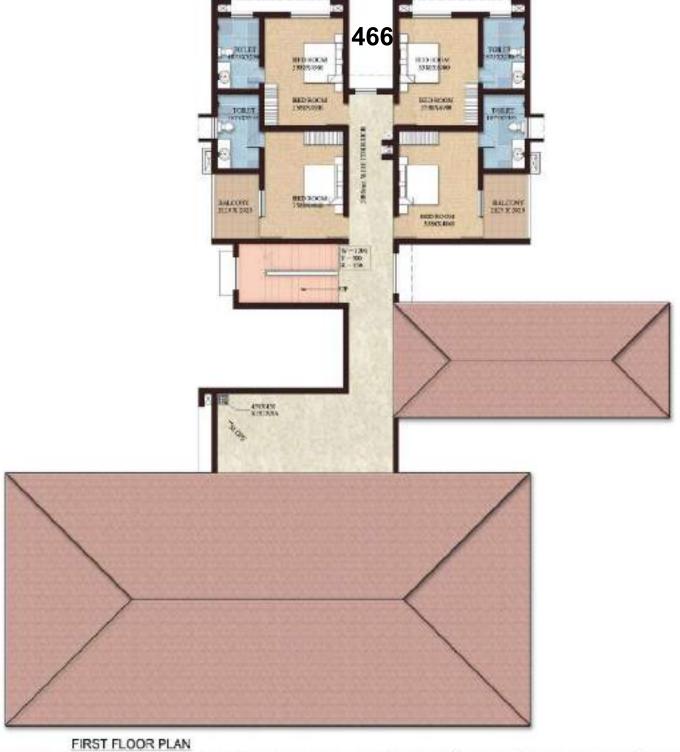








GO'S MESS / GUEST HOUSE G+1 650,00 1 650.00 6,996.60

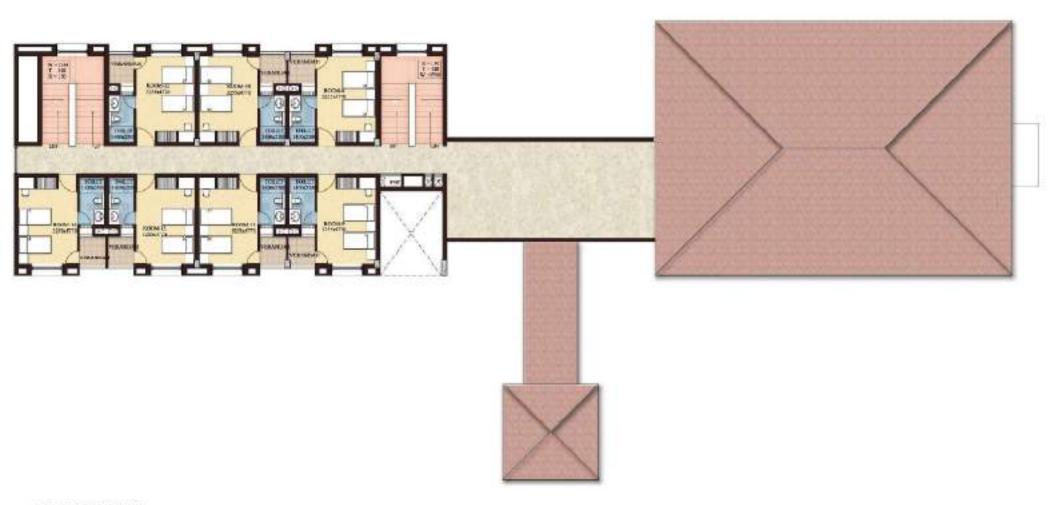


650.00





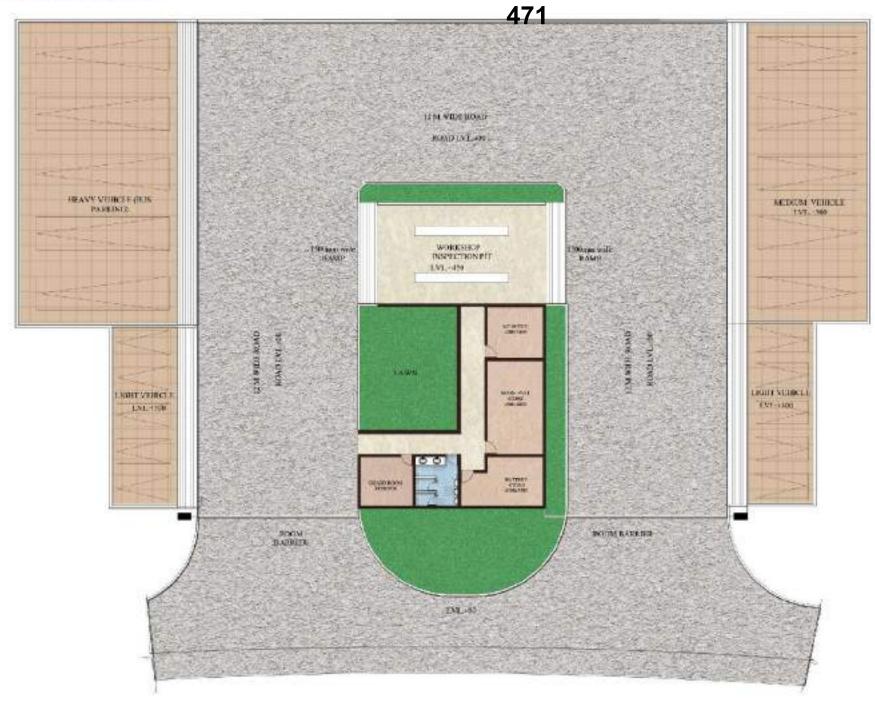
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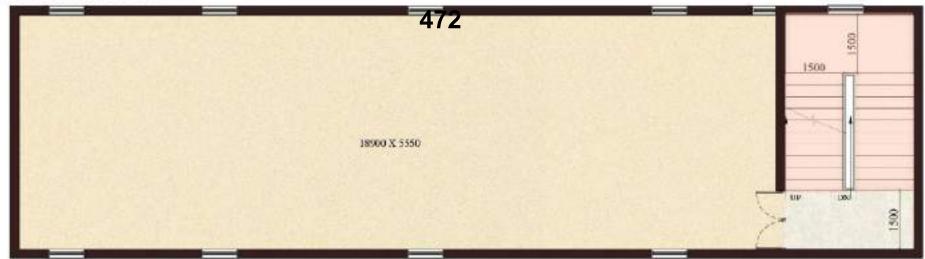


FIRST FLOOR PLAN

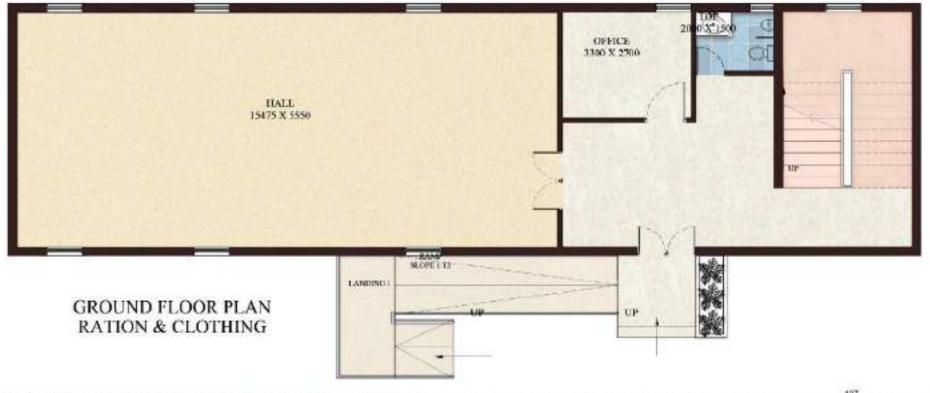
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FIRST FLOOR PLAN RATION & CLOTHING



3,229.20

300.00

3 RATION STORE & CLOTHING STORE 473



138



GROUND FLOOR PLAN FOR MAGAZINE/KOTE BUILDING



3,767.40



COMMUNITY CENTRE with CANTEEN, SALOON, LAUNDARY BLOCK

600.00

G

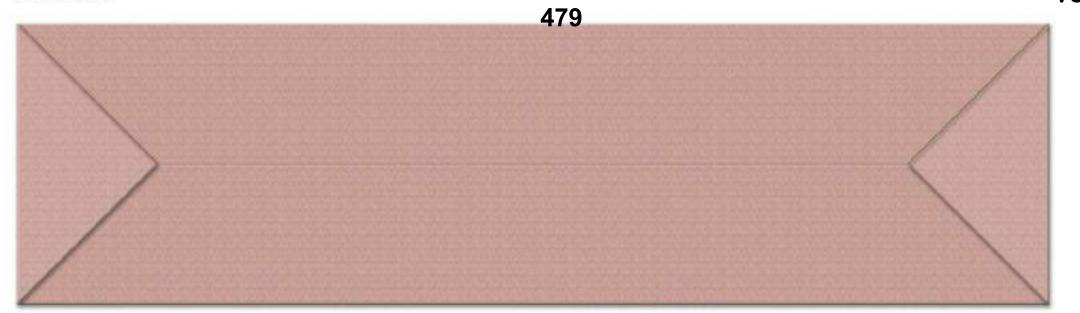
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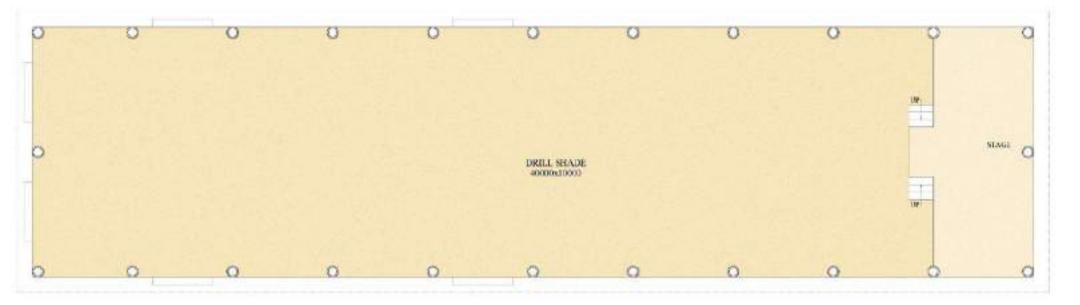
6,458.40



HOSPITAL (10 BED) G 330.00 1 330.00 3,552.12

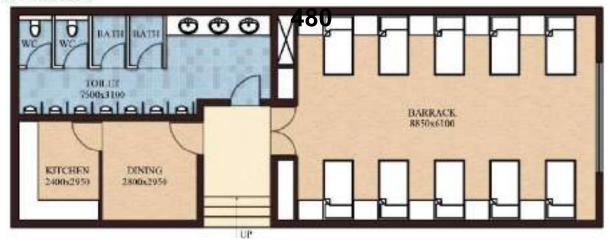


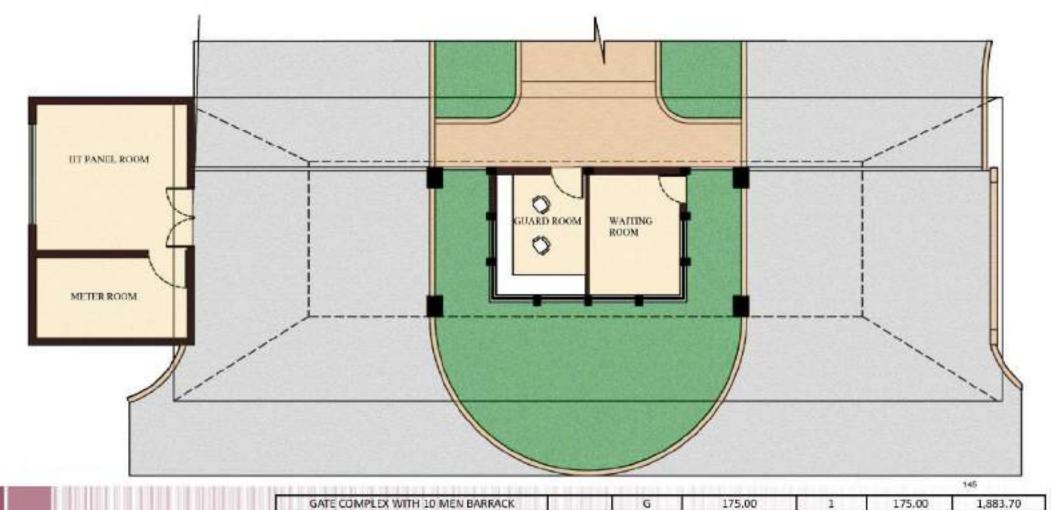


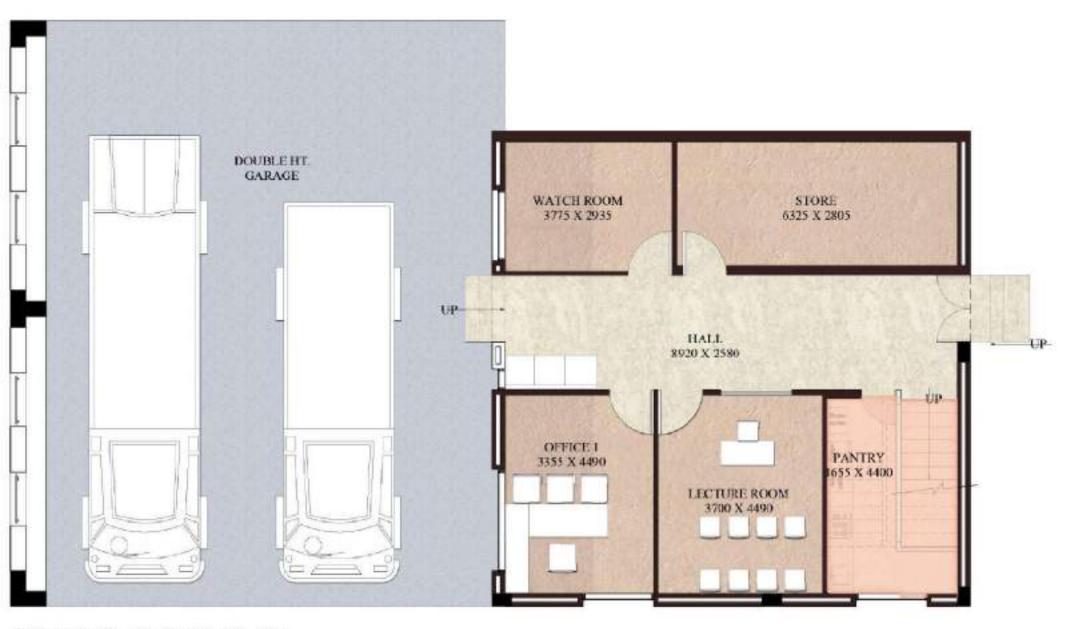


DRILL SHADE GROUND FLOOR

DRILL SHED with Stage | G | 400.00 1 | 400.00 4,305.60

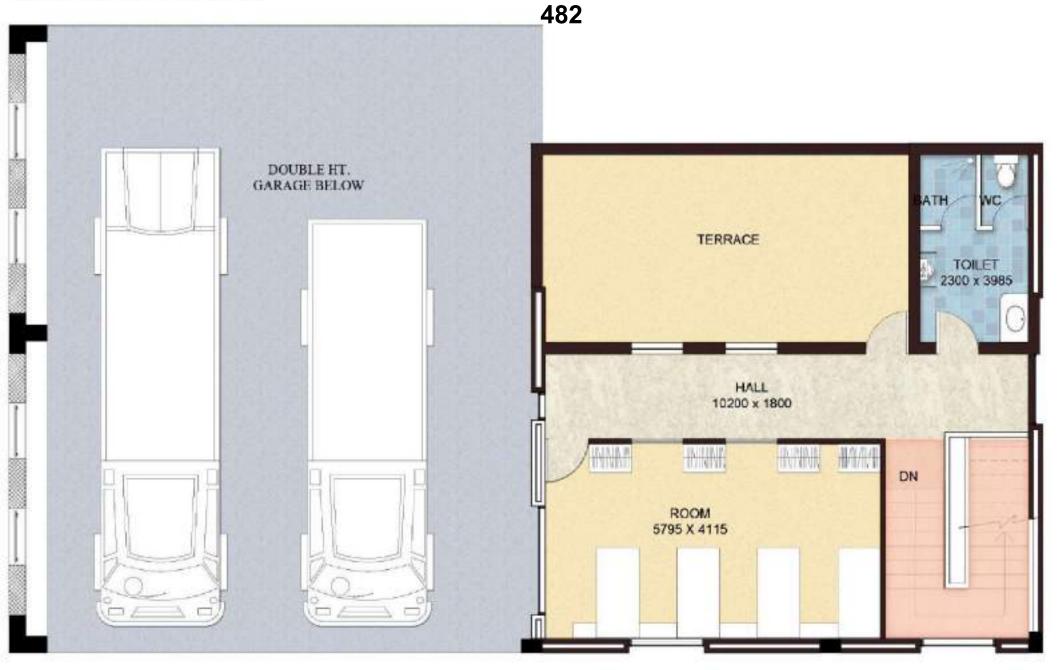






GROUND FLOOR PLAN

			146		
FIRE STATION WITH BARRACK	6+1	350.00	1	350.00	3,767.40



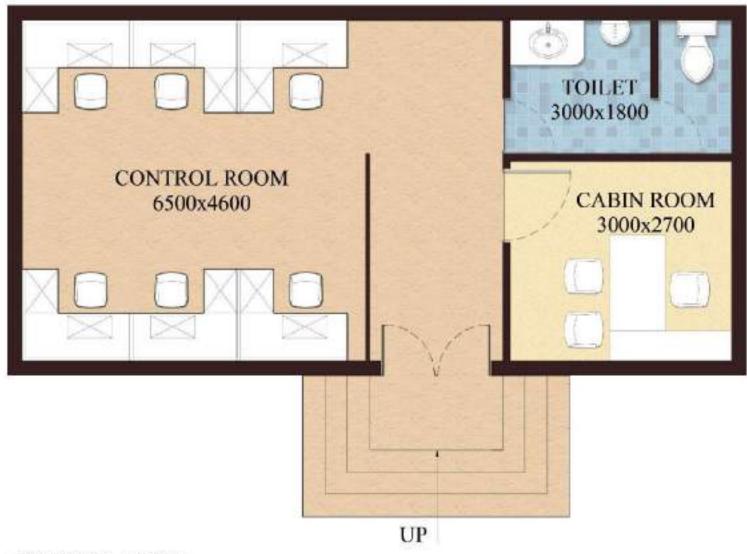
FIRST FLOOR PLAN

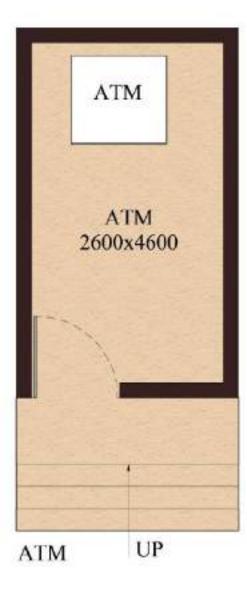
FIRE STATION WITH BARRACK 6+1 350.00 1 350.00 3,767.40

483



FIRE STATION WITH BARRACK 6+1 350.00 1 350.00 3,767.40



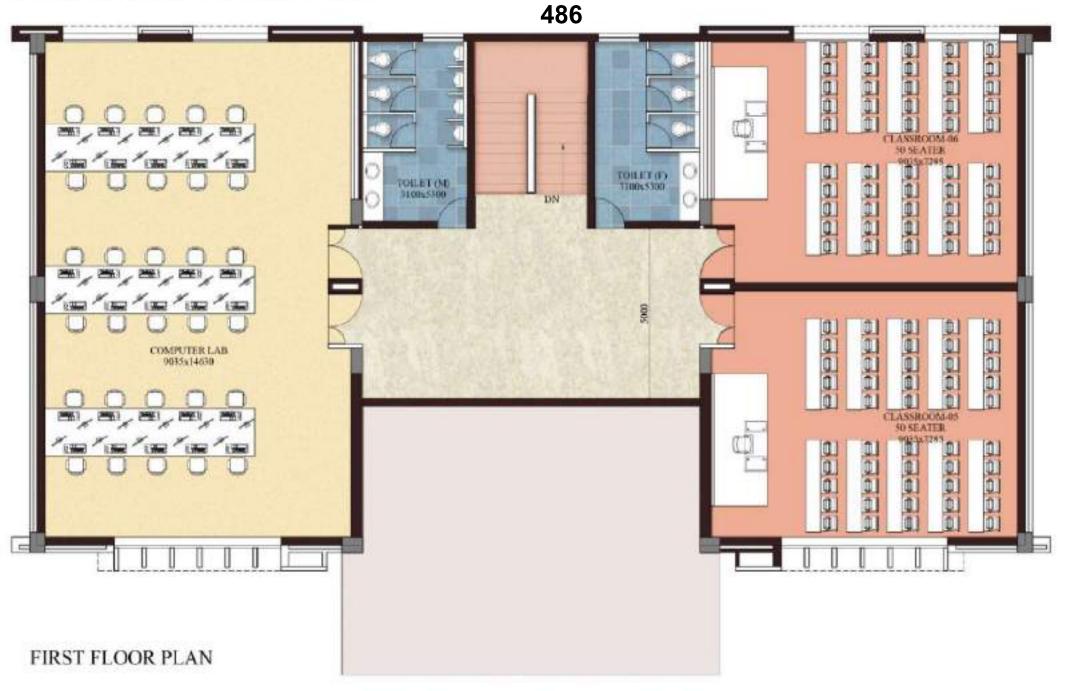


CONTROL ROOM

ATM	G	15.00	1	15.00	161.46
CONTROL ROOM	G	50.00	1	50.00	538.20



CLASSROOM BLOCK with COMPUTER LAB G+1 700.00 1 700.00 7,534.80

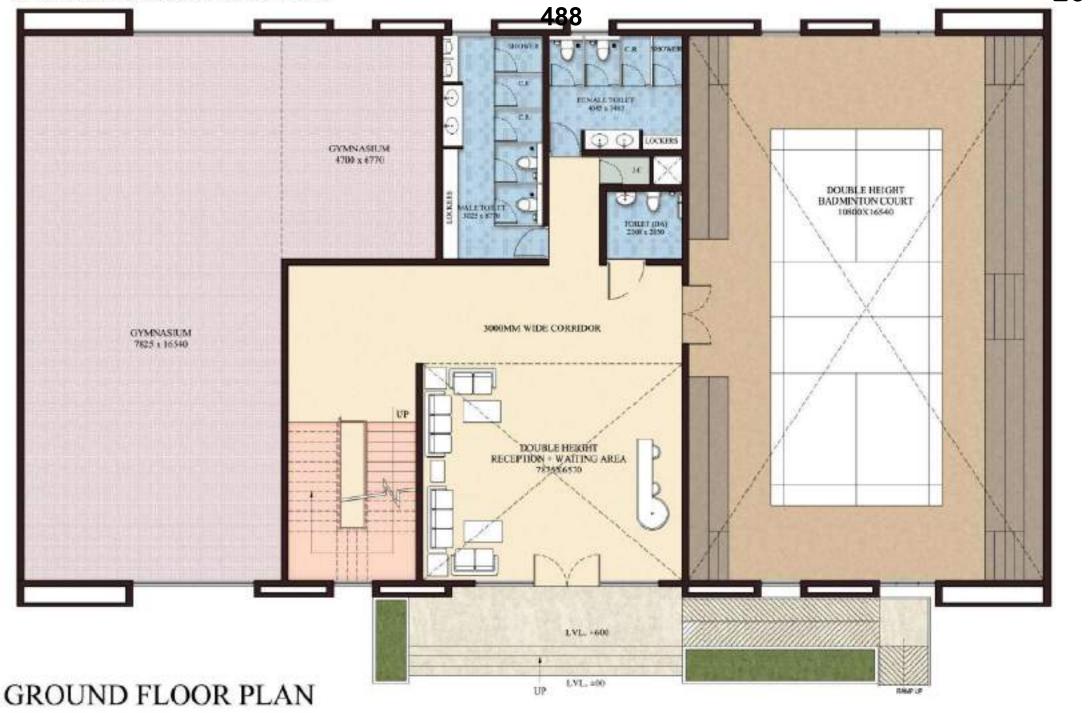


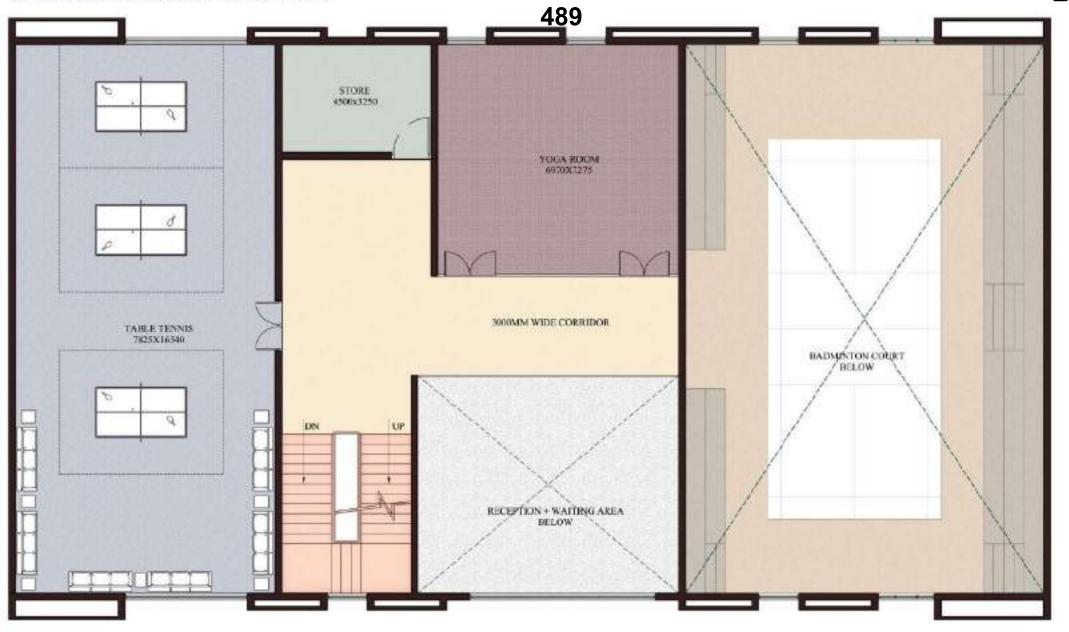
CLASSROOM BLOCK with COMPUTER LAB G+1 700.00 1 700.00 7,534.80



152

CLASSROOM BLOCK with COMPUTER LAB 6+1 700.00 1 700.00 7,534.80





FIRST FLOOR PLAN



166

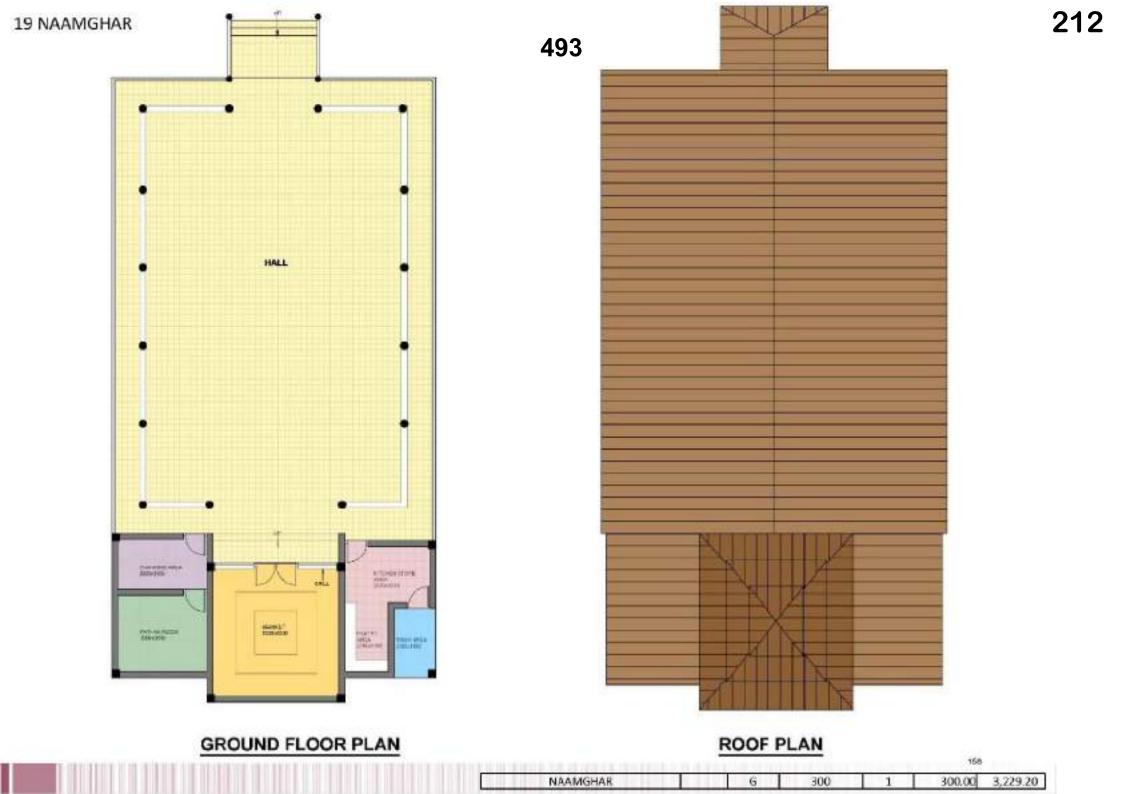


PRIMARY SCHOOL G 560.00 1 560.00 6,027.84



GROUND FLOOR PLAN

		5	30-	16	57
FAMILY WELFARE CENTRE	G	500.00	1	500.00	5,382.00







NAAMGHAR G 300 1 300.00 3,229.20



GROENDITOOR PLAN

RECREATION HALL G 400 1 400.00 4,305.60

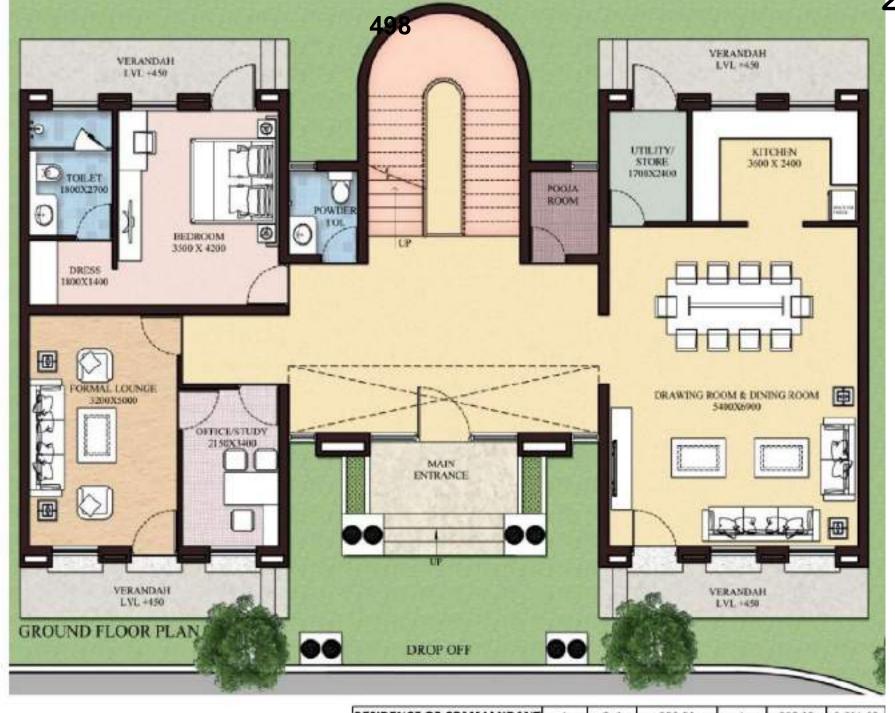
RESIDENTIAL BUILDINGS



RESIDENCE OF COMMANDANT	1	G+1	250.00	1	250.00	2,691.00
GARAGE		G	40.00	1	40,00	430.56
SENTRY POST		G	16.00	1	15.00	172.22
GUARD SHED		G	74.00	1	74.00	796.54

21 C.O'S RESIDENCE





RESIDENCE OF COMMANDANT	1	G+1	250.00	1	250.00	2,691.00
GARAGE		G	40.00	1	40,00	430.56
SENTRY POST		G	16.00	1	15.00	172.22
GUARD SHED		G	74.00	1	74.00	796.54



RESIDENCE OF COMMANDANT	1	G+1	250.00	1	250.00	2,691.00
GARAGE		G	40.00	. 1	40,00	430.56
SENTRY POST		G	16.00	1	15.00	172.22
GUARD SHED		G	74.00	1	74.00	796.54



RESIDENCE OF COMMANDANT	1	G+1	250.00	1	250.00	2,691.00
GARAGE		G	40.00	1	40,00	430.56
SENTRY POST		G	16.00	1	15.00	172.22
GUARD SHED		G	74.00	1	74.00	796.54



AREA PER UNIT	AREA PER UNIT
(in sqm.)	(in sqft.)
180	1,937.52

Charles of the same of the sam				166	120
Deputy Commandant	4	G+1	720.00 1	720.00	7,750.08
,					



AREA PER UNIT	AREA PER UNIT
(in sqm.)	(in sqft.)
180	1,937.52

Contract of the Contract of th	and the second second			167			
Deputy Commandant	4	G+1	720.00 1	720.00	7,750.08		



AREA PER AREA PER UNIT (in sqft.)

Assistant Commandant 8 G+1 600.00 2 1,200.00



AREA PER	AREA PER
UNIT (in sqm.)	UNIT (in sqft.)
150	1,614.60

	-				
Assistant Commandant	8	G+1	600.00	2	1,200.00

24 INSPECTOR'S RESIDENCE- 32 UNITS (4 BLOCK- G+1)





GROUND FLOOR PLAN (G+1 FLOORS) (INSPECTOR & SUB INSPECTOR'S QUARTER)

AREA PER UNIT	AREA PER UNIT
(in sqm.)	(in sqft.)
130	1,399.32

Inspector SI 45	G+1	1,040.00	5	5,200.00	32	4	4,160.00	
Inspector, SI	45	9+1	650.00	1	650.00			



AREA PER UNIT (in sqm.)	AREA PER UNIT
130	1,399.32

Inconstan El	45	0.1	1,040.00	5	5,200.00	32	4	4,160.00
Inspector, SI	45	G+1	650.00	1	650.00			

25 HAVELDAR'S, ASI, CONSTABLE RESIDENCE - 96 UNITS (12 BLOCK- G+1)

507 NACONT. WHOLE THEODY boline. HE MAN and the last T-100 R-100 W-1000 MINISTER HOLETER KUDIO THE ASSESSMENT NAME OF STREET 2015/N1208041 03101 2850140 8 PROCESS. **€LHBST** THE LEGIN > Land W Resident PRODUCTION OF THE PERSON NAMED IN COLUMN 50 000 ENDEADUR Witness. WINGS! THE THE Inegit, PORTS. EXAM 1005191 MILITARY. THE INC. Y 10 BOS!

AREA PER UNIT (in sqm.)	AREA PER UNIT (in sqft.)
93	1,001.05

GROUND FLOOR PLAN (G+1 FLOORS) (HAVALDAR CONSTABLE QUARTER)

11-14-05/5-11	100	0.4	744.00	23	17,112.00	96	12'2	8,928.00
Havaldar, ASI, Constable	190	G+1	558.00	1	558.00			-

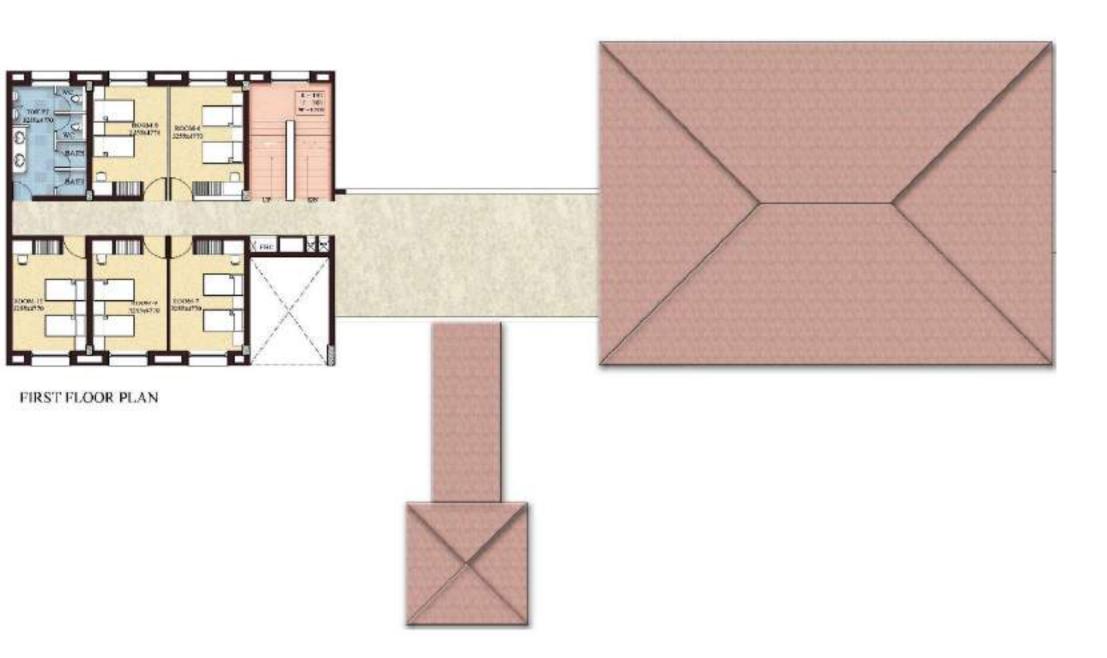
AREA PER

UNIT (in

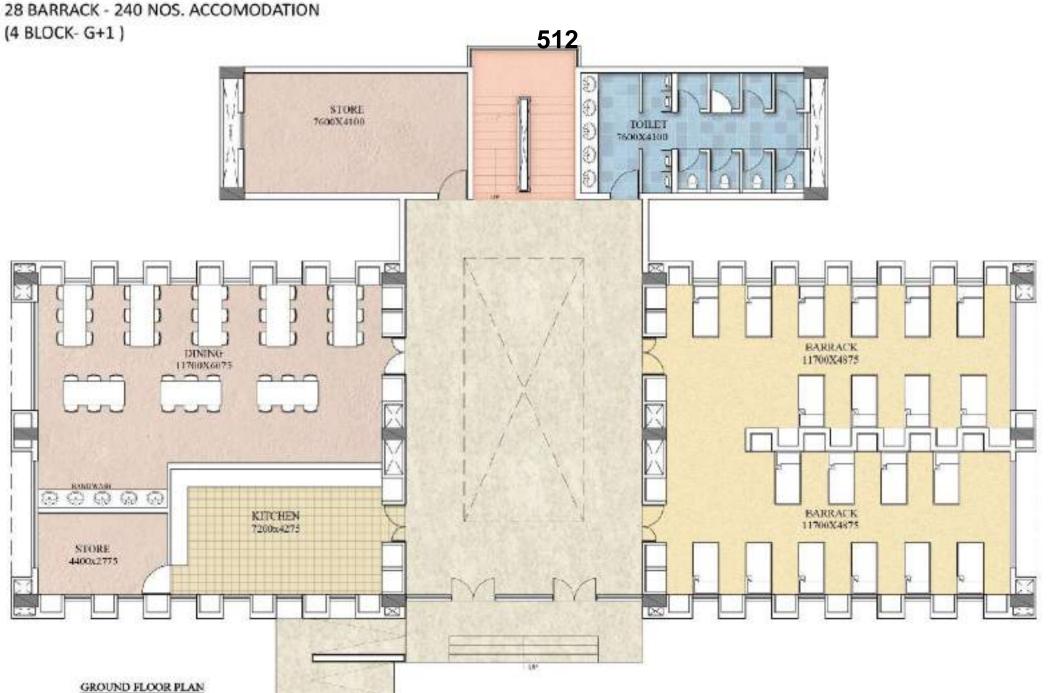
sqm.)













FIRST FLOOR PLAN



BARRACK (Havaldar, Const., Followers) 504 G+1 8 8,064.00 240 4 3,840.00



STRUCTURAL DESIGN CRITERIA

POLICE BATTALION INHAILAKANDI, ASSAM

INDEX

SNO	DESCRIPTION
01	SCOPE
02.	CODES AND STANDARDS
03.	LOADS AND POPCES
04,	COMBINATION OF LOADS
05.	CONCRETE AND FOUNDATIONS
06.	DESIGN PARAMETERS
07.	BUILDING MOVEMENT
08.	HORIZONTAL DEFLECTION
09.	SOFTWARE USED
10.	SOIL PAFAMETERS

OF

POLICE BATTALION

IN

HAILAKANDI, ASSAM

Architect Design Associates INC, A163, Sector 136, Noida - Greater Noida Express Way Noida, Uttar Pradesh 201301

POLICE BATTALION INHAILAKANDI, ASSAM

1.900PE

This criterion covers the structural design basis for Proposed "POLICE BATTALION IN HAILAKAND), ASSAM".

The belidings will be made with RCC framed structure with cast in-situ columns, beams and slabs to suit, the approved: finalised architectural drawings. The buildings are multi-storey buildings with fleers at different levels, as per various architectural drawings.

The buildings shall be as per the Architectural requirement for civil and structural works, standard specifications, relevant I.S codes and local regulations.

2. CODES AND STANDARDS

All the design shall be based on indian standard & codes as specified here.

List of commonly used Codes and Standards:

- IS 875 (Part 1,2,4, & 5)-1987 Code of Practice for Design Loads (Other Than Barthquake) For Buildings and Structures
- IS 875 (Part 3)-2015 Cade of Practica for Dasgn Loads (Other Than Barthquake) For Buildings and Structures
- ISI893-2016 Oritoria for Earthquake Resistant Design of Structures
- IS-456-2006 Plain and Reinforced Concrete Code of Practice
- IS 13920-2016 Ductile Detailing of Reinforced Concrete Structures Subjected to Seismic Forces -Code of Fractice
- IS 806-2007 Code at Practice for General Construction, In Steel
- Code IS 1786 2008 Specification for high strength deformed steel bars and wires for concerte reinforcement
- SP-34 Handbook on Concrete reinforcement and Detailing
- 5P-16 Design aids for IS-458
- IS 1964 Indian Standard Code of Practice for Design and Construction of Foundation in Soils: General requirements.
- IS 11384:-Code of practice for composite construction in structural steel and concrete.
- National Building Code of India, NBC-2016

 In addition to above any additional code wherever applicable to be followed. In absence of Indian codes, international codes to be followed. In case of revisions in code, latest codes to be followed.

3. LOADS AND FORCES

Loads and forces used for design shall be as defined in 19875, and is specified below.

The following type of loads and forces shall be considered.

- Dead load (DL)
- Live lead (LL)
- Wind load (WL)
- Earthquake load (EQ)

3.1 Dead Load (DL)

Dead load is the load of the structure itself

Following are the unit weight of major construction materials.

- Reinforced Cement Concrete 25.0 kN/m³
- Plain Cement Concrete 24.0 kN/ m³
- Floor Firsth density 24.0 kN/ m²
- Structural Stool 78.5 kN/ m³
- Saturated soil density 19.5 kN/ m³
- Masonry wall including plaster 20.0 kN/ m³
- AAC Wall 8 kN/m²
- Floor finish margin of 50mm will be considered for design.

Sunk load shall be taken considering the density of filling above 150mm as 8kM/ m² and filling below 150mm as 20 kM/ m², wherever required.

3.2 Live Load (LL)

Live load for building and structure shall be in accordance with ISB75 part Zunioss otherwise specified or required by the user or equipment requirement for stees not covered undernessh.

	2	kN/m ²	
Ritchen, laundries, public	3	kN/m²	
lounge, laboratories.			
Ball room, office room	3	isN/m ^a	
Passage, Balcony, Stairs	.4	MN/m ²	
Toilat	. 2	leN/m ²	
Store rooms	5	kN/m²	
Lift M/C Room (Impact Loading)	10	kN/m ²	
	lounge, laboratories Bath room, office room Passage, Batcony, Stairs Toilet Store rooms	Uving rooms, bed rooms g and dormitories. Kitchen, laundries, public g lounge, laboratories. Ball room, office room g Passage, Balcony, Stairs 4 Toilat g Store rooms 5	Uving rooms, bed rooms 3 kN/m² and dormitories 8tchen, laundries, public 3 kN/m² lounge, laboratories 3 kN/m² Ball room, office room 3 kN/m² Passage, Balcony, Stairs 4 kN/m² Toilet 2 kN/m² Store rooms 5 kN/m²

Terrace 1.5 kN/m² (Accessible Roof)

3.3 Wind Load (WL)

Wind load to be applied for structures shall be in accordance with ISB75 part 3, and notedbelow.

- Basic wind speed, V_s, shall be 55m/sec.
- Flisk coefficient "K;" shall be equal to 1.0. (Design Life considered is 50 years.)
- Terrain Height & Structure Height factor K_g shall be obtained from Table 2 (S875 part 3. Terrain Category – 3 (Considering scattered buildings around the project structure).
- Topographic factor K_c = 1.0
- Importance factor for the cyclonic region.K₊ = 1.0.

Design wind speed V_rat any height zin m/sec

$$V_a = V_b \times K_t \times K_c \times K_d \times K_s$$

Wind pressure p_v at any height z in N/m²

- Wind Directionality Factor, K_s= 0.9 (for buildings, solid signs, open signs, lattice frameworks, and trussed towers (triangular, square, rectangular)
- Wind Directionality Factor; K. 1.8 (for circular or near-discular forms).
- Area averaging Factor K., (as per Cl. 722, IS 875 Part 3:2016)
- Combination Factor K (as per D. 7.3.3.13, IS875 Part 3:2016)

Design wind pressure p_{\pm} at any height z in N/m² $p_{\pm} = K_d \times K_c \times K_d p_{\pm}$

The value of p., shall not be taken as less than 0.70 p.

Force coefficient as per Fig. 4 of IS-875 Part-3 shall be used to calculate wind force.

3.4 Seismic Load (EQ)

Seismic loads to be applied for structures shall be in accordance with the applicable

Provision of the IS 1893, 2016 and noted below.

- Seismic Zone Factor, Z. shall be 0.38.
- Importance factor I, shall bet 2 (for buildings with occupancy greater than 200 persons), 1.5 (for important buildings like hospital building) and 1 (for other buildings) depending on the usage of building as per table 8 IS1889: 2016.
- Response reduction factor shall be 5.0 for PC building with SMRF& ductile PC structural walls with SMRF (dual system) or 4 for ductile PC wall building.
- Average response acceleration factor.

A. - 22 : PR : S/a

E = A,XW

Where 'W' is seismic weight of structure with appropriate live load.

The approximate fundamental natural period of vibration (Ta) in seconds, of buildings, shall be estimated by the empirical expression.

T = 0.075 s h^{0.75} (For moment-resisting frame buildings without any masonry infill)

T = 0.69 x h / (d)^{8.5} (For mamont-resisting frame buildings with brick infill panels)

Where

d = length of the building the considered direction of earthquake

he height of the building.

4. COM BIN ATION OF LOADS

Concrete structural members shall be designed to have, at all sections, a calculated strength necessary to carry thefollowing factoredicads and forces as per table (8 of 15456.

Load Combination	Limit		ell States of relocability			
	DL	II.	WX.	DL	IL.	MZ
915	(2)	(5)	(4)	(20	(6)	69
DL+AL		5	5.0	1.0	1.0	-
DL + WL	1.5 or 9.91	-	1.5	1.0	-	18
DL+IL+WZ.	6500	1.2	1000	1.0	4.8	0.8

Wind load & earthquake load will not act in tandem & each one to be checked with provisions of combinations as per design/loading codes. In the above combinations, wind to be substituted for earthquake & checked in additional combinations.

5. CONCRETEAND FOUNDATIONS

All concrete design shall conform to IS456-2000, unless noted otherwise. The detailing of concrete reinforcement shall be in accordance with the requirements given in ISF3820.

ROC retaining walls will be provided in accordance with Architectural drawings in the basement periphery considering cracked section. Water proofing lining/layer for wall area under water and active earth pressure along with 1 T/m² surcharge loading will be considered.

6. DESIGN PARAMETERS

POC structures shall be designed based on limit state method of design as given in 19, 456-2000 & ductility provision in detailing at RCC structures shall be considered judicously based on 15, 13920-2016 for Lateral force resisting elements or the structure. The following parameters shall be used:

ROC gradeshall beas per drawings in accordance with clause 6.0 (Table 5)of IS 456-2000 for all. Minimum grade shall be M 25 for all structural digmants.

Reinforcementatest grade 500 N/mm²: High yield strength detormed bars conforming to IS 1786 with minimum alongation of 14.5%.

Environmental Exposure condition for all structure shall be considered as Moderate as per Clause 8.2.2.1 of IS456.2000 except mild for plastered surfaces.

ANNEXURES

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

7. BUILDING MOVEMENT

Vertical Deflection

The deflection shall generally be limited to the following:

a) The final deflection due to all loads including the effects of temperature, creep and shrinkage and measured from the se-cast level of the supports of floors, mode and all other horizontal members, should not normally exceed span 250.

b) The deflection including the effects of temperature, creep and shrinkage occurring after erection of partitions and the application of finishes should not normally exceed span/350 or 20 mm whichever is less.

8. HORIZON TALDEFLECTION

Horizontal movement will occur due to creep shrinkage, temperature effect and Drift due to Earthquake& Lateral Sway due to windare also considered.

These movements will occur throughout construction and during the life of the building.

Drift:

The storay drifts in any storay due to the minimum specified design lateral force, with partial load factor of 1.0ahalf not exceed 0.004 times the storey height.

Lateral sway:

Under transient wind load the lateral away at the top should not exceed H/500, where H is the total height of the building.

9. SOFTWARE USED

ETABSS: SAFE a Product of Computers and Structures Inc. & STAAD Pro a product of Bertley Engineers. along with MS Excelshall be used for the analysis & design of the structure.

10. SOIL PARAMETERS

Allowable bearing pressures and pile capacities shall be in accordance with soil report.

PROPOSED CONSTRUCTION OF POLICE CAMMANDO BATTALION AT HAILAKANDI, ASSAM

DESIGN BASIS REPORT FOR MEP SERVICES

Design Basis Report (DBR)

DESIGN BASIS REPORT PLUMBING WORKS

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Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

1.INTRODUCTION

- 1.1 Water supply and wastewater disposal constitute a very important part of the services in a building. Maintenance of hygiene and cleanliness are indispensable to the well-being of the occupants as a whole.
- 1.2 It is proposed to design the services, storage capacities and piping network.
- 1.3 It is proposed to locate all the pumps and equipment's in the underground pump room which shall accommodate all major pumps and equipment's and electrical panels etc.
- 1.4 This report intends to highlight the details of the following proposed services, which are to be provided from the point view of Sanitary Engineering, Fire Fighting and other allied services.
 - Water Supply System
 - Wastewater Disposal System
 - Sewerage system up to STP and drainage system up to recharge pit (fulfilling the IGBC norms, GRIHA, Environmental clearance)
 - Sewage Treatment Plant and Recycling of Waste Water
 - Firefighting system

To reduce water consumption, All Plumbing Fixtures shall be of low flow fixtures as per GRIHA to achieve the desired and better Ratings.

2 WATER SUPPLY SYSTEM

2.1 Total Water Requirement

The total water requirement is proposed to be catered by underground water tanks. The water requirement shall be calculated as per MoEF & CC Guidance Manual for Building Construction. The tentative water requirement for the respective buildings are listed below:

Page 2 Page 3

WATER REQUIREMENT Water Total **Total Domestic** Total Requirement Flushing Area Total Water S.No. Description Requirement Floors per capita Water (Sqm) Occupancy Requirement (LPD) Requirement per day (LPD) (LPCD) (LPD) NON- RESIDENTIAL BUILDINGS A C.O'S Office Building-1 no. G+1 Sentry Post-2 Nos. G Garrage-1 No. (LS) G MT Garrage & Office-1 no. G Ration Store & Clothing Store-1 no. G Visitors @ 90% of total population Staff @10% of total population Magazine/Kote Building With B+G Sentary Post GO'S Mess / Guest House-1 no. G+1 SO'S Mess -1 no. G+1 Community Centre G G Hospital (10 BEDS) Drill Shed (LS) G Gate Complex With 10 Men Barrack-G ino. Fire Station With Barrack-1no. G+1 Control Room-1no. G Classroom With Computer Lab-1no. G+1

G+1

G+1

G+1

Followers-1no.

2 nos.

Followers)

Accommodation for SO'S (Insp., SI)-

Barrack (Havaldar, Const.,

WATER REQUIREMENT Water Total **Total Domestic** Total Requirement Flushing Area Total Water S.No. Description Requirement Water Floors per capita (Sqm) Occupancy Requirement (LPD) per day Requirement (LPD) (LPCD) (LPD) Indoor Sports Complex With GYM-G+1 1no. Primary School-1no. G Family Welfare Centre G G Naamghar Recreation Hall G A RESIDENTIAL BUILDINGS C.O'S Residence-1 no. G+1 Garrage-1 No. (LS) G G Sentry Post-1 No. G Guard Shed Deputy Commandant -1 no. (4 units) G+1 Assistant Commandant- 2no. (8 G+1 units) Inspector, SI - 6 nos. G+1 Havaldar, ASI, Costable -23 nos. G+1

			WAT	ER REQUIRE	MENT			
S.No.	Description	Floors	Area (Sqm)	Total Occupancy	Water Requirement per capita per day (LPCD)	Total Requirement (LPD)	Total Domestic Water Requirement (LPD)	Total Flushing Water Requirement (LPD)
С	Total					235007	153846	81161
D	Capacity of Sewage Treatment Plant:							
1	80% of total				=	188005	LPD	
1.1	or Say				=	200	KLD	

The above water requirement is bare minimum, however EPC Contractor has to provide detailed calculation.

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

2.2 Source of Water

- a) Municipal water.
- b) Sewage treatment plants shall be provided to treat the sewerage and effluent received from various buildings which shall be used for flushing and horizoulture purpose.

2.3 Storage

- 2.3.1 Storage of water in Underground shall be of one day capacity and separate dedicated half day storage (treated water) is provided for buildings zones wise from there overhead tank of capacity half day is filled. Fire tanks both underground and overhead shall be provided as per NBC-2016 and Latest Fire norms.
- 2.3.2 Considering minimum requirement of storage for one day in the underground tanks (excluding for horticulture purpose), the capacity of underground tanks shall be as follows:

Side
50 KL
50 KL
85 KL
85 KL

S No.	Description	Treated water tank (KI)	Flushing water tank (KL)	
1	Common UGT-2		entodone	
1.1	Havaldar, ASI, Costable	15 KL	TORE	
1,2	Followers	13.62	10 KL	
1.3	Inspector, SI			
2	Common UGT-3			
2.1	GO'S Mess / Guest House		10 KL	
22	Assistant Commandant			
2.3	Classroom with Computer Lab	20 KL		
2.4	Primary School	0.00		
2.5	Hospital			
2.6	C.O'S Residence			
2.7	Deputy Commandant			
3	Common UGT-4	2006-1-000	50.000	
3.1	SO'S Mess	45 KL	25 KL	
3.2	Community Centre	100000		

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Design Basis Report (DBR)

S No.	Description	Treated water tank (KI)	Flushing water tank (KL)
3.3	Indoor Sports Complex with GYM	1-1	133.55
3.4	Family Welfare Centre	-	
3.5	Recreation Hall		
3.6	Accommodation for SO'S (Insp., SI)	3	
3.7	Barrack (Havaldar, Const., Followers)	-	

4 Quality of Water Supply

Since, the water will be required for different purposes i.e. for drinking, cooking, in the toilets, kitchen area etc., it has to be of a required standard quality. The exact treatment of water will be suggested after getting the municipal water tested for portability as per IS:16500.

However, since the water quality is expected to be poor, as a standard, the water shall be passed through a Activated carbon filter, multi grade filter, softener and ozonator prior to the supply to the building.

It is also advisable to maintain a strict monitoring system on the quality of the water during the operation of the system.

2.5 Water Supply System

- 2.5.1 The water from the potable water supply line will be brought into compartment No. 1 and 2, of Static Fire Tank which will serve exclusively as a static water storage tanks for firefighting purposes and shall be of a combined capacity of 2 x 50 KL. The water from here shall overflow into the raw water tank.
 - Water from Raw water tank will pass through Treatment system then stored in treated water tank.
- 2.5.2 Water from the treated water tank will be pumped to Zone wise treated underground water tank as mentioned above. Water from zone wise treated water tank will fill overhead water tank via submersible pumps. Water from OHT will supply water through gravity system to all floors. Separate ring main will be provided from the STP for providing flushing supply. Same scheme has been followed as Treated water supply.
- 25.3 An underground ring main shall be provided along the roads which will be connected directly to the garden hydrant pumps from the flushing water tank at STP. Garden hydrants will be provided on the ring main.
- 2.5.4 Where bathing facility & kitchenidining/mess is provided hot water is feed from solar [with electric backup).
- Waste water disposal system-All soil & waste is collected and feed in to manholes
 outside the basement. It is going to STP (MBR Technology) from manholes via gravity
 system where it is being treated. The treated water is used for imigation & flushing water
 purpose.

4.Sewerage & Drainage system

4.1 Sewerage System-The external sewerage system shall be running along the roads. The main sewer line will carry the whole sewage by gravity up to the STP (MBR TECHNOLOGY).

STP should be design in 2 parts (150+50 KL)

All kitchen waste will be first pass through the convention Grease trap and then feed to STP.

- 4.2 Drainage System- Drainage system shall be designed on the parameters setup by the metrology department and various statutory codes. Surface drainage consisting of underground storm water disposal pipes will be provided so that there is no accumulation of rain water. In addition to this Rain Water Harvesting and Ground Water Recharge structures will also be provided to make optimal use of the rain water so collected (rainwater system shall be meets GRIHA, IGBC, Environmental, local authority. Material used for recharge pit structure shall be recycled polyproplyne co-polmer based cross way/polygrain. Size available are 494 x 494 x 220mm and along with spacer 988 x 240 x 25mm/polygrain rainwater harvesting. Module size 684x408x430 void ratio up to 96.5%. This is monolithic and interlock structure, load bearing structure more than 40 ton/sqm. Voids ratio shall be more than 95%. Its life should be minimum 50 years. Indicative items shall be referred to for rain water harvesting system.
- Fire Fighting System-The firelighting will be designed as per the recommendations of the National Building Code of India-Part IV, 2016.

The contractor shall make final calculation as per prevailing local bye -laws and NBC whichever is more stringent and get them approved from the client. The capacities indicated in DBR are minimum capacities and any rating/capacities required over and above the indicated capacity shall be provided by the contractor at his own expense.

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Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

Pipe Material-

	Water Supply Line
External pipeline & Tank filling	G.(Pipes Heavy Class
Internal piping- exposed on wall	CPVC (Chlorinate of polyvingle chloride) SCH - 40 pipe and fitting such as tees, elbows, reducers. Male/female connector, clamps etc. Jointing with CPVC solvent cement as per manufacture recommendation confirming to ASTM-F-493
Internal Piping – concealed work	CPVC (Chlorinated Polyvinyle Chloride) pipe as per CTS SDR-11 & fittings such as tees, elbows, reducers, male/female connector, damps etc. as per ASTMD-2846, jointing with CPVC solvent cement as per manufacturer recommendations conforming to ASTM-F493
Soil & Waste Pip	es and Rain water Pipes
Soil & Waste Pipes waste connection	GI medium class up to 50 mm dia
Soil & Waste Pipes & Fittings	Hubless centifugally cast (spun) iron pipes epoxy coated inside & outside.
Rain water pipes & Fittings	Unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC (SWR) rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382
External Sewerage	Stone Ware Pipe as per tS:651
External Drainage	RCC NP-2
Road crossing	RCC NP s

0 0	IMPORTANT INDIAN STANDARDS PLUMBING & SANITARY WORK
	TITLE
IS 651-1965	Specification for salt Glazed stoneware pipes and fittings (First revision).
IS 782-1978	Specification for caulking lead.
IS 1172-1971	Code of basic requirements for water supply, drainage and sanitation (revised).
IS 1239-1968 (Part-l)	Specifications for mild steel tube, tubular and other steel pipe fittings.
IS 1239-1968 (Part-III)	Specifications for mild steel tube, tubular and other steel pipe fittings.
IS 1537-1976	Specification for vertically cast iron pressure pipes for water, gas and sewage.
IS 1536-1976	Specification for centrifugally Cast (Spun) Iron pressure pipes for water, gas and sewage
IS 1538 (Part 1 to 23)	Specification for Cast Iron fittings for pressure pipes for water, gas and sewage.
15 1626-1960	AC building pipes, gutters and fittings (Spigot and socket type)
IS 1726-1960	Code for cast iron manhole frame and cover.
iS 1729-1979	Specification for Sand cast iron Spigor and Ventilating pipes, fittings and accessories.
IS 1742-1960	Code of practice for building drainage.
IS 2064-1962	Code of practice for selection, installation and maintenance of sanitary appliances.
IS 2065-1963	Code of practice for water supply to buildings.
IS 3114-1965	Code of practice for laying of C.l. Pipes.
IS 3589-1961	Specification for electrically welded steel pipes for water, gas and sewage.
IS 3989-1970	Centrifugally cast spun iron and socket soil and ventilating pipe, littings and accessories
IS 4111-1967	Code of practice for Ancillary structure in sewerage system.
IS 4127-1967	Code of Practice for laying glazed stone ware pipe.
IS 4515	Specification for un-plasticized PVC pipe fittings.
IS 4985-1981	Specification for un-plasticized PVC pipes for portable water supplies.

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

let Sest Cover	
Ivanizing G.I. Pipes	
st iron sluice valves	
I way valves	
ass femule	
C.C. pipes	
	Iter Sest Cover Iteratizing G.I. Pipes Ist Iron sluice valves Il way valves Iteratie C.C. pipes

National building code for water supply, drainage and sanitation.

The installation shall also be in conformity with the bye-laws and requirements of the local authority are so far as these become applicable to the installation. Where-ever this specification calls for a higher standard of materials and/or workmanship then those required by any of the above regulations and standards, hen this specification shall take precedence over the said regulations and standards. Wherever drawings and specifications require something that may violate the regulations, the regulation shall govern.

DESIGN BASIS REPORT ELECTRICAL WORKS

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Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

1.0 GENERAL

Electricity - Most Important Utility in any development. Nothing works without it. Be it the lighting, Lifts, Air- Conditioning, kitchen etc.

Design Requirements -

- Sufficient lighting in the Common Areas like Lobbies, passages, wash rooms, stair cases, lift lobbies, entertainment areas etc.
- Attractive Façade Lighting.
- iii) Power supply to various consumers and services.

1.1 Design Philosophy

Power distribution system to be designed keeping in view the following:

- Continuity and reliability of power supply.
- iii) Flexibility of operation.
- iii) Concentration/distribution of loads.
- iv) Safety of personnel and equipment.
- Investment and operational costs.
- Compliance with various statutory provisions such as Indian Electricity Act and Rules, National Electrical Code and the relevant B.I.S. Specifications and State Electricity Authority' nome.
- vii) Easy future extensions/modifications.
- viii) Ease of maintenance.
- Maximum interchangeability of equipment resulting in minimum inventories and spare parts.
- x) Minimum fire risk.
- xi) Simplicity of operation.

2.0 ENERGY CONSERVATION

To economize on the use of energy, following main systems are proposed to be adopted

- Adequate design to limit the losses in transmission and distribution system.
- Use of energy efficient devices like light sources such as LED lamps.
- Use of insulation on roof top to reduce air-conditioning load.
- Use of capacitors at load centers to improve voltage and power factor to reduce distributional losses and also to avoid panalty by state electricity authority.
- All high efficiency motors will be used in the building.

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design.

Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

- Variable Frequency Drives are proposed to be installed for hydro-pneumatic system for water supply and necessary chilled water system.
- Part Solar External Lighting will be used. Total 20% solar lighting pole out of total 100% street light shall be solar back up with LED lamp fixtures having battery backup with solar panel.

11KV SUBSTATION EQUIPMENT IC TRANSFORMER & HT PANEL

Based on the preliminary electrical load calculation, maximum electrical power demand for the Complex estimated load 1030 KW. The building wise load calculation is detailed below:-

Based on the prevailing Electricity rules, the power supply to meet this requirement, from the local electric supply board shall be made available at 11 KV. To transform this supply to the useable voltage, step-down system is recommended, inside the building in the basement for which space has been allocated.

TOTAL ELECTRICAL LOAD

Total electrical load on the basis of general norms works out to be as under:

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
	ZONE-1							
1	C.O.'S OFFICE BUILDING	G+1	1083.00					
а	Light Load @ 7.5 W/sqmtr.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1083.00	7.50	8	1.0	8	8
b	Power Load @ 22.5W/sqmtr.		1083.00	22.50	24	1.0	24	12
С	ELV/ Server Load		3		5	1.0	5	5
d	terrace fir pump in case of fire				5.5	0.0	0	0
	Total Load in KW						37	25
2	RATION STORE & CLOTHING STORE	G	300.00					
а	Light Load @ 7.5 W/sqmtr.		300.00	7.50	2	1.0	2	1.1
b	Power Load @ 17.5W/sqmtr.		300.00	17.50	5	1.0	5	
C	ELV/ Server Load				1	1.0	1	1
d	terrace fir pump in case of fire		fi i		5.5	0.0	0	0
	Total Load in KW						9	2
3	MAGAZINE/KOTE BUILDING with EXPLOSIVE DEPOT	B+G	350.00					
а	Light Load @ 7.5 W/sqmtr.		350.00	7.50	3	1.0	3	1.3
b	Power Load @ 22.5W/sqmtr.		350.00	22.50	8	1.0	8	
С	ELV/ Server Load		Ť.		2	1.0	2	2
	Total Load in KW						13	3
4	CONTROL ROOM	G	50.00					
а	Light Load @ 7.5 W/sqmtr.	-2112	50.00	7.50	0.4	1.0	0.4	0.4
b	Power Load @ 17.5W/sqmtr.		50.00	17.50	1	1.0	1	1
С	ELV/ Server Load				2	1.0	2	2

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S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
	Total Load in KW						3	3
5	GUARD SHED	G	74.00					
а	Light Load @ 7.5 W/sqmtr.		74.00	7.50	1	1.0	0.6	0.6
b	Power Load @ 17.5W/sqmtr.	7	74.00	17.50	1	1.0	1	
	Total Load in KW	- i				10040	2	1
6	GARRAGE	G	40.00		-			
а	Light Load @ 7.5 W/sqmtr.		40.00	7.50	0.3	1.0	0.3	0.3
b	Power Load @ 17.5W/sqmtr.		40.00	17.50	1	1.0	1	
	Total Load in KW			8			1	0
7	C.O'S RESIDENTIAL BUILDING	G+1	250.00	772742712				
а	Light Load @ 7.5 W/sqmtr.		250.00	7.50	2	1.0	2	0.2
b	Power Load @ 22.5W/sqmtr.		250.00	22.50	6	1.0	6	7.7
С	ELV/ Server Load		Ĩ		2	1.0	2	2
	Total Load in KW						10	2
8	Deputy Commandant	G+1	720.00					
a	Light Load @ 7.5 W/sqmtr.		720.00	7.50	5	1.0	5	0.5
b	Power Load @ 22.5W/sqmtr.		720.00	22.50	16	1.0	16	
С	ELV/ Server Load				2	1.0	2	2
	Total Load in KW	-			1		24	3
9	Assistant Commandant	G+1	1200.00					
а	Light Load @ 7.5 W/sqmtr.		1200.00	7.50	9	1.0	9	0.9
b	Power Load @ 22.5W/sqmtr.		1200.00	22.50	27	1.0	27	

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S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
C	ELV/ Server Load				2	1.0	2	2
	Total Load in KW						38	3
10	GO'S MESS / GUEST HOUSE	G+1	650.00					
а	Light Load @ 7.5 W/sqmtr.		650.00	7.50	5	1.0	5	0.5
b	Power Load @ 17.5W/sqmtr.		650.00	17.50	11	1.0	11	
C	Equipment Load-LS			(elonoda)	(09)	(5105)	5	5
d	ELV/ Server Load		8		2	1.0	2	2
е	terrace fir pump in case of fire				5.5	0.0	0	0
	Total Load in KW					13300	23	7
11	SENTRY POST	G	4.00					
а	Light Load @ 7.5 W/sqmtr.		4.00	7.50	0.03	1.0	0.03	0.03
b	Power Load @ 17.5W/sqmtr.		4.00	17.50	0.07	1.0	0.07	
- 6	Total Load in KW				1		0.1	0.03
12	Miscellaneous Load							
а	Plumbing Load				20	0.60	12	12
b	Fire Fighting Load		3		90	Only jockey	10.0	10.0
C	External Lighting		3		10	0.50	5	5
	Total Load in KW						27	27
- 4	Grand Total Load in KW		9		(186KW	77KW
	Max. Demand Load in KW @ adopting overall 70% Diversity						130KW	54KW
- 8	Transformer Selected @ p.f. 0.95 & load	0.0		8		171KVA		
	T/R selection						1x200 KVA	LIES WIND
	DG Selected @ p.f. 0.8 & loading 80%		ĵ.					84KVA
	DG selection		9					1x100KVA

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
	ZONE-2		T			11. 10.		
1	M.T. GARRAGE WITH OFFICE (20 VEHICLE)	G	870.00			10233		
а	Light Load @ 7.5 W/sqmtr.		870.00	7.50	7	1.0	7	7
b	Power Load @ 17.5W/sqmtr.		870.00	17.50	15	1.0	15	
С	ELV/ Server Load				2	1.0	2	2
d	terrace fir pump in case of fire				5.5	0.0	0	0
	Total Load in KW						24	9
2	FIRE STATION WITH BARRACK	G+1	350.00					
а	Light Load @ 7.5 W/sqmtr.		350.00	7.50	2.6	1.0	2.6	2.6
b	Power Load @ 17.5W/sqmtr.		350.00	17.50	6	1.0	6	3
С	ELV/ Server Load				2	1.0	2	2
d	terrace fir pump in case of fire				5.5	0.0	0	0
	Total Load in KW						11	8
3	INSPECTOR'S, SUB-INSPECTOR'S RESIDENCE-6 BLOCKS	G+1	5850.00					
а	Light Load @ 7.5 W/sqmtr.		5850.00	7.50	44	1.0	44	4.39
b	Power Load @ 22.5W/sqmtr.		5850.00	22.50	132	1.0	132	
C	ELV/ Server Load		1		2	1.0	2	2
	Total Load in KW						178	6
4	HAVALDAR /CONSTABLE RESIDENCE-11 BLOCKS	G+1	8184.00					

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
а	Light Load @ 7.5 W/sqmtr.		8184.00	7.50	61	1.0	61	6.14
b	Power Load @ 22.5W/sqmtr.		8184.00	22.50	184	1.0	184	
C	ELV/ Server Load				5	1.0	5	5
-	Total Load in KW					2000	251	11
5	Miscellaneous Load				-			
а	Plumbing Load				10	0.60	6	6
c	External Lighting		/		15	0.50	8	8
	Total Load in KW						14	14
	Grand Total Load in KW						476KW	47KW
	Max. Demand Load in KW @ adopting overall 70% Diversity						333KW	33KW
- 5	Transformer Selected @ p.f. 0.95 & loading 80%						438KVA	
	T/R selection						R PHASE-1 + PHASE-2	
	DG Selected @ p.f. 0.8 & loading 80%							52KVA
	DG selection						1x20KVA FOI 1X35KVA	

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
	ZONE-3							
1	HOSPITAL (10 BED)	G	330.00					
а	Light Load @ 7.5 W/sqmtr.		330.00	7.50	2	1.00	2	2
b	Power Load @ 40W/sqmtr.		330.00	30.00	10	1.00	10	10
С	HVAC Load				15	1.00	15	8
d	Medical Equipment Load-LS						50	50
е	ELV/ server Load				5	1.00	5	5
	Total Load in KW						82	75
2	HAVALDAR / CONSTABLE RESIDENCE-5 BLOCKS	G+1	3534.00					
а	Light Load @ 7.5 W/sqmtr.		3534.00	7.50	27	1.00	27	2.65
b	Power Load @ 22.5W/sqmtr.		3534.00	22.50	80	1.00	80	0.000
С	ELV/ Server Load				5	1.00	5	5
	Total Load in KW						111	8
3	FOLLOWERS RESIDENCE	G+1	640.00		- 2			
а	Light Load @ 7.5 W/sqmtr.		640.00	7.50	5	1.00	5	0.48
b	Power Load @ 22.5W/sqmtr.		640.00	22.50	14	1.00	14	***************************************
C	ELV/ Server Load				2	1.00	2	2
	Total Load in KW						21	2
4	PRIMARY SCHOOL	G	560.00					
а	Light Load @ 7.5 W/sqmtr.		560.00	7.50	4	1.00	4	4
b	Power Load @ 17.5W/sqmtr.		560.00	17.50	10	1.00	10	

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
С	ELV/ Server Load				2	1.00	2	2
d	terrace fir pump in case of fire				5.5	0.00	0	0
	Total Load in KW						16	6
5	CLASSROOM BLOCK with COMPUTER LAB	G+1	700.00					
а	Light Load @ 7.5 W/sqmtr.		700.00	7.50	5	1.00	5	5
b	Power Load @ 17.5W/sqmtr.		700.00	17.50	12	1.00	12	
С	ELV/ Server Load				2	1.00	2	2
d	terrace fir pump in case of fire				5.5	0.00	0	0
***	Total Load in KW						20	7
6	Miscellaneous Load							
а	Plumbing Load				10	0.60	6	6
C	External Lighting				15	0.50	8	8
	Total Load in KW						14	14
	Grand Total Load in KW						264KW	112KW
	Max. Demand Load in KW @ adop Diversity				185KW	78KW		
	Transformer Selected @ p.f. 0.95 8	loading 80°	%		- 5		243KVA	
	T/R selection						1x250 KVA	
	DG Selected @ p.f. 0.8 & loading l	30%						122KVA
	DG selection							1x125 KVA

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
	ZONE-4					00 7/10		
1	HAVALDAR / CONSTABLE RESIDENCE-8 BLOCKS	G+1	5952.00					
a	Light Load @ 7.5 W/sqmtr,		5952.00	7.50	45	1.00	45	4.46
b	Power Load @ 17.5W/sqmtr.		5952.00	17.50	104	1.00	104	
С	ELV/ Server Load				2	1.00	2	2
	Total Load in KW						151	6
2	GATE COMPLEX WITH 10 MEN BARRACK	G	175.00					
а	Light Load @ 7.5 W/sqmtr.		175.00	7.50	1	1.00	. a.	0.13
b	Power Load @ 17.5W/sqmtr.		175.00	17.50	3	1.00	3	
С	ELV/ Server Load				t	1.00	1	1
d	terrace fir pump in case of fire				5.5	0.00	0	0
	Total Load in KW						5	্য
3	Miscellaneous Load							
a	Plumbing Load				10	0.60	6	6
С	External Lighting				10	0.50	5	5
	Total Load in KW						11	11
	Grand Total Load in KW 3						167KW	19KW

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
	Max. Demand Load in KW @ adopting overall 70% Diversity						117KW	13KW
	Transformer Selected @ p.f. 0.95 & loading 80%						154KVA	
	T/R selection						1x160 KVA	
	DG Selected @ p.f. 0.8 & loading 80%							20KVA
	DG selection							1x20 KVA

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Wett/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
	ZONE-5							
1	BARRACK (Havaldar, Const., Followers)	G+1	8064.00					
a	Light Load @ 7.5 W/sqmtr.		8064.00	7.50	60	1.00	60	6.05
b	Power Load @ 17.5W/sqmtr.		8064.00	17.50	141	1.00	141	
С	ELV/ Server Load				2	1.00	2	2
d	terrace fir pump in case of fire				44.0	0.00	0	0
	Total Load in KW						204	8
2	Accommodation for SO'S(Insp., SI) 2 BLOCKS	G+1	1200.00					
а	Light Load @ 7.5 W/sqmtr.		1200.00	7.50	9	1.00	9	0.90
b	Power Load @ 17.5W/sqmtr.		1200.00	17.50	21	1.00	21	4.1
С	ELV/ Server Load				2	1.00	2	2
	Total Load in KW						32	3
3	SO'S MESS	G+1	870.00					
a	Light Load @ 7.5 W/sqmtr.		870.00	7.50	7	1.00	7	0.7
b	Power Load @ 17.5W/sqmtr.		121.50	17.50	2	1.00	2	
С	Equipment Load-LS						5	5
d	ELV/ Server Load				2	1.00	2	2
е	terrace fir pump in case of fire				9.3	0.00	0	0
	Total Load in KW						16	8
4	DRILL SHED with Stage	G	400.00					
а	Light Load @ 7.5 W/sqmtr.		400.00	7.50	3	1.00	3	0.3

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
b	Power Load @ 17.5W/sqmtr.		400.00	17.50	7	1.00	7	
-	Total Load in KW						0	0
5	COMMUNITY CENTRE with CANTEEN, SALOON, LAUNDARY BLOCK	G	600.00	2000-200				
a	Light Load @ 7.5 W/sqmtr.		600.00	7.50	5	1.00	5	5
b	Power Load @ 22.5W/sqmtr.		600.00	22.50	14	1.00	14	
C	ELV/ Server Load				1	1.00	1	1
d	terrace fir pump in case of fire				9.3	0.00	0	0
-	Total Load in KW						19	6
6	FAMILY WELFARE CENTRE	G	500.00	2		7,1100		
а	Light Load @ 7.5 W/sqmtr.		500.00	7.50	4	1.00	4	0.38
b	Power Load @ 17.5W/sqmtr.		500.00	17.50	9	1.00	9	0
C	ELV/ Server Load			-	1	1.00	1	1
d	terrace fir pump in case of fire	d .	Š.		9.3	0.00	0	0
	Total Load in KW						14	1
7	RECREATION HALL	G	400.00	8				
а	Light Load @ 7.5 W/sqmtr.		400.00	7.50	3	1.00	3	0.30
b	Power Load @ 22.5W/sqmtr.		400.00	22.50	9	1.00	9	3000000
С	ELV/ Server Load				1	1.00	1	1
d	terrace fir pump in case of fire				5.5	0.00	0	0
	Total Load in KW				· Y		13	1

S. No.	Details/Description	Floors	Area in Sq. Mtr.	Wett/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
8	NAAMGHAR	G	100.00					
а	Light Load @ 7.5 W/sqmtr.		100.00	7.50	1	1.00	1	0.08
b	Power Load @ 17.5W/sqmtr.		100.00	17.50	2	1.00	2	
С	ELV/ Server Load				1	1.00	1	1
	Total Load in KW						4	1
9	ATM	G	15.00	*	2 51			
а	Light Load @ 7.5 W/sqmtr.		15.00	7.50	0.1	1.0	0.1	0.1
b	Power Load @ 17.5W/sqmtr.		15.00	17.50	0.3	1.0	0.3	0.3
С	Equipment-LS				2	1.00	2	2
	Total Load in KW						2	2
10	INDOOR SPORTS COMPLEX with GYM	G+1	800.00					
а	Light Load @ 7.5 W/sqmtr.		800.00	7.50	6	1.00	6	0.60
b	Power Load @ 17.5W/sqmtr.		800.00	17.50	14	1.00	14	
С	Equipment-LS				5	0.50	3	3
d	ELV/ Server Load				1	1.00	1	1
0	terrace fir pump in case of fire				9.3	0.00	0	0
	Total Load in KW						24	4
11	GARRAGE	G	40.00					
а	Light Load @ 7.5 W/sqmtr.		40,00	7.50	0.3	1.00	0.3	0.3
b	Power Load @ 17.5W/sqmtr.		40.00	17.50	1	1.00	1	0-200
	Total Load in KW						1	0

S. No.	Details/Description F	loors	Area in Sq. Mtr.	Watt/sq.mtr	Connected Load in KW	Individual Diversity Factor (IDF)	Max Demand Load in KW	DG set Load in kW
12	SENTRY POST	G	16.00					
а	Light Load @ 7.5 W/sqmtr.		16.00	7.50	0.12	1.00	0.12	0.12
b	Power Load @ 17.5W/sqmtr.		16.00	17.50	0.28	1.00	0.28	
d	ELV/ Server Load				2	1.00	2	2
	Total Load in KW						2	2
13	Miscellaneous Load							
а	Plumbing Load				10	0.60	6	6
С	External Lighting				15	0.50	8	8
d	STP Load				60	0.60	36	36
	Total Load in KW						50	50
	Grand Total Load in KW						379KW	86KW
	Max. Demand Load in KW @ adopting overall 70% Diversity						265KW	60KW
	Transformer Selected @ p.f. 0.95 & loadin	g 80%	<u> </u>		1		349KVA	
	T/R selection					1x250KVA FO 1X100KVA	R PHASE-1 + PHASE-2	
	DG Selected @ p.f. 0.8 & loading 80%							94KVA
	DG selection						1x20KVA FOR 1X82.5KVA PH	

The contractor shall make final calculation as per prevailing local bye –laws and NBC whichever is more stringent and get them approved from the client. The capacities indicated in DBR are minimum capacities and any rating/capacities required over and above the indicated capacity shall be provided by the contractor at his own expense.

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5.0 DISTRIBUTION SCHEME

Based on the preliminary electrical load calculation, maximum electrical power demand for is estimated load 1030 KW.

As per the state electricity regulations, 11 kV city power supply is provided through ESS of Electricity board.

5 Nos. Pole Mounted Substation shall be installed as per load sheet. Pole Mounted Substation shall be consisting of 1 No. 200KVA, 1x200KVA for phase-1 + 1X250KVA for phase-2, 1 No. 250KVA,1 No. 160KVA & 1x250KVA for phase-1 + 1X100KVA for phase-2, 11:0.433KV oil type pole mounted distribution transformer with ON load tap changer as per load sheet. Emergency backup shall be provided with DG set to cater the power backup for essential services.

11 KV 3Cx240 sq.mm XLPE cables shall be laid in Hume pipe and buried in ground below at least 1050 MM deep from ESS of Electricity board.

It is recommended to provide 11KV pole mounted transformer and outdoor type 11.kV HT tariff meter near Entry of the complex. Space allocation for pole mounted transformer & outdoor type HT metering subjete is allocated.

6.0 SELECTION OF EQUIPMENT

6.1 H.T. Panel

H.T. Panel shall be consist of HT VCB located at near HT meter, panel shall be indoor type floor mounted metal clad, 11KV VCB panel, horizontal draw out, horizontal / vertical isolation type breaker 350 MVA Internal Arc Classified up to 18.37kA/1-sec, complete as per IEC 62271-200.

HT Supply shall be tapped from the Existing/new proposed HT Line of 11kV to Two Pole Structurewith GO/DO switch terminated at HT Metering cubical.

6.2 Transformers

It recommended to installed following 11/0.433 KV, oil type pole mounted distribution transformer as per load sheet (1 No. 200KVA, 1x200KVA for phase-1 + 1X250KVA for phase-2, 1 No. 250KVA, 1 No. 160KVA & 1x250KVA for phase-1 + 1X100KVA for phase-2).

Transformer shall be provided with ON Load circuit taps in the range of + 5% to -15%. There will be ON load tap changer on the H.T. winding controlled by automatic voltage regulator to maintain constant voltage in specified range of variation and shall have losses as per ECBC compliant as per IS amended upto date. The transformers will be provided with all the necessary protection and earth.

7.0 UPS FOR EMERGENCY LIGHTING WITH 30 MINUTES BACKUP

UPS Backup will be provided for LV Equipment and 10 % lighting of basement, common area at each floor for avoiding a total blackout situation as emergency lighting, since the DG Sets generally take about 15:30 seconds to start delivering power. These UPS will

Design Basis Report (DBR)

work in redundancy modes. UPS shall be provided with minimum 30 minutes backup.

The UPS shall have electrical and mechanical characteristics and requirements for a continuous duty, highly reliable, solid state type true on -line fully microprocessor controlled double conversion PWM IGBT based Uninterruptible Power Supply Systems. The UPS shall provide high quality AC power for sensitive electronic equipment loads. It shall also supply clean power automatically without any break in the supply in the absence of raw power. Under no conditions will be protected system get direct supply from the raw mains unless there is fault in the protected system.

8.0 DG SETS - PROVISION OF ESSENTIAL SUPPLY: STAND-BY POWER

A provision will be made for back up supply for common area lighting and all essential services including lifts, pumping station, STP etc. A stand-by power plant, which can be quickly/automatically started in case of power failure is an essential requirement for important installations like this, where power failure over an extended period can result in huge losses and set-back to the services.

It is proposed that 100% DG power backup for common area services only shall be provided. Some critical loads such as emergency lighting, headed equipment of ELV systems, etc. shall be additionally backed up using UPS system, To meet the requirement the DG sets of 1 No. 100 KVA + 1 No. 20 KVA for phase-1 + 1 No. 35KVA for phase-2, 1 No. 125 KVA, 1 No. 20 KVA, 1 No. 20 KVA for phase-1 + 1 No. 82.5KVA for phase-2 capacities have been proposed as per load sheet.

Below 1010 KVA DG sets. The Diesel Engine shall be of multi-cylinder, 4 stroke, water cooled with Engine driven or electric motor driven Radiator, Turbo charged - after/inter cooled with charged air cooling, vacuum indicator, Lube oil system, Electronic governor, electric start of suitable BHP at 1500 RPM for above output of alternator at 50 degree C and conforming to BS 5514, BS 649, IS 10000 with Sound Attenuated Acoustic and weather proof Enclosure.

Residential silencer with LRV rock wool insulation having 100 kg per m3 density insulation shall be provided for each DG set. Independent exhaust pipes from each DG set shall be taken through a dedicated pipe in shall to the terrace level near the adjacent tower. The quality of effluent gas will be ensured as per Pollution Control Board norms. Treated effluent shall be discharged above the highest terrace level as per the CPCB norms. The DG Sets will be provided with sound attenuated canopy as per CPCB norms.

9.0 INTERNAL ELECTRICAL WORK

All control and lighting drouit cables shall be of single core copper conductor, with minimum conductor size of 1.5 mm² Or as per NBC-2016/CPWD.

All wires shall be FRLS PVC insulated with copper conductor. Heavy Duty PVC conduit will be used for wiring/ extra low voltage wiring e.g. Telephone cable, data cable, and security co-axial cable, etc. wherever concealed in concrete. In all other areas, MS conduit will be used in case of surface conduit like risers, plant rooms, car park and above false ceiling.

9.1 PROVISION OF SOCKET OUTLETS

Provision for 16A sockets outlets shall be provided for car charging points in covered parking area. In other areas provision of socket outlets shall be made as per space requirements. All 16 amp. Sockets shall be 5pin 6/16 amp. Type. All sockets shall be shuttered type. Sockets are proposed to be provided in the Common areas for cleaning and in the utility room like sub-stations, pump room etc.

Outdoor electrical supply will also be provided for various programs and events.

9.3 PROVISION IN INDIVIDUAL APARTMENTS (MULTIPOINT METERING)

Wiring will be done in the individual apartments as per drawings. Light plug point shall be provided for RC in kitchen. Electrical point shall not be provided for Geyser in kitchen. All apartments shall be provided with three phase power supply through electronic meters. Metering of power for each of shall be done through an electronic meter installed in the individual meter panel board located in shall on the respective floor.

Separate meter shall be provided for flat & Convenience shopping with three/single phase power supply through electronic meters. Netering of power for each of shall be done through an electronic meter.

Outdoor panel for external lighting electrical supply shall also be provided

9.4 CONVENTIONAL LIGHTNING PROTECTION

Lightening Protection will be provided with Conventional lightning protection system in accordance with international codes for the protection of Buildings and Allied Structures against Lightening as per latest IEC standard and 'Latest NBC' (as per up to date amendment).

10.0 INTERNAL LIGHTING

All the lift lobbies, staircasee, Toilets, Entrance lobby including besement shall be provided and finished with lighting fixtures. While Tenants/offices area shall not be provided with lighting fixtures, as it will be taken care by the individual occupants as per their requirement/ design.

The provision of luminaries in various areas of the complex to be designed to achieve the illumination levels as per relevant standards or NBC-2016. The luminaries will be selected keeping in mind Aesthetics, location requirement, and ease of maintenance and energy conservation.

S. No.	Description of Space	Type of Lighting	Illumination (Lux Level)
10	Corridors and circulation spaces	LED lights	150-200
10	Staircases	LED lights	100
iii)	Service Areas	LED lights	150-200
iv)	Office/Shops Areas	LED	300-500 (As per interior of tenant)

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11.0 FIRE ALARM AND DETECTION SYSTEM

The fire alarm and detection system will be designed as per the recommendations of the National Building Code of India-Part IV, 2016.

Considering that the purpose of the building, as well as the height of the structure, it will be necessary to provide a manually operated or addressable type electric fire alarm system based on the requirements of the National Building Code 2016.

The main emphasis of fire detection system shall be on having the timely warning in case of any fire. Response Indicators, Manual call stations, Local Panels and Main Fire Control panel shall be provided at appropriate places.

The fire detection system shall include the following:-

- Multi/Smoke Detectors Photo electrical type detectors with heat rate of rise cum fixed temperature type will be installed where it is required as per NBC-2016.
- Response Indicators Response indicators will be used outside all service rooms of basements with full height partitions and for the detectors in the false ceiling, if any.
- Manual call boxes of brake glass type are proposed to be installed near all staircases and also in the electrical and mechanical services areas.
- d) Main Control Panels –Fire alarm control panel is proposed to be installed in the fire control room. Repeater panels will be provided in the security office and security post outside the building. With this type of a panel it will be possible to pin point the exact location of fire. The panel will also be able to dial out to predetermined telephone numbers in case of any alarm.
- e) Public Address and talk back system An integral public address and talk back facility will be provided with the tire alarm system. The loudspeakers of the public address system will be located in common areas, and on each floor in such a way that any message announced cover the loudspeakers is clearly audible in all parts of the building. Also in case of fire, the firefighting personnel will be able to send back messages by plugging their fireman's telephone handsets over the fireman's telephone jacks which will be provided in this system. The microphone, amplifiers and control switches for the public address system will be installed in the fire control room for the building.

12.0 CLOSED CIRCUIT TELEVISION SYSTEM

The Closed Circuit Television System is intended for comprehensive round the clock surveillance of the common area, parking area and service area of the Complex from security control room. The following category of areas shall be monitored by the system in the priority as given below:

- Service areas like pump room, STP room, ESS room with fixed colored normal cameras.
- Outdoor type fixed colored Cameras will be provided of the perimeter for External Surveillance (For Campus).

13.0 L.T. PANEL AND POWER DISTRIBUTION PANELS

The panel shall be completely modular and compartmentalized with Form 4B Separation as per IEC 61439. The panel shall be free standing floor mounted type. The panel shall be manufactured as per IEC 61439.

Automatic Power Factor Correction Panel will also be installed here. The L.T. Panel will have air circuit breakers for controlling the feeders of more than 630 Amp rating whereas feeders of 630 Amp and below will have MCCBs to control them. LT panel shall supply power to sub distribution boards (SDBs) and floor distribution boards (FDBs) located on the area basis.

Automatic Power factor equipment (Capacitor Panel) shall be installed to enhance the power factor to the value of 0.95 in addition detuned filter shall be integrated with capacitor panel in order to suppress the harmonics.

Main Distribution Board shall be indoor type of metal diad construction, partly draw out type having self-aligning type auxiliary contacts for circuit breakers and draw out modules:

4 pole Bus bars and air circuit breakers shall have short circuit withstand capacity of 50 KA for 1 second duration.

Air circuit breakers of incoming transformer, DG and bus coupler shall be of electrically operated type with the necessary protections.

For all incomers and the main outgoing feeders like AC Equipment, light, power, water supply and treatment etc., a data logger having digital display, scanning facility of Electrical parameters, data storing with battery backup and data retrievable by PC shall be provided.

The main distribution board shall have double source of power supply, one from transformer and other from D.G.

DOL starters will be provided for motors rated up to 7.5 KW and Star Delta starters for all motors rated above 7.5 KW will be provided.

14.0 DISTRIBUTION SYSTEM

LT Power from Transformer shell be brought to Main LT panel with XLPE/PVC insulated Aluminium cables/bus ducts. Similarly, LT Power from DG Set located at ground floor shall feed power to the Main LT Panel. Both panels shall be fed by aluminium cables/ bus ducts of appropriate size.

14.1 CABLES, CABLE TRAYS AND CONDUITS

- 1.1KV grade multicore aluminium conductor XLPE insulated and PVC sheathed armoured cable as per IS: 7098;1988 with upto date amendments shall be used.
- 11 KV cables shall be AL conductor, suitable for earthed systemAlum, (E), Armoured XLPE HT power cable as per IS7098 (part-2)-1985 amended upto date.

All control cables shall be of copper conductor and all power cables shall be of copper conductor upto 16 mm2 and Aluminum conductor above 25 mm2.

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All control and lighting circuit cables shall be of single core copper conductor, with minimum conductor size of 1.5 mm².

All cables proposed shall be of copper/aluminum conductor, FRLS, XLPE type.

The Cables shall be selected in such a way the System voltage drop shall not be more than 3% from the output of the transformer to the final distribution board.

All wires shall be PVC insulated FRLS with copper conductor. All conduits for light/power will be Heavy Duty PVC. All conduits for Fire alarm/detection and all conduits for light/power will be Mild Stoel wherever they are susceptible to mechanical damage (basements etc.).

Heavy Duty PVC conduit will be used for wiring extra low voltage wiring e.g. Telephone cable, data cable, and security co-axial cable, etc. wherever concealed in concrete. In all other areas, MS conduit will be used in case of surface conduit like talse ceiling etc...

Cable Trays shall be of G.I. ledder type construction for power cables and G.I. perforated type for control and instrumentation cables (if these cables are flexible). Widths shall be as required. Thickness of material shall be 2.0 mm. Cable glands shall be made of Nickel plated brass and shall be double compression type, complete with double seal cone grip arrangement, check nut, PVC hood etc. Washers shall be minimum 1.5 mm thick. However, for indoor termination, single compression type glands shall be used.

Short circuits withstand capacities of various cables shall be as under:

	Description	S/C Current Value & Its duration
i)	11 KV incoming cables	18.37 KA for 1 second
	11 KV outgoing cables to auxiliary transformers	18.37 KA for 1 second
ii)	415 V cable between PCC outgoing VCB/ACB and incomer to MCC / Power Distribution Boards	50 KA for 1 second
iii)	415 V cable between MCC and motors	Let through energy of power fuse protecting motors.

Following voltage drop restrictions shall be applied on the cable design:

0	Between 11 KV switchgear & transformers	1.5% of 11 KV	
iii	Between 415 V switchgear terminals (PCC to PDB, MCC)	2% of rated voltage	
H)	Between 415 V switchgear and Motor Terminals		
a)	Under full load running	3% of rated voltage	
b)	Under starting	15% of rated voltage	
M)	Lighting main circuits (upto SLDB)	2% of rated voltage	
VI.	Lighting sub circuits	2% of rated voltage	

14.2 EARTHING SYSTEMS

Earthing system including earthing strips/cables and earth pits will be provided.

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It is proposed to provide electrolytic, chemical earthing system. This type of earthing system has:

- 1. Low electrical resistance to earth.
- 2. Good Corrosion resistance.
- 3. Ability to carry high currants repeatedly.
- 4. Reliable long life system.
- Low Maintenance.

Proper Grounding will be provided for

- · Normal AC supply
- · All apparatus and metal pieces
- Steel Structures
- · Mechanical plant and pipe work
- · Gas and water pipe work

Separate systems of earthing shall be provided in the building for:

- UPS
- Litts
- Telephone
- Servers and computer equipment

Main earth electrode will be suitable to achieve a maximum resistance to earth of 1 Ohm.

Design Basis Report (DBR)

LIST OF APPLICABLE INDIAN STANDARDS FOR ELECTRIFICATION WORK

S. No.	STANDARDS	TITLE
1)	IS:732 - 1989	Code of practice for electrical wiringInstallations.
2)	IS:4648 - 1968	Guide for electrical layout in residential Buildings
3)	IS:8061 - 1976	Code of practice for design, installation and Maintenance of service lines upto and including 650V
4)	IS:8884 - 1978	Code of practice for installation of electric bells and call system.
5)	IS-5578 - 1985	Guide for marking of insulated conductor.
6)	IS:11353-1985	Guide for uniform system of marking and identification of conductors and apparatus terminals.
7)	IS:5728 - 1970	Guide for short-circuit calculations.
8)	IS:7752 (Part-1) - 1975	Guide for improvement of power factor in consumer installation: Low and medium supply voltages.
9)	IS:3646 (Part-1) - 1966	Code of practice for interior Illumination: Principles for good lighting and aspects of design.
10)	IS:3646 (Part-2) - 1960	Code of practice for interior illumination: Schedule of illumination and glare index.
11)	IS 2672 - 1966	Code of practice for library lighting.
12)	IS:10118 (Part-1) -1982	Code of practice for selection, installation and maintenance of switchgear and control gear: General.
13)	IS:10118 (Part-2) -1982	Code of practice for selection, installation and maintenance of switchgear and control gear.
14)	IS:10118 (Part-3) -1982	Code of practice for selection, installation and maintenance of switchgear and control gear; Installation.
15)	IS:10118 (Part-4) -1982	Code of practice for selection, installation and maintenance of switchgear and control gear; Maintenance.
16)	IS:2309 - 1989	Code of practice for the protection and allied structures against lightning.
17)	IS:3043 - 1987	Code of practice for earthing.
18)	IS:5216 (Part-1) - 1982	Guide for safety procedures and practices in electrical work: General.
19)	IS:4237 - 1983	General requirements for switchgear and control gear for voltages not exceeding 1000 V AC or 1200 V DC.
20)	IS:6875 (Part-1) - 1973	Control switches (switching devices for control and auxiliary circuits including contractor relays) for voltages upto and including 1000 V AC and 1200 DC: General requirements and tests.
21)	IS:4084 (Part-1) - 1978	Air break switches, air break dis-connectors, air-break switch dis- connectors and fuse-combination units for voltages not exceeding 1000 V AC or 1200 DC: General requirements.
22)	IS:8828 - 1978	Miniature air break circuit breakers for voltages not exceeding 1000 volt.

Design Basis Report (DBR)

S. No.	STANDARDS	TITLE
23)	IS:13032 - 1991	Miniature circuit breaker boards for voltages upto and including 1000 volts AC.
24) IS:12640 - 1988		Residual current operated circuit breakers.
25)	IS:2959 - 1985	Contactors for voltages not exceeding 1000V AC or 1200 V DC.
26)	IS: 8623 (Part-1) - 1977	Factory built assemblies of switchgear and control gear for voltages upto and including 1000 V AC and 1200 V DC: General requirements.
27)	IS: 8623 (Part-2) - 1980	Factory assemblies of switchgear and control gear for voltages upto and including 1000 V AC and 1200 V DC: Particular requirements for bus ber trunking system (busways).
28)	IS:694 - 1990	PVC Insulated cables for working voltages up to and including 1100 V.
29)	IS:1554 (Part-1) - 1968	PVC insulated (heavy duty) electric cables :For working voltages upto and including 1100 V.
30}	IS:3961 (Part-5) - 1968	Recommended current ratings for cables: PVC insulated light duty cables.
31)	(S:9537 (Part-1) - 1960	Conduits for electrical installations: General requirements.
32)	IS:9537 (Part-2) - 1981	Conduits for electrical installations Rigid steel Conduits.
33)	IS:3480 - 1966	Flexible steel conduits for electrical wiring.
34)	IS 2667 - 1988	Fittings for rigid steel conduits for electrical wiring.
35)	IS:3837 - 1976	Accessories for rigid steel conduits for electrical wiring.
36)	IS:5133 (Part-1) - 1969	Boxes for enclosure of electrical accessories Steel and cast iron boxes.
37)	IS:371 - 1979	Celling roses
38)	IS:3854 - 1988	Switches for domestic and similar purposes.
39)	IS:4615 - 1968	Switch socket outlets (non-interlocking type).
40)	IS:4160 - 1967	Interlocking switch socket outlet.
41)	IS:1293 - 1988	Plugs and socket outlets of rated voltage upto and including 250 volts and rated current upto and including 16 amperes.
42)	GRIHA Manual, EO	BC Guidelines and BEE guidelines.

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

1)	IS 2189 - 1962	Code of Practice for Automatic Fire Alarm System.
2)	IS 2195 - 1962	Specifications for Heat sensitive Fire Detectors.
3)	IS:732 -1973	Code of practice for Electrical Wiring installation
4)	UL 168	Under writers laboratory specifications for smoke detectors

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Design Basis Report (DBR)

DESIGN BASIS REPORT MECHNICAL VENTILATION SYSTEM

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

1.0 INTRODUCTION:-

The section outlines Mechanical ventilation system design parameters, system selections and extent of provisions for the project.

Ventilation of Services rooms, toilets, kitchen, pantry etc. shall be designed as per relevant standard National Building Code (NBC-2016).

All Ventilations systems shall be in conformity with the NBC-2016, CPWD-2017 & ECBC-2017.

The HVAC design shall also fulfill the requirements and recommendations of ASHRAE/ISHRAE/ NBC & ECBC standards

2.0 APPLICABLE CODES AND GUIDES:

- American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) Standards.
- Indian Society of Heating, Refrigeration and Air Conditioning Engineers, Inc. (ISHRAE).
- National Building Code of India 2016.
- ECBC 2017 Energy conservation building code.
- ARI Air-conditioning and Refrigerantinstitute.
- IS Relevant ISCodes.
- Associated Air Balancing Bureau (NEBB) Standards.
- National Fire Protection Association (NFPA)
- Underwriters Laboratories, Inc. (UL)
- SMACNA -Fire and Smoke Damper Installation Guide
- Relevant Bureau of Indian Standards (BIS) Codes
- AMCA-Air Movement and Control Association International, Inc.

MECHANICAL VENTILATION & PRESSURIZATION SYSTEM

INTRODUCTION

The Vernilation, smoke exhaust & pressurization system to be provided as per NBC-2016 and as required by the Fire authority.

2. VENTILATION RATES

Mechanical vertilation, smoke exhaust and pressurization system has to be provided for building as per NBC 2016 and as required by the Fire Authority.

Design Basis Report (DBR)

The complete design will be as per NBC-2016.

S. No.	Area / Space	Air Changes Per Hour
1	Pump Room (UGT/WTP)	20APCH
2	STP & Garbage Room	30APCH
3	ESS Room (LT,HT Panel & Transformer Rooms)	20APCH
4	DG Room	CFM based on DG capacity 8 manufacturer recommendation
5	Garages	8ACPH
6	Toilets	12 ACPH/50 CPM each WC or urinal (whichever is higher will be considered)

3. SYSTEM DESCRIPTION

3.1 SERVICES ROOM VENTILATION

Sub stations, DG Sets room, LT panel room, STP room & pump room(UGT/WTP), Garages shall be provided with mechanical ventilation system.

The system shall consist of axial fans/ propeller fan (based on requirement), ductwork with air terminal (required in case of axial fans).

The axial flow exhaust fans shall have motors with Class H insulation and the fan motor should be rated for 250°C for 2 hours & should be in compliance with the BSEN12101-32015'. All fans shall be AMCA certified.

3.2 UPPER FLOOR VENTILATION

Smoke exhaust system as per NBC-2016, Part-4, dause-4.

4. PRESSURIZATION

Pressurization is a method adopted for protecting the exits from ingress of smoke. Air shall be injected into staircases, lobbles, corridors to raise their pressure slightly above the pressure in adjoining parts of the building, because of which ingress of smoke into escape routes will be prevented. It shall be as per NBC 2016 (as given in Table-6) and local by laws. Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design. Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

5. TOILET VENTILATION

All toilets shall be provided with mechanical ventilation system. The system shall consist of Propeller fans (Wall mounted) / In-line fans at each levelwith ducting & grilles. Exhaust air shall be discharged through a cowl. Bird-screen shall be provided on the discharge annular ring of cowl to prevent birds nesting in Idling period.

6. KITCHEN PANTRY DINING :-

All cooking area/ pantry/ dining area shall be provided with suitable exhaust with Propeller tans (Wall mounted)/Inline fan or if required Dry scrubber and air washer complete with ductwork.

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

DESIGN BASIS REPORT SOLAR PANELS

Design Basis Report (DBR)

SOLAR STREET LIGHT POLE WITH BATTERY BACKUP & PROVISION OF ELECTRICAL WORK FOR SOLAR PHOTOVOLTAIC PANELS

Total 20% solar lighting pole out of total 100% street light shall be solar back up street light pole with LED lamp fixtures with battery back-up with solar panel .

The scope shall include detailed designing, Supplying, and fabrication/execution of electrical wiring provision work for Area lighting from solar panel at terrace for 20kw solar photo-voltaic solar panels capacity at terrace and shall be integrating the same with existing Electrical distribution system.

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Design Basis Report (DBR)

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DESIGN BASIS REPORT MISCELLANEOUS WORKS

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

1.0 MISCELLANEOUS OTHER SERVICES

1.1 PA SYSTEM APPLICABLE TO FIRE FIGHTING:

Public Address and talk back system – An integral public address and talk back facility will be provided with the fire alarm system. The foudspeakers of the public address system will be located in common areas, and on each floor in such a way that any message announced cover the loudspeakers is clearly audible in all parts of the building. Also in case of fire, the firefighting personnel will be able to send back messages by plugging their fireman's telephone handsets over the fireman's telephone jacks which will be provided in this system. The microphone, amplifiers and control switches for the public address system will be installed in the fire control room for the building.

1.2 G.I. CABLE TRAYS

GI Perforated/Ladder type cable trays joined with connectors including horizontal and vertical bends, reducers, toes, cross members, clamps, connection pieces and other accessories as required, duly suspended from the ceiling with G.I suspenders including G.I bolts & G.I nuts, shall be used.

1.3 TELEPHONE SYSTEM, CABLE TV NET WORK AND DATA CABLING

Telephone, data and Cable TV wiring connections are proposed. All the voice points will be connected through telephone cable from the MDF. All the floor tag blocks in turn shall be connected to the main tag block.

MS Conduit and terminal boxes with covers and FJ-45 outlets shall be provided. The entire network shall originate from a central server room. Hub switches shall be provided on all floors. Data points will be provided for all Computer Terminals, equipment's, etc.

All external LV work shall be done by service provided agencies.

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Design Basis Report (DBR)

DESIGN BASIS REPORT SEWAGE TREATMENT PLANT

Proposed Construction of Police Cammando Battalion at Hailakandi, Assamon Design, Engineering, Procurement & Construction (EPC)

Design Basis Report (DBR)

1.0 SEWAGE TREATMENT PLANT-MBR TECHNOLOGY

- 1.1 Capacity :-
- 1.2 Housing Side-200KLD (150+50KL). The capacity mentioned above are minimum capacity and for reference only. Final capacity shall be calculated by EPC Contractor and it should meet GRIHA, Environmental requirement.
 - Domestic sawage effluent from the units will flow through Bar Screen, Oil Skimmer and collected in equalization tank.
 - The homogenized and mixed wastewater in the equalization tank shall be pumped through line screening before entering the MBR.
 - An internally-fed screen with punched-hole openings less than or equal to 2-3 mm in diameter with no possibility of bypass or carryover is absolutely required to maintain both membrane warranty, and optimal MBR operation.
 - Provision of Anoxic Tank shall be kept for de-nitrification in the system.
 - Effluent from the Equalization tank and Return Activated Studge (RAS) being pumped from the membrane tank must be mixed and led into the bioreactor tank.
 - Biological trains shall be equally divided into single/multiple trains on hydraulic leading and shall be operated in parallel. Each train shall comprise of an aerobic tank. For Ntrogen removal, bioreactor shall additionally consist of Anoxic zone of suitable size
 - Influent wastewater and re-circulated studge shall be divided between all the biological trains as it enters each aerobic tank.
 - vii. Biological process blowers and fine bubble diffusers in the aerobic tanks shall provide the oxygen required for the biological process as well as the mixing energy required to keep the mixed liquor in suspension. Dissolved oxygen shall be monitored in each aerobic tank to achieve a desired set point of 2 mg/L.
 - ix. The mixed liquor shall overflow by gravity from the biological tanks to the membrane tanks where the solid/liquid separation takes place by means of the vacuum created by the process pumps. The permeate shall be stored in the permeate storage tank.
 - x. The mixed figuor from the end of the bioreactor aerobic zone shall proceed by gravity to the membrane filtration basins. At the cutlet of each aerobic tank and inlet of each filtration basin there shall be an isolation valve. Flow shall proceed by gravity through the valve. The sluice gate valve/isolation valve can be used to either isolate of the membrane tank (i.e. during cleans). Plant demand shall be controlled by the feed flow into the system and can be trimmed by the level in the bioreactor/membrane tank.
 - One permeate pump per membrane train shall be employed to draw water through the membranes. Treated water shall flow from the permeate pump to the final disposal point.

Design Basis Report (DBR)

- xii. Under normal operation and average day flow conditions, permeation is stopped for a specific period of time at regular intervals. This membrane relaxation period, combined with air scouring, effectively removes solids that have accumulated on the membrane surface or within the fibers and reduces electrical costs.
- Same permeate pump with valving arrangement shall be provided for backpulsing the membranes.
- xiv. From membrane tanks, Permeate pump shall draw treated effluent through the pores of the membrane fibers and into the back-pulse tank. Once full, the treated effluent is automatically diverted away from the back-pulse tank to a final disposal point. Clean water (permeate) is suctioned through hollow fiber membranes by centrifugal permeate pumps.
- xv. The membranes shall be air scoured with required capacity of membrane aeration blowers litted with Mechanical Variable speed drive or with pulley arrangement.
- xvi. Waste activated sludge (WAS), shall be removed to the sludge handling facilities via a side stream on the discharge from the membrane tank by pumping in a controlled manner.

STP plants shall be provided with deodorization system with ozone technology to achieve near complete elimination of odors from exhaust stream. Deodorization system shall be working on plant room air as feed gas to produce ozone, All machines and interconnected works shall be in stainless steel. Ozone producing machine shall be UL listed

DESIGN BASIS REPORT WATER SUPPLY PUMPS

1.0 WATER SUPPLY PUMP

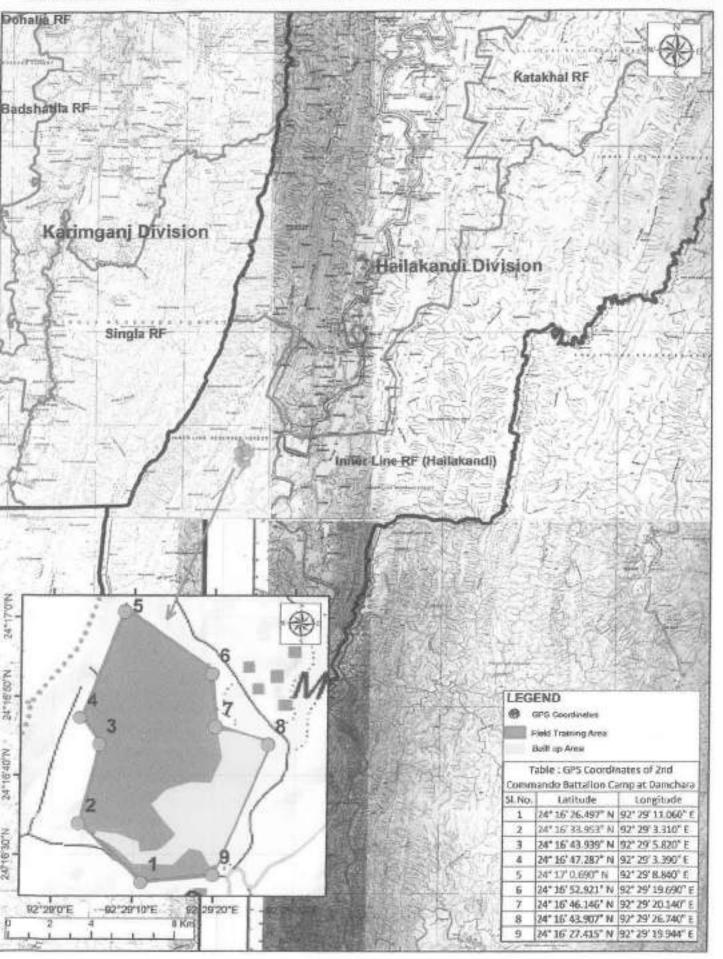
1.1 a) Hydro pneumatic systems (With Variable Frequency Drive)

a.1) Compact packaged type skid mounted, self-contained variable frequency drive hydro pneumatic system. The skid mounted, factory assembled hydro-pneumatic system shall be provided with pressure transmitters, frequency convertor for noiseless operation of the pump at varying duty point. The convertor shall be provided with short circuit safety, earthing, over current, under voltage protection. The pump shall be complete with suction and delivery pipe. The system shall comprise of multiple pumps working and one stand-by to meet the system discharge requirements. All pumps shall be factory fabricated. The pumps motor shall be having IE-3/IE-5 to meet the GRIHA requirement.

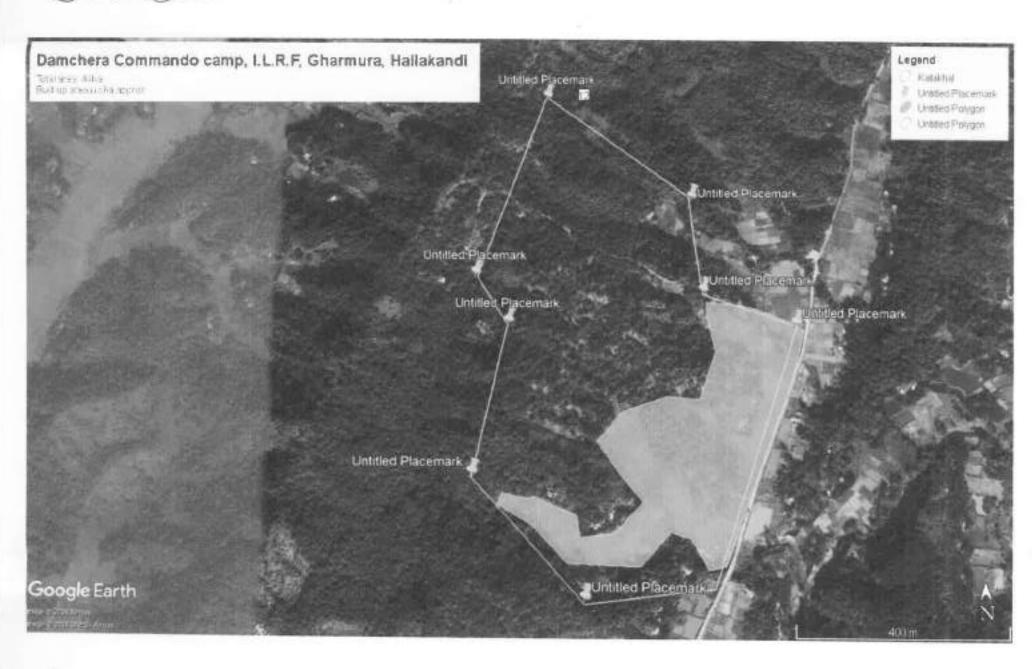
1.2 PLANT ROOM DRAINAGE SUMP PUMPS

Sump pump set shall be compact, mono-block, submersible type with class "P" insulation of suitable capacity & RPM operating on 415 volt ± 10%, 3 phase, 50Hz AC supply, with non-dog free flow open CI impellers, CI casing (Pump & Motor) and having solid handling capacity of required size for lifting domestic sewage or moddy water/drainage as specified in Indicative ITEMS. The pumps motor shall be having IE-3/IE-5 to meet the GRIHA requirement.

Sel MAP (TOPOSHEET NO. 83D7) ALONGWITH GPS COORDINATES OF 2ND COMMANDO BATTALION CAMPAT DAMCHERA IN INNERLINE RESERVE FOREST UNDER HAILAKANDI FOREST DIVISION



Ammerica-dy



Donnerune - 5

Exhibit-4

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CO TO CH

Day (2)

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Extract from - THE ASSAM GATETIE - BERT-11 . Bated 15th Merch, 1933.

> Croces by the Covernor in Counsil. The 9th Mirch, 1953.

Paga-325+

De.2100A.Ter In supersession of Government Matification No.9102A.Pe, detail the 28th August, 1930, and in exercise of the power conferred by section 2 of the Sempal Eastern Frontier Regulation, 1873(v at 1871), as unboaded to the Lushai Hills Thetriet, the Governor in Council with the tractions servetion of the Governor Concret to Council, is plaused to prescribe the line described below as the "Inner Line" of the Lushai Mills District to

From the junction of the Buenting with the Buent river, the Inner
Line shell run up the eddetream of the fermer to where it remaines the
Lunghulb Lui; thence up the midstreem of that attemp to its subrest, and
crossing the range in a sectorly direction down the right bank.

"County of small fander flowing into the Teirongack stream; thence down
the midstream of the letter to its tention with the Social

river. From this point the Inner Lines shell run south-westwards up the midrises of the Sound river as for as its junction with the Sagnateun Lui;
there up the midstream of this being the look that or Tuishan Lui to
les 'emetion with a large feeder that takes its rise mean the deserted village
of Scipum; thence up the midstream of this feeder to the securit of Soughrag
repto, and reasons that range down the additions of the Tuish Lui. In its
junction with token river. Then a straight line musting in a seath-westerly
discotion from this junction to the Dhalaibridge one furious north of the
jobs with the number of the Dhalaibridge one furious north of the
lith ash twent on the Aijai-Dourband road, this point is also the trijuncation of the Enilohends Subdivision (discrete Cachae) with the Luches Mills
Library

District; thence up the midstress of the Unalai erver to its source, where a forestick the seterahed it strikes the bendenters of the Schieburg bed and from the midstress of the Berus Chara to its junction with the Verminana Lui Con; themee up the midstress of this but to its source in the Shairahi conse. Thence exceeding the Edmindol range westereds to the season of the Electric with the Vermina themes down the midstress of the Shairahi conse. The season of the Shairahi conse the Theorem the the midstress of the Shairahi the Theorem the tree of the Shairahi the Theorem the tree of the Shairahi the Theorem the Theorem the theorem the tree of the Shairahi the Theorem the tree of the Shairahi the Theorem the tree of the Shairahi there

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to its junction with the Bokus river; thence up the midstream of the Bakus river to the second large tributary not with on its left bank; thence up the midstream of this tributary to its course; thence in a northerly direction. sloon a range to Casterchurra Peak (2071); thence due west in a straight line to the trijunction point of districts Sylhet, Lushei Hills (Assen) and Tripura State (Dengal) mituated on the Langai river about 5th of a mile mouth-wost pf the confluence of the Medli Sherra with that river (wide Notification No.33132 drive the 4th October, 1928); theres in a southerly direction up the midstream of the Langai river to its confluence with a small nameless tributory going west about 2% miles north-cast of Botling Sib Feak Track. beight 3,083, thence in a south-westerly direction to Estling Sib Poak; thence is a southerly direction to Betling Ponk beight 2,234 which is the trijunction of district Lushoi Hills (Asson), Tripure State and Chitagong Hills Tracts district (Bongal); thence in a south-consterly direction for about a mile to tributary of the Tuilianpul river, theree down the midstreem of this tributary to its confluence with the Tuilingui river theren down the midstrane of Tuilianpui river to a point about 25 miles south-east of its confluence with the Mar river, which is the junction of the hijel thence wastwards in a straight line to the source of the Harina river; thence down midstracm of the Horina river to its confluence with the Karmachuli. rivor; thence up the midstream of the Karmarhuli river to its confluence with the Tgegs Knel; thence up the midstream of the Thega Whal to its junction with two other tributories about 6% miles south-cast of height 2,096 and 5% miles north-west of Waibung Toung, height 3,083; thence in a south-mesterly circulan up the slope for about 2 miles to the Waibung Toung range; thence in a westerly, southerly and easterly direction respectively along the range to Welburg Toung Fook height 3,083; thence in a southerly direction to Keokradong, which is the trijunction of Chittagong Hill Tract (Sengal), Lusbai Hills (Assem) and Northern Atakan district (Burna); thence castwards to Hephrutong or Rengtlang; thence to source of a small straam called tho Seuthi Verenglui or Kraikchaung whose source lies due cast of the Peak, sown the midstream of the Varanglui or Wratkehaung to its junction with the Sekul (Kola) or Kalet stress (where n boundary stone has been place); thence up the eldstream of the Sakul (Kola) or Kalat stream to the mouth of the Chartlang or Zyucho stress (where a boundary stone has been placed); thence up the midetroom of the Whavelong or Lyucha to its source on the Semang or & Kwimm rang ; thence south wards along the Samung or Kwiman range;

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in the smiree of the Sanak un Kulean strum (where a beindary stone bus been placed); thence down the midstream of the Sanat or Kwiman stream to its ' junction with the Koladyne (Kaledan) river; thence strought coross the Keladyne (Keleden) river to the mouth or the Mongan or Kudman strong (where a boundary stone has been placed), (the pouths of these two streams are opposite the another); thence up the midstress of the Knanges or Muinen struck to its source in the Keisi Tieng (where a boundary stone has been placed); thence scuthwards to the source of the Reis or Shuelaik street; therea down the midstream of the Role or Showlask stream to its junction with the Sulla river; thence up the midstream of the Sulla river to its junction with the Kaikhau or Khinkon stream (where a boundary stone has been placed); thence up the midstronm of the Kaikhou or Mhinkon scream to its source on the Pathion of February Extens; thence northwards along the Pathian or Fahray Flanc to the source of the Erra street; thence down the midstreet of the Erra street to its junction with the Mi (Tishi, Julai, or Wabling) river; thence up the nicstream of this river to its junction with the Rheims streen; thence up the nicetreem of the Kheims stream to its source on the Kahrin or Kughrin (Khasie) King; thence south along the crest of the Dahrie or (Dahrie) King to the

source of the Rathu Mer: theres does the midstream of the Rephu Wer to its junction with the Solnu(Maislan) river; thence down the midstream of the Boine (Mcledon) river to the juntaion with Tyan; thence up the midstreen of the Tyne to its source on the Vike Flong; thence enstwords to the scuree of tributary of the Tuiming vivor; thence down the midstream of the Tulmeng to its junction with the Toise; thence down the midstream of the Tuits to its junction with the Tuival vivar; thence down the indistrems of the Cuiroi river to its its junction with the Vengyun Lul; thence up the minstream of the Vengyon but to its source at saddle known as Bongket where he a boundary piller sorked ML(1) has been exceted; - themeo crossing to the ugst stop of this saddle to the source of the Tuitel Stream; thence down the midstream of the Tutoi atresm to its junction with the Tuivairaver; thence down the misstream of the Tuivai river to its junction with the Barck river; thence down the gidstroum of the Birck river to its junction with the Ruanding but, which is the trijunction of the lumbhi Hills and Cachar Districts and Manigur Secte.

NOTE:-(1) The Inner Line falls in the following survey of India 1°04 miles and 1° = 1 miles publications :
North:- 632,830,830/15, D/14, D/11 and D/7,

West :- 63-D/7,83-D, 84-4, 84-8 and 84-C,

South & East:- 84-B, 84-C, 84-E, 84-F, 83-D and 83-H.

(2) The northern western southern and eastern boundaries of the Lusai bills district are co-incident with the Inner Line of the Lushei Bills District

Sd/- V.A.COSGNAVE, Chief Secretary to the Covt. of America

ANNEXURE YL

___ 59 ---

SECRET

ON 28-07-2021 AT 2-00 PM IN THE CABINET ROOM OF CHIEF MINISTER'S OFFICE AT JANATA BHAWAN, DISPUR, GUWAHATI

Informal Item No.4
Home & Political Department

No. file

As part of the State Government's decision to appoint one takk youths in Government jobs, the Cabinet decided to start the process to fill up vacant posts in Assam Police and the process will start from 1st September, 2021. The Cabinet also decided to create five new Commando buttalions of Assam Police which will open up recruitment prospects for 6270 youths.

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आस्ताची क अमृत महोत्सव

GOVERNMENT OF ASSAM HOME (A) DEPARTMENT

3rd Floor, CM's Block, Janata Bhawan, Dispur, Guwahati-6 E-mail : assam.home@assam.gov.in

No. HMA.113/2021/Pt/29

From :

Dated Dispur, the 22rd October, 2021

Shri Diganta Barah, IPS

Secretary to the Govt. of Assam,

Home & Political Department, Dispur

The Principal Accountant General Assam, Maidumgaon,

Beltola, Guwakati-29.

Sub : Sanction for raising of 1 (one) new Assam Commando Battalion i.e. 2nd

Assam Commando Battalion (Operation), Birsima, Hailakandi

alongwith creation of posts.

I am directed convey the sanction of the Governor of Assam to the raising of (one) new Assam Commando Battalion i.e. 2nd Assam Commando Battalion (Operation), Hirsima, Hailakandi alongwith creation of 800 (eight hundred) nos. of post for this newly created Assam Commando Battalion (Operation) w.e.f. the date of sanction as per the following staffing pattern:

SL No.	Rank	Gazzetted / Non- gazzetted posts	No. of Posts for each Battalion	Scale of Pay
		ores Personnel		
1.	Commandant (SP rank)	Gazetted post	1	As per
2,	Deputy Commandant (Addl. SP rank)	Gazetted post	3	RoP 2016
3.	Assit. Commandent (Dy. SP rank)	Gezetted post	7	
4.	Inspector	Non-gazetted post	16	-
5.	Sub-Inspector	Non-gazetted post	64	1.00
6.	Havildar	Non-gazetted post	-	
7.	Constable	Non-gazetted post	112	
8.	Followers = 20 Cook = 20 Multitasking and = 18 Maintenance Staff = 18 Water carrier = 18 Dhubi = 8 Barber = 8	Non-gazetted post.	72	As per ReP 2016

-2-

		Medical Staff		
9.	Sr. Medical & Health Officer	Coxetted poet	1	As per RoP 201
10	Medical & Health Officer	Cazonia por	1	
11.	Physio Therapist	Non-gazetted post	1	
12.	ASI (Pharmecist)	Non-gazetted post	1	
13.	Hav (X-ray Assit)	Non-guzetted post	1	
14.	Laboratory Technician	Non-guzened post	- 1	
15.	Stuff Nurse	Non-gazetted post	2	
16.	Hav Nursing	Non-gazetted post	2	
17.	Const. Nursing	Non-gazetted post	10	
18.	Dimi	Non-gazetted post	1	
1100		AFRO Staff		
19.	Inspector	Non-gazetted post	1	As per
20.	S.I. (Radio Operator)	Non-gazetted post	3	RoP 2016
21.	S.I. (Technician)	Non-gazetted post	1	
22.	A.S.I. (Radio Operator)	Non-gazetted post	4	
23.	A.S.I. (Cypher)	Non-gazetted post	1	
24.	HC (WO/WT/Cy)/ Cn (WO/WT/Cy)	Non-gazetted post	14	
_	Grand Total:		800	

Govt. has no objection to the filling up of the newly created 600 posts curing the current financial year as per approval conveyed by Finance (SIU) Department vide their U/O No.FSI No.467/2021 dated 21/10/2021.

Head of account will be communicated after creation of particular head against the organization by Phance Department.

This is issued with the concurrence of Finance (EC-II) Department vide their U/0. No.733/2021 dated 21/10/2021.

Yours faithfully,

Secretary to the Gove of Assam Home & Political Department

Dated Dispur, the 22rd October, 2021

Memu No.HMA.113/2021/P1/29-A Copy to:

 The Director General of Police, Assam, Ulubari, Guwahati-7 for information and necessary action. The Finance (EC-II)/ (Budget) Bepartment, Dispur, Guwahati-6.

By order etc.,

Secretary to the Govt. of Assam,

Home & Political Department

Dated Dispur, the 22rd October, 2021

Memo No.HMA.113/2021/Pt/29-B

O

By e-mail

GOVERNMENT OF ASSAM OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND HEAD OF FOREST FORCE, ASSAM ARANYA BHAWAN, PANJABARI, GUWAHATI-37

E-mail: hoff-assam@gov.in

Date: 28.09.2023

FG 40/14 Mizeram Border/Pt-II

Ter.

The Additional Principal Chief Conservator of Forests (T) Lower Assam Zone, Basistha, Guwahati-29

Sub: Assam-Mizoram Inter State Border -proposal for establishment of 2nd Commando Battalion Unit inside Inner Line Reserve Forest at Damcherra area under Gharmurah Range, Hailakandi Division-Reg.

Ref: Your office letter No. FGT:36/Border/Assam-Mizoram/Pt.II dated 07:08:2023.

With reference to the above. I am to inform you that As per Section 2 (b) of FC Act. 1980 the non-forest purpose means the following:

any purpose other than tw-afforestation; but does not include any work relating or ancillary in conservation, development and management of forests and wildlife, namely, the establishment of checkposts, fire lines, wireless communications and construction of fencing, bridges and culverts, damy, waterholes, trench marks, houndary marks, populates or other like purposes.",

Since the purpose of proposal for 43.99 Ha. Forest land for establishment of 2"6 Commando Battalion Unit in the Assam-Mizoram interstate border area of Inner Line Reserve Forest is for protection and conservation of Reserved Forest land, it qualifies as an activity relating to conservation of forests nientioned under Section 2 (b) of Forest Conservation Act, 1980. Therefore you are allowed to go ahead with the establishment of the proposed 2st Commando Battalian Unit in the interest of conservation and protection of forest land.

Principal Chief Conservator of Forests &

Head of Forest Force, Assam

Copy for information and necessary action to:

1. The Chief Conservator of Forests, Southern Assam Circle, Silchar. The Divisional Forest Officer, Hallakandi Division, Hallakandi.

Principal Chief Conservator of Forests & Head of Forest Force, Assam

1/430383/2024







ASSAM POLICE HEADQUARTERS GUWAHATI, ASSAM

Memo No. eC.325832/Deployment of CDO/ 271 Dated Guwahati the 3rd February, 2024. To,

The Superintendents of Police Hailakandi, Golaghat, Nagaon, Sivasagar,
Jorhat, Biswanath, Kokrajhar, Barpeta, Darrang,
Sonitpur, Lakhimpur and Dibrugarh.

Sub:

Deployment of Action Group.

Sir.

With reference to the above, kindly find enclosed herewith a copy of Principal Chief Conservator Forest & Head of Forest Force letter No. FE.22/Commando/AFPF/A dated. 01-02-2024 alongwith its enclosures.

in this connection, I am to state that the following Action Groups of different CDC Bns. are being deployed with Forest Department under Operational Command of SsP concerned.

- 1. 1 (one) Group, of 2nd CDO Bn in Hallakandi
- 2. 2 (two) Groups of 3rd CDO Bn in Golaghat & Nagaon
- 3. 2 (two) Groups of 4th CDO Bn in Sivasagar & Jorhat
- 4 (four) Groups of 5th CDO Bn in Biswanath, Kokrajhar, Barpeta, Darrang, Sonitpur and Lakhimpur
- 1 (one) Group of 6th CDO Bn in Digboi, Dibrugarh.
- You are requested to check at the locations earmarked by the Forest Department for deployment of Commandos whether the accommodation and other essential losgistics are ready or not and revert back to this Hgrs.

Please note that Operational Command of Commando Groups will be with you and therefore optimize and effective utilization of Commandos should be ensured by you.

Yours faithfully, E-Sign Asstt. Inspector General of Police, (L&O) Assam :: Guwahati

Memo No. eC.325832/Deployment of CDO/ 271-A Dated Guwahati the 3rd February, 2024. As directed copy forwarded to :-

 The Principal Chief Conservator of Forests & Head of Forest Force for favour of kind information and necessary action.

The Inspector General of Police(T&AP), Assam for kind information.

Signed by Longnit Terang Asstt Inspector General of Police 14:82

GOVERNMENT OF ASSAM OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND HEAD OF FOREST FORCE: ASSAM PANJABARI: GUWAHATI - 781 037.

Phone No. (Off.): 0361-2333252

Fax No. 0361-2337386 E-mail: hoff-assam@gov.in.

No. FE.22/ Commando/AFPF/A

Dated Guwahati, the 15 February/2024

To

- 1. The Director, Kaziranaga National Park & Tiger Reserve, Bokakhat
- 2. The Field Director, Manas Tiger Reserve, Barpeta Road
- 3. All Divisional Porest Officers (Territorial), Assam.
- 4. All Divisional Forest Officers (Wildlife), Assam.

Sub;-

Deployment Plan for Assam Forest Protection Force & Assam Commando Battalion Personnel in Assam Forest Department-reg.

With reference to the subject mentioned above, find enclosed the deployment plan of personnel of AFPF Battalion and Assam Commando Battalions in various division of Assam Forest Department. All concerned officers are directed to ensure that necessary logistics arrangements are made available for the smooth deployment of the forces as per the outlined plan. The Assam Commando Battalion personnel shall be deployed in a single blocks of Action Groups consisting of 38 (thirty eight) Commandos. All deployment are subject to availability of forces. While the Assam, Police Commando Force are likely to join towards the end of first week of February'2024, the AFPF personnel may join in the 3rd / 4th Week of February'2024.

Encis:- As stated above.

(M. K. Yadava, IFS) PCCF & HoFF, Assam

Copy to :-

The Director General of Police, Assam Police Headquarters, Ulubari, Guwahati

The Special Chief Secretary to the Govt. of Assam, Environment & Forest Department, Dispur, Guwahati-06.

The Special Director General of Police (H.Q), Assam Police, Ulubari, Guwahati.

 The Principal Chief Conservator of Forests (Wildlife) & CWLW, Assam, Panjabari, Guwahati-37.

The Addl. Principal Chief Conservator of Forests (T), Lower Assam Zone, Guwahati-29.

 The Addi. Principal Chief Conservator of Forests, Karbi Anglong Autonomous Council, Diphy.

7. The Addl. Principal Chief Conservator of Forests (T), Upper Assam Zone, Jorhat.

- The Addl. Principal Chief Conservator of Forests & CHD, Bodoland Territorial Council, Kokrajhar.
- 9. The Chief Conservator of Forests, Northern Assam Circle, Tezpur.
- 10. The Chief Conservator of Forests, Eastern Assam Circle, Jorhat.
- 11. The Chief Conservator of Forests, Southern Assam Circle, Silchar
- 12. The Chief Conservator of Forests, Central Assam Circle, Guwahati
- 13. The Chief Conservator of Forests, Lower Assam Social Forestry Circle, Bogalgaon
- 14. The Commandant, 1st AFPF, Battalion, Basistha, Guwahati-29.
- 15. The Commandant, 2nd AFPF, Battalion, Seconce, Nagaon,
- 16. The Commandant, 3rd AFPF, Battalion, Lakhimpur.

PCCF & HoFF, Assam

	The second second	AND DESCRIPTION	Existing AFPF	ROMAN CONTRACTOR	Was Consum A	IN ASSAM FOREST	
S No	Division	New AFPF to be Deployed	Strength (1st & 2nd AFPF combined	Total AFPF Strength	New Commando Bettalion to be Deployed	Deployment Plan for AFPF & ACB	Remarks
	2nd AFPF ZONES (HQ at 5	Seconee)					
ı	Eastern Assum WL	130	159	289	76	APPF 1. Aguratoli - I Platoca 2. Kobora - I Platoca 3. Bagori - 4 Sections 4. Burhapahar - 2 sections 5. Bokskhat - I Platoca ACB I AG - Burhapahar I AG - Bokskhat	AFPF shall be used as Quick Response Teams. AGs are to be deployed at the prophable entry and exit points as part of the operational strategy
2	Nagaon WL Division		22	22	38	1 AG - Burhachapori WLS	AG 1. For protection of Evicted areas 2. The same group may also be utilized for area domination in Second addition to Orang NP under Mangaldai WL Division.
3	Nagnon (T) Division		38	38			sinds withguidn w.t. Otvision.
4	Nagann South (T) Division		32	32			
5	Sibsagar (T) Division	10	29	59	38	APPF 1 Section - Haluwa Beat 1 Section - Sonari Range, Kherbari 1 Section - Geleki ACB 1 AG - Geleki	For protection of RF bordering Assum-Nagatand. The same AG may also be utilised for mea domination in Tiru Hills RF under Jorhat Division.
6	Jorhat (T) Division	20	13	33		AFPF I Section - Thu Hills RF I Section - United Section 198	AG deployed in Sibsagar to be used in Tiru Hills RF along
7	Majuli (T) Division			0		! Sections - Hollengeer WLS	Assum-Nagaland Border
8	Golaghat (T) Division		7	7			
9	Hamren Division	10	8	18		AFPF 1/2 Section - Khanduli 1/2 Section - Kheroni	
10	KA Wesε(Γ)	10	4	34		AFPF 1/2 Section - Borizinfphar 1/2 Section - Bokolia Range	

sance of	14-0500	New AFPF to	Existing AFPF	Total trans	New Commando	Participation of the second of	
S No	Division	be Deployed	Strength (1st & 2nd AFPF combined	Total AFPF Strength	Battalion to be Deployed	Deployment Flan for AFPF & ACB	Remarks
11	KA East (T)	An.		-	The second second	AFPF	
19.8	AA ESSI(I)	20	D	20		Section - Dolomora Range Section - Parko Paher Range	
12	Dimn Hasao East (T)	10	0	10			
13	Dima Hasao West (T)	10	0	10			
14	CCF, DHAC, Haflong		- 11	11			
	Total	240	323	563			
	1st AFPF ZONE (HQ at Ba	misthn)					
15	Assam State Zoo		18	18			
16	Gowahati Wt. Division	25	40	65		AFPF 1 section - Publicara 1 section - Amchang 1/2 Section - Deepor Beel	
17	Mangaldoi WL Division	30	28	58			AG deployed at Burheclupori WLS may are to be utilised for area domination in Second addition wess
18	Manas NP/TR		49	49	76	ACB 1 AG - Kahitama 1 AG - Amtoka	The current AFPF personnel posted in Softpur East, Jorhet, Sibsegar, Karbi Anglong will be deputed at Manus NP. AG deployed may also be utilised for periodic area domination in Ratmona NP as
19	Raimona NP		8	8			required
20	Kachuguon Division	20	- 1	27		AFPF I Section - Central Range HQ 1/2 Section - Eustern Range HQ	
21	Haltugaon (T) Division		8	8		1/2 Section - Kolaberi Beat	
22	Chirang Division	20	7	27		AFPF 2 Sections - Shantipur Beat	
23	Partetjhora (T) Division			0		- overments - andrigtpur treat	

e at		New AFPF to	Existing APPF	Total AFPF	New Commando		
SNo	Division	be Deployed	Strength (1st & 2nd AFPF combined	Strength	Battalion to be Deployed	Deployment Plan for AFPF & ACB	Remarks
24	Baska (T) Division			D	3.00		
25	Aic Valley (T) Division		13	13			
26	Kamrup West (T) Division	30	41	7t		AFPF I Section - Hahim I Section - Muduki I Section - Ukium	
27	Kamrup East (T) Division	20	46	66		AFPF Section - Ranf Section - Garbhanga	
28	Kamrup North (T) Division		15	15		- Cartain Cartainings	
29	Goalpum (T) Division		18	18			
30	Dhubri (T) Division		13	13			
31	Cacher (T) Division		77	77			
32	Hallakandl (T) Division	10	8	18	38	10 AFPF - Punchgram range 1 AG of ACB - ILRF	AG For protection of RF bordering Assum-Mizoram
13	Karlingarij (T) Division	20	16	36		AFPV I Section - Balipipla Best ISection - Duhalis Range HQ	
34	Aranya Bhawan		38	38		receipt to disting stange 114	
35	APCCE, UAZ			1			
36	APCCF, LAZ		4	4			
37	Forest School, Jalukbari		1	1			
38	Rehaberi Residence Complex		6	6			
	Total	175	462	637			
	3rd AFPF ZONE (Temporar Camp)	y HQ at Lama		770			
39	Western Assem WL Division	40	17	57		AFPF 3 sections - Nameri national Park 1 Sections - Sonal Rupai WLS	

			The second secon		CONTRACTOR STATE	IN ASSAM FOREST	
S Na	Division	New AFPF to be Deployed	Existing AFPF Strength (1st & 2nd AFPF combined	Total AFPF Strength	New Commando Battalion to be Deployed	Deployment Plan for AFPF & ACB	Remarks
40	Biswenath WL Division	30	56	86	38	ACB 1 AG - Crime Investigation Range	AG 1. For pretection of Kaziranga Ni 2. The same group may also be utilised for area domination in Behali WLS under Sonitpur East Division.
41	Tinsukla WL Division		33	33			AFPF Batallion deployed at Makum may also be utilised for periodic area domination in Dibru-Saikhowa NP as required
42	Dhansiri (T) Division		2	2			Diore ossessina in as required
43	Sonfigur West (T) Division	10	7	17		1 Section of AFPF - Balinara RF	
44	Sonitaur East (T) Division	40	20	60		AFPF 1 Section - Bedeti Beat 1 Section - Hati Depot 1 Section - Singlijan Beat 1 Section - Borgson Range HQ	
45	Lakhimpur(T) Division	20	18	38	38	APPF 1 Section - Joyhing Beat, Kakoki 1 Section - Kachajuli ACB 1 AG - Bagoli BOP	For protection of RF hordering Assam-Arunachal Pradesh
46	Dhomaji (T) Division	20	16	36		AFPF Section - Jonal Section - Division HQ	
47	Deamdooms (T) Division		17	17.		Constitution (1)	
48	Digboi (T) Division	30	53	83	38	AFPF 2 Sections - Margreta 1 Section - Likhajan Beat ACB 1 AG - Aizewat camp	For protection of NP & RF bordering Assure-Arunachal Pradesh
49	Dibrugarh (T) Division	50	17	67		APPF 2 Sections - Dihing Parkal along interstate boundary 2 Sections - Dihing Parkal along Western Boundary 1 Section - Jeypore Range HO*	

		DEP	LOYMENT PLAN FO	RAFPF & A	CBs PERSONNEL I	IN ASSAM FOREST	
S No	Division	New AFPF to be Deployed	Existing AFPF Strength (1st & 2nd AFPF combined	Total AFPF Strength	New Commando Battalion to be Deployed	Deployment Plan for AFFF & ACB	Remarks
50	LAMA CAMP	225		225			Lama Camp will serve as temporary HQ for 3rd Battalion
51	Forest School, Maloum	70		70			To be accomedated in 2nd AP Battalion, Makum
	Total	535	256	791	388		
	Grant Total	950	1041	1991	380		

^{*} AFPF battalion deployment mandates a minimum of half a section (5 personnel) inside the Forest Arme.

(M.K.Yadava, IFS) PCCF & HoFF, Assam Aranya Bhawan, Panjabari-37

^{*} AG - Action Group, Each Action Group comprises 38 ACB personnel and deployment plan trust not split the group

Annexum C

ACTION GROUP NO. 2ND (OPS)

-	-		Mubile NO	REMARKS
CL. 7663	HANK	NAME:	94916690018	
1	. AW	MAKIRU, HUSSAIN	863850186K	
2	COOK	SOFT MAN HORDS	1107	
		The second secon	7086196814	
1	ABSI	BIRA) KARKI	0854348736	
2	HAV	SUDDING BURNESHANG	9101515114	
4	(N-123	SURAJ CHELKY	7086978947	
4	CN-449	THE ONLY CORROL	6602648284	
- 5	CN-145	AKASH PEGU		
46	U/N-404	ANKUR HAZARIKA	9365223579	-
	L-N-141	BHABESH CHARO	%67818754K	
- 54	CN-89	Landard has blacked by a gra	7896419952	
13	-C/N-173	BIKRAM SINGHA	7999034247	
10		BIMAN MECH	7005542614	
11	CN-42	THE RESERVE AND ADDRESS OF A SECOND STREET	7896965464	
13		GAUTOM HANSE	9101627632	
100	1 4.114 4.11	B-	TEAM	
1	AHSI	MIRAK JYOTI DEKA	8099035365	
1 2	HAV	APURBA KUMAI	6001233564	
1	C/N-81	The second secon	t/900784525	
1 4	C784.70	8 HEMANTA KALITA	7099827330	
5	1779.30	N JOYPRAKASH MILI	9678351882	
0	Cole in	2 JITUL HAZARIKA	6000853961	
7	C/M-45	56 FIROJ CHUNKRANG	7086415160	
8	C/N-26	77 KOMALA PEGU	6901048179	-
14	1 (104-1)	00 PULAKESH ROY	9957483982	
10	C/N-3	MANAB BAISHYA	9101710979	
11	C/N-3	03 INITU DUTTA	8099853295	
12	1.7N-1	96 PARTHA PROTIM DAS	6001916664	
1	1,3475.5	c	-TEAM	
1	ABS	PREMISON SANGMA	6901463843	
7	-		7896886024	
-	_	39 RAKIBULISLAM	9101025050	
-	C/N-4	19 RITUPARNA NEOG	8399866977	
1	C/N-4	SAMKAJ JATAPDHARA	8404030859	
-		44 SANTU KAMAN	9101646326	
-	C'M-	CONTRACTOR OF THE PARTY AND ASSESSMENT	#131944#SE	
-		SUMESWAR PATOR	9365689461	
Sec. 16		257 ANSULA DAIMARY	9954K20777	1
	The second secon	351 ALOK NAYAK	8811918964	
	11 C/N-	Control of the Contro	#82289298	
	12 5/14	189 ANANTA CHUTIA	939527169	5

SUMMARY	
6(3)	
relight	3
HAV	3
CONN	30
CHOK	1
TOTAL	38

Commendant,
2nd Acenn CDO Remine,
Damcherra, Heilekandi,
Camp at 21st AP (IR) Bo. Kto.



HOUSE

PENERS



ANNESTURE - XIX

ANNEXURE-R 4

Government of India Ministry of Environment, Forest and Climate Change (Forest Conservation Division)

Indira Parayavaran Bhawan Jor Bagh Road, Aliganj, New Delhi-11003 Dated: March, 2024

To

The Additional Chief Secretary (Forests), Government of Assam, Guwahati

Sub: In Suo motu matter in re: News item appearing in The Northeast Now dated 25.12.2023 entitled "Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion" pending before Hon'ble NGT (PB)-Reg.

Madam/Sir,

This is the above stated matter wherein the Hon'ble Tribunal based on the media report tilted Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion took suo motu cognizance of the matter. In this regard the reply of the State Government has been received vide letter dated 11.03.2024.

The Ministry also asked its Regional Office, Shillong to examine the matter and submit a detailed factual report in the above captioned matter. The Regional Office vide its letter no. F.NO.-RONE/E/O.A.No. 61/24/PB/S/4081 dated 12.03.024 furnished a Site Inspection Report and inter alia submitted the following with respect to the forest area in question:

i) The construction is large-scale and of permanent concrete structures, considering the area of build-up area is 11.5 ha and the plinth area being close to 30,000 sq. metre. The area of 11.5 ha does not appear to have much semblance to any of the activities mentioned in the explanation (b) of Section 2 of the Forest (C) Act, 1980 about ancillary activity for conservation, development and management of forest and wildlife, namely, establishment of and Checkpost, firelines, wireless communications and construction of fencing, bridges and culverts, dams, waterholes, trench marks, boundary marks, pipelines or other like purposes.

Further, it has also been mentioned that the word 'and other like purposes' appear to allude to such purposes similar to the ones aforementioned namely,

Checkpost, firelines, wireless communications and construction of fencing, bridges and culverts, dams, waterholes, trench marks, boundary marks, pipelines but it is observed that the extent (of 30,000 sq mt of build-up over 11.5 ha of area) and type of structures being permanent concrete does not have much similarity to those.

The report of the Regional Office has been examined in the Ministry and prima facie it has been observed that the use of forest land for non forestry activities has been allowed without prior approval of the Central Government which is in contravention of the statutory provisions and rules under Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Taking into account the aforesaid, the State Government is urged to stop all construction activities in the aforementioned area/ land in question, with immediate effect, till further orders or decision in the matter.

It is pertinent to mention here that continuation of construction activities as above will amount to violation of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980 and attract penal provisions.

Yours sincerely,

Signed by Suneet Bhardwaj Date: 18-03-2024 18:25:53

Sd/-

(Suneet Bhardwaj)

Assistant Inspector General of Forests

Government of India Ministry of Environment, Forest and Climate Change (Forest Conservation Division)

Indira Parayavaran Bhawan Jor Bagh Road, Aliganj, New Delhi-11003 Dated: March, 2024

To.

Deputy Director General of Forests, MoEFCC, Regional Office, Law-U-Sib, Lumbatngen, Near MTC Workshop, Shillong

Sub: In Suo motu matter in re: News item appearing in The Northeast Now dated 25.12.2023 entitled "Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion" pending before Hon'ble NGT (PB)-Reg.

Ref: Letter No. F.NO.-RONE/E/O.A.No. 61/24/PB/S/4081dated 12.03.024

Madam/Sir,

This is apropos the above stated matter wherein the Hon'ble Tribunal based on the media report tilted Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion took suo motu cognizance of the matter. The reply of the Regional Office along with the SIR has been received in the Ministry on 12.03.2024.

The said factual report and SIR has been examined in the Ministry and prima facie it has been observed that the use of forest land for non forestry activities has been allowed without prior approval of the Central Government on the forest land in question which is in contravention of the statutory provisions and rules of Van (Sanrakshan Evam Samvardhan) Adhiniyam, 1980.

Taking into account the aforesaid, it is requested to initiate action in the instant matter as prescribed under section 3A and 3B of the Van (Sanrakshan Evam Samvardhan) Adhiniyam.

Yours sincerely,

Signed by Suneet Bhardwaj Date: 18-03-2024 18:27:23

Sd/-(Suneet Bhardwaj)

Asst. Inspector General of Forests

Copy to: Sub-office Guwahati of Regional Office, Shillong of MoEF&CC.

FC-7/1/2024-FC I/68044/2024

575 294

295



RO Shillong <ro.nez.shil@gmail.com>

Service of Counter Affidavit by Respondent No. 1 In Suo motu matter in re: News item appearing in The Northeast Now dated 25.12.2023 entitled "Assam: PCCF MK Yadava accused of illegally clearing protected forest for Commando Battalion" pending before Hon'ble NGT (PB)-Reg.

RO Shillong <ro.nez.shil@gmail.com>

Wed, Apr 10, 2024 at 3:31 PM

To: hoff-assam@gov.in, environmentforestassam@gmail.com, pccf.assam@gmail.com, "CWLW (Assam)" <pccf.wl.assam@gmail.com>, "dc-hailakandi@nic.in" <dc-hailakandi@nic.in>

Cc: thakursumit79@gmail.com, hp179.ifs@nic.in, Prabhakar Kandpal <kprabhakarmoef@gmail.com>, IRO Guwahati <iro.guwahati-mefcc@gov.in>

Sir/Madam,

With reference to the subject cited above, may kindly find herewith the google drive link containing the scan copy of Counter Affidavit on behalf of Respondent No. 1 (Ministry of Environment, Forest & Climate Change) which will be filed in the Hon'ble National Green Tribunal, Principal Bench, New Delhi.

Kindly acknowledge the receipt of this mail which will be treated as proof of service.

https://drive.google.com/file/d/1XfkF6qV0K3WSIPE3qjNRZT8sY5tT-BJh/view?usp=sharing

With Regards, Ms. Ana. A. Sangma, Project Assistant, MoEF & CC, RO, Shillong.