

OIL INDIA LIMITED
(A GOVT. OF INDIA ENTERPRISE)
P.O.DULIAJAN-786602, ASSAM
E-TENDER NOTICE

WORKS CONTRACT

OIL INDIA LIMITED (OIL) invites Bids under Composite bid System from established Civil Engineering firms / contractors through its E-Procurement portal “<https://etender.srm.oilindia.in/irj/portal>” for the following works.

IFB No.	DESCRIPTION OF SERVICE	BID SECURITY	COST OF BID DOCUMENT
CDC2653P23	Construction of New Fire Service Building including Electrical, Tele- communication & IT works along with Construction of Boundary Wall, Fire Water Pit, Development of frontal area at Moran, Charaideo district. All materials to be supplied by contractor except cement.	₹ 2,21,000.00	NIL
Bid Closing / Opening Date & Time for the above work : 16.03.2023 at 11.00/14.00 Hrs.			
Bidder shall require User ID and Password for online submission of Bid.			
Bidders without having E-tender Login ID and Password should complete their online registration <u>at least seven (7) days prior to the scheduled bid closing date and time of the tender</u> . For online registration, Bidder may visit the OIL's E-tender site https://etender.srm.oilindia.in/irj/portal .			
Necessary Login ID & Password will be issued by OIL only after submitting the complete online registration by the Bidder. In the event of late registration/incomplete registration by Bidder, OIL INDIA LIMITED shall not be responsible for late allotment of User ID & Password and request for bid closing date extension on that plea shall not be entertained by Company.			
No physical Bid documents will be issued. The details of IFB can be viewed using “Guest Login” provided in the E-Procurement portal and also in OIL's web site www.oil-india.com . The link to OIL's E-Procurement portal has also been provided through OIL's web site www.oil-india.com .			
All corrigenda, addenda, amendments, time extension, clarifications etc. to the tender will be hosted on the OIL's website and in the e-tender portal only and no separate notification shall be issued in the press. Prospective bidders are requested to regularly visit the website and e-portal to keep them updated.			

Date: 14.02.2023

DGM Contracts (Civil)
For CGM-Contracts (HOD)
For RESIDENT CHIEF EXECUTIVE

OIL INDIA LIMITED
(A Govt. of India Enterprise)
Contracts Department, Duliajan

WORKS CONTRACT

OIL INDIA LIMITED, a premier Public Sector Enterprise of Govt. of India engaged in drilling and exploration activities for hydrocarbon invites ON-LINE BIDS from experienced and established firms/ contractors meeting the requisite criteria for the following mentioned work under **COMPOSITE BID SYSTEM** through its e-Procurement site:

DESCRIPTION OF WORK/ SERVICE: Construction of New Fire Service Building including Electrical, Tele- communication & IT works along with Construction of Boundary Wall, Fire Water Pit, Development of frontal area at Moran, Charaideo district. All materials to be supplied by contractor except cement.

INTERNAL ESTIMATED COST: ₹ 4,41,23,869.79

LOCATION OF WORK: **Near Fire service Station, Moran**

PERIOD OF WORK COMPLETION: **72 Weeks**

BID CLOSING/ OPENING DATE & TIME: **16.03.2023 (11:00 HRS/14:00 HRS)**

BID SECURITY DEPOSIT: ₹ 2,21,000.00 (Two Lakh Twenty One Thousand only)

PERFORMANCE SECURITY DEPOSIT: **3 % of Total Contract Cost** (shall be kept as retention money from running bill)

2.0 SUBMISSION OF BID SECURITY:

- 2.1 The Bid Security is required to protect the Company against the risk of Bidder's conduct, which would warrant forfeiture of the Bid Security, pursuant to sub-clause 2.8.
- 2.2 All the bids must be accompanied by Bid Security in Original as prescribed under, for the amount as mentioned in the "NIT" of the tender documents:
- a. The Bid Security may be submitted in the form of irrevocable Bank Guarantee (as per **Annexure-III**) issued by Nationalized or Scheduled Bank in favour of M/s Oil India Limited and payable at DULIAJAN. The Bank Guarantee must be on Non-Judicial Stamp Paper of requisite value as per Indian Stamp Act purchased in the name of Banker. A duly filled undertaking towards details of the BG (as per **Annexure-III(A)**) must also be submitted along with the scanned copy of BG in the technical bid.

Note: In case the Bidder submits Bid security in the form of Bank Guarantee (BG), the BG must be valid for a minimum of 120 days (One Hundred Twenty) from the original date of bid closing.

- b. Alternately Bid Security can also be paid through Bank Draft / Cashier's Cheque / Banker's Cheque / Fixed Deposit Receipt (Account OIL INDIA LIMITED) / irrevocable Letter of Credit / NEFT / RTGS / Electronic Fund Transfer through Online Payment Gateway of OIL's e-tender portal (subject to credit in OIL's account within prescribed time) to designated account of OIL.
- i. If the Bid Security is submitted in the form of Bank Draft, Banker's Cheque, Cashier's Cheque, Fixed Deposit Receipt or Letter of Credit, the same should be in favour of "Oil India Limited" payable at Duliajan.

- ii. Bid Security amount through NEFT or RTGS mode may be deposited on or before bid closing date and time to the following designated OIL's bank account:

	Bank Details of Beneficiary: OIL INDIA LIMITED	
a	Bank Name	STATE BANK OF INDIA
b	Branch Name	Duliajan
c	Branch Address	Duliajan, Dist.-Dibrugarh
d	Bank Account No.	10494832599
e	Type of Account	Current Account
f	IFSC Code	SBIN0002053
g	MICR Code	786002302
h	SWIFT Code	SBININBB479

- iii. If the bid security is submitted through NEFT or RTGS mode, details such as UTR No., Tender No., Bidder's name & Deposited Amount etc. must be uploaded with the Unpriced Techno-Commercial Bid documents.
- c. In case of Bidders submitting Bid Security in the form of Bank Guarantee / Bank Draft / Cashier's Cheque / Banker's Cheque / Fixed Deposit Receipt / Letter of Credit, the original hard copy of Bid Security should reach the office of CGM-CONTRACTS on or before 12.45 p.m. (IST) on the bid closing / opening date otherwise bid will be rejected.
- d. A scanned copy of Bid Security document should also be uploaded along with the Unpriced Techno-Commercial Bid documents.
- e. This Bid Security Deposit shall be refunded to all unsuccessful bidders, but is liable to be forfeited in full or part, at Company's discretion, as per Clause No. 2.8 below. Bids without Bid Security Deposit in the manner specified above will be summarily rejected.
- f. No other mode of payment will be accepted by the Company. The Bid Security shall not earn any interest to the bidder from the Company.

Note:

- i. Bidders claiming waiver of Bid Security shall upload supporting documents as mentioned in **Para No. 2.12 & 2.13** below along with technical bid.
- ii. Any offer not accompanied with the Bid Security shall be treated as invalid and summarily rejected unless the bidder is exempted from submission of Bid Security as per Bid Security Exemption Criteria of this tender and proper proof towards this exemption is submitted by the bidder. Any subsequent deposit of Bid Security after the bid closing date shall not be permitted. Also, adjustment of Bid Security due against the instant tender, against dues from the Company or on any account shall not be permitted.
- 2.3 Any bid not secured in accordance with sub-clause 2.2 above shall be rejected by the Company as non-responsive.
- 2.4 The bidders shall extend the validity of the Bid Security suitably, if and when specifically advised by OIL, at the bidder's cost.

- 2.5 Unsuccessful Bidder's Bid Security will be discharged and / or returned within 30 days after finalization of the Tender.
- 2.6 Successful Bidder's Bid Security will be discharged and / or returned upon Bidder's furnishing the Performance Security and signing of the contract.
- 2.7 Bid Security shall not accrue any interest during its period of validity or extended validity.
- 2.8 The Bid Security may be forfeited:
- If the bidder withdraws the bid within its original / extended validity.
 - If the bidder modifies / revises their bid suo-moto within its original / extended validity.
 - If the bidder does not accept the contract.
 - If the bidder does not furnish Performance Security Deposit within the stipulated time as per tender / contract.
 - If it is established that the bidder has submitted fraudulent documents or has indulged into corrupt and fraudulent practice, the bid security shall be forfeited after due process in addition to other action against the bidder.
- 2.9 In case any bidder withdraws their bid during the period of bid validity, Bid Security will be forfeited, and the party shall be debarred as per the prevailing Banning Policy of the Company (OIL).
- 2.10 A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and / or if the Bid Security validity is shorter than the validity indicated in Tender and / or if the Bid Security amount is lesser than the amount indicated in the Tender.
- 2.11 The Bank Guarantee issuing bank branch must ensure the following:

The Bank Guarantee issued by the bank must be routed through SFMS platform as per the following details:

- MT 760 / MT 760 COV for issuance of bank guarantee.
- MT 760 / MT 767 COV for amendment of bank guarantee.

[Tender Number should reflect in the SFMS text under MT 760 / MT 760 COV]

The above message/intimation shall be sent through SFMS by the BG issuing Bank branch to ICICI Bank, Duliajan Branch, IFSC Code – ICIC0000213; SWIFT Code - ICICINBBXXX. Branch Address: ICICI Bank Ltd, Kunja Bhavan, Daily Bazaar, Duliajan, Dibrugarh, Assam – 786602. The Bank details are as under:

Bank Details of Beneficiary		
A	Bank Name	ICICI Bank Ltd.
B	Branch Name	DULIAJAN
C	Branch Address	Kunja Bhavan, Daily Bazaar, Duliajan, Dibrugarh, Assam – 786602
D	IFSC Code	ICIC0000213
E	Unique identifier code (Field 7037)	OIL503988890
F	Company Name	Oil India Limited
H	SWIFT Code	ICICINBBXXX

2.12 Exemption from submission of bid security: In case any bidder is exempted from paying the Bid security, they should upload the supporting documents along with their technical bid. The detailed guidelines for exemption of the Bid security are given below.

- a. Central Govt. Department & Public Sector Undertaking Companies are exempted from submission of bid security.
- b. **Micro & Small Enterprises** are exempted from submission of bid security against the tender irrespective of their product category and product capacity.

Categorization and various Criteria applicable to MSE bidders shall be guided by the Gazette Notification No. CG-DL-E-26062020-220191 dated 26.06.2020 issued by MINISTRY OF MICRO, SMALL AND MEDIUM ENTERPRISES.

The bidder claiming as MSE status (MSE-General, MSE-SC/ST, MSE -Woman) against this tender has to submit the following documents for availing the benefits applicable to MSEs:

- i. Udyam Registration Number with Udyam Registration Certificate.

Note: In case bidding MSE is owned by Schedule Caste or Schedule Tribe or Woman entrepreneur, valid documentary evidence issued by the agency who has registered the bidder as MSE owned by SC/ST/Woman entrepreneur should also be enclosed.

2.13 SUBMISSION OF MSE REGISTRATION CERTIFICATE IN E-TENDER PORTAL:

For EMD/Bid Security exemption, MSE bidders shall have to upload their Udyam Registration Certificate or Udyog Aadhar registration or Registration Certificate under the “Technical Attachments Tab” in OIL’s E-tender portal on or before the bid closing date and time of the tender.

MSE Registration Certificate submitted in hard copy shall not be accepted.

If any MSE bidder fails to submit/ upload his/her valid registration certificate in e-tender portal on or before the bid closing date and time of the tender, such bidders shall not be entitled for the benefit of EMD exemption and in that case, due to non-submission of EMD, such bidders shall be rejected straightway.

Note: The Purchase Preference Policy for MSE bidders shall not be applicable in this tender.

3.0 If the above mentioned closing / opening day of the tender happens to be non-working day due to Bandh / Strike or any other reason, the bids will be received and opened on the following working day at the same time except on Saturdays.

4.0 While submitting responses against the tender in OIL’s e-tender portal, bidders must fill up the “Total Bid Value” (under RFx Information > Basic Data > Total Bid Value), taking account of all liabilities including statutory liabilities in their quoted price (excluding PF and GST). A screen shot in this regard is shown below. The price quoted under the “Total Bid Value” should be within the range of “At Par” to “+10%” of Company’s Internal Estimate. Bids with overall quoted price as indicated in the “Total Bid Value” (under RFx Information > Basic Data > Total Bid Value) below “at par” and above “10%” of Company’s Internal Estimate will be rejected straightway.

Company shall evaluate the inter-se-ranking of the bidders and conduct Draw of Lots amongst the eligible bidders in case of identical bidding, strictly as per the overall quoted price under the “Total Bid Value” (under RFx Information > Basic Data > Total Bid Value) and awarding of contract shall be done accordingly.

It is the responsibility of the bidder to fill up the “Total Bid Value” (under RFx Information > Basic Data > Total Bid Value) correctly as per the instructions given herein. OIL INDIA LTD accepts no liability of any nature resulting from any calculation error or omissions while filling up the “Total Bid Value” (under RFx Information > Basic Data > Total Bid Value) by the bidders and no claim whatsoever shall be entertained thereof.

In case of identical bidding, Draw of Lots shall be conducted amongst the bidders who have quoted the lowest price (within the permissible percentage) under the “Total Bid Value” tab, to select 7 (seven) numbers of bidders priority-wise. The Technical and Commercial Scrutiny of bids will be carried out for these 7(seven) bidders only for further processing of the tender.

For convenience of the bidders and to improve transparency, the overall rate quoted by the bidders (within the range of “At par” to +10% of the internal estimate) against the tender shall be available for online viewing by all such bidders whose price bids shall be opened. Online view of prices as above shall be available to the bidders only upto 7 (seven) days from the date of price bid opening of the tender.

5.0 All techno-commercial documents are to be submitted as per tender requirement under **“Technical Attachments Tab”** in E-TENDER PORTAL.

6.0 To participate in OIL’s E-procurement tender, bidders must have a legally Valid Digital Signature of Class 3 [**Organizational Type**] with Organizations Name along with **Encryption Certificate** as per Indian IT Act from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India (<http://www.cca.gov.in>). Digital Signature Certificates having **“Organization Name”** field other than **Bidder’s Name (i.e. Firm’s Name)** are not acceptable.

6.1 The authenticity of above Digital Signature shall be verified through authorized CA after bid opening. If the **Digital Signature Certificate (DSC)** used for signing is not of **“Class -3”** & Organizational type with Organization’s name in the name of the bidder i.e. firm, the bid will be rejected.

6.2 Only in case of sole proprietorship firms, Digital Signature Certificates issued in the name of the proprietor is also acceptable provided the bid is submitted in the capacity of a proprietorship firm.

6.3 Bidder is responsible for ensuring the validity of Digital Signature Certificate (DSC) and its proper usage by their employee.

6.4 The bid including all uploaded documents shall be **digitally signed** by duly authorized representative of the bidding company. The DSC used must be of the type as mentioned above.

7.0 Bidders without having E-tender Login ID and Password should complete their online registration at least seven (7) days prior to the scheduled bid closing date and time of the tender. For online registration, Bidder may visit the OIL’s E-tender site <https://etender.srm.oilindia.in/irj/portal>.

7.1 Necessary Login ID & Password will be issued by OIL only after submitting the complete online registration by the Bidder. In the event of late registration/incomplete registration by Bidder, OIL INDIA LIMITED shall not be responsible for late allotment of User ID & Password and request for bid closing date extension on that plea shall not be entertained by Company.

8.0 The Company reserves the right to reject any or all the bids or accept any bid without assigning any reason.

8.1 Bidders must note that in case of any discrepancy or non-compliance to the tender criteria is found in their bids at any stage of tendering prior to the award of contract, such bids shall be rejected straightway. No claims or requests from such bidders shall be entertained thereafter.

9.0 (a) Bidders will be permitted by System to withdraw their bid or make any changes in their bid after the bid has been uploaded by the bidder prior to the Bid Closing date and time as mentioned in the bid. But no changes or withdrawal would be allowed by the system once the due date and time for submission of bids has been reached and bids are opened. Bidders are requested to take note of the above and arrange to submit their bids within the submission deadline to avoid last minute rush/network problems.

(b) No bid can be modified / withdrawn subsequent to the deadline for submission of bids. No Bidder can withdraw his bid within the validity or extended validity of the bid. Withdrawal of any bid within bid validity period will lead to forfeiture of his/her/their Bid Security in full and debarment from

participation in future tenders, at the sole discretion of the Company and the period of debarment will be decided as per OIL's banning policy dated 6th Jan 2017 available at OIL's website.

(c) Once a withdrawal letter is received from any bidder, the offer will be treated as withdrawn and no further claim / correspondence will be entertained in this regard.

10.0 The Bid must be valid for 90 (Ninety) days from the actual date of closing of the tender.

11.0 Conditional bids are liable to be rejected at the discretion of the Company.

12.0 The work may be split up amongst more than one contractor at the sole discretion of the Company.

13.0 The bidder may also seek such clarification from this office as are deemed necessary.

14.0 The bidders are required to furnish the composition and status of ownership of the firm in whose name bid documents have been purchased/issued along with one or more of the following documentary evidences (which are applicable to the bidder) in support of the same and scanned copies of the same should be uploaded along with the Un priced bid documents.

14.1 In case of Sole Proprietorship Firm, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, business and residential address, E-mail and phone numbers of the owner and copies of GST Registration Certificate.

14.2 In case of HUF, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form, Family Arrangement indicating therein the name, residential address, E-mail and phone numbers of the owners in general and Karta in particular and copies of GST Registration Certificate.

14.3 In case of Partnership Firm, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mails and phone numbers of all the partners (including the Managing Partner), registered partnership agreement/deed and copies of GST Registration Certificate.

14.4 In case of Co-Operative Societies, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mails and phone numbers of all the Directors or persons who are at the helm of affairs, registration certificate from Registrar of Co-Operative Societies and copies of GST Registration Certificate.

14.5 In case of Societies registered under the Societies Registration Act, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mail and telephone numbers of all the Directors or persons who are at the helm of affairs, registration certificate from the Registrar of the state and copies of GST Registration Certificate.

14.6 In case of Joint Stock Companies registered under the Indian Companies Act, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mail and telephone numbers of all the Directors or persons who are at the helm of affairs, Certificate of Incorporation from the Registrar of Companies, Memorandum and Articles and copies of GST Registration Certificate.

14.7 In case of Trusts registered under the Indian Trust Act, Copies of Telephone/Electricity/Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mail and telephone numbers of all the Trustee or persons who are at the helm of affairs, registration certificate from the Registrar of the state, Trust Deed and copies GST Registration Certificate.

NOTE: Point no. 14.1 to 14.7 is not applicable for contractors who are already registered with OIL INDIA LIMITED.

15.0 Wherever applicable, the bidder shall have itself registered under Employees' Provident Fund and Miscellaneous Provisions Act, 1952 and follow the relevant statutory provisions including Rules made there-under concerning contractual workers to be engaged by such bidder. If the bidder does not have P.F. Code

number at the time of applying for this tender, then the bidder must apply for the same if the contract is awarded to the bidder. Such bidder shall furnish the Provident Fund code number issued by the appropriate Govt. Authority, within 45 days of signing of contract, to Company (or when advised by Company, after 45 days of signing the contract); and all PF related statutory guidelines shall be adhered to by the bidder.

Bidders who are currently not covered under the Employees' Provident Fund and Miscellaneous Provisions Act, 1952 should submit an Undertaking for the same as prescribed in **Annexure-I** of the Tender Document.

16.0 Before Bidding :

- Bidder(s) are advised to inspect the work site with permission from HOD-Civil or his representative, to assess the nature and extent of work and the conditions under which it will be carried out.
- Bidder(s) should clearly understand all the terms & conditions, criteria, specification etc. of this tender.

17.0 The selected bidder will be required to enter into a formal contract within two weeks from the date of issuance of LOI, which will be based on their bid, i.e. OIL's Standard Form of Contract.

18.0 OIL INDIA LIMITED reserves the right to curtail / enhance the scope of the work stated above or cancel, if required.

19.0 The amount of retention money shall be released after 6 (six) months from the date of completion certified by the concerned department.

20.0 The work shall have to be started within seven days from the date of work order.

21.0 Time Schedule: The time allowed for completing the work will be reckoned from the date of issue of work order. Time is the essence of the Contract and failure on part of the contractor to complete the work within the stipulated time, shall entitle the Company to impose liquidated damages and / or penalty from the contractor as per terms of the Contract.

22.0 The contractor will be required to allow OIL officials to inspect the work site and documents in respect of the workers payment.

23.0 BACKING OUT BY BIDDER: In case any bidder withdraws their bid within the bid validity period, the Bid Security will be forfeited and be debarred from further tendering as per OIL's banning policy dated 6th Jan 2017 available at OIL's website: www.oil-india.com.

24.0 BACKING OUT BY L-1 BIDDER AFTER ISSUE OF LOI: In case LOI issued is not accepted by the L1 bidder or the Performance Security is not submitted as per the terms of the contract within the time specified in the Bid Document, the Bid Security shall be forfeited and the bidder shall be dealt as per OIL's banning policy dated 6th Jan 2017 available at OIL's website: www.oil-india.com.

25.0 FURNISHING FRAUDULENT INFORMATION/DOCUMENT: If it is found that a Bidder/Contractor has furnished fraudulent document/information, the Bid Security/ Performance Security shall be forfeited and the party shall be debarred as per the OIL's Banning Policy dated 6th Jan 2017 available at OIL's website. **Annexure VI must be duly filled in bidder's letter head and upload the scanned copy of the same along with techno-commercial bid.**

26.0 ERRING / DEFAULTING AGENCIES: Erring and defaulting agencies like bidder, contractor, supplier, vendor, service provider will be dealt as per OIL's Banning Policy dated 6th January, 2017 available in OIL's website: www.oil-india.com.

27.0 Any agency which is put under banning/ suspension/ holiday list as per OIL's Banning Policy dated 6th January, 2017 are debarred from participating in this tender during the currency of the banning/ suspension/ holiday period. Bids of such agencies if received shall be rejected straightway.

28.0 Bidder(s) must also furnish the followings:

- a) NAME OF FIRM :
- b) DETAIL POSTAL ADDRESS :
- c) MOBILE / TELEPHONE NO :
- d) E-MAIL ADDRESS :
- e) FAX NO (If available) :
- f) CONTACT PERSON :
- g) VENDOR CODE :
- h) GST Registration Number (If available):

29.0 The tender will be governed by :

- a) Covering Letter
- b) Bid Evaluation Criteria/ Bid Rejection Criteria (BRC/BEC)
- c) Part-I - General Conditions of Contract (GCC)
- d) Part-II - Schedule of Work, Unit and Quantity (SOQ)
- e) Part-III - Special Conditions of Contract (SCC)
- f) Part-IV - Schedule of Company's Plants, Materials and Equipment (SCPME)
- g) Part-V - Safety Measures (SM)
- h) Part-VI - Integrity Pact (IP)
- i) Pro forma
- j) Annexures

30.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in the rejection of its offer without seeking any clarifications. Offers sent without the requisite value of prescribed Bid Security (if called for in the bid) in original will be rejected straightway.

31.0 Both "TECHNICAL" and "PRICED" Bids should be submitted on-line through OIL's e-Tender Portal up to scheduled bid closing date and time and will be opened on the scheduled bid opening date and time as mentioned in e-tender portal at Office of the CGM-Contracts (HOD) in presence of authorized representatives of the bidders present, if any.

The Technical Bid should be submitted as per Scope of Work & Technical Specifications along with all technical documents related to the tender and should be uploaded under "Technical Attachment" Tab only. Bidders must note that no price details should be uploaded in "Technical Attachment" Tab Page. Bidders must quote their overall price under the "Total Bid Value" within the range of "at par" to "+10%" of Company's Internal Estimate, taking into account all liabilities including statutory liabilities in their quoted price (excluding PF and GST). Bidder must also upload the Undertaking in respect of quoted price digitally signed under the "Notes and Attachment" Tab in e-tender portal. A screen shot in this regard is shown below. Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria. In Bid opening, both Technical & Priced Bids will be opened.

Please go through the "**GENERAL GUIDELINES TO BIDDERS**" and "**VENDOR USER MANUAL (Effective 15.09.19)**" provided in OIL's e-Portal, in detail before uploading the document.

NB: In order to bid for OIL e-tenders all the vendors are required to obtain a legally valid Digital Certificate Class III [Organization] along with Encryption Certificate as per Indian IT Act from the licensed Certifying Authorities (CA) operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. Digital Signature Certificate comes in a pair of Signing/verification and Encryption/decryption certificate. Bidder should have both the Signing/verification and Encryption/Decryption certificate for Signing and encryption, decryption purpose respectively. The driver needs to be installed once, without which the DSC will not be recognized. While participating on e-Tendering the DSC token should be connected to your system.

Encryption certificate is mandatorily required for submission of bid. In case bidder created response with one certificate (using encryption key) and bidder change his Digital Signature Certificate then old certificate (used for encryption) is required in order to decrypt his encrypted response for getting the edit mode of the

response. Once decryption is done, bidder may use new DSC certificate for uploading and submission of their offer. It is the sole responsibility of the bidder to keep their DSC certificate properly. In case of loss of the certificate, OIL INDIA LTD is not responsible.

32.0 The Integrity Pact is applicable against this tender: OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide “Part-VI Integrity Pact” of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL’s competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who sign the bid, i.e., who is duly authorized to sign the bid. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder’s authorized signatory who sign the Bid.

32.1 In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact.

32.2 In the event of any dispute between the management and the contractor relating to those contracts where Integrity Pact is applicable, in case, both the parties are agreeable, they may try to settle dispute through mediation before the panel of IEMs in a time bound manner. If required, the organizations may adopt any mediation rules for this purpose. In case, the dispute remains unresolved even after mediation by the panel of IEMs, the organization may take further action as per the terms and conditions of the contract.

Note: Bidders may contact the Independent External Monitors for any matter relating to the IP at the following addresses:

Shri Sutanu Behuria, IAS (Retd.), e-Mail ID: sutanu2911@gmail.com, Shri Om Prakash Singh, IPS (Retd.), Former DGP, Uttar Pradesh, e-mail: Ops2020@rediffmail.com and Dr. Tejendra Mohan Bhasin, Former Vigilance Commissioner, CVC, e-mail ID: tmbhasin@gmail.com have been appointed as Independent External Monitors.

33.0 SCREEN SHOT :

Bidders must fill up the **“Total Bid Value”** (under **RFx Information > Basic Data > Total Bid Value**), taking account of all liabilities including statutory liabilities in their quoted price (excluding PF and GST).

- A.** Filling of **“Total Bid Value”** with overall quoted price where Detailed Price Information is “No Price”: Under “RFx Information”> “Basic Data”> “Total Bid Value”

The screenshot shows the 'Create RFx Response' interface. At the top, there are tabs: **Submit**, **Read Only**, **Print Preview**, **Check**, **Technical RFx Response**, and **Close**. Below these, a summary bar displays: **RFx Response Number** 60038748, **RFx Number** 1396, **Status** In Process, **RFx Owner** BHARALI, **Total Value** 0.00 INR, and **RFx Response Version Number**. The main navigation bar includes **RFx Information** (selected), **Items**, **Notes and Attachments**, and **Conditions**. Under **RFx Information**, there are sub-tabs: **Basic Data** (selected), **Questions**, and **Technical Attachments**. The **Event Parameters** section contains: **Currency:** Indian Rupee (dropdown), **Detailed Price Information:** No Price (dropdown), **Terms of Payment:** (text field with a file icon), and **Total Bid Value:** (text field highlighted with a red box). A blue callout bubble points to the **Total Bid Value** field with the text: **“Total Bid Value” considering all liabilities, taxes & duties except PF & GST**.

Note: Total Bid Value” is mandatory in “No Price” RFx only

On **“EDIT”** Mode, bidders are advised to upload **“Technical Bid”** and **“Priced Bid”** in the respective places as indicated below:

Note:

* The “Technical Bid” shall contain all techno-commercial details **except the prices**.

** The “Priced bid” must contain the price schedule as available in the tender. For uploading Priced Bid, first click on Add Attachment, a browser window will open, select the file from the PC and name the file under Description, Assigned to General Data and click on OK to digitally sign and upload the File. Please click on Save Button of the Response to Save the uploaded files.

B. Uploading of Technical Bid: Technical files to be added under RFX Information >“Technical Attachments”

RFx Response Number 60037504 RFx Number TESTARUP Status In Process Submission Deadline 15.04.2017 11:00:00 INDIA Opening Date 15.04.2019 00:00:00 INDIA

RFx Response Version Number Active Version RFx Version Number 1

RFx Information Items Notes and Attachments Conditions Summary Tracking

Basic Data Questions Technical Attachments

Notes

Clear

Category	Description
Conditions of Participation	-Empty-
Bid Invitation/Auction Text	-Empty-
Bidder's Remarks	-Empty-
Purchaser's Remarks	-Empty-

Attachments

cFolder Attachments

Add Attachment Delete Verify Signature

cFolder Name	Category	Description	File Name	Version	Processor	Check
The table does not contain any data						

Go to this Tab **“Technical Attachment”** for Uploading “Technical Bid”.

C. Uploading of UNDERTAKING IN RESPECT OF QUOTED PRICE :

RFx Response - Internet Explorer

RFx and Auctions

Edit RFx Response:

Submit Read Only Print Preview Check Technical RFx Response Close Save Delete Verify Signature Sign Response Refresh Smartform System Information Create Memory Snapshot

RFx Response Number 60032549 RFx Number SDIO69P17 Status Saved Submission Deadline 26.02.2017 11:00:00 INDIA Opening Date 26.02.2019 11:00:00 INDIA Remaining Time 4 Days 01:50:00

RFx Owner BHARALI Total Value 0.00 INR RFx Response Version Number Active Version RFx Version Number 2

RFx Information Items Notes and Attachments Conditions Summary Tracking

Notes

Add Clear

Assigned To	Category	Text Preview
The table does not contain any data		

Attachments

Sign Attachment Add Attachment Edit Description Delete Create Qualification Profile

Assigned To	Category	Description	File Name	Version	Processor	Checked Out	Type	Size (KB)	Changed by	Changed on
The table does not contain any data										

Go to this Tab **“Notes and Attachment”** for Uploading “Undertaking in respect of quoted price i.e Proforma-I”.

D. After Uploading of Proforma-I Click 'Save'

RFx Response - Internet Explorer

RFx and Auctions

Edit RFx Response:

Submit Read Only Print Preview Check Technical RFx Response Close **Save** Delete Verify Signature Sign Response Refresh Smartform System Information Create Memory Snapshot

RFx Response Number 60032549 RFx Number SDIO69P17 Status Saved Submission Deadline 26.02.2017 11:00:00 INDIA Opening Date 26.02.2019 11:00:00 INDIA Remaining Time 4 Days 01:19:48

RFx Owner BHARALI Total Value 0.00 INR RFx Response Version Number Active Version RFx Version Number 2

RFx Information Items Notes and Attachments Conditions Summary Tracking

Notes

Add Clear

Assigned To	Category	Text Preview
The table does not contain any data		

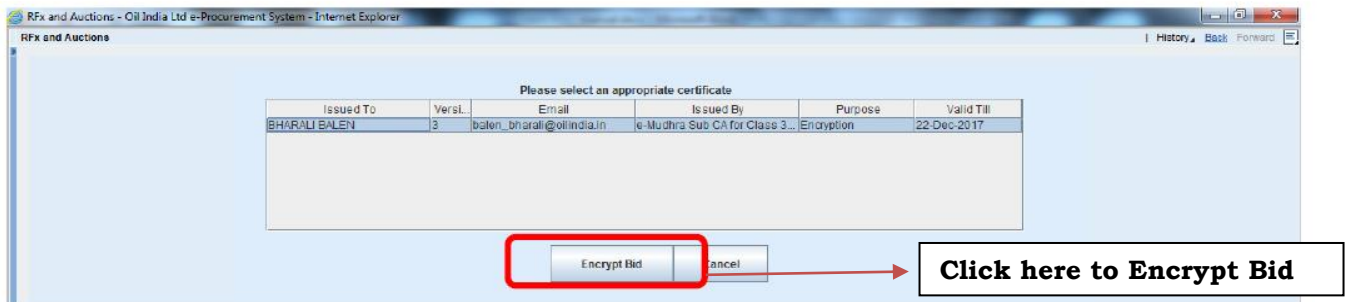
Attachments

Sign Attachment Add Attachment Edit Description Delete Create Qualification Profile

Assigned To	Category	Description	File Name	Version	Processor	Checked Out	Type	Size (KB)	Changed by	Changed on
Document Header	Standard Attachment	PRFORMA BID	PRFORMA BID.xls.sig	1		<input type="checkbox"/>	sig	10	V210445	24.02.2017

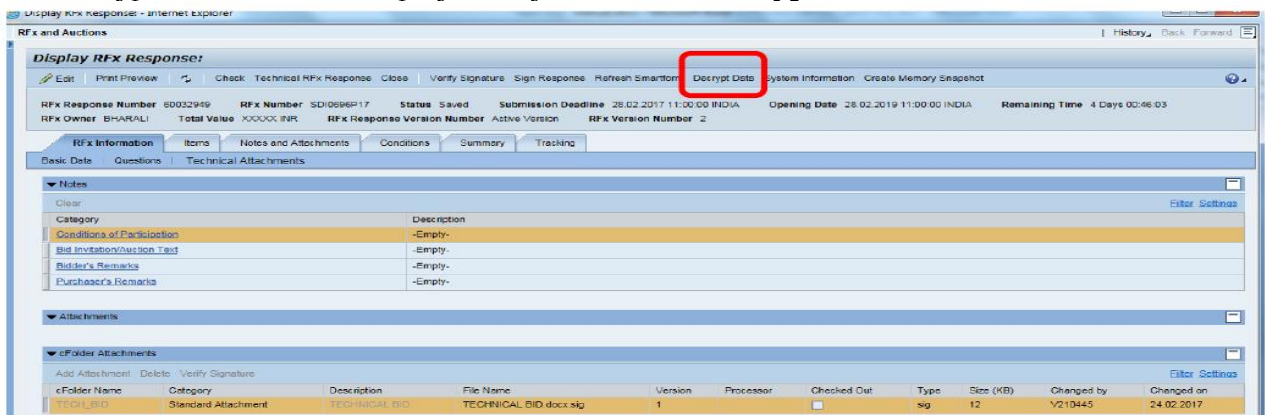
Once Saved ,the Data will be Encrypted & the Encryption Certificate will be in use.

E. Click to select the desired Encryption certificate & Encrypt Bid:

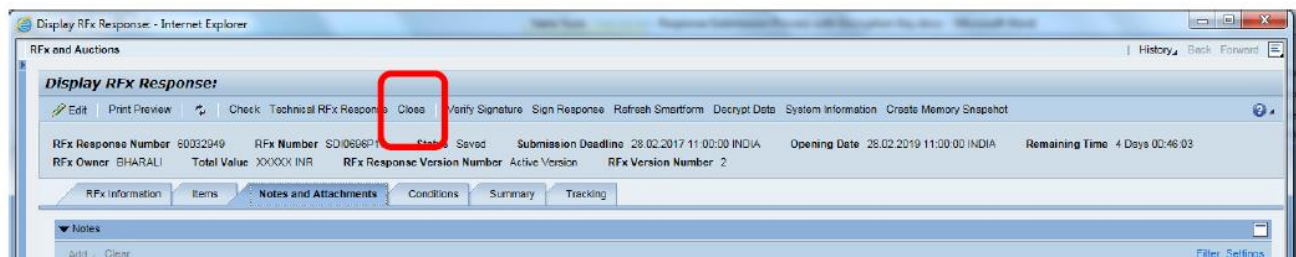


The Encrypted Data will be displayed only when click 'Decrypt data'

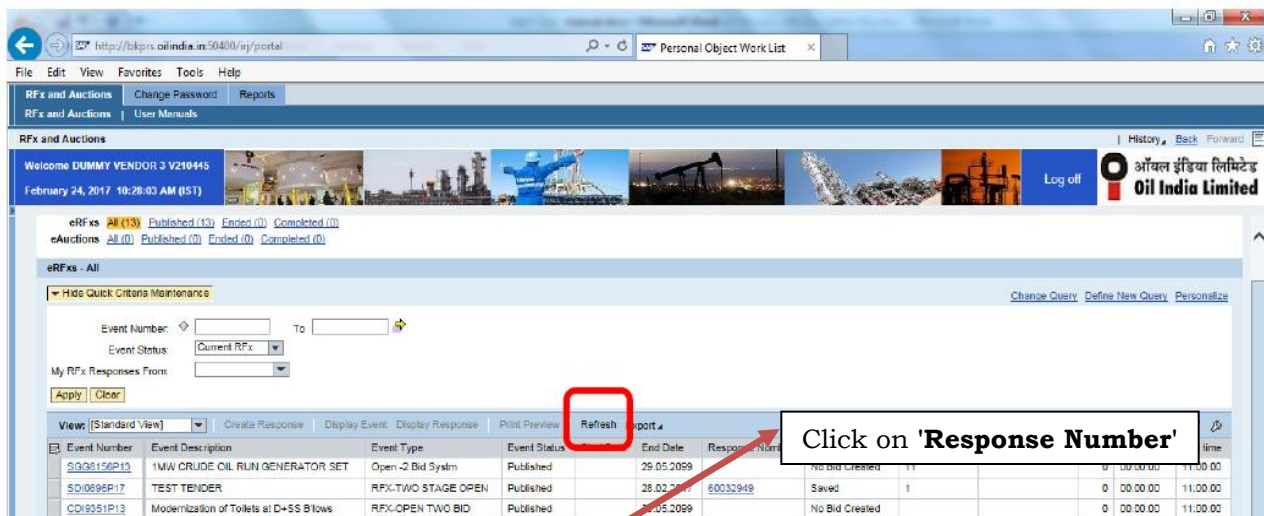
F. The Encrypted Data will be displayed only when click 'Decrypt data'



G. Click on 'Close'



H. Click on 'Refresh'. Then Click on 'Response No.'

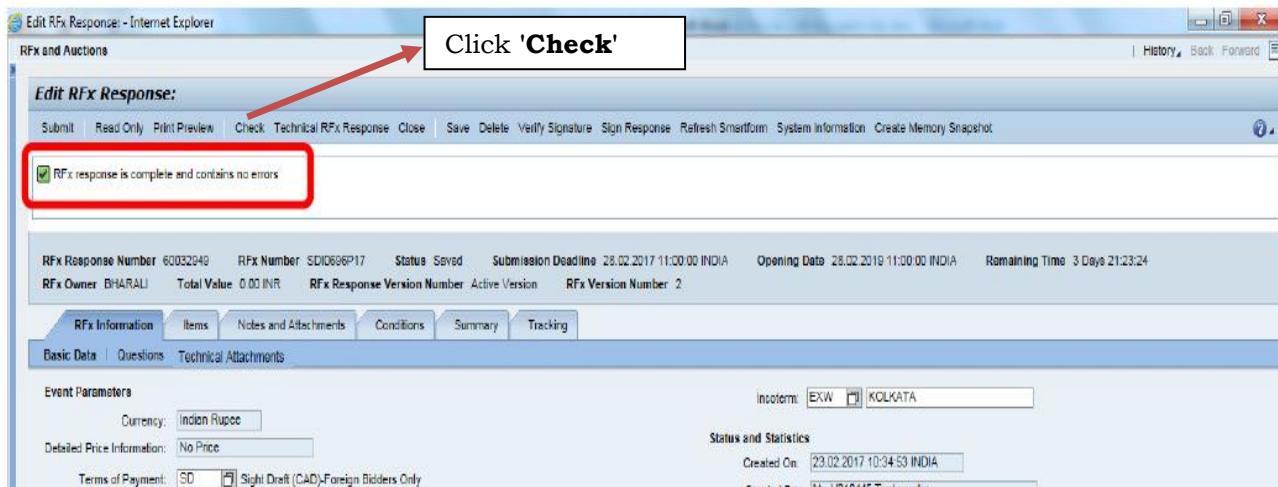


Now Uploading part is complete. Bidders are requested to go to the Initial screen. It is always better to come to the first screen and refresh the page and then going in into the response for the submission process.

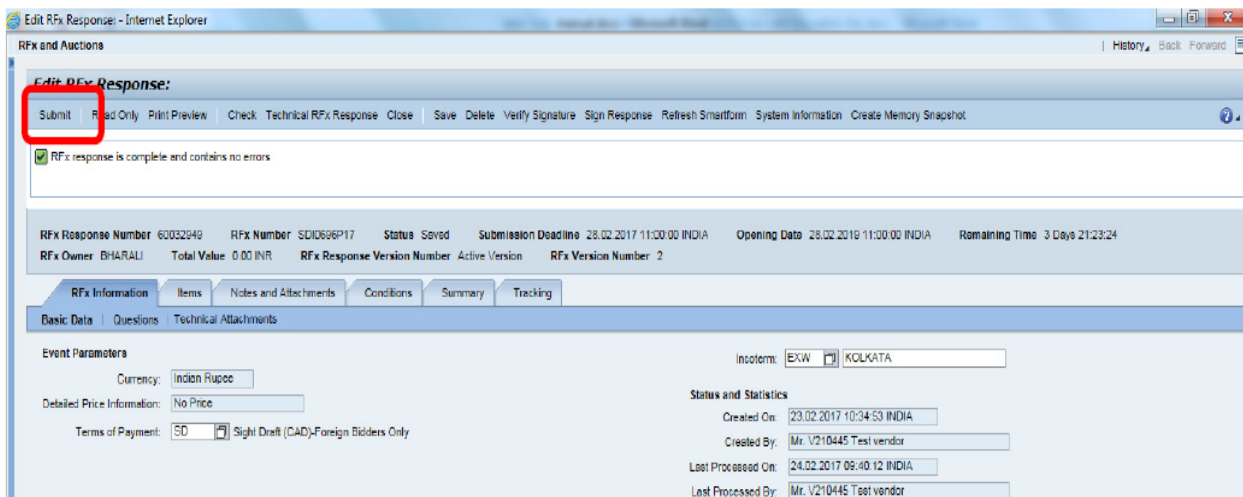
- I. On 'Edit' mode Click to select the same Encryption certificate used for De-cryption else data will not Decrypt.



- J. After Entering User pin , Click '**Check**'. Bidder may submit the response in case there is no error.

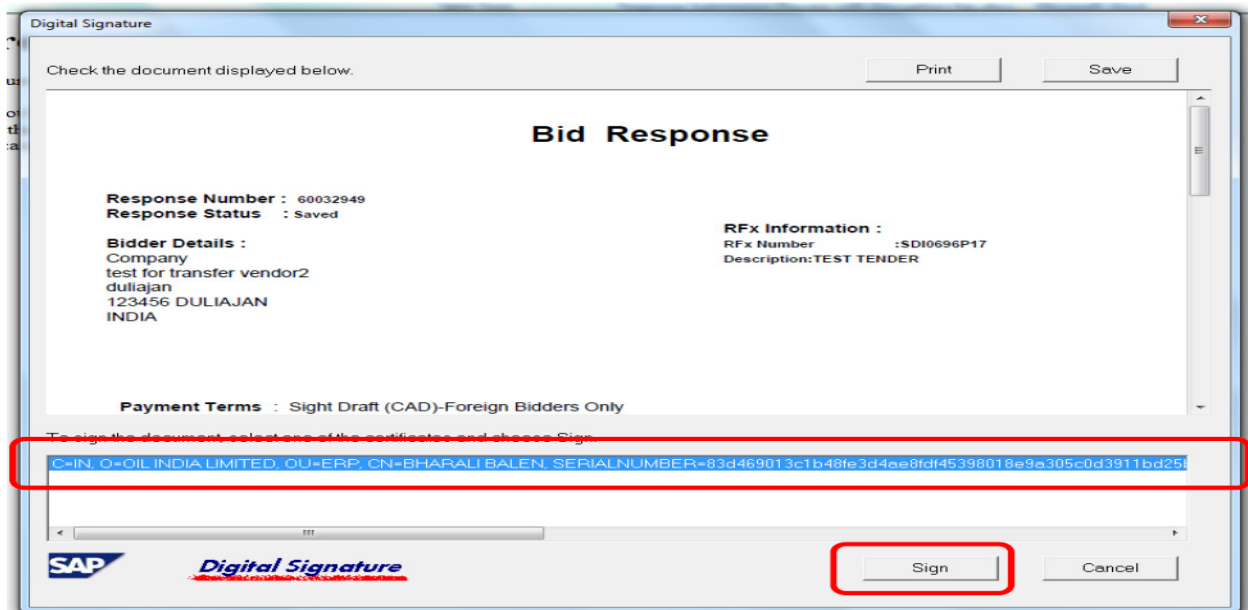


- K. Click on '**Submit**' button

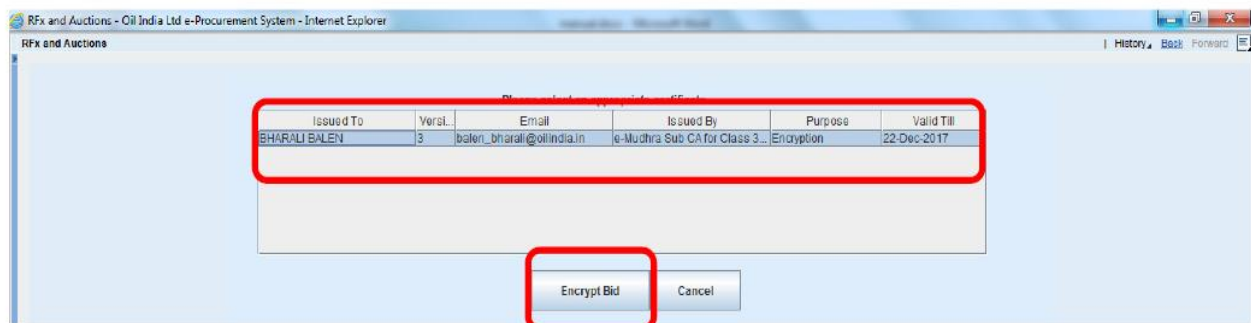


Before submit, Please do check all the documents uploaded and on-line data maintained are correct.

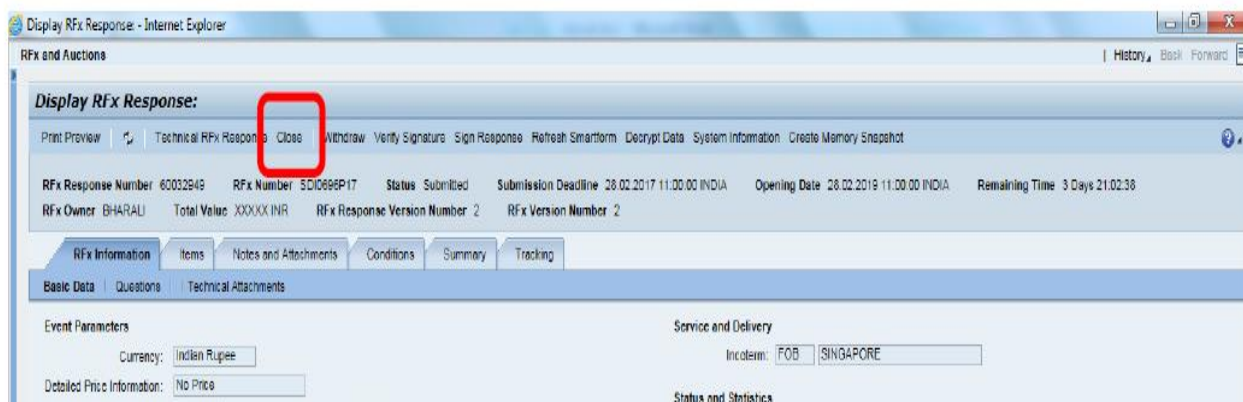
L. After Clicking '**Submit**' below pop up will open. Select Digital Signature & **Sign**.



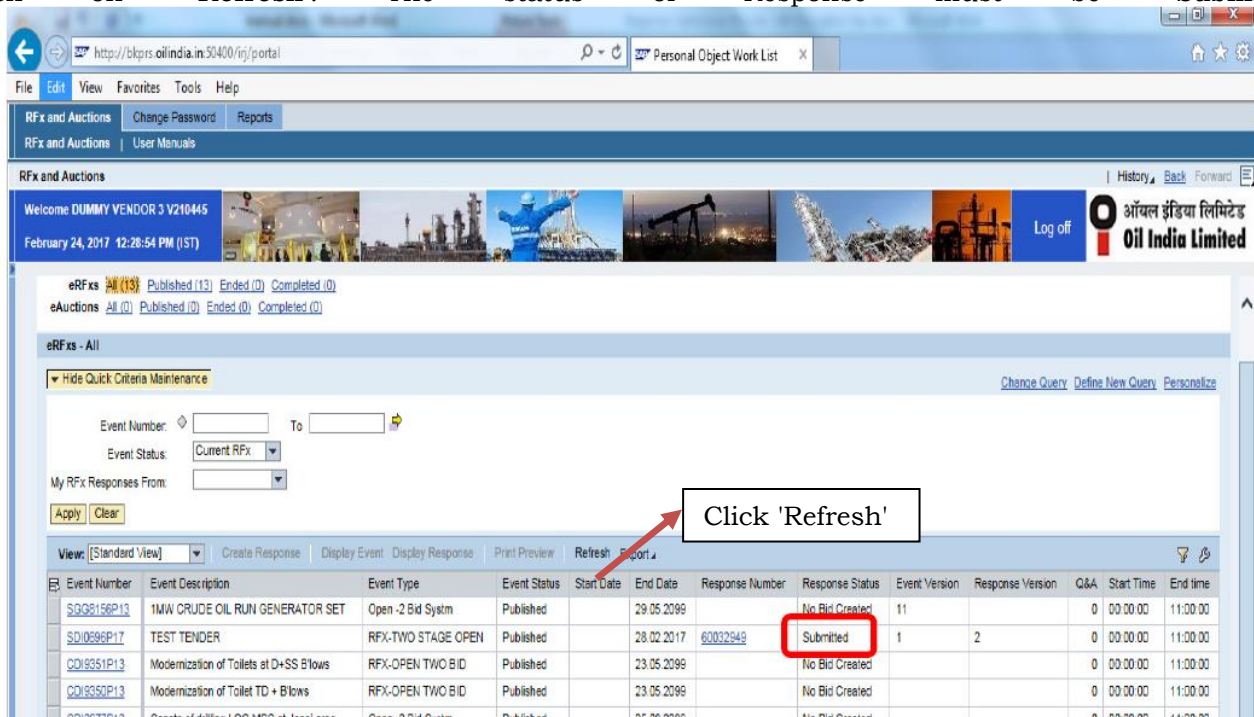
M. After Signing the response has to be encrypted again. Select the encryption certificate and **Encrypt Bid**.



N. Click '**Close**'



O. Click on **'Refresh'**. The status of Response must be **'Submitted'**



This is the end of **Response submission with Encryption key** process.

34.0 OIL now looks forward for your active participation in the tender.

DGM-Contracts (Civil)
For CGM-CONTRACTS (HOD)
For RESIDENT CHIEF EXECUTIVE

BID EVALUATION CRITERIA (BEC)/BID REJECTION CRITERIA (BRC)**(A). BID EVALUATION CRITERIA (BEC):**

1.0 The bid shall conform generally to the specifications and terms and conditions given in the Tender Documents. Bids will be rejected in case services offered do not conform to the required parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bid to the stipulated specifications, the following mandatory requirements will have to be particularly met by the bidders without which the same will be considered as non-responsive and rejected. All the documents related to **BEC** must be submitted along with the Techno-Commercial Bid.

2.0 Interested bidders shall have to submit the following documents to qualify for the tender:

2.1 Work Experience Criteria

- a) One successfully completed **similar work*** of minimum value of ₹ **2,20,62,000.00** under tender with CPWD, Railways, APWD, MES, NRL, ONGCL, OIL or any other Government Organization / Public Sector Undertaking during the last seven (07) years **reckoned from the original bid closing date**.
- b) For proof of requisite experience of **similar work***, Job Completion Certificate clearly mentioning Gross value of job done (**not less than ₹ 2,20,62,000.00**), Nature of works, Contracts period/ Contract Start and Completion date issued by CPWD, Railways, APWD, MES, NRL, ONGCL, OIL or any other Government Organization / Public Sector Undertaking must be submitted along with the bid.
- c) **Similar work*** executed by a bidder for its own organization / subsidiary will not be considered as experience for the purpose of meeting BEC.

Notes to Clause no. 2.1 above:

***Similar work mentioned above means experience in:**

1. Construction of R.C.C. building
Or
2. Construction of steel Bridge
Or
3. Construction of Steel Structured Building

2.2 Financial Criteria

- a) Annual Financial Turnover of the bidder during **any of preceding three financial / accounting years from the original bid closing date** should be at least ₹ **95,61,000.00**.
- b) **Net worth** of bidder must be positive for preceding financial/ accounting year.

Note: The Net worth to be considered against the clause above, should be read in conjunction with the definition of Net worth as mentioned in Section 2 (57) of The Companies Act, 2013.

- c) i) Considering the time required for preparation of Financial Statements, if the last date of preceding financial/accounting year falls within the preceding six months reckoned from the original bid closing date/ within the due date for furnishing of audit report as per Section 139(1) of IT Act, 1961 (read along with latest circulars/notifications issued by CBDT from time to time) and the Financial Statements of the preceding financial/accounting year are not available with the bidder, then the financial turnover of the previous three financial /accounting years excluding the preceding financial/accounting year will be considered. In such cases, the Net worth of the previous financial/accounting year excluding the preceding financial/accounting year will be considered. However, the bidder has to submit an undertaking in support of the same along with their technical bid as per **Annexure-VII**.

- ii) In case of non-submission of the Undertaking within the bid closing date and time, bid shall be rejected straightway and no further claim shall be entertained after the bid closing date.
- d) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-
- i) A certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in **Annexure-II**.
- OR**
- ii) Audited Balance Sheet along with Profit & Loss account.
- e) Mention of UDIN (Unique Document Identification Number) is mandatory for all certificates, tax audit reports etc. issued by Chartered Accountant as per the notifications issued by the Institutes of Chartered Accountant of India (ICAI). Certificates, tax audit reports etc. without mentioning of UDIN shall not be considered for evaluation and shall be summarily rejected. No further clarification or request from bidders shall be entertained thereafter in this regard.
- f) In case the bidder is Central Govt. organization/ PSU/ State Govt. organization/ Semi-State Govt. Organization or any other Central/ State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder has to provide documentary evidence for the same.

3.0 Electrical Work Experience Criteria:

- a) The bidder or their collaborators / consortium partner must have experience in permanent nature of electrification works in Commercial/Residential/Industrial building/godowns/premises of PSU/Central Govt./State Govt./Public Limited Company during the last 7(seven) years reckoned from the original bid closing date. The bidder or their collaborators / consortium partner must submit documentary evidences such as
- i. Purchase Order/Work Order/Signed Contract Copy(s), and
- ii. Invoice with Payment receipt/ performance certificate /completion certificate/ any other documents which substantiate completion of the work.
- b) The bidder shall have a valid Electrical Contractor's License, till the date of bid closing, issued by Electrical Licensing board, Govt. of Assam/ any other State Government Electrical Licensing Board of India or shall form a consortium / tie-up / collaboration with an Electrical contractor, having required technical credentials as described in Point No. a) above and holding valid Electrical Contractor's License issued by Electrical Licensing board, Govt. of Assam/ any other State Government Electrical Licensing Board of India for executing the jobs. In support of the above the bidder shall submit a copy of Electrical Contractor's License of the Bidder or their collaborators / consortium partner.

4.0 Commercial Evaluation Criteria

- a) Bids must be valid for minimum **90 (Ninety) days** from the actual date of Bid closing. If bidder does not submit / declare bid validity period, it will be presumed that the bid validity is **90 (Ninety) days**.
- b) **Bid Security** must be furnished (except those exempted) as a part of the Techno-Commercial Un-priced Bid. **The amount of bid security should be as specified in the NIT**. Any bid not accompanied by a proper bid security will be rejected straightway.

Note:

- (i) In case the Bidder submits Bid security in the form of Bank Guarantee (BG), the BG must be valid for **minimum 120 days** from the original bid closing date.

(ii) In case of extension of Bid closing/ Opening Date, Bid Security validity should be extended suitably by the bidder, as and when advised by OIL.

- c) OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Part-VI of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be uploaded by the bidder (along with the Un-priced Techno-Commercial Bid).-Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact have been signed by the bidder's authorized signatory who sign the Bid. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway.
- d) The bidders **must have Encryption Certificate along with Digital Signature Certificate (DSC) of Class 3 [Organization Type]** to upload all the documents. If the **Digital Signature Certificate (DSC)** used for signing is not of "**Class -3**" & Organizational type with Organization's name in the name of the bidder i.e. firm's name, the bid will be rejected.

Note: Only in case of sole proprietorship firms, Digital Signature Certificates issued in the name of the proprietor is also acceptable provided the bid is submitted in the capacity of a proprietorship firm.

e) **Purchase Preference Policy- Linked with Local Content (PP-LC)**

Purchase Preference Policy- Linked with Local Content (PP-LC) as notified vide Letter No. FP-20013/2/2017-FP-PNG dated 17th November, 2020 of MoPNG shall be applicable in this tender.

Only 'Class-I local supplier' shall be eligible to bid against this tender. 'Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50% as defined under this policy. To establish their status as class-I local supplier, it is mandatory for the bidders to give adequate documentation along with the technical bid as follows:

- The bidder shall provide the percentage of local content through an undertaking in their letterhead as per format prescribed in **Annexure-IV** from the authorised signatory of bidder having the power of Attorney along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.

5.0 The bidders must submit documentary evidence for BEC Clauses 2.1 & 2.2 above. All the documents should be legible.

6.0 Non-submission of the documents as specified in all the paragraphs above will result in rejection of bids.

7.0 Price Evaluation Criteria

- a) While submitting responses against the tender in e-tender portal, bidders must fill up the "Total Bid Value" (under RFx Information > Basic Data > Total Bid Value), taking account of all liabilities including statutory liabilities in their quoted price (excluding PF and GST). The price quoted under the "Total Bid Value" should be within the range of "At Par" to "+10%" of Company's Internal Estimate. Bids with overall quoted price as indicated in the "Total Bid Value" (under RFx Information > Basic Data > Total Bid Value) below "at par" and above "10%" of Company's Internal Estimate will be rejected straightway.
- b) Company shall evaluate the inter-se-ranking of the bidders and conduct Draw of Lots amongst the eligible bidders in case of identical bidding, strictly as per the overall quoted price under the "Total Bid Value" (under RFx Information > Basic Data > Total Bid Value) and awarding of contract shall be done accordingly.
- c) It is the responsibility of the bidder to fill up the "Total Bid Value" (under RFx Information > Basic Data > Total Bid Value) correctly as per the instructions given herein. OIL INDIA LTD accepts no

liability of any nature resulting from any calculation error or omissions while filling up the “Total Bid Value” (under RFx Information > Basic Data > Total Bid Value) by the bidders and no claim whatsoever shall be entertained thereof.

Note:

- a) The Company's Internal Estimated Rates, as indicated in Part-II, are inclusive of all overheads, taxes, duties, levies etc. except P.F. & GST.
- b) Bidder must include all impale plant, labour, supervision, materials, erection of display board, sign/caution board, insurance, profit, taxes and duties, together with all general risks, liabilities in their quoted rates excluding PF and GST.

8.0 The bids conforming to the specifications, terms and conditions stipulated in the tender documents and considered to be responsive will be evaluated as per the procedure mentioned below:

- a) Bid will be opened on schedule date & time as specified in the NIT and all the bids where the bidders have quoted the lowest price (within the permissible percentage as per NIT) under the **“Total Bid Value” tab** in e-tender portal will be selected for conducting Draw of Lots (DoL). DoL will be conducted within a short period after Bid Closing Date. In the DoL, 7 (seven) numbers of bidders will be selected first, in the order of B-1 (Bidder-1), B-2 B-3, B-4, B-5, B-6 and B-7. The technical and commercial scrutiny will be carried out for these seven bidders only. If the bid of bidder B-1 is found to be technically and commercially qualified, B-1 will be the successful bidder (Priority-1 bidder) and the contract will be awarded to B-1. If B-1 is not found to be technically & commercially qualified but B-2 is technically and commercially qualified, B-2 will be awarded the contract, ---- and so on; i.e. whoever becomes the first technically qualified bidder in the order of B-1 → B-2 → B-3 → B-4 → B-5 → B-6 → B-7, will be the successful bidder (P-1). In this way, P-1 (Priority-1) and P-2 bidders will be selected. The contract will be awarded to the P-1 bidder only. However, in case the bidder P-1 is not able to carry out the job due to any reason, P-2 may be awarded the job, if the same is approved by Company's competent authority. In case, none of these seven bidders are found to be techno-commercially acceptable, the draw of Lot will be again conducted to select 7 more bidders as B-8 to B-14 and similar steps will be followed thereon as explained above. The system of conducting further draw of lots will be followed till a technically acceptable bidder is selected.
- b) Bidder should note that deficit documents will not be sought from the bidders. The bids will be evaluated as per the documents received from the bidders at the time of bid opening. Any bid, which is not supported with the requisite documents as per the NIT, will be rejected straightway without seeking any further clarification and deficit document.

(B). BID REJECTION CRITERIA (BRC):

1. The bids are to be submitted in single stage under composite bid system i.e. Un-priced Techno-Commercial Bid and Price Bid together. The overall price should be quoted under the “Total Bid Value” tab in the e-tender portal taking into account all liabilities including statutory liabilities in their quoted price (excluding PF and GST). The bidder must also upload the PROFORMA-I digitally signed without any input/ alteration from their end in the PROFORMA-I under the “Notes and Attachments” tab.
2. Bid security shall be furnished as a part of the Techno Commercial Un-priced Bid. The amount of bid security should be as specified in the NIT. Any bid not accompanied by a proper bid security will be summarily rejected.
3. Bid Documents / User Id & Password for OIL's E-Tender portal are not transferable.
4. Any bid received in the form of Physical document/ Telex/Cable/Fax/E-mail will not be accepted.
5. Bidders must quote their total price under the “Total Bid Value” (under RFx Information > Basic Data > Total Bid Value) tab within the permissible limit ('at par' to above 10% of Company's Internal Estimate); otherwise the bid will be rejected straightway. If a bidder wants to quote at 'at par' with the Company's Internal Estimate, he must declare the “Total Bid Value” equal to the Internal Estimate mentioned in the Covering Letter. If a bidder wants to quote above the Internal Estimate by certain percentage, he must

declare the "Total Bid Value" equal to the sum of Internal Estimate and the desired percentage of Internal Estimate. If any bidder has quoted the total price above "at par" with Company's Internal Estimate within the permissible range, the percentage quoted above the internal estimate will be calculated and will be loaded accordingly in the rates of each and every items as specified in SOQ.

6. All other techno-commercial documents other than price details to be submitted with Un-priced Techno-Commercial Bid as per tender requirement in the c-Folder link (collaboration link) under "Technical RFx Response" Tab Page only.
7. Bidders must accept and comply with the following provisions as given in the tender document. Deviations to such provisions shall make the bid liable for rejection.
 - a. Firm price
 - b. EMD/Bid Security/Bid Bond
 - c. Scope of work
 - d. Specifications
 - e. Price schedule
 - f. Delivery / completion schedule
 - g. Period of validity of bid
 - h. Liquidated Damages
 - i. Guarantee of material / work
 - j. Arbitration / Resolution of Dispute
 - k. Force Majeure
 - l. Applicable Laws
 - m. Integrity Pact

(C). GENERAL:

- a) Submission of Forged Documents: Bidders should note that Company may verify authenticity of all the documents /certificates / information submitted by the bidder(s) against the tender. In case at any stage of tendering process or Contract execution etc., if it is established that bidder has submitted forged documents / certificates / information towards fulfilment of any of the tender / contract conditions, Company shall immediately reject the bid of such bidder(s) or cancel / terminate the contract and forfeit EMD / SD submitted by the bidder(s), besides taking action as per OIL's Banning Policy dated 6th January 2017, available in the OIL's website.
- b) In case bidder takes exception to any clause of bidding document not covered under BEC/BRC, then the Company has the discretion to load or reject the offer on account of such exception if the bidder does not withdraw / modify the deviation when / as advised by company. The loading so done by the Company will be final and binding on the bidders. No deviation will however be accepted in the clauses covered under BRC.
- c) To ascertain the substantial responsiveness of the bid the Company reserves the right to ask the bidder for clarification in respect of clauses covered under BEC/BRC also and such clarifications fulfilling the BEC/BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be evaluated based on the submission. However, mere submission of such clarification shall not make the offer responsive, unless Company is satisfied with the substantial responsiveness of the offer.
- d) Bidder(s) must note that requisite information/financial values etc. as required in the BEC/BRC & Tender are clearly understandable from the supporting documents submitted by the Bidder(s); otherwise Bids shall be rejected.
- e) OIL will not be responsible for delay, loss or non-receipt of applications for participating in the bid sent by mail and will not entertain any correspondence in this regard.
- f) If any of the clauses in the BEC/BRC contradicts with any of the clauses of the tender document/disclaimer/guideline/user manual/report or any other field displayed in the e-tender portal, the clauses in the BEC/BRC shall prevail.

WORKS CONTRACT

DESCRIPTION OF WORK/SERVICES: Construction of New Fire Service Building including Electrical, Telecommunication & IT works along with Construction of Boundary Wall, Fire Water Pit, Development of frontal area at Moran, Charaideo district. All materials to be supplied by contractor except cement.

GENERAL CONDITIONS OF CONTRACT (GCC)

MEMORANDUM OF AGREEMENT made this _____ day of _____ between OIL INDIA LIMITED a Company incorporated under the Companies Act 1956 and having its Registered Office at Duliajan in the District of Dibrugarh, Assam (hereinafter called Company) of the one part and Shri/Smti _____ and Shri/Smti _____ carrying on business as partners /proprietor under the firm name and style of M/s. _____ with the main Office at _____ in the District of _____ aforesaid (hereinafter called 'Contractor') on the other part.

WITNESSETH:

1. a) The contractor hereby agrees to carry out the work set down in the Schedule of work which forms Part-II of this Contract in accordance with the 1968 General Conditions of Contract of Oil India Limited and General Specifications read in conjunction with any drawings and Particular Specifications & instructions which forms Part-III of the contract utilizing any materials/services as offered by the Company as per Part-IV of the contract at location _____ .

b) In this Contract all words and expressions shall have the same meaning as are respectively assigned to them in the 1968 General Conditions of Contract of Oil India Limited which the Contractor has perused and is fully conversant with before entering into this Contract.

c) The clauses of this contract and of the specifications set out hereunder shall be paramount and in the event of anything herein contained being inconsistent with any term or terms of the 1968 General Conditions of Contract of Oil India Limited, the said term or terms of the 1968 General conditions of Contract to the extent of such inconsistency, and no further, shall not be binding on the parties hereto.

2. i) The contractor shall provide all labour, supervision and transport and such specified materials described in Part-II of the Contract including tools and plants as necessary for the work and shall be responsible for all royalties and other levies and his rates shall include for these. The work executed and materials supplied shall be to the satisfaction of the Company's Engineer and Contractor's rates shall include for all incidental and contingent work which although not specifically mentioned in this contract are necessary for its completion in a sound and workman like manner.

ii) Contractor shall have to produce the valid certificates (Forest Royalty Clearance Certificate) from the concerned departments, as per applicable rates toward forest produce under Assam Minor Mineral Concession Rules, 2013 used against the contract to HOD (Civil) prior to processing of final payment. In absence of valid certificates, the final bill shall not be processed.

3. The Company's Engineer shall have power to:

a) Reduce the rates at which payments shall be made if the quality of work although acceptable is not up to the required standard set forth in the OIL Standard Specifications which have been perused and fully understood by the Contractor.

b) Order the Contractor to remove any inferior material from the site and to demolish or rectify any work of inferior workmanship, failing which the Company's Engineer may arrange for any such work to be demolished or rectified by any other means at the Contractor's expenses.

c) Order the Contractor to remove or replace any workman/ supervisor/ engineer/ project-in-charge or any other contractor's personnel who he (The Engineer) considers incompetent or unsuitable; the Engineer's opinion as to the competence and suitability of any personnel engaged by the Contractor shall be final and binding on the Contractor.

d) Issue to the Contractor from time to time during the progress of the work such further drawings and instructions as shall be necessary for the purpose of proper and adequate execution and maintenance of the works and the Contractor shall carry out and be bound by the same.

e) Order deviations in Part II and III of this Contract. All such deviation orders shall be in writing and shall show the financial effect, if any, of such deviation and whether any extra time is to be allowed. The rates to be applied for such Deviation Order shall be the same for those appearing in Company's Schedule of Rate in force on the date of issue of such Deviation Order, to which the contractor has no objection.

4. The Contractor shall have no claim against the Company in respect of any work which may be withdrawn but only for work actually completed under this contract. The contractor shall have no objection to carry out work

in excess of the quantities and items stipulated in Part-II (SOQ). In case of positive variation in quantities of any items from the quantity mentioned in the tender / contract, the contractor will have to carry out the positive varied quantity at the contract rate, or the internally estimated rate, whichever is lower.

However, during the actual execution of the contract, if the contract is to be utilised in a different zone due to Company's operational requirement, and accordingly if the rates of the contractual items are different as in OIL's Schedule of Rates (SOR), then the rates as per the actual zone of execution will be applicable for the contractual items and shall be adopted from the same OIL's SOR which has been adopted in the tender. In that case, the rates shall be applicable for both the contractual quantities as well as for the additional quantities, if required to be executed.

If any additional items (items not covered in the tender / contract) are required to be executed during actual execution of works, the payment of such items shall be made as per the rates of OIL Schedule of Rates (SOR) prevailing in the working zone (the zone where the contract is utilized) at the time of issuance of advice by Company to execute such additional items.

5. The Company reserves the right to cancel this Contract at any time upon full payment of work done and the value of the materials collected by the contractor for permanent incorporation in the work under this contract particularly for execution of this contract up to the date of cancellation of the Contract. The valuation of the work done and the materials collected shall be estimated by the company's Engineer in presence of the contractor. The Contractor shall have no claim to any further payment whatsoever. The valuation would be carried out exparte if Contractor fails to turn up despite reasonable notice which will be binding on the Contractor.

6. The Contractor hereby undertakes to indemnify the Company against all claims which may arise under the under noted Acts:-

- I. The Mines Act.
- II. The Minimum Wages Act, 1948.
- III. The Workman's Compensation Act, 1923.
- IV. The Payment of wages Act, 1936.
- V. The Payment of Bonus Act, 1965.
- VI. The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed there under.
- VII. Employees' Pension Scheme, 1995.
- VIII. Inter-State Migrant (Regulation of Employment and Condition of Service) Act. 1979.
- IX. The Employees Provident Fund and Miscellaneous Provisions Act, 1952.
- X. Goods and Service Tax (GST) Law,

or any other Acts or Statute not here in above specifically mentioned having bearing over engagement of workers directly or indirectly for execution of work. The Contractor shall not make the Company liable to reimburse the Contractor for the statutory increase in the wage rates of the Contract Labour appointed by the Contractor. Such Statutory increase in the wage rates of Contract Labour shall be borne by the contractor.

7. The Contractor shall clear away all rubbish and surplus material from the site on completion of work and shall leave the site clean and tidy.

8. The Contractor must complete the work within **72** weeks of the written order to commence work. During the currency of the job, the work progress must be commensurate with the time elapsed. In the event of any delay on the contractor's part, he/she will be liable to pay to the company liquidated damages at the rate of 1/2% (Half percent) per week of the contract price of the item(s) delayed in completion and the maximum value of the liquidated damage will be 7.5% of the contract price of the item(s) delayed provided the item(s) delayed are not critical for commissioning and final utilization of the work. If, however, the item(s) delayed in completion are critical for commissioning and final utilisation of the work then the contractor will be liable to pay liquidated damages by way of penalty at the rate of 1/2% (Half percent) per week of delay of the total contract cost subject to a maximum of 7.5% of total contract cost.

The HOD-Civil's certificate as to the criticality or otherwise of an item shall be final.

The payment of liquidated damages/penalty may be reduced or waived at the sole discretion of the Company whose decision in this regard will be final.

In the event of there being undue delay in execution of the Contract, the Company reserves the right to cancel the Contract and / or levy such additional damages as it deems fit based on the actual loss suffered by the company attributable to such delay. The company's decision in this regard shall be final.

9. In order to promote, safeguard and facilitate the general operational economic in the interest of the Company during the continuance of this contract the Contractor hereby agrees and undertakes not to take any direct or indirect interest and or support, assist, maintain or help any person or persons engaged in antisocial activities, demonstration, riots, or in any agitation prejudicial to the Company's interest and any such even taking shape or form at any place of the Company's works or and its neighbourhood.

10. The tendered all-inclusive Price (i.e. the Contract price) is ₹ _____ **(Not to be filled up by bidder while submitting the offer in c-Folder. This figure will be filled up by OIL at the time of award of the contract to the successful bidder.)** (₹ _____ only)

but the Company shall pay the Contractor only for actual work done at the all inclusive rates set down in the Schedule of work part II of this Contract.

On account payment may be made, not oftener than monthly, up to the amount of 97% of the value of work done. Final payment will be made only after satisfactory completion of the work. Such final payment shall be based on the work actually done allowing for deviations and any deductions and the measurement shall be checked and certified correct by the Company's Engineer before any such final payment is made.

11. The contractor employing 20 (twenty) or more workmen on any day preceding 12 months shall be required to obtain requisite licence at his cost from the appropriate Licensing Officer before undertaking any Contract work. The Contractor shall also observe the rules & regulations framed under the Contract Labour (Regulation & Abolition) Act.

12. Wages shall be paid by the Contractor to the workmen directly without any intervention of any Jamadars or Thekaders and that the Contractor shall ensure that no amount by way of commission or otherwise be deducted/recovered by the Jamadar from the wages of the workmen.

13. The Company for any reason whatsoever and of which the company shall be sole judge may terminate this Contract with a 24 hours notice in writing to the Contractor and in the event of Company's so doing the clause 5 here of shall prevail and the accounts between the parties will be in accordance therewith finalised.

14. The Contractor will not be allowed to construct any structure (for storage / housing purpose) with thatch, bamboo or any other inflammable materials within any company's fenced area.

15. The Contractor shall ensure that all men engaged by him/her are provided with appropriate protective clothing and safety wear in accordance with the Oil Mines Regulations 2017. The Company's representative shall not allow/accept those men who are not provided with the same.

16. All Statutory taxes levied by the Central and State Government or any other competent authority from time to time, except PF & GST, will be borne by Contractor and the contract cost is inclusive of all tax liabilities except PF & GST. However, any subsequent increase in such statutory taxes after bid opening day will be borne by the Company. Similarly if there is any decrease in such statutory taxes after bid opening, the Company shall recover the decreased amount of such taxes from the contractor.

17. The Contractor shall deploy local persons in all works.

18. The Contractor shall not engage minor labour below 18(eighteen) years of age under any circumstances.

19. The Contractor and his/her workmen shall strictly observe the rules and regulations as per Mines Act (Latest editions).

20. SPECIAL CONDITIONS:

a) The Contractor shall obtain and submit the Labour Clearance Advice (LCA) / Labour Clearance Certificate (LCC) within 14 days of signing the contract agreement. If the contractor fails to submit the LCA / LCC within 14 days of signing the contract agreement, the period of delay in submission of LCA / LCC shall be deducted from the contractual period while issuing the work order. In such cases, the time period mentioned in Clause No. 8 of GCC (Part-I of this contract) shall not be applicable and the contractor must complete the work within the reduced time period allotted to the contractor as per the work order issued.

However, if submission of LCA / LCC is delayed, under some exceptional circumstances, for any reason not attributable to the contractor, the same should be recorded by the contractor with documentary proof. In such cases, the decision as to whether the reason of delay is attributable to the contractor or not shall be taken by the Head of Civil Engineering Department and the work order will be issued accordingly.

b) Retention Money @ 3 % will be kept as Performance Security Deposit against the contract and will be deducted from the running bill. The amount of retention money shall be released after 6(six) months from the actual date of completion of the work. A part or whole of retention money shall be used by the Company in realisation of liquidated damage or claims, if any, or for adjustment of compensation or loss due to the Company for any reason. The retention money shall not earn any interest.

c) The contractor will be required to allow OIL Officials to inspect the work site and documents in respect of the workers' payment.

d) Contractor(s) whosoever is liable to be covered under the P.F. Act must ensure strict compliance of provisions of the Employees Provident Fund and Miscellaneous Provisions Act, 1952 in addition to the various Acts mentioned elsewhere in this contract. Any contractor found violating these provisions will render themselves disqualified from any future tendering. As per terms of the contract, if applicable, the Contractor must deposit Provident Fund Contribution (covering Employee's & employer's share) with the competent authority monthly under their direct

code. 12% P.F. will be applicable on the wage component of the contract cost. Wage component of the Contract cost is 22.59 %.

Contract Cost excluding PF: The P.F deposited by the Contractor, will be reimbursed on production of documentary evidence of depositing the same to the authority concerned.

Contract Cost including PF: The Contractor shall be required to submit documentary evidence of deposit of P.F. Contribution to the Company. In case of failure to provide such documentary evidence, the Company reserves the right to withhold the amount equivalent to P.F. Contribution on wage component.

- e) All safety precautions to be maintained by the Contractor at his own cost as per safety rules and regulations.
- f) The Contractor shall use pump if needed for dewatering of pit while excavation for which no extra payment will be made.
- g) The Contractor shall have to work during rainy seasons also.
- h) Watch and ward, loss or damage to Company's property, theft and other incidental charges shall be Contractor's responsibility.
- i) Efficient workmen to be engaged by the Contractor.
- j) The Contractor's representative should report to Engineer-in-charge on all working days at 7.00 A.M. and 3.00 P.M. for instructions.
- k) Materials if rejected should be removed from site within 48 (forty- eight) hours of rejection, failing which the Company reserves the right to get the rejected materials removed at the risk and cost of the Contractor.
- l) The Company reserves the right to get the part or whole work complete at the risk and cost of the Contractor if he fails to complete the work within the stipulated time without any valid reason. The Company's decision shall be final and binding on the Contractor.
- m) Water that may accumulate on the site during progress of the works or in trenches and excavations from other than accepted risks shall be removed from the site to entire satisfaction of the Engineer-in-charge and at the Contractor's expense.
- n) The Contractor shall be in a position to execute 2(two) locations simultaneously.
- o) If required, the Contractor shall have to work in two shifts for which no extra payment will be admissible to him/them.
- p) If needed water and electricity will have to be arranged by the Contractor at his own cost.
- q) The Contractor and his workmen are to strictly observe the safety precautionary rules as per Mines Act (Latest edition) while executing the work.
- r) The Contractor shall have to provide temporary latrine facilities in the entire work site for use of their workmen during progress of work.
- s) The contractor himself (the signatory of the contract) must visit the site at least twice in a week as fixed for taking necessary instruction from the Engineer-in charge.
- t) The program of works to be submitted in the form of Bar Chart within 3 days of receipt of work order.

21. SPECIAL INSTRUCTION

The contractor must quote considering the prevailing minimum Labour wage rate for each day of work.

22. GOODS AND SERVICES TAX (GST) CLAUSES UNDER GCC

22.1 GENERAL REMARKS ON TAXES & DUTIES:

In view of **GST** Implementation from 1st July 2017, all taxes and duties including Excise Duty, CST/VAT, Service tax, Entry Tax and other indirect taxes and duties have been submerged in **GST**. Accordingly reference of Excise Duty, Service Tax, VAT, Sales Tax, Entry Tax or any other form of indirect tax except of **GST** mentioned in the bidding document shall be ignored.

- 22.2** Bidders are required to submit copy of the GST Registration Certificate while submitting the bids wherever **GST** (CGST & SGST/UTGST or IGST) is applicable.

- 22.3** “**GST**” shall mean Goods and Services Tax charged on the supply of material(s) and services. The term “**GST**” shall be construed to include the Integrated Goods and Services Tax (hereinafter referred to as “**IGST**”) or Central Goods and Services Tax (hereinafter referred to as “**CGST**”) or State Goods and Services Tax (hereinafter referred to as “**SGST**”) or Union Territory Goods and Services Tax (hereinafter referred to as “**UTGST**”) depending upon the import / interstate or intrastate supplies, as the case may be. It shall also mean GST compensation Cess, if applicable.
- 22.4** Quoted price/rate(s) should be inclusive of all taxes and duties, except **GST (i.e. IGST or CGST and SGST/UTGST applicable in case of interstate supply or intra state supply respectively and cess on GST if applicable) on the final service**. Please note that the responsibility of payment of GST (CGST & SGST or IGST or UTGST) lies with the Supplier of Goods /Services (Service Provider) only. Supplier of Goods / Services (Service Provider) providing taxable service shall issue an Invoice/ Bill, as the case may be as per rules/ regulation of **GST**. Further, returns and details required to be filed under GST laws & rules should be timely filed by Supplier of Goods / Services (Service Provider) with requisite details.
- 22.5 Where OIL is entitled to avail the input tax credit of GST:**
OIL will reimburse the **GST** to the Supplier of Goods / Services (Service Provider) at actuals against submission of Invoices as per format specified in rules/ regulation of GST to enable OIL to claim input tax credit of **GST** paid. In case of any variation in the executed quantities, the amount on which the **GST** is applicable shall be modified in same proportion. Returns and details required to be filed under GST laws & rules should be timely filed by supplier with requisite details.
- 22.6 Where OIL is not entitled to avail/take the full input tax credit of GST:**
OIL will reimburse **GST** to the Supplier of Goods / Services (Service Provider) at actuals against submission of Invoices as per format specified in rules/ regulation of **GST**.
- 22.7** Payments to Service Provider for claiming **GST** amount will be made provided the above formalities are fulfilled. Further, OIL may seek copies of challan and certificate from Chartered Accountant for deposit of **GST** collected from OIL.
- 22.8** Contractor/vendor shall be required to issue tax invoice in accordance with GST Act and/or Rules so that input credit can be availed by OIL. In the event that the contractor / vendor fails to provide the invoice in the form and manner prescribed under the GST Act read with GST Invoicing Rules thereunder, OIL shall not be liable to make any payment on account of **GST** against such invoice.
- 22.9** **GST** shall be paid against receipt of tax invoice and proof of payment of **GST** to government. In case of non-receipt of tax invoice or non-payment of **GST** by the contractor/vendor, OIL shall withhold the payment of **GST**.
- 22.10** **GST** payable under reverse charge mechanism for specified services or goods under GST act or rules, if any, shall not be paid to the contractor/vendor but will be directly deposited to the government by OIL.
- 22.11** Where OIL has the obligation to discharge **GST** liability under reverse charge mechanism and OIL has paid or is /liable to pay **GST** to the Government on which interest or penalties becomes payable as per GST laws for any reason which is not attributable to OIL or ITC with respect to such payments is not available to OIL for any reason which is not attributable to OIL, then OIL shall be entitled to deduct/ setoff / recover such amounts against any amounts paid or payable by OIL to Contractor / Supplier.
- 22.12** Notwithstanding anything contained anywhere in the Agreement, in the event that the input tax credit of the **GST** charged by the Contractor / Vendor is denied by the tax authorities to OIL for reasons attributable to Contractor / Vendor, OIL shall be entitled to recover such amount from the Contractor / Vendor by way of adjustment from the next invoice. In addition to the amount of **GST**, OIL shall also be entitled to recover interest at the rate prescribed under GST Act and penalty, in case any penalty is imposed by the tax authorities on OIL.
- 22.13** TDS under GST, if applicable, shall be deducted from contractor’s/vendor’s bill at applicable rate and a certificate as per rules for tax so deducted shall be provided to the contractor/vendor.
- 22.14** The Contractor will be under obligation for charging correct rate of tax as prescribed under the respective tax laws. Further the Contractor shall avail and pass on benefits of all exemptions/concessions available under tax laws. Any error of interpretation of applicability of taxes/ duties by the contractor shall be to contractor’s account.
- 22.15** Further, it is the responsibility of the bidders to make all possible efforts to make their accounting / IT system GST compliant in order to ensure availability of Input Tax Credit (ITC) to Oil India Ltd.
- 22.16** Beyond the contract period, in case OIL is not entitled for input tax credit of **GST**, then any increase in the rate of **GST** beyond the contractual delivery period (in case the delay is attributable to the service provider),

shall be to Service provider's account whereas any decrease in the rate of **GST** shall be passed on to the OIL.

Beyond the contract period, in case OIL is entitled for input tax credit of **GST**, then statutory variation in applicable **GST** on supply and on incidental services, shall be to OIL's account.

Claim for payment of **GST**/ Statutory variation, should be raised within two [02] months from the date of issue of 'Government Notification' for payment of differential (in %) **GST**, otherwise claim in respect of above shall not be entertained for payment of arrears.

22.17 The contractor will be liable to ensure to have registered with the respective tax authorities, wherever applicable, and to submit self-attested copy of such registration certificate(s) and the Contractor will be responsible for procurement of material in its own registration (GSTIN) and also to issue its own Road Permit/ E-way Bill, if applicable etc.

22.18 Documentation requirement for GST

The vendor will be under the obligation for invoicing correct tax rate of tax/duties as prescribed under the GST law to OIL, and pass on the benefits, if any, after availing input tax credit.

Any invoice issued shall contain the following particulars

- a) Name, address and GSTIN of the supplier;
- b) Serial number of the invoice;
- c) Date of issue;
- d) Name, address and GSTIN or UIN, if registered of the recipient;
- e) Name and address of the recipient and the address of the delivery, along with the State and its code,
- f) HSN code of goods or Accounting Code of services[SAC];
- g) Description of goods or services;
- h) Quantity in case of goods and unit or Unique Quantity Code thereof;
- i) Total value of supply of goods or services or both;
- j) Taxable value of supply of goods or services or both taking into discount or abatement if any;
- k) Rate of tax (IGST,CGST, SGST/ UTGST, cess);
- l) Amount of tax charged in respect of taxable goods or services (IGST,CGST, SGST/UTGST, cess);
- m) Place of supply along with the name of State, in case of supply in the course of interstate trade or commerce;
- n) Address of the delivery where the same is different from the place of supply and
- o) Signature or digital signature of the supplier or his authorised representative.

GST invoice shall be prepared in triplicate, in case of supply of goods, in the following manner

- i. The original copy being marked as ORIGINAL FOR RECIPIENT;
- ii. The duplicate copy being marked as DUPLICATE FOR TRANSPORTER and
- iii. The triplicate copy being marked as TRIPLICATE FOR SUPPLIER.

22.19 ANTI-PROFITEERING CLAUSE

In case the GST rating of vendor on the GST portal / Govt. official website is negative / black listed, then the bids may be rejected by OIL. Further, in case rating of bidder is negative / black listed after award of work for supply of goods / services, then OIL shall not be obligated or liable to pay or reimburse GST to such vendor and shall also be entitled to deduct / recover such GST along with all penalties / interest, if any, incurred by OIL.

22.20 OIL will prefer to deal with registered bidder under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet.

23. SETTLEMENT OF DISPUTES:

23.1 Arbitration (Applicable for Suppliers/CONTRACTORs other than PSU and MSME):

1. Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties are unable to settle mutually, the same shall be referred to Arbitration as provided hereunder:
2. A party wishing to commence arbitration proceeding shall invoke Arbitration Clause by giving 30 days notice to the other party. The notice invoking arbitration shall specify all the points of dispute with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter. If the claim is in foreign currency, the claimant shall indicate its value in Indian Rupee for the purpose of constitution of the arbitral tribunal.

3. It is agreed and undertaken by the Parties that irrespective of country of origin of the CONTRACTOR, the arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996 and under no circumstances, the proceedings shall be construed as International Arbitration.

4. The number of arbitrators and the appointing authority will be as under:

Claim amount (excluding claim for interest and counter claim, if any)	Number of Arbitrator	Appointing Authority
Upto Rs.25.00 Lakh	Not applicable	Not applicable
Above Rs.25.00 Lakh Upto Rs.25 Crore	Sole Arbitrator	OIL
Above Rs.25 Crore	3 Arbitrators	One Arbitrator by each party and the 3 rd Arbitrator, who shall be the presiding Arbitrator, by the two Arbitrators.

5. The parties agree that they shall appoint only those persons as arbitrators who accept the conditions of the arbitration clause. No person shall be appointed as Arbitrator or Presiding Arbitrator who does not accept the conditions of the arbitration clause.
6. If any of the Arbitrators so appointed dies, resigns, becomes incapacitated or withdraws for any reason from the proceedings, it shall be lawful for the concerned party/arbitrators to appoint another person in his place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his predecessor had left if both parties consent for the same; otherwise, he shall proceed de novo.
7. Parties agree and undertake that neither shall be entitled for any pre-reference or pendent-lite interest on its claims. Parties agree that any claim for such interest made by any party shall be void.
8. The arbitral tribunal shall complete the proceedings, make and publish the award within time stipulated in the Arbitration and Conciliation Act, 1996(as amended).
9. If after commencement of the arbitration proceedings, the parties agree to settle the dispute mutually or refer the dispute to conciliation, the arbitrators shall put the proceedings in abeyance until such period as requested by the parties. Where the proceedings are put in abeyance or terminated on account of mutual settlement of dispute by the parties, the fees payable to the arbitrators shall be determined as under:
- 20% of the fees if the claimant has not submitted statement of claim.
 - 40% of the fees if the pleadings are complete
 - 60% of the fees if the hearing has commenced.
 - 80% of the fees if the hearing is concluded but the award is yet to be passed.
10. Each party shall be responsible to make arrangements for the travel and stay etc. of the arbitrator appointed by it. Claimant shall also be responsible for making arrangements for travel/stay arrangements of the Presiding Arbitrator and the expenses incurred shall be shared equally by the parties.
- In case of sole arbitrator, both parties shall equally share all expenditures that may be required to be incurred.
11. The fees and other administrative/secretarial expenses of the arbitrator(s) shall not exceed the model fee as stipulated in Schedule of the Act and such expenses shall be equally borne by the parties.
12. The Place/Seat of Arbitration shall be Guwahati or the place where the contract is executed. The venue of the arbitration shall be decided by the Arbitrator(s) in discussion with the parties. The cost of arbitration sittings shall be equally borne by the parties.
13. The Arbitrator(s) shall give reasoned and speaking award and it shall be final and binding on the parties.

14. Subject to aforesaid, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof shall apply to the arbitration proceedings under this clause.

23.2 Arbitration (applicable in case of Contract awarded on Public Sector Enterprise):

- a) In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract (s) between Central Public Sector Enterprises (CPSEs) and also between CPSEs and Government Departments/Organizations (excluding disputes -concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD as mentioned in OPE OM No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22-05-2018.
- b) A party wishing to commence arbitration proceeding shall invoke Arbitration Clause and refer the dispute(s) to AMRCD with a copy to the other party. The notice invoking arbitration shall specify all the points of dispute with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter.
- c) Upon such reference, the dispute shall be decided by the Competent Authority appointed under the AMRCD, whose decision shall bind the parties finally and conclusively. The parties in the dispute will share equally the cost of the arbitration as intimated by the Arbitrator.

23.3 Arbitration (Applicable to Micro, Small and Medium Enterprise)

In the event of any dispute or difference relating to, arising from or connected with the Contract, efforts shall be made to resolve the dispute(s) amicably by mutual consultation and in case such dispute(s) cannot be resolved through mutual consultation, then same shall be resolved through the procedure as prescribed in Section-18 of the Micro, Small and Medium Enterprises Development Act, 2006.

23.4 Resolution of disputes through conciliation by OEC

(Not Applicable in cases where value of dispute is less than Rs. 25 Lakh and more than 2 Crore)

If any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties are unable to settle mutually, Company at its discretion, on its own or on the request of the CONTRACTOR, may refer the dispute to Outside Expert Committee ("OEC") to be constituted by Corporate Business Committee (CBC), OIL as provided hereunder:

- a) The party desirous of resorting to conciliation shall send a notice of 30 (thirty) days to the other party of its intention of referring the dispute for resolution through OEC. The notice invoking conciliation shall specify all the points of disputes with details of the amount claimed to be referred to OEC and the party concerned shall not raise any new issue thereafter.
- b) OIL shall nominate three outside experts, one each from Financial/commercial, Technical and Legal fields from the Panel of Outside Experts maintained by OIL who shall together be referred to as OEC (Outside Experts Committee).
- c) Parties shall not claim any interest on claims/counterclaims from the date of notice invoking conciliation till execution of settlement agreement, if so arrived at. In case, parties are unable to reach a settlement, no interest shall be claimed by either party for the period from the date of notice invoking conciliation till the date of OEC recommendations in any further proceeding.
- d) The Proceedings of the OEC shall be broadly governed by Part III of the Arbitration and Conciliation Act, 1996 including any modifications thereof. Notwithstanding above, the proceedings shall be summary in nature and Parties agree to rely only upon documentary evidence in support of their claims and not to bring any oral evidence in the OEC proceedings.
- e) OEC shall hear both the parties and recommend possible terms of settlement between the parties. The recommendations of OEC shall be non-binding and the parties may decide to accept or not to accept the same. Parties shall be at liberty to accept the OEC recommendation with any modification they may deem fit.

- f) Where recommendations are acceptable to both the parties, a settlement agreement will be drawn up in terms of the OEC recommendations or with such modifications as may be agreed upon by the parties. The settlement agreement shall be signed by both the parties and authenticated by all the OEC members either in person or through circulation. This settlement agreement shall have the same legal status and effect as that of an arbitration award on agreed terms on the substance of the dispute rendered by an arbitral tribunal under Section 30 of the Arbitration and Conciliation Act, 1996.
- g) OIL will share all other guidelines regarding reconciliation through OEC with the CONTRACTOR when it resorts to settlement through OEC. Both parties agree to adhere to these guidelines.
- h) All the expenditure incurred in the OEC proceedings shall be shared by the parties in equal proportion. The parties shall maintain account of expenditure and present to the other for the purpose of sharing on conclusion of the OEC proceedings.
- i) The OEC proceedings must be completed within a period of 3(three) months from the date of constitution of the OEC with a provision of extension of one months, subject to mutual agreement. The Place of OEC shall be either at New Delhi or Guwahati.
- j) If the parties are not able to resolve the dispute through OEC or do not opt for conciliation through OEC, the party may invoke arbitration clause as provided in the contract.
- k) The parties shall be represented by their in-house employees/executives. No party shall bring any advocate or outside consultant/advisor/agent. Ex-officers of OIL who have handled the matter in any capacity directly or indirectly shall not be allowed to attend and present the case before OEC on behalf of Contractor. However, ex- employees of parties may represent their respective organizations.
- l) Solicitation or any attempt to bring influence of any kind on either OEC Members or OIL is completely prohibited in conciliation proceedings and OIL reserves the absolute right to close the conciliation proceedings at its sole discretion if it apprehends any kind of such attempt made by the Contractor or its representatives.

23.5 Exclusions

Parties agree that following matters shall not be referred to conciliation or arbitration:

- i) Any claim, difference or dispute relating to, connected with or arising out of OIL's decision to initiate any proceedings for suspension or debarment or banning, or decision to suspend or to ban or to debar business dealings with the bidder/CONTRACTOR and/or with any other person involved or connected or dealing with bid/contract/bidder/CONTRACTOR.
- ii) Any claim, difference or dispute relating to, connected with or arising out of OIL's decision under the provisions of Integrity Pact executed between OIL and the Bidder/CONTRACTOR.
- iii) Any claim, difference or dispute relating to, connected with or arising out of OIL's decision to comply with any order or directive of any statutory or government authority.
- iv) Any claim which is less than Rs. 25 Lakh.

24. FORCE MAJEURE:

In the event of either party being rendered unable by 'Force Majeure' to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such 'Force Majeure' will stand suspended as provided herein. The term force majeure as employed herein shall mean Acts of God such as earthquake, hurricane, typhoon, flood, volcanic activity etc.; war (declared / undeclared); riot, revolts, rebellion, terrorism, sabotage by persons other than the CONTRACTOR's Personnel; fires, explosions, ionising radiation or contamination by radio-activity or noxious gas, if not caused by CONTRACTOR's fault; declared epidemic or disaster; acts and regulations of respective Govt. of the two parties, namely the COMPANY and the CONTRACTOR and civil commotions, lockout not attributable to the CONTRACTOR.

Upon occurrence of such cause, the party claiming that it has been rendered unable as aforesaid thereby, shall notify the other party in writing within 72 (Seventy Two) hours of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of its claim.

Should 'force majeure' condition as stated above occurs and should the same be notified within 72 (Seventy two) hours after its occurrence the 'force majeure' rate (if specified in the SCC of the Contract) shall apply for the first 15 (fifteen) days for each such occasion.

Either party shall have the right to terminate the Contract if such 'force majeure' conditions continue beyond successive 60 (Sixty) days [or exclusively mentioned in the SCC of the Contract] with prior written notice of 15 days, provided termination of the Contract does not result into safety hazard to the life and property on account of withdrawal of operations or the operation is at critical stage. COMPANY shall have the absolute right to decide whether any safety hazard exists or operation is at critical position and decision of the COMPANY shall binding upon the CONTRACTOR.

Should either party decide not to terminate the Contract even under such condition, no payment would apply after expiry of fifteen (15) days force majeure period. [or exclusively mentioned in the SCC of the Contract]

Time for performance of the relative obligation suspended by Force Majeure shall then stand extended by the period for which such cause lasts.

If however, relative obligation of the party affected by such 'Force Majeure' is limited to part of the obligation(s), the contract shall not be terminated and the parties shall continue to perform their respective obligations, which are not affected by the 'force majeure' condition, provided the obligations affected by the 'force majeure' do not preclude the parties in performing the obligations not affected by such conditions.

25. I.B. VERIFICATION REPORT AND SECURITY REVIEW:

Contractor will be required to submit the verification report to ascertain character and antecedents from the Civil Administration towards the persons engaged under this contract to the Head of the user Department before engagement.

26. In case of any doubt or dispute as to the interpretation of any clause herein contained, the decision of the Company's Engineer shall be final and binding on the contractor.

27. SET OFF CLAUSE:

"Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of a sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited)."

28. COMMISSION OF MISCONDUCT / SUBMISSION OF FRAUDULENT DOCUMENT BY THE BIDDER/CONTRACTOR AND BANNING THEREOF: The information and documents furnished by the bidder/CONTRACTOR in respect of the tender/contract are accepted by COMPANY to be true and genuine. However, if it comes to the notice of the COMPANY anytime either during the pendency of the tender or after award of the contract or after completion the contract that a Bidder/CONTRACTOR furnished fraudulent document/false information in relation to the subject tender/contract or committed any misconduct, appropriate action shall be taken against the Bidder/CONTRACTOR for debarment/banning of the bidder/CONTRACTOR from participating in any future tender of the COMPANY in terms of the COMPANY's Banning Policy, 2017 besides making the CONTRACTOR liable for other penal action including termination of ongoing contract(s) at his/her risk and peril. In such event, the Bid Security/Performance Security in respect of ongoing contract(s) shall be forfeited by the COMPANY.

29. ERRING / DEFAULTING AGENCIES: Erring and defaulting agencies like bidder, contractor, supplier, vendor, service provider will be dealt as per OIL's Banning Policy dated 6th January, 2017 available in OIL's website: www.oil-india.com. Moreover, OIL reserves the right to take legal or any other action on the basis of merit of the case.

30. TERMINATION:

- a) **Termination on expiry of the contract:** This Agreement shall be deemed to have been automatically terminated on the expiry of the contract period unless OIL has exercised its option to extend this contract in accordance with the provisions, if any, of this contract.
- b) **Termination of contract for death:** If the CONTRACTOR is an individual or a proprietary concern and the individual or the proprietor dies or if the CONTRACTOR is a partnership concern and one of the partners dies then unless, the COMPANY is satisfied that the legal heir of the individual or the proprietary concern or the surviving partners are capable of carrying out and completing Contract, the COMPANY is entitled to cancel the Contract for the uncompleted part without being in any way liable for any compensation payment to the estate of the deceased CONTRACTOR and/or to the surviving partners of the CONTRACTOR's firm on account of the cancellation of Contract. The decision of the COMPANY in such assessment shall be final & binding on the parties. In the event of such cancellation, the COMPANY shall not hold the estate of the deceased CONTRACTOR and/or the surviving partners of CONTRACTOR's firm liable for any damages for non-completion of the Contract.

- c) **Termination on account of Force Majeure:** Unless the contract provides otherwise, either party shall have the right to terminate this Contract on account of Force Majeure as set forth in Article-24.0 above.
- d) **Termination on account of insolvency:** In the event that the CONTRACTOR or its collaborator or its guarantor at any time during the term of the Contract, becomes insolvent or makes a voluntary assignment of its assets for the benefit of creditors or is adjudged bankrupt or under the process of insolvency or liquidation, then the COMPANY shall, by a notice in writing have the right to terminate the Contract and all the CONTRACTOR's rights and privileges hereunder, shall stand terminated forthwith.

However, COMPANY shall be at liberty to give the Receiver or Liquidator or Insolvency Professional Manager, as appointed by the Competent Court/Tribunal, the option of carrying out the Contract subject to its technical & financial competence and his providing a guarantee for due and faithful performance of the Contract.

- e) **Termination for Unsatisfactory Performance:** If the COMPANY considers that, the performance of the CONTRACTOR is unsatisfactory, or not as per the provision of the Contract, the COMPANY shall notify the CONTRACTOR in writing and specify in details the cause of dissatisfaction. The COMPANY shall have the option to terminate the Contract by giving 15 days' notice in writing to the CONTRACTOR, if CONTRACTOR fails to comply with the requisitions contained in the said written notice issued by the COMPANY. In the event CONTRACTOR rectifies its non-performance to the satisfaction of the COMPANY, the option of termination may not be exercised by the COMPANY. If however CONTRACTOR repeats non-performance subsequently, COMPANY shall exercise the option to terminate contract by giving 07 days' notice. Such CONTRACTOR shall be put on holiday as per the Banning Policy of OIL [available at www.oil-india.in].
- f) **Termination due to change of ownership and Assignment:** In case the CONTRACTOR's rights and /or obligations under this Contract and/or the CONTRACTOR's rights, title and interest to the equipment/material, are transferred or assigned without the COMPANY's written consent, the COMPANY may at its option, terminate this Contract. COMPANY shall not be however under any obligation to accord consent to the CONTRACTOR for change of ownership & assignment of the contract.
- g) If at any time during the term of this Contract, breakdown of CONTRACTOR's equipment results in CONTRACTORS being unable to perform their obligations hereunder for a period of 15 successive days, COMPANY at its option, may terminate this Contract in its entirety or partially to the extent of non-performance, without any further right or obligation on the part of the COMPANY, except for the payment of money then due. No notice shall be served by the COMPANY under the condition stated above.
- h) Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the COMPANY on giving 30 (thirty) days written notice to the CONTRACTOR due to any other reason not covered under the above Article from (a) to (g) and in the event of such termination the COMPANY shall not be liable to pay any cost or damage to the CONTRACTOR except for payment of services as per the Contract upto the date of termination.
- i) **Consequence of Termination:** In all cases of termination herein set forth, the relative obligations of the parties to the Contract shall be limited to the period up to the date of termination. Notwithstanding the termination of this Contract, the parties shall continue to be bound by the provisions of this Contract that reasonably require some action or forbearance after such termination.

Upon termination of this Contract, CONTRACTOR shall return to COMPANY all of COMPANY's properties, which are at the time in CONTRACTOR's possession.

In the event of termination of contract, COMPANY will issue Notice of termination of the contract with date or event after which the contract will be terminated. The contract shall then stand terminated and the CONTRACTOR shall demobilize their personnel & materials. No demobilization charges shall be payable by COMPANY in case of Article from (d) to (g).

- 31. SUB-LETTING:** The contractor shall not sub-let the WHOLE of the Works. Except where otherwise provided by the contract, the Contractor shall not sub-let any PART of the Works without the written consent of the Engineer-in-Charge and such consent, if given, shall not relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults or neglects of any sub-contractor, his agents, servants or workmen, provided always that the provision of labour on a piece-work basis shall not be deemed to be a sub-letting under this Clause.

IN WITNESS thereof, each party has executed this contract at Duliajan, Assam as of the date shown above.

Signed, Sealed and Delivered,

For and on behalf of Contractor	For and on behalf of Company
M/s. _____ Address _____ _____	Oil India Limited Duliajan, Dibrugarh Assam- 786602
Signature _____ Name of Signatory _____	Signature _____ Name of Signatory _____
Seal of Contractor's firm	Seal of Signatory
(In presence of) Signature _____ Name _____	(In presence of) Signature _____ Name _____

WORKS CONTRACT**SCHEDULE OF WORK, UNIT AND QUANTITY**

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
	GROUP A				
	SECTION A				
1	Providing & laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work upto plinth level: 1:3:6 (1 Cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size)	M3	93.40	4971.43	464311.68
2	Supplying and filling in plinth with sand under floors including, watering, ramming consolidating and dressing complete(cost of sand will be paid separately).	M3	194.18	1726.05	335171.29
3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement: 2 Coarse sand) to match the existing floor ,With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	M2	1200.00	168.88	202656.00
4	Providing & laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 12.5mm nominal size).	M2	61.75	265.97	16423.65
5	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand: 6 graded stone aggregate 20 mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	M2	154.80	409.57	63401.44
6	Providing & laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level: 1:1.5:3 (1 cement: 1.5coarse sand : 3 graded stone aggregate 20 mm nominal size)	M3	360.63	5041.53	1818101.76
7	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement: 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size)	M3	85.16	6241.96	531546.59
8	Reinforced cement concrete work in beams, suspended floors, roof shaving slope upto 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1:2:4 (1 cement: 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	M3	326.04	6561.92	2139448.40
9	Centring and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. for mass concrete.	M2	892.42	231.12	206256.80
10	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform.	M2	1620.14	546.66	885665.73
11	Centring and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth beams, girders, bressumers and cantilevers.	M2	531.41	441.04	234372.18

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
12	Centring and shuttering including strutting, propping etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts.	M2	997.73	582.31	580986.99
13	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars.	KG	127210.25	74.57	9486068.34
14	Centring and shuttering including strutting, propping etc. and removal of form for: Stairs, (excluding landings) except spiral-staircases.	M2	148.32	620.40	92017.73
15	Centring and shuttering including strutting, propping etc. and removal of form for: Edges of slabs and breaks in floors and walls. Under 20 cm wide	M	175.00	136.84	23947.00
16	Extra for additional height in centring, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentring at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured) Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	M2	1916.12	117.77	225661.22
17	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	M3	59.20	7543.01	446538.65
18	Half brick masonry with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level. Cement mortar 1:3(1 cement :3 coarse sand)	M2	1679.57	1627.61	2733681.67
19	Wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position: Kiln seasoned and chemically treated Hollock wood.	M3	1.35	60899.44	82092.45
20	Providing & fixing ISI marked flush door shutters conforming to IS :2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 35mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	M2	68.67	2591.14	177933.58
21	Providing& fixing in position collapsible steel shutters with vertical channels 20x10x2mm and braced with flat iron diagonals 20x5mm size with top and bottom rail of T-iron 40x40x6mm with 40mm dia., steel pulleys complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	M2	38.40	7022.47	269662.85
22	Providing & fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete: 250x10mm	EA	70.00	323.68	22657.60
23	Providing& fixing bright finished brass handles with screws etc. complete: 125mm	EA	70.00	177.25	12407.50
24	Providing & fixing bright finished brass hanging type floor doorstopper with necessary screws, etc. complete.	EA	35.00	94.77	3316.95
25	Providing & fixing IS: 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc. complete.	EA	35.00	725.15	25380.25
26	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	KG	38.50	76.52	2946.02
27	Providing& fixing M.S. fan clamp type I or II of 16mm	EA	22.00	146.31	3218.82

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
	dia M.S. bar bent to shape with hooked ends in R.C.C. slabs, beams during laying including painting the exposed portion of loop, all as per standard design complete.				
28	Providing& fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners ,stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	KG	3000.00	502.27	1506810.00
29	Providing & laying Brick Flat Soling (75mm thick) including grading the base and spreading 25mm thick sand bed at bottom and grouting soling with cement mortar (prop. 1:3) and carrying all materials from a distance of upto 30.00m.	M2	424.71	630.92	267958.03
30	Providing & laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS: 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand)including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 60x60cm	M2	903.63	1153.73	1042545.04
31	Providing & laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3(1cement: 3 coarse sand), including grouting the joint with white cement& matching pigments etc. complete. Size of Tile 600x600 mm	M2	507.21	1127.44	571852.22
32	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement: 4coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	M2	13.10	1967.32	25771.89
33	Providing & fixing on wall face unplasticised Rigid PVC rain waterpipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion, (i)Single socketed pipes-110 mm dia	M	200.00	254.55	50910.00
34	Providing & fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion.- coupler 110 mm-	EA	60.00	104.14	6248.40
35	15mm cement plaster on rough side of single or half	M2	1335.89	241.12	322110.28

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
	brick wall finished with a floating coat of neat cement of mix :1:4 (1 cement : 4 fine sand)				
36	Providing & Fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised Rigid PVC rain water pipes conforming to IS: 13592 Type A including jointing with seal ring conforming to IS :5382 leaving 10 mm gap for thermal expansion.- Bend 87.5°-110 mm Bend.	EA	30.00	114.60	3438.00
37	Providing & Fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4(1 cement: 4 coarse sand) and making good the wall etc. complete.-110 mm	EA	200.00	218.53	43706.00
38	12mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)	M2	6223.12	185.53	1154575.64
39	Providing & Applying of white cement based putty of average thickness 1mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	M2	6223.12	92.83	577692.32
40	Providing & Applying one coat of cement primer of approved brand and manufacture on wall surface: Cement primer	M2	6223.12	44.77	278609.13
41	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour: Two Coats	M2	6223.12	80.36	500089.92
42	Providing & Fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS: 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required: W.C. pan with ISI marked white solid plastic seat and lid	EA	6.00	4385.07	26310.42
43	Providing & Fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required: Single half stall urinal with 5 litre PVC. Automatic flushing cistern.	EA	12.00	7519.94	90239.28
44	Providing & Fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps,32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450mm with a pair of 15mm C. P. brass pillar taps.	EA	14.00	1974.98	27649.72
45	Providing & Fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	EA	14.00	1302.21	18230.94

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
46	Providing & Fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required: Kitchen sink with drain board :510x1040mm bowl depth225mm.	EA	2.00	4948.45	9896.90
47	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	EA	6.00	259.88	1559.28
48	Providing & Fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections /appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, aluminium snap beading for glazing / panelling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-Charge. (Glazing and panelling to be paid for separately): For fixed portion Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	KG	278.11	395.89	110100.97
49	Providing & Fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6mm thick hard board backing: Rectangular shape 453x357mm	EA	14.00	881.54	12341.56
50	Providing & fixing 600x120x5mm glass shelf with edges round of supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40mm long screws, rawl plugs etc., complete.	EA	14.00	723.52	10129.28
51	Providing & fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of645mm, width 78mm and effective height of 88mm, weighing not less than190gms	EA	14.00	452.28	6331.92
52	Providing & Fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain &brass threaded fittings i/c fixing the pipe with clamps at 1.00mspacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction ofEngineer-in-Charge.:15mm nominal outer dia. pipes.	M	200.00	276.06	55212.00
53	Providing & Fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain &brass threaded fittings i/c fixing the pipe with clamps at 1.00mspacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction ofEngineer-in-Charge.:25mm nominal outer dia. pipes.	M	100.00	367.79	36779.00

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
54	Providing & Fixing C.P. brass bib cock of approved quality conforming to IS:893115mm nominal bore.	EA	14.00	376.94	5277.16
55	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology - 15 mm nominal bore.	EA	14.00	6988.85	97843.90
56	For shutters of doors, windows & ventilators including fixing hinges /pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately). Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	KG	934.41	546.13	510309.33
57	Providing & Fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC / neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-Charge. (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 5.50mm thickness	M2	100.30	1063.92	106706.92
58	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern ...	KG	100.30	469.81	47120.06
59	Collecting / excavating sand, soil, silt, ordinary earth from any source, load into lorries, transport it to distant place of work including procuring earth and laying in layer of 150mm thickness and compacting, profile properly made for taking measurement, including all measurable lead upto 30m and lift as required. (The contractor shall be responsible for all formalities of supply of earth such as purchase of land including royalties, monopoly / other statutory taxes as required from any distance.)	M3	566.50	452.38	256273.27
60	Providing and fixing mineral fiber false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance ? 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt.- 6 &7)in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized@120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size600x600 mm suspended from ceiling using galvanized mild steel item(galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as per specifications, drawings and as per directions of the engineer-in-charge. With 16 mm thick beveled tegular mineral fibre false ceiling tile (NRC 0.55 to 0.6)	M2	384.00	1715.29	658671.36

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
61	Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc. ,all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- in- Charge. For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevant Item*). “(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.	M2	103.13	1921.59	198173.58
62	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:(a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rainscreen principle as required, proper drainage of water to make it water tight including checking of all the structural and functional design.(b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick).The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.(c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serration sand serrated washers to arrest the wind load movement, fasteners, SS 316Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required	M2	336.80	3884.17	1308188.46
63	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1cement: 2 coarse sand: 4 graded stone aggregate 20mm nominal size)	M3	52.54	5414.21	284478.84

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
64	Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).	KG	781.96	321.59	251470.52
65	Designing, fabricating, testing, protection, installing and fixing in position semi(grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:(a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for water tightness, pressure equalisation & drainage and protection against fire hazard including:(b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc.to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/masonry/structural steel framework of building structure using stainless steel anchor fasteners/bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers	M2	109.06	2701.04	294575.42
66	Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12-6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, desiccants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2) For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened	M2	112.81	2932.11	330771.33

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
	clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %,shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m2 degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement				
67	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc., of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	M2	1000.00	838.15	838150.00
68	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 upto 1.5 m.	M3	901.04	164.39	148121.97
69	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m. All kinds of soil	M2	3600.00	18.06	65016.00
70	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	M2	3600.00	9.31	33516.00
71	Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	L	667.00	174.42	116338.14
72	Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, backfilling the excavation earth to the extent required and utilising the remaining earth locally for roadwork.) for Ordinary Soil by Manual Means (Depth upto 3 m)	M3	1126.30	463.93	522524.36
73	Felling trees of the girth (measured at a height of 1 m above ground level) including cutting of trunks and branches removing the root sand stacking of serviceable material and disposal of unserviceable. Beyond 120 cm girth upto and including 240 cm girth.	EA	9.00	5837.23	52535.07

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
74	CONSTRUCTIONS OF 150 MM THICK (CONSOLIDATED) GRAVELLED ROAD including providing well compacted side berms with earth on either sides, one metre wide and 50mm thick above final level of gravelled road, dressing sub-grade (including cutting of earth up to 75mm deep) to required level, spreading gravel in two layers with bindage of dry earth and dry rolling each layer separately until fully compacted and finally spreading sand shingles uniformly to 25mm thick and re-rolled as directed.(Ref. to MoRTH Spec.401)(Road roller provided by contractor).	M2	1000.00	109.14	109140.00
75	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge. In cement mortar	M3	50.00	1091.99	54599.50
76	Supply of Gravel (65mm graded down to 25mm), hard, clean and free from foreign materials	M3	187.50	1925.56	361042.50
77	Water proofing materials	KG	350.00	40.25	14087.50
78	Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50metres lead as per direction of Engineer-in-Charge.	M3	100.00	1884.38	188438.00
79	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	KG	100000.00	3.10	310000.00
80	Extra for dismantling trusses, rafters, purlins etc. of steel work for every additional height of one metre or part thereof beyond 5 metres. (Rate: kg per metre span)	KG	100000.00	0.47	47000.00
81	Dismantling roofing including ridges, hips valleys and gutters etc., and stacking the material within 50 metres lead of: G.S. Sheet	M2	1000.00	89.42	89420.00
82	Dismantling cement asbestos or other hard board ceiling or partition walls including stacking of serviceable materials and disposal of unserviceable materials within 50 metres lead.	M2	500.00	30.87	15435.00
83	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to municipal dumping ground beyond 50 m initial lead, for all leads including all lifts involved.	M3	500.00	190.41	95205.00
SECTION B					
1	Centring and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns, etc. for mass concrete.	M2	249.05	231.12	57560.44
2	Providing & Laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level: 1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	M3	12.25	4971.43	60900.02
3	Providing & Laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level: 1:1.5:3 (1 cement: 1.5coarse sand : 3 graded stone aggregate 20 mm nominal size)	M3	36.56	5041.53	184318.34

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
4	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. upto floor five level excluding cost of centring, shuttering, finishing and reinforcement: 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size)	M3	20.95	6241.96	130769.06
5	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	M3	42.20	8574.64	361849.81
6	Centring and shuttering including strutting, propping etc. and removal of form for: Columns, Pillars, Piers, Abutments, Posts and Struts.	M2	364.32	582.31	212147.18
7	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars.	KG	4980.53	74.57	371398.12
8	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	M3	8.44	7543.01	63663.00
9	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	KG	27570.02	76.52	2109657.93
10	12mm cement plaster of mix:1:4 (1 cement : 4 coarse sand)	M2	1003.80	185.53	186235.01
11	Providing & Finishing walls with water proofing cement paint of required shade: New work (Two or more coats applied @ 3.84 kg/10 sqm).	M2	1003.80	70.05	70316.19
12	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	M2	1110.38	100.90	112037.34
13	COLOUR MARBLE IN WALL LINING, AREA ABOVE 0.5 M2	M2	2.16	3465.45	7485.37
14	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	M3	288.59	149.47	43135.55
15	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. In ordinary rock.	M3	55.90	285.69	15970.07
16	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	M2	1000.00	9.31	9310.00
17	Extra for providing edge moulding to 18mm thick marble stone counters, vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in Charge. Marble work	M	16.80	173.57	2915.98

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
18	Collecting / excavating sand, soil, silt, ordinary earth from any source, load into lorries, transport it to distant place of work including procuring earth and laying in layer of 150mm thickness and compacting, profile properly made for taking measurement, including all measurable lead upto 30m and lift as required. (The contractor shall be responsible for all formalities of supply of earth such as purchase of land including royalties, monopoly / other statutory taxes as required from any distance.)	M3	250.00	452.38	113095.00
19	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	M2	2.16	286.40	618.62
	SECTION C				
1	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in: Cement mortar 1:4 (1 cement : 4 coarse sand)	M3	5.86	7543.01	44202.04
2	Providing & Laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level: 1:3:6 (1 Cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	M3	5.05	4971.43	25105.72
3	Providing & Laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level : 1:1.5:3 (1 cement: 1.5coarse sand : 3 graded stone aggregate 20 mm nominal size)	M3	10.62	5041.53	53541.05
4	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. Thermo-Mechanically Treated bars.	KG	852.72	74.57	63587.33
5	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. All kinds of soil	M3	26.00	149.47	3886.22
6	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1 m above ground level and removal of rubbish upto a distance of 50 m outside the periphery of the area cleared.	M2	300.00	9.31	2793.00
7	Demolishing R.C.C. work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50metres lead as per direction of Engineer-in-Charge.	M3	15.67	1884.38	29528.23
8	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge. In cement mortar	M3	5.86	1091.99	6399.06
9	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to municipal dumping ground beyond 50 m initial lead, for all leads including all lifts involved.	M3	21.53	190.41	4099.53
10	Water proofing materials	KG	120.00	40.25	4830.00

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
11	Collecting / excavating sand, soil, silt, ordinary earth from any source, load into lorries, transport it to distant place of work including procuring earth and laying in layer of 150mm thickness and compacting, profile properly made for taking measurement, including all measurable lead upto 30m and lift as required. (The contractor shall be responsible for all formalities of supply of earth such as purchase of land including royalties, monopoly / other statutory taxes as required from any distance.)	M3	88.22	452.38	39908.96
	GROUP B				
	SECTION A				
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 3 nos. Single core 1.5 sq.mm size FRLS PVC insulated copper cable in surface/recessed using medium grade ISI approved 25mm size PVC conduit & accessories, suitable GI box as required. (Colour codes -Phase -R/Y/B# Neutral -Black & Earth- Green)). Concealed Point wiring includes laying of PVC conduit in the roof/Wall also. Make of cable: Havells/Finolex/L&T/Polycab or any BIS approved make. # Make of PVC conduit: AKG/Presto Plast or any BIS approved make.	P	180.00	1571.92	282945.60
2	Wiring for light plug point with 3 nos Single core 1.5 sq.mm size FRLSPVC insulated copper cable in surface/recess using medium grade ISI approved 25mm size PVC conduit & accessories, etc. as required. (Colourcodes - Phase -R/Y/B; Neutral - Black & Earth- Green)).Concealed wiring includes laying of PVC conduit in the roof/Wall also. Make of cable: Havells/Finolex/L&T/Polycab or any BIS approved make; Make of PVC conduit: AKG/Presto Plast or or any BIS approved make.	M	195.00	242.70	47326.50
3	Wiring for circuit/ sub main from MCB DB to desired Switch Board with 3nos Single core 2.5 sq.mm size FRLS PVC insulated copper cable in surface/recess using medium grade ISI approved 25mm size PVC conduit & accessories, (Colour codes: Phase -R/Y/B; Neutral -Black & Earth-Green)).Concealed circuit wiring includes laying of PVC conduit in the roof/Wall also. Make of cable: Havells/Finolex/L&T/Polycab or any BIS approved make, Make of PVC conduit: AKG/Plaza/Richa or any BIS approved make.	M	735.00	295.35	217082.25
4	Wiring for circuit/ sub main/Power wiring from MCB DB to desired Switch Board/power point with 3 nos. Single core 4 sq.mm size FRLS PVC insulated copper cable in surface/recess using medium grade ISI approved 25mm size PVC Conduit & accessories, (Colour codes : Phase -R/Y/B; Neutral-Black & Earth-Green). Concealed circuit wiring includes laying of PVC conduit in the roof/Wall also. Make of cable: Havells/Finolex/L&T/Polycab or any BIS approved make, Make of PVC conduit: AKG/PLaza/Richa or any BIS approved make.	M	280.00	359.61	100690.80
5	Wiring for circuit/ sub main wiring from Main panel to DB, DB to MCB DB with 3 nos. Single core 10 sq.mm size FRLS PVC insulated copper cable in surface/recess using medium grade ISI approved 32mm size PVC conduit & accessories, (Colour codes: Phases - R/Y/B; Neutral -Black & 1 Nos. Earth-Green)).Concealed sub main wiring includes laying of PVC conduiting the roof/Wall also. Make of cable: Havells/Finolex/L&T/Polycab or any BIS approved	M	90.00	702.18	63196.20

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
	make, Make of PVC conduit: AKG/PLaza/Richa or any BIS approved make.				
6	Modular type Switch Board Box shall be made out of steel sheet of min1.20 mm thickness and complete finished box should be duly pretreated, zinc coated & passivated or made of GI sheet of 1.2mm thickness to accommodate specified number of electrical accessories and suitable for indoor electrical installation with provision for earthing terminal. Frame Plate with matching Cover Plate suitable for above Switch Board Box suitable to accommodate specified number of electrical accessories. Frame Plate shall be made out of polycarbonate. The configurations for the relevant plate are defined as under: A- Number of Rows: 1B- Number of openings:8C- Size of opening:1M Make of Modular item: Legrand/L&T/Schneider/Crabtree/Indo Asian(Elvira).	NO	35.00	456.30	15970.50
7	Wiring for circuit/ sub main wiring from Main panel to DB, DB to MCB DB with 3 nos. Single core 10 sq.mm size FRLS PVC insulated copper cable in surface/recess using medium grade ISI approved 32mm size PVC conduit & accessories, (Colour codes: Phases - R/Y/B; Neutral -Black & 1 Nos. Earth-Green)).Concealed sub main wiring includes laying of PVC conduiting the roof/Wall also. Make of cable: Havells/Finolex/L&T/Polycab or any BIS approved make, Make of PVC conduit: AKG/PLaza/Richa or any BIS approved make.	M	200.00	1149.55	229910.00
8	Modular type Switch Board Box shall be made out of steel sheet of min1.20 mm thickness and complete finished box should be duly pretreated, zinc coated & passivated or made of GI sheet of 1.2mm thickness to accommodate specified number of electrical accessories and suitable for indoor electrical installation with provision for earthing terminal. Modular type Frame Plate with matching Cover Plate suitable for above Switch Board Box suitable to accommodate specified number of electrical accessories. Frame Plate shall be made out of polycarbonate. The configurations for the relevant plate are defined as under: A- Number of Rows: 1.B- Number of openings:3.C- Size of opening: 1M Internal connection of wire is included in the item. Make: Legrand/L&T/Schneider/Crabtree/Indo Asian (Elvira).	NO	20.00	292.94	5858.80
9	Modular type Switch Board Box shall be made out of steel sheet of min1.20 mm thickness and complete finished box should be duly pretreated, zinc coated & passivated or made of GI sheet of 1.2mm thickness to accommodate specified number of electrical accessories and suitable for indoor electrical installation with provision for earthing terminal. Modular type Frame Plate with matching Cover Plate suitable for above Switch Board Box suitable to accommodate specified number of electrical accessories. Frame Plate shall be made out of polycarbonate. The configurations for the relevant plate are defined as under: A- Number of Rows: 1.B- Number of openings:4.C- Size of opening.: 1MInternal connection of wire is included in the item. Make: Legrand/L&T/Schneider/Crabtree/Indo Asian (Elvira).	NO	15.00	297.83	4467.45

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
10	Supplying and fixing 3 module GI box with modular plate and cover in front on recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required. Modular type switch shall be ISI marked switch modular, unenclosed, push/ piano type suitable for flush mounting with screw type terminals suitable for 250V, 50Hz. supply and conforming to IS: 3854/1997Reaffirmed 2007. Modular socket outlet, flush type mounting, non-shuttered type for 250V,50Hz. supply and conforming to IS:1293/2005with amendments No.1,2&3. The dimensions shall be as per annexure `A of IS: 1293/2005 with amendments No.1,2&3 Note:-Dimensions and withdrawal force values for 2-pin sockets and 5-pin sockets shall be as perIS:1293.Make of Modular item: Legrand/L&T/Schneider/Crabtree/Indo Asian(Elvira).	NO	40.00	439.63	17585.20
11	Supplying and fixing 4 module GI box with modular plate and cover in front on recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required. Modular type switch shall be ISI marked switch modular, unenclosed, push / piano type suitable for flush mounting with screw type terminals suitable for 250V, 50Hz. supply and conforming to IS:3854/1997 Reaffirmed 2007. Modular socket outlet, flush type mounting, non-shuttered type for 250V,50Hz. supply and conforming to IS:1293/ 2005with amendments No.1,2&3.The dimensions shall be as per annexure `A of IS: 1293/2005 with amendments No.1,2&3 Note:-Dimensions and withdrawal force values for 2-pin sockets and 5-pin sockets shall be as perIS:1293.Make of Modular item ::Legrand/L&T/Schneider/Crabtree/Indo Asian(Elvira)	NO	15.00	558.20	8373.00
12	Supplying and installation of recess type 20A metallic plug/socket DB complete with 20A Plug and Socket and 20 A DP RCBO,30mA sensitivity for AC. Make: Legrand/Siemens/Havells/Indo Asian/Schneider.	NO	15.00	6583.33	98749.95
13	Supply, installation and fixing of 6 A Modular switch in the existing modular boxes. Modular type switch shall be ISI marked switch modular, unenclosed, push / piano type suitable for flush mounting with screw type terminals suitable for 250V, 50Hz. supply and conforming to IS:3854/1997 Reaffirmed 2007 Make of Modular switch :Legrand/L&T/Schneider/Crabtree/Indo Asian(Elvira).	NO	160.00	82.05	13128.00
14	Supply, installation and fixing of 16 A Modular switch in the existing modular boxes. Modular type switch shall be ISI marked switch modular, unenclosed, push / piano type suitable for flush mounting with screw type terminals suitable for 250V, 50Hz. supply and conforming to IS:3854/1997 Reaffirmed 2007 Make of Modular switch :Legrand/L&T/Schneider/Crabtree/Indo Asian(Elvira).	NO	25.00	128.74	3218.50
15	Supply, installation of Blank Plate Make: Legrand/L&T/Crabtree/Schneider.	NO	35.00	25.32	886.20
16	Supplying and fixing 3 pin, 5 amp ceiling rose	NO	15.00	74.33	1114.95

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
17	Supply, Installation, testing and commissioning of high performance suspended mounting, LM-79 certified luminaire & LM-80 certified LED with aluminium extruded channel & white powder coating. Fitting shall be with high translucent diffuser & white optics reflector for glare free light distribution with 40 +/-10% w system wattage, system efficacy >85lm/W.THD <10% and PF is >0.9. Colour temperature shall be in between 5500 to 6500 K. The driver shall be external type and minimum burning hours shall be 40000 Hrs. The fitting shall be complete with all accessories etc., including supplying and fixing ball and socket arrangement, 2 no. down rods of 20 mm dia X 1.6 mm thick steel conduit up to 75 cm length, painting and wiring the down rods and connection with 1.5 sq. mm FR PVC insulated, copper conductor, three core cable and earthing etc. as required. Make: Philips/Crompton/GE/Bajaj/Havells	NO	30.00	5652.72	169581.60
18	Supply, installation and wiring of 1 Module step Fan Regulator 100W. Electronic Fan regulator step type (Capacitor Type) with minimum 4 steps (5 position) flush mounting type to IS:11037/1984 (Reaffirm 2005) suitable for electric ceiling fan of voltage 230V, AC, 50 Hz having wattage up to 100 Watts Max. The capacitor used shall be of standard make. Make: Legrand/L&T/Crabtree/Schneider/Indo Asian (Elvira).	NO	30.00	393.32	11799.60
19	Supply, Installation and commissioning of 1400 mm sweep ceiling fan without modular step regulator, including wiring the down rods of standard length (up to 30 cm). Fan shall have double bearing with minimum air delivery shall be 230 CMM. Minimum Power input shall be 60 W. Make of fan: Havell /Crompton Greaves/Bajaj/Orient.	NO	30.00	3206.49	96194.70
20	Supply, Installation and commissioning of 300 mm sweep, 900±10% PM heavy duty metallic exhaust fan in the existing penning, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required. Minimum power input shall be 50 W. Pre-lubricated double ball bearing for maintenance free running and conforming to IS 2312-1967 with latest amendment. Make of fan: Havells/Crompton Greaves/Bajaj/Orient	NO	13.00	5198.41	67579.33
21	Supply, Installation, testing and commissioning of surface mounting Powder coated, Aluminum extrusion housing, IP20 Diffused Acrylic glass fitted 4ft LED Batten LM-79 certified luminaire & LM-80 certified LED complete with all mounting accessories. The product should have an even light distribution with system lumen greater than 1800 Lumen with max. 20 +/-10% w system wattage and CCT 6500k, CRI >80 and system efficacy >90lm/W. Lifetime should be at least 40000 hours. The product should have an Electronic constant current driver with Open & Short circuit protection, reverse polarity protection and surge protection, PF >0.9, THD <10%. Make: Philips/Crompton/GE/Bajaj/Havells.	NO	60.00	1339.43	80365.80

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
22	Supply, Installation, testing and commissioning of surface mounting Powder coated, Aluminum extrusion housing, IP20 Diffused Acrylic glass fitted 2ft LED Batten LM-79 certified luminaire & LM-80 certified LED complete with all mounting accessories. The product should have an evenlight distribution with system lumen greater than 1800 Lumen with max.20+/-10% w system wattage and CCT 6500k, CRI >80 and system efficacy >90lm/W. Lifetime should be at least 40000 hours. The product should have an Electronic constant current driver with Open & Short circuit protection, reverse polarity protection and surge protection, PF >0.9,THD <10%. Make: Philips/Crompton/GE/Bajaj/Havells.	NO	12.00	1154.99	13859.88
23	Supply, Installation, testing and commissioning of recessed type 35 to38 W LED CRCA powder coated luminaire complete with all mounting accessories for fixing in the POP type ceiling including supplying, fixing arrangement and connection with 3x1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required. Minimum output Lumen shall be 3200 and color temperature shall be 5500Kto 6500K.Driver shall be external. Efficacy shall be more than 90%. Power factor>0.9, THD < 10%, IEC Compliant for safety. Make: Philips/Crompton/GE/Bajaj/Havells/HPL//Surya/Syska.	NO	10.00	5359.10	53591.00
24	SHORT TEXT: 160 A, 8 W, VTPN MCCB DB Detailed description: Supply of 3Phase, 8 WAY, vertical TPN MCCB DB, as per the following specifications: A. Incoming: a. 160 A Thermal adjustable MCCB: 1 no b. Rating: 4 pole, 160 A, 25kA, 50Hz, 415VACc. Protection: Thermal and Magnetic Protection. Make & Model: Legrand, Cat no 4200 57 or equivalent B. Outgoing Feeders: a. 63 A TP C curve MCB: 2nosb. 63 A SP C curve MCB: 18 nos. c. All outgoing MCBs shall be 'C' curve, 240v AC, 10kAbreaking capacity, with DMC housing, suitable for class-II tropicalisation (as per IEC) & approved by ISI or IEC. MCBs shall have integrated label holder, bi connect upper & lower terminals & air channels for low temperature rise. C. Bus bar: 250 A, Tinned Copper D. Constructional details of DB: DB shall be as per IS-8623 with latest amendment. DB shall have external earth terminal & mounting holes. Cableties & wire leads for wiring incomer MCCB to respective phase & neutral buses shall be supplied and wired with single core 35 sq mm stranded copper cable with tinned copper lugs. Enclosure shall be IP-43& IK-09with double door. DB shall have detachable cable entry gland plate on top and bottom side for keeping spare length of cables. All wires inside DB shall have ferrules for identification of circuit number. All unused openings shall be fitted with Blanking Plates. The DB shall be provided with 250 amp tinned copper bus bar for phase &	NO	2.00	43245.38	86490.76

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
25	Supply and fixing of recessed accent lighting luminaire (downlight) with matt finish reflector complete with green perform LED lamps with all accessories including fixing arrangement in the ceiling, wiring and connection with 1.5 mm sq FRLS single core copper conductor. Minimum lumen out shall be 1200 Lumen, CRI>80% driver shall be constant current nonintegrated, Optics High Efficiency diffuser with more than 85%transmittance. Make: Philips/Crompton/GE/Bajaj/Havells.	NO	10.00	1048.94	10489.40
26	Supplying, installation and fixing of 16 WAY SPN MCB DB with double door , single pole and neutral, sheet steel, MCB distribution board, 240volts, on surface , complete with 100 A tinned 12 way copper busbar, 12way neutral busbar, 12 way earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. DB shall have following as incomer: 63 A RCBO, sensitivity 100mA -1 nos. Outgoings are 10 A MCB ,C curve-6 nos,20 A MCB,C curve- 6 nos. Make of RCBO, MCBs and box shall be of same make and shall be Schneider/ Siemens/Indo Asian/Legrand or Approved by Engineer in Charge. DB shall be similar to Legrand cat no- 6077 13	NO	4.00	12646.44	50585.76
27	3 phase 8 way 63A MCB DB: 3 phase 8 way TPN prewired MCB DB with double door of following specification: DB shall be as per IS 8623, Suitable for Flush mounting and surface mounting application with 100 A copper busbar for each phase, with neutral bar, earth bar and cable ties for cable management, fully insulated busbar and neutral bar. DB shall have proper arrangement for door earthing and corner shields for better protection, Pan assembly for ease of installation, masking sheet, reversible doors, with provision for four pole RCBO as incomer and SPMCB as outgoing, supplied with wire set and MCBs. Wires shall be FRLS copper single core cables of sufficient capacity. DB shall have protection against mechanical impact, minimum protection index shall be IK 09 with acrylic door of IEC-62262 and Ingress protection of IP43.Limiting dimensions of DB shall be: front side length with door: 700 mm, breadth: 500 mm and depth 70 mm. Knockouts on the top shall be of following dimensions: 1 no., 32 mm dia; 8 nos., 25 mm dia. Knockouts on bottom shall be of following dimensions: 1 no., 32 mm dia; 8 nos., 25 mm dia. Knockouts on both sides shall be of following dimensions: 1 no. 32mm dia and 2 nos., 25 mm dia. Part 1: DB shall have 63 A,10ka 100 mA RCBO as incomer as per IS: 12460 with latest amendments, Part 2. Outgoing distribution in each phase shall consist of 8 nos. of MCB (4 nos. of 10 A	NO	4.00	21479.92	85919.68
28	Supplying and fixing metal box of 200 mm X 250 mm X 100 mm on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.	NO	8.00	380.08	3040.64
29	Supplying and fixing metal box of 150 mm X 150 mm X 60 mm on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.	NO	50.00	268.69	13434.50

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
30	Supplying and fixing of Mild steel hexagonal/Round fan box with 12mm Rod,18G in the fan position. Make: Richa/Anchor/AKG	NO	35.00	247.85	8674.75
31	Supply of 3.5x70 mm sq PVCA 1100v grade, Heavy duty, PVC insulated, PVC sheathed, galvanized steel wire armored cable with stranded, untinned copper conductor. All core insulations shall be colour coded with red, black and green colours. All insulated cores laid up together, covered with inner sheath of extruded black PVC compound, galvanised steel wire armour and black PVC outer sheath. Sufficient filler shall be used to give overall circular shape to the cable. The cable shall be approved by IS: 1554 with latest amendments. PVC insulation should be as per IS-5831. Armour should be as per IS-3975. Conductor should be as per IS-8130. Manufacturer's name, cable size, voltage grade, ISI mark should be marked on the cable outer sheath in permanent manner at regular interval. Sequential marking should be provided on the cable outer sheath at every one meter length for measurement during use. Make: "NICCO/ASIAN/CRYSTAL/UNIVERSAL/CCI/RPG/IN CAB/POLYCAB/ANKUR/NECAB" Note:1. Cable shall be tested for routine tests as per IS at manufacturer's works before dispatch. Manufacturer's test certificate for routine test as per IS should be submitted with the cable. 2. Cable shall be guaranteed against manufacturing defects for one year after receipt by us. The guaranteed certificate should be submitted with the cable.	M	300.00	494.52	148356.00
32	Suspended mounting type Powder coated, Aluminum die-cast housing, IP65 LED High bay luminaire with LM80 certified high power LED. The product should have an even light distribution with system lumen greater than 13000 Lumen with system wattage less than 95 +/-10%. and CCT 5700k, CRI >70 and system efficacy >90 lm/W. Lifetime should be at least 50000 hours with 70% lumen maintenance. The product should have an Electronic constant current driver with Voltage range of 120V-277V, Open & Short circuit protection, reverse polarity protection and surge protection of 5kV, PF >0.95, THD <10%. Make: Philips/Crompton/GE/Bajaj/Havells.	NO	25.00	15502.71	387567.75
33	Earthing with G.I. earth pipe 3 meter long, 100 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required. Make of pipe: Jindal/Tata (DSR 5.2, 2014)	EA	2.00	5274.88	10549.76
34	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by over lapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	M	50.00	120.32	6016.00

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
35	Supply of 1x25 mm sq PVC 1100v grade, Heavy duty, PVC insulated, PVC sheathed cable with stranded, untinned copper conductor. All core insulations shall be colour coded with red, black and green colours. All insulated cores laid up together, covered with inner sheath of extruded black PVC compound, black PVC outer sheath. Sufficient filler shall be used to give overall circular shape to the cable. The cable shall be approved by IS: 1554 with latest amendments. PVC insulation should be as per IS-5831. Armour should be as per IS-3975. Conductor should be as per IS-8130. Manufacturer's name, cable size, voltage grade, ISI mark should be marked on the cable outer sheath in permanent manner at regular interval. Sequential marking should be provided on the cable outer sheath at every one meter length for measurement during use. Make : "NICCO/ASIAN/CRYSTAL/UNIVERSAL/CCI/RPG/INACAB/POLYCAB/ANKUR/NECAB" Note: 1. Cable shall be tested for routine tests as per IS at manufacturer's works before dispatch. Manufacturer's test certificate for routine test as per IS should be submitted with the cable. 2. Cable shall be guaranteed against manufacturing defects for one year after receipt by us. The guarantee certificate should be submitted with the cable.	M	300.00	105.48	31644.00
36	Cable laying to 3.5 x 70 sq. mm with brick and sand: Cutting trench / Pit and laying cable of size up to 4 core x 120 sq. mm and earth wires including supply of first class local bricks and sand and laying. a) The normal size of the trench will be 45 cms. wide and depth of 75 cms. for 1100 V cables. The size of the pit shall be 120 cms. to 150 cms. diameter with same depth that of the trench. The bottom of the trench must be leveled and properly dressed. b) After the trench is prepared, a 75mm. thick sand bed shall be spread at the bottom of the trench pit. Then the cable shall be unrolled/uncoiled and laid as per instruction and again covered with another 75 mm of sand over the cable. Sand bed should cover entire width of trench/pit. c) Bricks (brick size 230mm x 115mm) shall be placed crosswise (irrespective of one or more cables laid in the trench pit) over the cable / cables as well as the entire pit as per instructions. There shall be at least ten bricks in every 1150 mm long normal trench and covering the entire cable/cables. The bricks should be placed close to each other without any gap. Broken bricks shall not be used. d) After the bricks have been laid the trench shall be filled back with earth (cut earth from the trench) and rammed properly in layers of 25cms. e) Cable/Cables to be laid shall be pulled inside the trench only.	M3	101.25	1093.00	110666.25
37	Installation and Commissioning of above mentioned LT Panel	NO	1.00	79200.00	79200.00
38	Supply, installation and testing of 1.5T Split Air conditioner as per the technical specifications mentioned below: Technical Specification Split Air Conditioner: A) The split air conditioner shall have following specification and features i) Cooling capacity 1.5 TR. ii) Single split wall mounted type. iii) Refrigerant gas R22 / R410A iv) Condenser & piping Grooved copper. v) Evaporator Grooved copper with blue fin. vi) Operating Voltage 230V, ± 10%, single phase 50Hz, AC. vii) Star Rating Minimum 5	NO	15.00	60794.46	911916.90

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
	star rating with Minimum EER of 3.5 as per BEE-2018 for Split Type Air Conditioner. viii) Noise level Less than 50dB at high speed fan mode at in-door unit. ix) Warranty of the unit shall be of minimum one (01) year against any manufacturing defect from the date of commissioning. x) Warrantee of the Compressor shall be of minimum five (05) years from date of commissioning. xi) Colour: Shed White / Off White / Ivory. xii) Make Voltas / Blue Star / Samsung/ Carrier / Lloyd / Haier .xiii) Non Inverter type.				
39	The LT Panel shall have INCOMER 315 A, 4 pole, 36 kA moulded case circuit Breaker, 415V AC, 50Hz with microprocessor based O/C, S/C, E/F release: 2 Nos. Each Incomer shall have: (a) Digital multifunction meter with accuracy class 0.5 and with RS-485 port with MODBUS protocol for data logging/downloading. The meter shall preferably be of size 96mm x 96mm and shall measure the following electrical parameters Voltage, Current, Frequency, KVA, KVAR, PF, KWH, and KVARh. The multifunction meter shall have inbuilt memory to store data for minimum 75 days. (b) Cast resin Current Transformer as per IS 2705 & IS 4201 and shall be sized adequately: 03 nos. (c) LED Indication lights for 'Feeder ON', 'Feeder OFF' & 'TRIP': 03 nos. (d) Moulded HRC Fuse Holders with HRC Fuses/MCBs for control circuit protection (e) Rotary Handle for operating the MCCBs. (i) OUTGOING: i. 160 A, 4 pole, 36kA Moulded case circuit Breaker, 50Hz, 415V AC with microprocessor based O/C, S/C, E/F release: 2 nos. ii. 100 A, 4 pole, 25kA Moulded Case Circuit Breaker, 50Hz, 415V AC with microprocessor based O/C, S/C, E/F release: 2 nos. Each Outgoing feeder shall have (i) Digital Ammeter, 3 Phase with inbuilt selector switch with size 96x96mm: 1 Set (ii) Cast resin Current Transformer as per IS 2705 & IS 4201 and adequately sized: 03 nos. (iii) LED Indication lights for 'Feeder ON', 'Feeder OFF' & 'TRIP': 03 nos. (iv) Moulded HRC Fuse Holders with HRC Fuses/MCBs for control circuit protection. (v) Rotary Handle for operating the MCCBs	NO	1.00	396000.00	396000.00
	SECTION B				
1	'KRONE' make or equivalent - Fibre Glass Reinforced Telephone Distribution Box #30 Pair; Weatherproof type for outdoor installation complete with 3 nos. of 2110#LSA-PLUS Disconnection Modules and Stainless Steel Back mounting Frame- for 1-0 Pair cable terminations, each. The modules should have facility for quick snap on and removal from the box. Technical Specifications: (AA) Outdoor D.P Box – Service Temperature Range of 2.5 to 60 degree C ; IP 54 Class of Protection against dust and splash water; Tough Thermoplastic ABS Enclosure Material; Min 40 MPa as per ASTM D 638 Material Strength; Synthetic Rubber Cable seals; Biologically Resistant against Termites and Micro Organisms; 2/10 LSAPLUS Disconnection module - for Tel. line testing possible in both directions, Conductor dia. 0.50 mm, Outside dia. 0.80 mm, plastic Conductor Insulation, Temperature Operation range from -20 degree C to + 80 degree C, Contact type: IDC Silver plated, Connection: Dry Gas tight, over 200 Nos. of re_terminations; Double sided Wire Clamping &	NO	1.00	3403.95	3403.95

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
	Guide;' over 2.5Mega-ohm 'Contact resistance; Insulation resistance below'50,000 ohm; Dielectric Strength:2 KV RMS; Impulse voltage resistance over 3.6 KV; As per TEC Spec Type Approval. #KRONE #make or equivalent - Fibre Glass Reinforced				
2	5 (Five) Pair Solid Annealed Bare Copper Telephone Cable; NominalConductorDiameter-0.50 mm, insulation -Material-high density polyethylene; Nominal Dia of insulated Conductor-0.92 mm ; Rip cord Material-Nylon ; Sheath Material-FRPVC with high oxygen and temperature induces; Sheath MinimumThickness-O.55mm; Conductor Resistance-Max. 92.20 ohm/Km at 200 C; Mutual Capacitance_Max. 50 nf/ Km ; insulation Resistance in Air-Min . 10000M-ohm / Km; Capacitance Unbalance Pair to Pair-Max. 250 pfl 100 m ; Twisted coloured insulated cores to form pairs conforming to ITD specifications S/WS 113C.	M	1500.00	53.11	79665.00
3	10 (Ten) Pair Solid Annealed Bare Copper Telephone Cable; NominalConductorDiameter-0.50 mm, insulation -Material-high density polyethylene; Nominal Dia of insulated Conductor-0.92 mm ; Rip cord Material-Nylon ; Sheath Material-FRPVC with high oxygen and temperature induces; Sheath MinimumThickness-O.65mm; Conductor Resistance-Max,92.20 ohm! Km at 200C;MutualCapacitance_Max. 50 nfl Km ; insulation Resistance in Air-Min 10000M-ohm I Km; Capacitance Unbalance Pair to Pair-Max. 250 pf/ 100 m ; Twisted coloured insulated cores to form pairs conforming to ITD specifications S/WS 113C	M	180.00	115.25	20745.00
4	Good quality telephone modular rosette box with RJ-11 female connector-shall be supplied and fitted using SS screws at the user's premises. Laid telephone wires shall be terminated in these rosette boxes and continuity and proper working of telephones shall be checked and confirmed.	NO	30.00	480.23	14406.90
5	#KRONE# make or equivalent - Fibre Glass Reinforced Telephone Distribution Box# 50 Pair; Weatherproof type for outdoor installation # complete with5 nos.10 Pair LSA-PLUS Disconnection Modules# and Stainless Steel Back mounting Frame - for 10 Pair cable terminations each. The modules should have facility for quick snap-on and removal from the box. Technical Specifications: Outdoor D.P Box – Service Temperature Range of 25 to 60 degree C ; IP 54 Class of Protection against dust and splash water; Tough Thermoplastic ABS Enclosure(Rounded) Material; Min 40 M pass per ASTM D 638 Material Strength; Synthetic Rubber Cable seals; Biologically Resistant against Termites and Micro Organisms.2/10 LSAPLUS Disconnection module - for Tel. line testing possible in both directions, Conductor dia. 0.50 mm, Outside dia. 0.80 mm, plastic Conductor insulation, Temperature Operation range from -20 degree C to + 80 degree C, Contact type: IDC Silver plated, Connection: Dry Gas tight, over 200Nos. of reterminations; Double sided Wire Clamping & Guide ; over 2.5 Mega-ohm Contact resistance; insulation resistance below 50,000 ohm; Dielectric Strength:2 KVRMS; impulse voltage	NO	1.00	4180.79	4180.79

Sl. No.	DESCRIPTION OF SERVICE	UOM	QUANTITY	UNIT PRICE	TOTAL
6	Channel shall be PVC Flat, 25 MM width including all Channel accessories {internal, external, Tee, Joint, elbow etc.) for laying the PVC cable(s). Flat channels shall be fixed on the walls by fixing SS screws at the interval of 20cms each.	M	700.00	55.65	38955.00
7	Electronic Push Button CLI Telephone(A) HANDS FREE TWO WAY SPEAKER OPERATION.(B) No. of digits in display : 16(C) Mounting Position : Desk(D) Weight: 400 gms (minimum)(E) RJ11 connecting jack(F) Tone/Pulse switchable(G) incoming Call memory : 50(H) Outgoing Cal memory : 10(I) Redial memory: 10(J) Redial, Flash, Mute and Pause/Hold buttons(K) Minimum two level ringer volume control or better(L) Ringer/Hold LED indicator(M) one touch memory/fast dialing keys: 06 Nos or better(N) Colour : Black/Grey	NO	30.00	2516.95	75508.50
SECTION C					
1	Supply and Crimping RJ 45 Connector	NO	100.00	43.78	4378.00
2	Supply and Fixing Cat-6 UTP Cable	M	1500.00	55.93	83895.00
3	Supply and fixing 1" Cashing -Capping with Accessories	M	700.00	55.65	38955.00
4	Supply and fixing I.O. box, Jack + Single port face plate	NO	27.00	519.33	14021.91
5	Supply of 24 port (10/100/1000) Gigabit managed switched to have 4additional fiber uplink ports loaded with OEM's SFP	NO	2.00	78531.07	157062.14
	Total				4,41,23,869.79

Note:

a) Bidder must quote overall price within the range of “At Par” to “+10%” of Company’s Internal Estimate.

b) Bidder must include all impale plant, labour, supervision, materials, erection of display board, sign/caution board, insurance, profit, taxes and duties, together with all general risks, liabilities in their quoted rates excluding PF and GST.

The Clauses of SCC shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

WORKS CONTRACT

SPECIAL CONDITIONS OF CONTRACT

DESCRIPTION OF WORK/SERVICES: Construction of New Fire Service Building including Electrical, Telecommunication & IT works along with Construction of Boundary Wall, Fire Water Pit, Development of frontal area at Moran, Charaideo district. All materials to be supplied by the contractor except cement.

A. SCOPE OF CIVIL WORK

1.0 GENERAL:

The contractor must complete the work in all respect within the work duration allotted to him as per work order. However, any delay in completion of the work due to reasons not attributable to the contractor will be considered based on hindrance register maintained during delay analysis of the work after its completion and the same will be considered during calculation of LD as per Contract. Moreover, the duration of the work allotted to the contractor is excluding such type of hindrances not attributable to the contractor.

All materials used in the work shall conform to the latest revision of the relevant Indian Standard Specifications to the extent practicable. Where no such specifications exist, they shall be of the best quality available in the market. Wherever ISI certified materials and products are available, these alone shall be used. All materials shall be stored at site in accordance with IS-4082-1996.

Unless specially provided for in the contract the tendered rates shall include the cost of carriage, transport, loading, unloading and stacking as directed for all materials required on the work. Where a tender provides a rate for transport of materials, it includes for all loading, unloading and stacking on the site in such position and manner as directed. Any materials found not conforming to specification must be removed from site within 48 hours.

2.0 SITE CLEARANCE:

Before the earthwork is started, the area coming under cutting and/refilling shall be cleared of shrubs, vegetation, grass, uprooting of tree stumps and such others, and rubbish removed up to a distance of 50 meters outside the periphery of the area under clearance. The rate of such site clearance is included in the rate of earthwork.

3.0 STORAGE:

Materials shall be transported, handled and stored at site carefully to the approval of Engineer so as to prevent an damage of any kind to be kept at his own risk and cost.

Cement shall be stored in a weather proof shed, the floor of which shall be raised 300 mm clear from the ground and 600 mm away from the wall all round in order to protect from rain and moisture. Empty cement bag shall be returned to the Company in good condition.

4.0 CEMENT CONCRETE/ REINFRCED CEMENT CONCRETE WORK:

All C.C. work in 1:3:6 proportions shall be done with 18 mm graded down broken stone. Broken stone shall be properly screened before use. All reinforced cement concrete work to be done in prop. 1:1.5:3 unless otherwise specified -- 18mm down to 12mm graded down broken stone as per related drawings and instructions of site Engineer to be followed in case of any discrepancies. Proper vibration to be done as per IS recommendation. Floor paneling to be done in the line of expansion joint as directed by Engineer In-charge.

Fine Aggregate - Fine aggregate shall be hard, durable, clean and free from adherent coating and organic matter. It shall not contain harmful impurities such as pyrites, coal, lignite, mica, shale or similar laminated material, clay, alkali, soft fragments, seashells and organic impurities in such quality as to affect the strength or durability of the concrete. Fine aggregate to be used for reinforced concrete shall not contain any material liable to attack the steel

reinforcement. Fine aggregate which is chemically reactive with alkalis of cement is harmful as cracking of concrete may take place.

Coarse Aggregate - Coarse aggregate shall be obtained from natural sources such as stone, gravel, etc. crushed or uncrushed or a continuation thereof from approved quarries. This shall consist of coarse material most of which is retained on 4.75mm sieve. Aggregate shall be hard, strong, dense, durable, clean and free from veins and adherent coatings. It shall be free from soft, feeble, thin, elongated or laminated pieces and shall be roughly cubical in shape. It shall be clear and free from dirt and any other deleterious matter.

Reinforcement bars - The following types of steel for reinforcement shall be used in reinforced concrete construction and these shall conform to Indian Standards or as revised from time to time mentioned against each

(i) Mild steel and medium tensile steel bars and hard drawn steel wire - IS:432.

(ii) HYSD bars - IS:1786.

Bending & Placing steel reinforcement in position Bending shall be carried out as per relevant IS specification and direction of the Engineer-in-charge. All reinforcement bars shall be accurately placed in position with spacing and cover as shown in the drawing or as specified and firmly held so during the placing, vibrating and setting of concrete. Bars shall be thoroughly cleared of rust, seals, grease, oil and any other foreign matter before placing them in position. The overlap jointing shall be staggered. The bars shall be fixed with 22G binding wire. Precast cover blocks 1:2 (1 cement: 2sand) cement mortar 40 mm square and necessary thickness shall be used to keep the reinforcement bars in proper position. For this block, no extra payment to be made. Wire required for binding shall not be measured separately. Tack welding shall also be permitted in lieu of building with steel wire.

Proportioning of mix - Proportioning shall be done by volume. Boxes of suitable size shall be used for measuring sand and aggregates. The size of the boxes (internal) shall be 35 x 25cm and 40cm deep. The unit of measurement for cement, shall be a bag of cement weighting 50 Kg and this shall be taken as 0.035 cubic meter. While measuring the aggregate and sand the boxes shall be filled without shaking, ramming or hammering. The proportioning of sand shall be on the basis of its dry volume and in case of damp sand, allowances for bulkage shall be made.

Mixing - Mixing of reinforced cement concrete shall, as a rule be done in a mechanical mixer. However, the Engineer-in-charge may permit hand mixing in specific cases where in his opinion it is not practicable to resort to mechanical mixing, either on account of the quality of cement concrete required is small or for any other reason. In such cases, it should be ensured that the inferior quality of concrete produced by hand mixing will not adversely affect the structure.

Consistency - The quantity of water to be used for each batch containing 50 Kg of cement, to give the required consistency shall not be more than 34 litres for 1:3:6, mix 32 litres for 1:2:4 mix, 30 litres for 1:1.5:3 mix and 27 litres for 1:1:2 mix. In case of vibrated concrete, the above quantity shall be suitably reduced. The quantity of water shall be regulated by carrying out regular Slump Test.

Placing of concrete - Before placing the concrete the sub-base/form work shall be cleared of all injurious or foreign matter, watered and well consolidated. Formwork shall be clean and free from all foreign material. It is necessary that the time between mixing and placing of concrete does not exceed the initial setting process. Mixed concrete that has been left standing shall not be used after the initial set has commenced the addition of water (or cement) to make such a mixture more workable shall not be allowed. In foundation trenches or such other situations, the entire concrete used in the work shall be laid gently (not thrown) in layers not exceeding 15cm. The concrete so deposited shall be thoroughly vibrated by means of mechanical vibrators till dense concrete is obtained.

Curing - Concrete shall be carefully protected during first stage of hardening from harmful effects or excessive heat, drying winds, rain or running water and shock. After the concrete has begun to harden i.e. about 1 to 2 hours after its laying it shall be protected from quick drying with moist gunny bags or any other material approved by the Engineer-in-charge. After 24 hours of laying of concrete the surface shall be cured by flooding water up to 25mm depth or by covering with wet adsorbent materials. The curing shall be done for a minimum period of 7 days from the date of pouring of concrete, unless otherwise specified.

Finishing - In case of roof slabs the top surface shall be finished even and smooth with wooden trowel, before the concrete beings to set. The surface of RCC slab on which the cement concrete or mosaic floor is to be laid shall be roughened with brushes while the concrete is green. This shall be done carefully without disturbing the concrete. Before laying the floor, the laitance shall be removed, the surface of slab hacked and a coat of cement slurry at 2.75 Kg of cement per square metre shall be applied, so as to get a good bond between RCC and concrete floor. The exposed surface which is to receive plaster or where it is to be joined with brick masonry wall, shall be properly roughened immediately after the removal of form work, taking care to remove the laitance completely without disturbing the concrete. Before the surface is plastered, it shall be cleaned and wetted so as to give good bond between concrete and plaster.

5.0 FORM WORK:

The formwork shall be rigid and so corrected as to retain the shape and dimensions of the member being cast. Form work for concrete shall be seasoned timber/steel or other approved materials as per directions of the Engineer. It shall be sufficiently tightened to prevent loss of cement slurry and all holes and joints shall be chaulked with putty. It shall have sufficient strength and rigidity to withstand the load of concrete, and vibrations, movement of men, materials and plants and any other incidental loads without excessive deflection beyond permissible limits. The formwork shall be so constructed as to be removable in sections by inscribing or otherwise loosening - them without hammering or levering with force. Only wedges, clamps bolts or screws etc. shall be used in preference to nails or spikes. All side pieces shall be easily removable without disturbing the bottom pieces. Where however, use of nails and spikes become unavoidable, these shall be left projecting so that they can easily be withdrawn.

Surface treatment for shuttering - Forms shall be cleaned of all dust, wood shavings, dirt and other matter by washing with water. This process is facilitated by providing draining holes in the shuttering. The surface shall then be coated with soap solution applied before concreting is done. Soap solution for the purpose shall be prepared by dissolving yellow soap in water to get consistency of paint. Alternatively, a coat of raw linseed oil/refined pale paraffin mineral oil or form oil of approved manufacture may be applied. In case steel shuttering is used, soap solution or row linseed oil shall be applied after thoroughly cleaning the surface. Care shall be taken that such approved composition is kept out of contact with the reinforcement.

In normal circumstances (temperature not below 15 degree C) and where ordinary Portland cement is used form may generally be removed after the expiry of the following periods.

- (a) Vertical form work to columns, walls, beams = (16-24) hours
- (b) Slabs side (props left under): 3 days
- (c) Beam soffits (props. left under): 7 days
- (d) Removal of props under slabs
 - (i) Spanning up to 4.5 m: 7 days
 - (ii) Spanning over 4.5 m: 14 days
- (e) Removal of props under beams and arches:
 - (i) Spanning up to 6 m: 14 days
 - (ii) Spanning above 6 m: 21 days

In no circumstances shall forms be struck until the concrete reaches a strength of at least twice the stress to which concrete may be subjected at the time of removal of form work. All form works shall be removed without such shock or vibration as would damage the concrete. Form work for long span deep beams to be supported by MS props or Bhaluka Bamboo props as required based on the design for the formwork to take care the massive load of the green concrete.

6.0 BRICKWORK:

- (a) All bricks shall be of 75 class designation quality locally available as approved by the Site Engineer.
- (b) Bricks shall be of size as specified in the item of work or of nominal size where no particular size is mentioned.
- (c) Bricks shall be well burnt, sound, hard with sharp edges of uniform size and shape free from cracks, stones or particles of lime and other defects, shall be kiln burnt and satisfy the following requirement:
 - (i) They shall give a clear metallic sound when struck

- (ii) They shall be of uniform colour and size
 - (iii) They shall not be cracked, stratified or under or over burnt
 - (iv) The tolerance in dimensions shall be +/- 12mm in length, 6mm in width and 3 mm in height.
 - (v) Keys or frogs shall be formed on one of the larger size, except in the case of machine extruded bricks where no frogs are required.
 - (vi) The increase in weight when soaked in water for 24 hours shall not be more than 20% of the dry weight of the bricks.
- (d) If required by the Site Engineer, the necessary test shall be conducted at the contractor's expense to ensure quality. In general, the bricks shall be of the best quality locally available.

Bricks used for masonry in cement mortar or composite mortar shall be thoroughly soaked in clean water for at least an hour immediately before use (The absence of bubbling when the soaked brick is immersed in water is the test for thorough soaking). The soaked bricks shall be kept on a platform free from dirt, mud or any foreign element. Bricks shall be laid in English bond unless otherwise specified. Care must be taken that the bricks are perfectly clean and free from lime, moss or dirt of any kind. If necessary, they must be scrubbed before use. Half or cut bricks shall not be used except for closures which may be required to complete the bond. It shall be ensured that all horizontal and vertical joints are completely filled with mortars without any void in brickwork. Brickwork shall be raised truly plum (or true to required better where so specified). All courses shall be laid truly horizontal. Vertical joints shall be truly vertical and those in alternate courses shall be in the same vertical line. The thickness of brick courses shall be uniform. Great care must be taken to masonry in progress of construction damp. When work is left off for the day troughs shall be formed, by means of fillets of mortar 51mm high all round the unfinished work and shall be kept filled with water. Vertical or inclined surfaces must be frequently watered from a rose headed can. Water should not be dashed with violence against new work as this washes out the mortar. Should the work be delayed owing to holidays or for other reason, the contractor must make adequate arrangements for keeping the work wetted, and shall continue to do so for at least ten days or such longer time as directed, after the brickwork has been completed.

- (a) Brick work in cement mortar with 75 designation brick including racking out joints and curing complete as directed, in sub structure and superstructure in mortar of specified proportion.
- (b) 115mm thick 75 designation brick nogged wall in cement mortar embedded with protruding M.S. rod 6mm dia in column including racking out joint and curing complete as directed in super structure above plinth in proportion as specified.

7.0 CEMENT MORTAR:

- (i) Must be freshly mixed: Cement mortar will only be mixed in such quantities as can be used up on the work within half an hour of mixing. Mortar which has been mixed longer or which has taken its initial set will on no account be used on the work or remixed with fresh mortar. It must be immediately removed from the site or work.
- (ii) Method of mixing: The cement and sand will be mixed dry in the specified proportions, by turning over atleast three times on the mixing platform. Only sufficient water will then be added, thorough a rose of a watering can, to produce a workable mixture. The wet mortar will be thoroughly worked or mixed by repeatedly turning over, not less than three times on the mixing board.
- (iii) Size of mixing platform and precaution against list: All mixing of mortar must be done on platforms of angle size and workman bringing the material to and from the platform must not be permitted to walk about on it, thereby bringing mud or dirt to the place, where the mortar is being mixed. The platform must be clean and level and all joints closed or filled so that the cement is not washed out.
- (iv) Proportion of cement and sand: Where not otherwise specified, cement mortar for plaster will consist of one part of cement to two parts of sand. For mortar for brick or stone masonry work the proportion unless otherwise specified, will be one part of cement to three parts sand

8.0 WOOD WORK:

The work shall be carried out as per detailed drawings and/or as directed by the Engineer-in-charge. The wooden members of the frame shall be planed smooth and accurate to the full dimensions. Rebates, rounding, moldings etc. as shown in the drawing shall be done before the members are joined into frames. Timber will be 1st class seasoned as approved by the Engineer-in-charge.

Jointing - Jointing in timber frames must be made carefully and accurately. They shall be strong, neat and shall fit without wedging or filling. The joints shall be pinned with hard wood 10 to 15mm dia after the members of the frame are pressed together in a suitable vice-mechanism.

Surface treatment - Woodwork shall be painted, oiled, polished or otherwise treated as specified. All portions of timber abutting against masonry or concrete portion of building shall be coated with boiling coat tar or other type of approved wood preservative or primer, before placing them in final position.

Hold fasts - Hold fasts used for fixing doors and window frame shall be made of 40 x 3mm flat iron long. It shall have a hole on one end for fixing to frame with 10mm dia bolt, at the other end the flat iron shall be split and bent at right angles in the opposite direction. The hold fast shall be tightly fixed to the frame by means of bolts, the bolt hole in frame being plugged suitably and finished neat. The hold fast shall be embedded into masonry by concrete block as described in the item of work.

9.0 DOORS:

- (i) The flush door shutters (solid core type) decorative and non-decorative type shall conform to IS: 202 (Part I). The door should be fixed using 4 nos. of hinges 125mm long ensuring that the hinges are not fixed less than 150mm from the edges with 8 nos. parallel sunk fully threaded screws 38mm long, should be used for fixing the hinges to the flush door after drilling a pilot hole 2.50mm dia 40mm long. Screws should not be hammered. Lock, tower bolts etc. necessary, if any to be paid separately.
- (ii) Door frame (Chowkaths) of door, windows, other similar works wrought, framed and fixed in position in contact with C.C. or brick masonry walls including supplying, fitting and fixing with M.S. flat hold fast (40mm x 3mm x 250mm) as per design and embedded in cement concrete block in prop 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C. and masonry as directed and specified.

10.0 STEEL DOORS, WINDOWS AND VENTILATORS:

The type, over all sizes, side opening position of steel doors, windows and ventilators shall be specified as per details given in IS: 1038, specification for steel doors, windows and ventilators. Both the fixed and opening frames shall be constructed of sections, which have been cut to length and mitred. The corners of fixed and opening frames shall be electrically flash butt welded to form a solid and true right angle and all frames shall be square and flat.

Side-hung shutter windows - Window shutters shall be hung on projecting type hinges (not less than 65mm and not more than 75mm wide). One leaf of the hinge shall be welded into a slot in the outer frame and the other leaf of the hinge riveted to the opening shutters. Friction hinges may be provided for side-hung shutter windows in which case peg-stay may not be required. In cases where non-friction type hinges are provided, the windows shall be fitted with peg-stays, which shall be either of hot pressed brass, cast brass, aluminium or steel protected against rusting and shall be 300mm long with steel peg and locking bracket. The peg stay shall have three holes to open the side hung casements in three different angles.

Top Hung Ventilators - The steel butt hinges for top hung ventilators shall be riveted to the fixed frame or welded to it after cutting a slot in it. Hinges to the opening frame shall be riveted or welded and cleaned off. Top hung casements shall be provided with a peg stay three holes which when closed shall be held tightly by the locking bracket. The locking bracket shall either be fitted to the fixed frames or to the window.

Glazing of metal doors, windows and ventilators - Doors and windows shall normally be glazed with glazing putty on unless otherwise specified. Putty shall be applied between glass panes and glazing bars. Putty shall be applied over the glass panes, which shall stop 2 to 3mm from the sight line of the back rebate to enable the painting to be done

upto the sight line, to seal the edge of the putty to the glass. The oozed out back putty shall be cleaned and cut to straight line.

11.0 PLASTER WORK:

- (i) Preparation of surface: All putlog holes in brick work and junction between concrete and brick work shall be properly filled in advance. Joints in brick work shall be raked about 10mm and concrete surface hacked to provide grip to the plaster. Projecting burrs of mortar formed due to gaps at joints in shuttering shall be removed. The surface shall be scrubbed clean with wire brush/coil brush to remove dirt, dust etc. and the surface thoroughly washed with clean water to remove efflorescence, grease and oil etc. and shall be kept wet for a minimum of six hours before application of plaster.
- (ii) Proportion: The cement plaster shall be in specified proportion of cement and sand.
- (iii) Mixing: The cement and sand should be thoroughly mixed in dry condition. After dry mixing the materials shall be wetted with just sufficient water to bring the mortar to proper consistency of thick paste. Mortar should be used immediately after mixing and arrangements shall be made so that not more than 30 minutes elapse between the cement first coming in contact with the moisture and laying. In all exterior plaster works waterproofing compound to be added to the mortar as per the specification of the manufacturer, if not indicated in the item rate quoted should be inclusive of the same.
- (iv) Placing: Plaster shall be laid over the prepared surface in one coat to the specified thickness and rubbed with "PATAS" and trowel and shall be smooth, free from waviness and trowel marks.
- (v) Sequence of operations: For external plaster, the plastering operations shall be started from the top floor and carried downwards. For internal plaster, the plastering operations may be started wherever the building frame and cladding work are ready and the temporary supports of the ceiling resting on the wall or the floor have been removed.
- (vi) Curing: Each coat shall be kept damp continuously till the next coat is applied or for a minimum period of 7 days. Moistening shall commence as soon as plaster is hardened sufficiently. Soaking of walls shall be avoided and only as much water as can be readily absorbed shall be used.

12.0 DAMP PROOFING COURSE:

It shall consist of 1:1.5:3 plain cement concrete with approved water proofing materials such as cico, impermo etc. of specified thickness. Edges of DPC shall be straight, even and vertical side shuttering shall consist of wooden or steel forms and shall be strong and properly fixed so that it is not disturbed during compaction and mortar or cement slurry does not leak through. When forms are struck the surface should be smooth without any honeycombing. The surface shall be kept wet for seven days. Before commencing the superstructure work, the top of concrete course shall be dried and cleaned of all materials. Blown type bitumen shall then be applied uniformly on the surface and the side of the concrete coming in contact with flooring on the inside shall also be painted with bitumen.

13.0 WASHABLE DISTEMPER/OIL BOUND DISTEMPER/PLASTIC EMULSION PAINTING:

Preparation of surfaces: The surface shall be thoroughly brushed free from dust, dirt, grease, mortar droppings and other foreign matter and sand papered smooth. Thereafter a smooth surface shall be prepared by applying putty, made of plaster of paris mixed with water on the entire surface including filling up the undulation and then sand papering the same after it is dry.

Primer coat: The primer where used as on undecorated surfaces shall be alkali resistance primer or acrylic based cement primer as specified in the item. These shall be of the same manufacture as oil bound distemper/ plastic emulsion paint. If the wall surface plaster has not dried completely alkali resistance primer shall be applied before distempering the walls. But if the distempering is done after the wall surface is dried completely, cement primer shall be applied.

Application of distemper/plastic paint coat : For undecorated surfaces, after the primer coat has dried for at least 48 hours, the surface shall be lightly sand papered to make it smooth for receiving the distemper/plastic paint taking care not to rub out the priming coat. All loose particles shall be dusted off after rubbing. Minimum two coats of

distemper/plastic paint shall be applied with brushes in horizontal strokes followed immediately by vertical, which together shall constitute one coat. The subsequent coats shall be applied after a time interval of at least 24 hours between consecutive coats to permit of the proper drying of the preceding coat. For decorated surfaces, the distemper/plastic paint shall be applied in two coats or more over the prepared surface in the same manner as for undecorated surfaces.

Purchase of paint, varnish or oil: Only the best brands obtainable will be used and should the contract permit the contractor to supply any paint, oil or varnish he shall purchase only such brands as the Site Engineer shall approve of in writing. All purchases must be made direct from the manufacturers or through an agent approved of in writing by the Site Engineer. Should the Site Engineer so direct copies of all indents and receipts for purchase must be submitted for inspection. Paint etc. to be purchased in sealed containers. All paints, oil or varnishes supplied by the contractor must be produced for the inspection of the Site Engineer of the work in the manufacturers sealed and unopened containers. All containers from which the contents have been removed and are not required on the work must be destroyed and no extra payment will be granted for such destruction. Only ready mixed or varnished of the make or brand specified will be permitted to be used exactly as received from the manufacturer without any admixture what so ever unless previously authorized, in writing, by the Site Engineer.

14.0 SYNTHETIC ENAMEL PAINT:

Preparation of surface: The surfaces before painting shall be cleaned of all rust, scale, dirt and other foreign matter sticking to it with wire brushes, steel wool in case of steel surfaces and sand papering in case of wooden surfaces. Thereafter, one coat approved primer paint will be applied on the surface. Synthetic enamel paint (Superior quality as approved) shall be applied - two or more coats to give an even shade.

15.0 FILLING EXCAVATED EARTH IN FOUNDATION TRENCHES AND PLINTH OR UNDER FLOORS:

As soon as the work in foundation has been completed and measured, the sides of foundations shall be cleared of all debris, bricks bats, mortar dropping etc., and filled with earth in layers not exceeding 30cms, each layer shall be adequately watered, rammed and consolidated before the succeeding one is laid. Earth shall be rammed with iron rammers where feasible, and with the butt ends crowbars where rammer cannot be use.

The plinth shall be similarly filled with earth in layers not exceeding 30cms, adequately watered and consolidated by ramming with iron or wooden rammers. When filling reaches the finished level, the surface shall be flooded with water for at least 24 hours, allowed to dry and then rammed and consolidated, in order to avoid any settlement at a later stage.

Sand filling in plinth: Sand shall be clean and free from dust, organic and other foreign matter. Sand filling shall be done in a manner similar to earth filling in plinth. Concreting of floor shall not be started until the Engineer-in-charge has inspected and approved the filling.

16.0 CERAMIC TILE FLOORING/SKIRTING:

- (a) Preparing of Plinth Filling: All plinth fillings shall be properly consolidated in layers, watered, rammed and allowed to consolidate to the Site Engineer's satisfaction before any flooring is laid. When the flooring is to be laid over a foundation of sand, broken stone, brick or a combination of sand and broken stone or brick the filling shall be removed to a depth equal to the thickness of the flooring plus such foundation layers.
- (b) Foundations:
 - (i) Sub-layer of sand: After the plinth filling has been prepared as detailed in specification above a sublayer of sand 300mm deep shall be laid watered and brought to an even surface.
 - (ii) Layer of broken stone or brick : Over the sand a foundation course of bricks shall be laid and the interstices filled in with sand. The bricks shall be tightly packed and laid so as to break joint.

(c) Tile floors:

- (i) Foundation and cement floating under tiles: Over the foundation as in (b) above 2 coats of cement plaster, 1 part of cement to 1 part of sand, prepared in a very liquid condition will be floated over it and allowed to set.
- (ii) Laying: After the tiles have been soaked in water for at least two hours and the cement foundation sprinkled with water, laying work may commence and shall start from the centre of the room or area to be tiled, work being continued in both directions so that borders are laid last. A layer of 20mm thick (average) cement mortar: 1:4 (1 cement: 4 sand) (unless otherwise specified) shall be provided as bedding for the tiles. Each tile will be laid in and drawn up in neat cement of honey like consistency at 4.40 Kg of cement per sqm, care being taken to exclude air bubbles. Threads shall be stretched cross the surface, at intervals, parallel to the short sides of the area to be tiled to serve as guide lines. Each tile being gently tapped with a wooden mallet till it is properly bedded. The joints shall be grouted with white cement and matching pigment complete. The surface of the flooring shall be checked frequently with a straight edge so as to obtain a true surface with slope, if required. At position where full tiles cannot be fixed, the tiles shall be cut to size and smoothened to give straight and true joints.
- (iii) Cleaning: After a small area has been laid all superfluous cement will be wiped off the surface. Stains shall be removed by moistening with hydrochloric acid and rubbing with pumice stone and afterwards washing with warm water.
- (iv) Curing: The floor shall be kept wet for a minimum of 7 days so that bedding and joints set properly.

17.0 PLINTH PROTECTION AND STORM WATER DRAIN:

Plinth protection and storm water drain shall be provided along the outer periphery of the building as per drawing and with PCC (1:3:6) over bricks flat laid in CM 1:4 and finished with 15mm thick cement plaster in prop. 1:2 with floating coat of neat cement finish.

18.0 SANITARY, PLUMBING WORKS AND WATER SUPPLY FITTINGS & FIXTURES:

All sanitary, plumbing and water supply fittings and fixtures shall conform to the specifications and particular make specified in the items of work and direction of Engineer-in- charge. All waste and soil pipes and fixtures shall conform to IS specifications and shall be jointed as specified.

- (i) Indian/European W.C. with PVC flushing cistern as per drawing & specification.
- (ii) Wash basin and urinal pan at toilet as per drawing & specification. Wash basins to be provided with C.I. brackets.
- (iii) Providing soap tray in the toilet.
- (iv) Rain water pipe as per drawing & specification
- (v) Gully trap
- (vi) Inspection chambers, manholes, septic tanks, drainage pipes etc. as per drawings.
- (vii) Medium class GI pipes with all GI fittings clamps and specials etc. for water supply lines 25mm, 20mm & 15mm.
- (viii) Concealed PE-AL-PE pipes for water supply.

19.0 P/F PRE PAINTED GALVALUME/GALVANISED SHEET ROOFING:

Pre Painted Galvalume Sheet at all levels shall be fitted and fixed with self drilling, self tapping screws complete (roof trusses, purlins to be measured and paid separately) of make Dyna roof/sathyam/century wells and of thickness as specified in the respective items. Preferably it shall be carried out by a reputed party.

- (a) Cut the pipe square by cutter to the required and proper length.

20.0 ANTITERMITE TREATMENT (IS 6313):

Injecting chemical emulsion of Chlorpyrifos emulsifiable concentrates 20% with 1% concentration for pre-construction anti-termite treatment and creating a continuous chemical barrier under and all-round the column pits, trenches, top surface of plinth filling, junction of walls and floor along the external perimeter of building expansion

joints, surroundings of pipes and conduits etc. complete as per specification (plinth area of the building at ground floor only shall be measured for payment) and to be executed by reputed party.

21.0 Aluminum work:

Aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.

- 22.0** Providing, assembling and supplying vision glass panels (IGUs) comprising of hermetically-sealed 6-12- 6 mm insulated glass (double glazed) vision panel units of size and shape as required and specified, comprising of an outer heat strengthened float glass 6mm thick, of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade, an inner Heat strengthened clear float glass 6mm thick, spacer tube 12mm wide, desiccants, including primary seal and secondary seal (structural silicone sealant) etc. all complete for the required performances, as per the Architectural drawings, as per the approved shop drawings, as specified and as directed by the Engineer-in-Charge. The IGUs shall be assembled in the factory/ workshop of the glass processor. (Payment for fixing of IGU Panels in the curtain glazing is included in cost of item No.25.2)

For payment, only the actual area of glass on face # 1 of the glass panels (excluding the areas of the grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm.(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, + 12mm Airgap + 6mm Heat Strengthened clear Glass of approved make having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m² degree K etc. The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.

- 23.0** Designing, fabricating, testing, protection, installing and fixing in position semi(grid) unitized system of structural glazing (with open joints) for linear as well as curvilinear portions of the building for all heights and all levels, including:

- (a) Structural analysis & design and preparation of shop drawings for the specified design loads conforming to IS 875 part III (the system must passed the proof test at 1.5 times design wind pressure without any failure), including functional design of the aluminum sections for fixing glazing panels of various thicknesses, aluminium cleats, sleeves and splice plates etc. gaskets, screws, toggles, nuts, bolts, clamps etc., structural and weather silicone sealants, flashings, fire stop (barrier)-cum-smoke seals, microwave cured EPDM gaskets for watertightness, pressure equalisation & drainage and protection against fire hazard including.
- (b) Fabricating and supplying serrated M.S. hot dip galvanised / Aluminium alloy of 6005 T5 brackets of required sizes, sections and profiles etc. to accommodate 3 Dimensional movement for achieving perfect verticality and fixing structural glazing system rigidly to the RCC/ masonry/structural steel framework of building structure using stainless steel anchor fasteners/ bolts, nylon separator to prevent bimetallic contacts with nuts and washers etc. of stainless steel grade 316, of the required capacity and in required numbers.
- (c) Providing and filling, two part pump filled, structural silicone sealant and one part weather silicone sealant compatible with the structural silicone sealant of required bite size in a clean and controlled factory / work shop environment, including double sided spacer tape, setting blocks and backer rod, all of approved grade, brand and manufacture, as per the approved sealant design, within and all around the perimeter for holding glass.
- (d) Providing and fixing in position flashings of solid aluminium sheet 1 mm thick and of sizes, shapes and profiles, as required as per the site conditions, to seal the gap between the building structure and all its interfaces with curtain glazing to make it watertight.
- (e) Making provision for drainage of moisture/ water that enters the curtain glazing system to make it watertight, by incorporating principles of pressure equalization, providing suitable gutter profiles at bottom (if required), making necessary holes of required sizes and of required numbers etc. complete. This item includes cost of all inputs of designing, labour for fabricating and installation of aluminium grid, installation of glazed units, T&P,

scaffolding and other incidental charges including wastages etc., enabling temporary The NIT approving authority will decide the necessity of testing on the basis of cost of the work, cost of the test and importance of the work. Performance Testing of Structural glazing system Tests to be conducted in the NABL accredited lab or any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025:

- (i) Performance Laboratory Test for Air Leakage Test (-50pa to - 300pa) & (+50pa to +300pa) as per ASTM E-283-04 testing method for a range of testing limit 1 to 200 MVhr.
- (ii) Static Water Penetration Test. (50pa to 1500pa) as per ASTM E- 331-09 testing method for a range up to 2000 ml.
- (iii) Dynamic Water Penetration (50pa to 1500pa) as per AAMA 501.01- 05 testing method for a range upto 2000 ml.
- (iv) Structural Performance Deflection and deformation by static air pressure test (1.5 times design wind pressure without any failure) as per ASTM E-330-10 testing method for a range upto 50 mm 5. Seismic Movement Test (upto 30 mm) as per AAMA 501.4-09 testing method for Qualitative test, Tests to be conducted on site. 6. Onsite Test for Water Leakage for a pressure range 50 kpa to 240 kpa(35psi) upto 2000 ml structures and services, cranes or cradles etc. as described above and as specified. The item includes the cost of getting all the structural and functional design including shop drawings checked by a structural designer, duly approved by Engineer-in-charge. The item also includes the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working structural glazing as specified, cleaning and protection till the handing over of the building for occupation. In the end, the Contractor shall provide a water tight structural glazing having all the performance characteristics etc. all complete as required, as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer in-Charge.

Note: -

- (i) The cost of providing extruded aluminium frames, shadow boxes, extruded aluminium section capping for fixing in the grooves of the curtain glazing and vermin proof stainless steel wire mesh shall be paid for separately under relevant items under this sub- head. However, for the purpose of payment, only the actual area of structural glazing (including width of grooves) on the external face shall be measured in sqm. up to two decimal places.
- (ii) The following performance test are to be conducted on structural glazing system if area of structural glazing exceeds 2500 Sqm from the certified laboratories accredited by NABL (National Accreditation Board for Testing and Calibration Laboratories), Department of Science & Technologies, India. The cost of testing is payable separately.

24.0 Providing and supplying aluminium extruded tubular and other aluminium sections as per the architectural drawings and approved shop drawings, the aluminium quality as per grade 6063 T5 or T6 as per BS 1474, including super durable powder coating of 60-80 microns conforming to AAMA 2604 of required colour and shade as approved by the Engineer-in-Charge. (The item includes the cost of material such as cleats, sleeves, screws etc. necessary for fabrication of extruded aluminium frame work. Nothing extra shall be paid on this account).

25.0 Providing and fixing mineral fiber false ceiling tiles at all heights of size 595X595mm of approved texture, design and pattern. The tiles should have Humidity Resistance (RH) of 99%, Light Reflectance ? 85%, Thermal Conductivity k = 0.052 - 0.057 w/m K, Fire Performance as per (BS 476 pt - 6 & 7) in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.33 mm thick (galvanized @120 gsm) comprising of main T runners of 15x32 mm of length 3000 mm, cross T of size 15x32mm of length 1200 mm and secondary intermediate cross T of size 15x32 mm of length 600 mm to form grid module of size 600x600 mm suspended from ceiling using galvanized mild steel item (galvanised@80gsm) 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L-shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24x24X3000 mm made of 0.40 mm thick sheet, to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40 mm long dry wall S.S. screws. The exposed bottom portion of all T-sections used in the false ceiling support system shall be pre-painted with polyester baked paint, for all heights. The work shall be carried out as

per specifications, drawings and as per directions of the engineer-in-charge. With 16 mm thick beveled tegular mineral fiber false ceiling tile (NRC 0.55 to 0.6).

26.0 Providing and supplying Spandrel Glass Panels comprising of 6 mm thick heat strengthened monolithic float glass of approved colour and shade with reflective soft coating on surface # 2 of approved colour and shade so as to match the colour and shade of the IGUs in the vision panels etc., all complete for the required performances as specified, as per the Architectural drawings, as per the approved shop drawings, as specified, and as directed by the Engineer- in- Charge. For payment, only the actual area of glass on face # 1 of the glass panels (but excluding the area of grooves and weather silicone sealant) provided and fixed in position, shall be measured in sqm. (Payment for fixing of Spandrel Glass Panels in the curtain glazing is included in cost of relevant Item*).“(i) Coloured tinted float glass 6mm thick substrate with reflective soft coating on face # 2, having properties as visible Light transmittance (VLT) of 25 to 35 %, Light reflection internal 10 to 15%, light reflection external 10 to 20 %, shading coefficient (0.25- 0.28) and U value of 3.0 to 3.3 W/m² K etc. . The properties of performance glass shall be decided by technical sanctioning authority as per the site requirement.

27.0 Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building , for all heights and all levels etc. including:

- (a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design.
- (b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc.
- (c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base framework for ACP cladding is payable under the relevant aluminium items. The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.

28.0 TESTS FOR QUALITY CONTROL:

- (A) The various tests shall be carried out by the contractor as and when instructed by the Engineer-in-charge based on the prevailing OIL SOP (Standard Operating procedure) and no separate payment shall be made unless otherwise specified in the contract. Following tests /test certificate to be produced by the contractor at his own cost as and when directed by the Engineer-in-charge.
 - (i) Water for construction and curing ('PH' value should not be less than 6
 - (ii) Cube test for RCC work. (Field Test)
 - (iii) Test for TMT bars
 - (iv) Manufacture Test certificate for steel materials, M.S. rod, Tor steel should be produced prior to its use in construction.
 - (v) Brick test as per BIS 1077 and BIS 3495 (part 1 and 2)

- (vi) Test for fine and course aggregate
- (vii) Any other tests as per the direction of Engineer-in-charge.

(B) Contractor must arrange for pit/tank for curing of concrete cubes at site at his own expense. Contractor must provide Cube Testing Machine at site.

29.0 MEASUREMENT & PAYMENT:

Payment for all works done shall be made on the basis of actual work done as per the schedule of rates. For all extra work done on the advice of the Company's Engineer and which is not included in the schedule of rates, deviation order for the same shall be made on the rates as decided by the Company's Engineer.

30.0 SAFETY MEASURE:

Safety measures as per OIL regulations shall be strictly adhered to by the Contractor. Safety belts and other measures taken by the Contractors shall be borne by the Contractor. If any loss or damage is caused to life during the erection and execution, the contractor shall be fully responsible for the loss.

31.0 RECORD KEEPING:

The contractor must provide a temporary site office to maintain the following record keeping & other miscellaneous works. The cost for said temporary office shall be borne by Contractor. No extra payment for such temporary office will be borne by OIL:

- (i) A site order book will be maintained at site which will be in the custody of the Engineer-in-charge, or his representative and all instructions given to the Contractor will be recorded in the site order book and the same has to be signed by the contractor to comply with the instruction given therein.
- (ii) A register to be maintained at site which will be in the custody of the Engineer-in-charge or his representative to maintain the records of use of cement and the same has to be signed by the contractor.
- (iii) A separate register to be maintained at site by the contractor to record the works executed and remarks columns to be added in this to record the hindrance.

32.0 In case of any ambiguity/conflict among various documents the decision of Engineer-in-charge will be final and binding.

33.0 CONTRACTOR'S GODOWN:

The contractor must make adequate arrangements as directed by the Engineer-in-Charge, for the storage in suitable godown of all perishable materials such as cement. On no account may cement be stacked on the ground either in or outside godown. The contractor shall also construct a temporary office at site, before starting the execution of work at site, as directed by the Engineer- in charge.

34.0 SPECIAL INSTRUCTION TO THE CONTRACTOR:

- (i) Contractors must use a mixture machine and vibrator for the RCC work. The Contractor shall use a pump if needed for dewatering for the excavation job for which no extra payment will be made.
- (ii) Watch and ward, loss or damage to Company's property, theft and other incidental charges shall be Contractor's responsibility.
- (iii) Efficient workmen to be engaged by the Contractor. No workman under the age of 18 yrs. shall be engaged by contractor at site.
- (iv) The Contractor's representative should report to Engineer-in charge on all working day's at 7.00AM for instruction.
- (v) Materials, if rejected should be removed from site within 48(forty eight) hours of rejection, failing which the company reserves the right to get the rejected materials removed at the risk and cost of the contractor.

- (vi) The Company reserves the right to get part or whole work completed through other agency at the risk and cost of the contractor if he fails to complete the work within the stipulated time without any valid reasons. The Company's decision shall be final and binding on the Contractor.
- (vii) Water that may accumulate on the site during the progress of the works or in trenches and excavation from other than accepted risks shall be removed from the site to the satisfaction of the Engineer-in-charge and at the Contractor's expense.
- (viii) If needed water and electricity will have to be arranged by the Contractor at his own cost. However, if felt, water and single-phase power supply may be provided by Co. on Chargeable basis depending on its availability & approved by the competent authority.
- (ix) The Contractor and his workmen have to strictly observe the safety precautionary rules as per Mines Act (Latest edition) while executing the work.
- (x) No road closure will be allowed during execution of work and necessary traffic signal/road boards to be displayed at proper place by the Contractor at his own cost. The Contractor shall be wholly responsible for any accident arising out of non-fulfilment of this condition.
- (xi) The Contractor will be required to work expeditiously at the site.
- (xii) Welding and cutting sets with fuel & operator, welder, fitter etc. shall be arranged by the Contractor at his cost at the site for fabrication and erection work.
- (xiii) Hot and Cold permit, Gas leakage testing certificate issued by the Concerned Department to be submitted by the contractor (wherever applicable) to Engineer-in-Charge before starting of dismantling or the other execution of job.
- (xiv) The contractor must engage at least one or as mentioned in the Contracts Agreement qualified Technical personal (Preferable BE/B Tech in Civil Engineering with minimum 3 years' experience or diploma in Civil Engineering with minimum 5 years' experience) for the overall execution of the job and the complete bio-data of the person should be submitted to the engineer in charge within 7 days of the signing of the Contract agreement. In case the contractor does not deploy qualified technical person as mentioned above, the company has right to penalize the contractor at a rate decided by the company.
- (xv) The contractor must submit a work plan in a bar chart for the overall job to complete it within 14 days of issuing of work order.

35.0 PLANTS AND EQUIPMENT TO BE PROVIDED BY THE CONTRACTOR:

- (a) Concrete Mixture Machine - 02 Nos.
- (b) Concrete Vibrator (Needle Type) - 02 Nos.
- (c) Sump Pump - 2 No.
- (d) Cube mould (150mm x 150mm x 150mm) - 9 Nos.
- (e) Welding and cutting set - 2 No.
- (f) Slump Cone- 2 Nos.
- (g) Dumper- 2 Nos.
- (h) Excavator- 1 No.
- (i) Crane - 1 No.

B. SCOPE OF ELECTRICAL WORK:

The SCC for the Electrical Part of the Tender comprises two basic parts as follows:

B1. GENERAL

B2. TECHNICAL**B1. GENERAL**

- 1.1 Special conditions of the contract shall be read in conjunction with the General Conditions of Contract, Bill of Quantities, specifications of work, drawings and any other document forming part of this contract wherever the context so requires.
- 1.2 Notwithstanding the sub-division of the documents into these separate sections and volumes, every part of each shall be deemed to be supplementary of every other part and shall be read with and into the contract so far as it may be practicable to do so.
- 1.3 Where any portion of the General Conditions of contract is repugnant to or at variance with any provisions of the Special conditions of Contract, then unless different intention appears, the provisions of the Special Conditions of Contract shall be deemed to override the provision(s) of General Conditions of Contract only to the extent that such repugnance or variance cannot be reconciled with the tender conditions of contract and shall be to the extent of such repugnance of variations, prevail; it being understood that the provisions of General Conditions of Contract shall otherwise prevail.
- 1.4 Wherever it is stated anywhere in this tender document that such and such a supply is to be effected or such and such a work is to be carried out, it shall be understood that the same shall be effected/carried out by the contractor at his own cost, unless a different intention is specifically and expressly stated herein or otherwise explicit from the context.
- 1.5 The materials, design and workmanship shall satisfy the relevant Indian Standards, the job specifications contained herein & codes referred to. Where the job specifications stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied. In the absence of any Standard/Specifications/Codes of practice for detailed specifications covering any part of the work covered in this tender, the instructions/directions of the Company will be binding on the Contractor.
- 1.6 The items given under Bill of Quantity shall be read in conjunction with scope of work, scope of supply (by Contractor) and job specifications and in case of any irreconcilable conflict between them the provision in the item under "Bill of Quantity" will override the corresponding provision only if the scope of work, scope of supply and job specifications, which cannot be reconciled in such cases the decision of Company shall be final and binding on the contractor.
- 1.7 In case of contradiction between Indian Standards, General Conditions of Contract, Special Conditions of contract, Specifications Drawings, Bill of Quantity, the following shall prevail in order of precedence.
 - (i) Letter of intent / Detailed Letter of intent along with statement of Agreed Variations and its enclosures.
 - (ii) Bill of Quantity.
 - (iii) Special Conditions of Contract.
 - (iv) Job specifications
 - (v) Drawings
 - (vi) General Condition of contract
 - (vii) Indian Standard/Technical/Material Specifications.

2.0 LOCATION OF SITE AND SITE PARTICULARS:

- 2.1 Near the existing fire station, OIL Moran.
- 2.2 The intending Bidder shall be deemed to have visited the site and familiarized himself thoroughly with the site conditions and job details before submitting the tender. Non familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the work in strict conformity with the drawings and specifications.

3.0 STATUTORY REQUIREMENT FOR WORK:

- 3.1 Contractor shall employ work persons with valid wireman permit (covering relevant portions), issued/recognized by State Licensing Board, Govt. of Assam to carry out all electrical jobs and shall deploy one supervisor holding valid Electrical supervisor's competency certificate (covering relevant portions), issued/recognized/endorsed by State Licensing Board, Govt. of Assam for supervision of electrical jobs.
- 3.2 Quality of jobs carried out by the Contractor shall be of high standard and should be as per the norms of BIS, NEC, CEA Regulations and other electrical standards recognized by the company.

4.0 POWER:

Electricity required for wiring purposes shall be arranged by the contractor. However, electricity may be provided by the Company at its discretion to use drill machine or any other portable tools required for wiring purposes if available at nearest point. The Contractor shall have to arrange for the required switch board with proper safety device like RCBO/ELCB/RCCB to draw power and use safely from the existing source.

5.0 SCOPE OF SUPPLY:

Company does not envisage supplying any material for this work & contractor shall arrange all materials, instruments, tools and tackles etc. required for execution of the work.

6.0 SCOPE OF WORK:

Brief details of work to be carried out by the contractor are as described below. This will include supply, storage, laying, installation, jointing and testing, obtaining approvals, testing and commissioning and completion of different works. The contractor shall finally give a certificate of electrical work executed by him stating the job done as per the requirement of Central Electricity Authority Regulations, 2010. The work shall be carried out as described in Schedule of Quantities (SOQ), specifications, and drawings, BIS/NEC guidelines and as per the instructions by Engineer-in-charge (electrical), of the Company. The scope of work shall cover electrification works of any office building/Industrial house/ residential area or as specified by concerned Engineer in charge. The broad items/activities covered under "electrical works" shall include the supply, installation, testing and commissioning of any or all of the following:

- (i) Point wiring of light points, call bell points, Ceiling fan points, and exhaust fan points.
- (ii) Plug points, general power points, metal clad plug & socket outlet points etc. including light and power accessories etc., complete in all respects.
- (iii) All surface/concealed wiring through BIS marked medium/heavy duty PVC Casing capping/conduit, on or through wall, roof, floor beams, false ceiling, floors etc.
- (iv) Cables from Main Distribution Board (VTPN DB) to Sub Distribution Board (TPN DB), sub main wiring from main/sub distribution boards to various final distribution boards/switch boards.
- (v) Main Distribution Boards (VTPN DB), Sub-Main Distribution Boards (TPN DB) and Sub Distribution Boards (SPN DB), as required.
- (vi) Light fixtures, and ceiling, wall & exhaust fans.
- (vii) Earthing of all Main VTPN DB, TPN DBs and SPN DBs etc. complete in all respects.

7.0 SCHEDULE OF QUANTITIES/RATE:

- 7.1 The quantities shown against the various items are only approximate and may vary to any extent individually subject to relevant clause of General Conditions of Contract. Any increase or decrease in the quantities shall not form the basis for alteration of rates quoted and accepted including where low/high rates have been quoted by the successful bidder.
- 7.2 The Engineer in charge reserves the right to interpolate or extrapolate the rate for any new item of work not finding a place in the Bill of Quantity, for similar items of lower and/or higher magnitude available in the Bill of Quantity.
- 7.3 In case any activity though specifically not covered in Bill of Quantity description but covered under scope of work/spec./drawing etc., contractor has to carry out the same without any extra claim.

- 7.4 The words "Bill of Quantity", "BOQ", "Schedule of Quantity" and "SOQ", appearing in this document, carry the same meaning.

8.0 PRICE VARIATION:

OIL requires "FIRM PRICES" as indicated in General Conditions or Contract during Contract period and no material or labour escalation shall be admissible on any account whatsoever.

9.0 MEASUREMENTS, BILLING & PAYMENT:

- 9.1 All Point wirings shall be measured in terms of no. of points considering approximately 7.0 metre wiring on an average except the wiring to the high bay lights to be installed in the garage and maintenance bay. An approximate length of 15 metre wiring on an average has been considered for wiring of the high bay light fittings.
- 9.2 All works shall be measured in metric system based on actual work done as per the terms and conditions of the Tender documents.
- 9.3 The final bill shall be submitted by the Contractor within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the contractor (approved by OIL) whichever is earlier. No further claims shall be made by the Contractor after submission of the final bill and these shall be deemed to have been waived and extinguished.
- 9.4 Final bill based on Schedule of Quantity shall be prepared and submitted based on joint measurements (OIL and contractor). The contractor shall ensure that bills are submitted promptly and timely.
- 9.5 Contractor must ensure that payments have been made to his personnel (engaged under this contract) in time for smooth functioning of the Contract which shall not be less than the minimum wages.

10.0 DEDUCTIONS FOR INCORRECT WORK:

If the Engineer-in-charge (Electrical) deems it expedient to correct work damaged or not done in accordance with the contract, an equitable deduction from the contract price shall be made thereof and the decision of the engineer shall be final.

11.0 CONTRACT DRAWINGS:

The contractor has to prepare all working drawings mentioned below and obtain approval from the engineer in charge (Electrical) before starting of the civil work.

- (a) Layout diagram of complete wiring showing route for wiring from VTPN DB to TPN DB, TPN DB to SPN DB, SPN DB to Switch Board, Light and ceiling positions etc.
- (b) Schematic diagram for complete electrical work.
- (c) The contractor shall keep at least one copy each of drawings, conditions of contract, specifications, instructions and schedule of quantities at the site of works available for reference by any authorized representative Engineer-in-charge (Electrical), at all times during the progress of the works.

12.0 COMPLETION DOCUMENTS:

The contractor shall submit 4 copies of AS BUILT layout drawings to OIL after completion of the work. These complete drawings shall give the following information:

- (a) Layout of all equipment, switch boards, DB's etc.
- (b) Location of DB's, Sub-mains, junction boxes & earthing
- (c) Schematic diagram for overall electrical distribution
- (d) Layout of lighting & power wiring
- (e) Cable schedule

- (f) Operation & Maintenance Manuals for equipment if any
- (g) Manufacturers test report & data sheets for equipment if any
- (h) Electrical test certificate for the electrical work done as per CEAR, 2010

B2. TECHNICAL**1.0 SCOPE:**

This section covers the general technical requirements and measurement system of the various components in Internal Electrical Installation works.

2.0 TERMINOLOGY:

The definition of terms shall be in accordance with IS:732-1989 (Indian Standard Code of Practice for Electrical Wiring), except for the definitions of "point", "circuit", and "sub-main wiring", which are defined hereunder.

2.1 POINT WIRING:**2.1.1 Point wiring:**

A point wiring (other than socket outlet point wiring)

- Shall extend from the controlling switch/MCB/controller to the corresponding point/device (lamps/luminaire/fan/exhaust fan/call bell etc.). Point/device refers to either single devices (like lamps, fans, etc.) or multiple devices controlled from one single switch/MCB/controller (like chandeliers, group of decorative lamps, etc.). Point wiring does not include switch, which is covered under a separate item (supply and fixing of modular switch).

- Includes supply & fixing of all items as specified in SOQ, like device holders, wires, conduit/casing-capping, accessories like screws, rawl plug, outlet boxes, junction boxes, pull-through boxes etc., including metal/PVC boxes if any, provided with switch boards for loose wires/conduit terminations, bushed conduit or porcelain tubing where wiring cables pass through wall etc.

- Shall be measured in terms of number of "points" only. There shall be no linear measurement for point wiring, or for the number and size of wires used.

- Details of wire size, material, conduit/casing capping, colour of insulation as in SOQ.

- It is to be noted that point wiring is estimated to cover approximately 7.0 metre (for all light and fan points) / 15 metre (for the high bay lights) wiring on an average.

2.1.2 Light plug point (socket outlet point) wiring:

A Socket ("plug point") outlet point wiring

- Shall extend from the switchboard to the corresponding wall socket outlet. Sockets may include a single socket or multiple sockets (of same rating) in one module.

- Includes plug points (6A), and other similar wall outlets.

- Shall be reckoned as total length of wiring and shall be measured on linear basis along the run of wiring.

- Details of wire size, material, conduit/casing capping, colour of insulation as in SoQ.

2.2 CIRCUIT WIRING:

Circuit wiring

- Shall extend from the distribution board up to the switch board/box.

- Include all wiring accessories

- Shall be reckoned as total length of wiring and measured on linear basis along the run of wiring

- Details of wire size, material, conduit/casing capping, colour of insulation as in SoQ.

2.3 POWER PLUG POINT WIRING:

Power plug point wiring

- Shall extend from distribution board to 5/6 A and 15/16 A 6 pin socket outlet.
- Include all wiring accessories
- Shall be reckoned as total length of wiring and measured on linear basis along the run of wiring
- Details of wire size, material, conduit/casing capping, colour of insulation as in SoQ.

2.4 SUB-MAIN WIRING

Sub-main wiring

- Shall extend from one main/distribution switchboard to another.
- Shall be reckoned as total length of wiring and measured on linear basis along the run of wiring.
- Includes all wiring accessories
- Details of wire size, material, conduit/casing capping, colour of insulation as in SOQ.

3.0 OTHER WIRING WORKS:

As per the details given in the SOQ.

4.0 SYSTEM OF DISTRIBUTION AND WIRING:**4.1 Control at the point of entry of supply:**

There shall be a circuit breaker on each live conductor of the supply mains at the point of entry.

4.2 Distribution:

The wiring shall be done on a distribution system through main and/or branch (sub-main) distribution boards. The system design as well as the locations of boards shall be as indicated in BOQ/drawings or as specified by the OIL Engineer-in-charge. Main distribution board (VTPN) shall be controlled by a circuit breaker. Each outgoing circuit shall also be controlled by a circuit breaker. The branch distribution board shall be controlled by a circuit breaker. Each outgoing circuit shall be provided with a miniature circuit breaker (MCB) of specified rating on the phase or live conductor. The loads of the circuits shall be divided, as far as possible, evenly between the numbers of ways of the distribution boards, leaving at least one spare circuit for future extension. The neutral conductors (incoming and outgoing) shall be connected to a common link (multilayer connector) in the distribution board and be capable of being disconnected individually for testing purposes. 'Power' wiring shall be kept separate and distinct from 'Lighting' wiring beyond the branch distribution boards.

4.3 Balancing of Circuits:

The balancing of circuits in three wire or poly phase installations shall be arranged beforehand to the satisfaction of the OIL Engineer-in-charge.

4.4 Wiring System:

- Wiring shall be measured only as per "point wiring" or "linear basis ", as explained above.
- Lights, fans and call bells shall be wired in the 'lighting' circuits.
- 6/16A combined socket outlets and other power outlets shall be wired in the 'Power' circuits.
- 5A/6A Socket outlet shall be wired in the light plug point circuit.
- The wiring throughout the system shall be such that there is no break in the neutral wire except in the form of linked MCCB's, MCB's, RCBO's etc.

4.5 Run of Wiring:

The wiring shall be in surface casing-capping and/or conduit. Due consideration shall be given for neatness, good appearance and safety.

5.0 JOINTS IN WIRING:

No bare conductor in phase and / or neutral or twisted joints in phase, neutral, and / or protective conductors in wiring shall be permitted. There shall be no joints in the through-runs of wires. There shall be no looping of earth wires and neutral wires between points. All light points, plug points etc. shall have their individual neutral and earth wires laying up to the switchboard or distribution board as the case may be.

Wiring Inspection/joint boxes shall be provided wherever required and as per good wiring practice in the roofs/walls/floors of the building.

6.0 RATINGS OF OUTLETS:

MCBs / switches / controllers for devices like light fittings, ceiling fans, exhaust fan etc. shall be rated according to the corresponding device capacity.

RCCBs for household circuits and similar installations should be rated for 30 mA tripping current.

Socket Outlets shall be rated according to their intended use only.

7.0 CAPACITY OF CIRCUITS:

'Lighting' circuit shall not have more than a total of 10 points of light, fan and socket outlets, or a total connected load of 800W per circuit, whichever is less. 'Power' circuit shall have only one outlet per circuit.

8.0 CONFORMITY TO CEA REGULATIONS, 2010 AND STANDARDS:

All electrical works shall be carried out in accordance with the provisions of CEA (Measures relating to safety and electric supply) Regulations 2010, National Electric code and National Building Code. The works shall also conform to relevant Indian Standards.

In all electrical installation works, relevant safety codes of practice shall be followed.

9.0 TESTING OF WIRING / INSTALLATION:

Wherever required by OIL's engineer-in-charge, capping shall not be fixed on the casing till the work has been inspected with the wires in position and approved. Inspection will be done in stages, as work progresses.

On completion of an electrical installation (or extension thereof) OIL's engineer-in-charge may require a test certificate for the installation/wiring job before energizing the circuits. In such instances, the contractor shall issue a test certificate, countersigned by a certified supervisor under whose supervision the job was carried out. The following tests should be carried out:

- (i) Insulation resistance test
- (ii) Earth continuity test
- (iii) Earth electrode resistance test

All necessary test instruments shall be arranged by the contractor.

10.0 GENERAL REQUIREMENTS OF COMPONENTS:**10.1 Quality of materials:**

All materials shall be of such design, size, material and make as to satisfactorily function under the rated conditions of operation.

10.2 Ratings of components:

All components in a wiring installation, conductors, switches and accessories shall be of appropriate ratings of voltage, current, and frequency, as indicated in BOQ.

10.3 Conformity to Standards:

All components shall conform to relevant Indian Standard Specification, including amendments or revisions thereof up to the date of tender acceptance.

10.4 General Notes:

- (a) Items shall be procured from the manufacturer or their authorized dealers only.
- (b) All the items shall be brand new and shall bear BIS monogram, wherever specified.
- (c) Item shall be guaranteed for a period of one year from the date of installation of materials against any manufacturing defect or workmanship.

11.0 WIRES AND CABLES:**11.1 Wiring:**

Conductors of wiring cables shall be of copper. The smallest size of conductor for various circuits including earthing shall be not less than as follows:

- 'Lighting': 1.5 sq. mm,
- 'Light Plug Point': 1.5 sq. mm,
- 'Circuit Wiring': 2.5 sq. mm,
- 'Power': 4 sq. mm,
- Sub-Main: 10 sq. mm,
- Main: 10 or 16 sq.mm, depending on the installed load.

All wiring cables shall be FRLS, single core, multi-stranded, PVC insulated, unsheathed, 1100 V grade, BIS marked & FIA & TAC approved, with flexible conductor.

12.0 PVC CONDUITS:

12.1 All rigid conduit pipes shall be of medium duty PVC conduit of good quality and be BIS marked.

12.2 The conduit wiring system shall be complete in all respects, including their accessories. Where a large number of control switches and/or fan regulators are required to be installed at one place, these shall be installed in more than one outlet box adjacent to each other for ease of maintenance.

12.3 Bunching of cables: Cables shall always be bunched so that the outgoing and return cables are drawn into the same conduit. Where the distribution is for three phase loads only, conductors for all the three phases and neutral wire shall be drawn in one conduit.

12.4 Providing earth continuity wires: The size of earth continuity wire shall be same size with the main wire for circuits. All metallic parts, switchboards, light fittings and power sockets shall be connected to the earth wires and the connection shall be electrically and mechanically sound.

13.0 WIRING ACCESSORIES:**13.1 Control switches for points:**

Control switches (single pole switches) carrying not more than 16A shall be modular type complete with plate, as specified, and the switch shall be "ON" when the knob is down. Control switch shall be placed only in the live conductor of the circuit. No single pole switch or fuse shall be inserted in the protective (earth) conductor, or earthed neutral conductor of the circuit.

13.2 Socket outlets:

6/16 pin Socket outlets shall be of shutter type modular complete with plate. These shall be rated either for 6A, or 6/16A combined. Combined 6 pin (6A/16A) socket outlet shall be provided in 'power' circuits wherever specified. 6A Socket outlets shall only be of 5 pin type; the earth pin shall be connected to earth through protective (loop earthing) conductor. The control switches for 6A and 16A socket outlets shall be kept along with the socket outlets. Generally, socket out let shall be installed at a height of above 30 cm but below 130 cm from the floor level. The layout of wiring shall be as approved by Engineer in Charge.

13.3 Switch box covers:

These shall be modular type of suitable size.

13.4 Ceiling rose – Only one flexible cord shall be connected per ceiling rose. For multiple pendants, each pendant shall have its own rose, or a specially designed rose shall be used.

14.0 LIGHT FITTINGS:

Indoor type fittings specification:

Suspension mount and batten mount LED luminaire with all accessories and lamps, ready for installation as per the following description.

- (i) Optical system should provide all round glare and beam control.
- (ii) Luminaires shall be pre-wired up to the terminal block and fitted with High Performance driver (THD<10%) as standard, PF> 0.95; driver to conform to IS/IEC for safety/ performance.
- (iii) Luminaires shall be supplied with all standard accessories (including chains, brackets, mounting clamps etc.) for suspension and/or wall mounting.
- (iv) Power supply: 230/240 V, 50 Hz, single phase.
- (v) The type of fittings shall be as specified in SOQ.

15.0 PRE-WIRED MCB DISTRIBUTION BOARDS:

Pre wired MCB DB's shall be provided where specified.

The complete board shall be factory fabricated and shall be duly pre-wired, ready for installation at site. The board shall be of wall mounted, cubicle type construction, fabricated out of 1.6mm thick sheet steel, with stove enameled paint finish. The board shall be provided with a hinged cover of 1.6mm thick sheet steel on the front. Only the knob/dolly of the MCB's shall protrude out of the front covers through openings neatly machine made for the purpose. Knock out holes at the bottom, and detachable plate with knock out holes at the top of the board shall be provided. VTPN and TPN DB shall also be provided with two nos. loose wire box and SPN DB shall be provided with one no. loose wire box as a compartment for the complete width and depth of the board, and of minimum height of 125mm in case of VTPN/TPN DB's, and 100 mm in case of SPN DB's.

Each distribution board shall be provided with a circuit list giving details of each circuit which it controls and the current rating of the circuit, and the size of the MCB. The board shall be complete with the following accessories:

- (a) 100 A copper bus bar(s) for MCB DBs
- (b) 250 A copper busbar for VTPN DB (fitted with 160A MCCB)
- (c) Neutral link
- (d) Common earth bar
- (e) DIN bar for mounting MCB's
- (f) Screw type terminal connectors suitable for incoming and outgoing cables.
- (g) Earthing stud(s)

The board shall be fully prewired with single core PVC insulated copper conductors/insulated solid copper links, and terminated on to extended type terminal connectors, suitable for connections to the sizes of the respective conductors. All incoming and outgoing wiring to the pre wired MCB DB's shall be terminated only in extended terminal connectors to be provided within the DB. The terminal connectors shall therefore be so provided as to facilitate easy cable connections and subsequent maintenance. Connectors (Terminal blocks) are to be provided. A common copper earth bar shall be provided within the loose wire box. The common neutral bar as well as the terminal connectors shall, however, be provided within the main compartment just below the loose wire box.

16.0 MINIATURE CIRCUIT BREAKERS (MCB's):

'C' series MCB's shall be invariably used for all loads. Ratings (A), number of poles, type as MCB or isolator, etc. shall be as specified in the SOQ. The MCB's shall be of minimum 10KA rupturing capacity.

17.0 SWITCH BOARD LOCATIONS:

Switch boards shall be located as indicated on the drawings or as instructed by OIL's engineer. Switchboards should not be installed in places likely to be exposed to the weather. However exact location will be as per suitable available spaces.

Unless otherwise specified, a switch board shall be installed so that its bottom is 1.30 m from the floor level. Switchboards shall be well clear of door openings and with an open (unimpeded) space in front of the switchboard for easy access.

Where it is required to terminate a number of casing capping or conduits on a board, it may be convenient to provide a suitable PVC adapter box for the purpose. Such boxes shall be provided with the prior approval of the Engineer-in-charge (Electrical) and this will not be paid for separately. No apparatus shall project beyond any edge of the panel.

18.0 FANS, REGULATORS AND CLAMPS:

Fan Regulators:

Electronic modular type fan regulator shall be of approved makes. The fans, regulators etc., are to be procured from authorized dealer to ensure genuineness of the material.

19.0 LT Panel:

This specification covers design, fabrication, supply, installation, testing and commissioning of 01 no. of 415 V AC, 50 Hz LT Panel with MCCBs in the incomer and outgoing feeders in a single transportable unit ready for operation on being installed in a fixed position. The power supply of LT panel shall be from nearest 11KV/415V substation/LT panel. The design, materials and components of LT panel shall therefore be of the highest order to ensure continuous and trouble-free service over the years.

A. Item Description

The LT Panel shall have:

INCOMER: 315 A, 4 pole, 36 kA moulded case circuit Breaker, 415V AC, 50Hz with microprocessor based O/C, S/C, E/F release: 2 Nos.

Each Incomer shall have:

- (a) Digital multifunction meter with accuracy class 0.5 and with RS-485 port with MODBUS protocol for data logging/downloading. The meter shall preferably be of size 96mm x 96mm and shall measure the following electrical parameters Voltage, Current, Frequency, KVA, KVAh, PF, KWH, and KVAh. The multifunction meter shall have inbuilt memory to store data for minimum 75 days.
- (b) Cast resin Current Transformer as per IS 2705 & IS 4201 and shall be sized adequately: 03 nos.
- (c) LED Indication lights for 'Feeder ON', 'Feeder OFF' & 'TRIP': 03nos.
- (d) Moulded HRC Fuse Holders with HRC Fuses/MCBs for control circuit protection
- (e) Rotary Handle for operating the MCCBs

(i) OUTGOING:

- (a) 160 A, 4 pole, 36kA Moulded case circuit Breaker, 50Hz, 415V AC with microprocessor-based O/C, S/C, E/F release 2 nos.
- (b) 100 A, 4 pole, 25kA Moulded Case Circuit Breaker, 50Hz, 415V AC with microprocessor-based O/C, S/C, E/F release 2 nos.

Each Outgoing feeder shall have

- (i) Digital Ammeter, 3 Phase with inbuilt selector switch with size 96×96 mm: 1 Set
- (ii) Cast resin Current Transformer as per IS 2705 & IS 4201 and adequately sized: 03 nos.
- (iii) LED Indication lights for 'Feeder ON', 'Feeder OFF' & 'TRIP': 03nos.
- (iv) Moulded HRC Fuse Holders with HRC Fuses/MCBs for control circuit protection.
- (v) Rotary Handle for operating the MCCBs

Make of MCCB with minimum LSIG Protection: Schneider Electric (Compact NS/NSX with Micrologic 2.0 and above)/ Legrand (Model DPX/DPX3 range with electronic LSIG release-Sg type)/ Siemens (Sentron 3VA with LSIG release) /ABB (Tmax T6 with PR 222/ Tmax XT range with LSIG release)/Indo-Asian (Optium series with LSIG release)/L&T (D-Sine series with MTX 2.0 & above).

Protection type LSIGN

- Ics = 100% Icu as per IEC 60947-2
- Fault indication for GF (LED type) meant for human safety
- Adjustable overload from $0.36 - 1 \times I_n$
- Adjustable short circuit from $1.5 - 10 \times I_r$
- Adjustable earth fault sensitivity selection 10 to 60%
- Innovative front indication LED's (Ready, Overload pre-alarm & Overload)
- Suitable for 3P3W & 3P4W electrical distribution network
- Adjustable neutral protection - N, N/2, OFF for 4 Pole MCCB

(ii) BUS-BAR:

The bus chamber shall be sheet steel clad having front and rear bolted covers and shall consist of 1 set TP & N electrolytic grade, high conductivity virgin copper bus-bars, conforming to BIS. Current rating of bus bar sections shall be minimum 400 Amps suitable for 415 V AC, 50 Hz system. Neutral bar shall be of same size as phase bus. The bus-bar shall be insulated with heat shrinkable PVC sleeves and shall be supported at required intervals with non-hygroscopic, non-deteriorating, and non-inflammable SMC / FRP supports having adequate mechanical strength. Proper sized high tensile steel zinc passivated fasteners (bolt/nut, flat washer and spring/locking washer) shall be used in busbar supports and connections.

B. Earthing

Supply and fixing of Earthing with G.I. earth pipe 3 metre long, 50 mm dia (Conforming to BIS:1239) including accessories, and providing masonry enclosure of size 600mmx 600mm x600mm with RCC cover plate having 02 nos. metallic hooks for lifting. Value of earth resistance for each LT panel has to be equal to or less than 1.0 Ohms when all the earth electrodes are connected together. Earth electrode shall be connected with 25mm x 3mm GI strap from brought out earthing studs of LT panel.

C. Constructional Details of Lt Panel

I. GENERAL REQUIREMENTS:

- (a) LT Panel shall be self-supporting, outdoor Type, dust, vermin and weatherproof, suitable for mounting on floor.
- (b) The structure of LT panel shall be made with 2mm thick CRCA/GI/Aluzinc sheet and 75x40x6 mm base channel as required.
- (c) LT Panel shall have a heavy duty base framework.
- (d) The LT panel shall be double door type and the main components of LT panel shall be accessible for operation after opening of first door.
- (e) The outer door shall be in parts (two leaf design) and shall have locking arrangement with special type key; additional facility for padlocking shall be provided on the doors on both back and front sides of FP along with 2 nos. 5 lever lock. Supply of the extra locks and keys is in the scope of the supplier.
- (f) The degree of protection of enclosure shall be minimum IP-43.
- (g) 4 nos. heavy duty Lifting hooks shall be provided for lifting of LT panel.
- (h) Danger Plate made of metal shall be fitted on both sides of LT panel
- (i) For cooling of the components louver arrangement shall be made in the LT panel with suitable filter.
- (j) The entire sheet-work shall be given minimum seven/nine tank anti-rust treatment and then powder coated (minimum 50 micron thick) in light grey shade no. 631 as per IS.
- (k) The design should be as per standard and suitable for ambient 40°C (Max)/ 5°C (Min), humidity- 95% percentage (Max). All components used must be suitable for the environment as mentioned.
- (l) All hardware should be of suitably sized high tensile steel & zinc passivated. Size of spring washers & flat washers should be as per relevant IS for individual bolt.
- (m) The maximum height and width of the LT panel shall be 1.8mx2m.

II. GENERAL TECHNICAL REQUIREMENTS:

- (a) All connection links between bus bar and MCCBs & brought out links shall be made with rectangular sections of copper conforming to IS 5082. Current rating of links shall be minimum 1.5 times (rating for unassembled sections) the device rating. MCCBs shall be mounted in the vertical position. Spreader bars supplied by MCCB manufacturer shall be used for all incoming and outgoing terminations for all MCCBs.
- (b) All control wiring shall be done with single core 1.5 sqmm FRLS PVC insulated, 1100 V grade, IS approved stranded copper cable and 2.5 sqmm for CT/current circuit FRLS PVC insulated, 1100 V grade, IS approved multi-stranded copper cable.

Make of control wire/cable: Finolex/Havells/ Polycab/RR Kabel

- (c) All control cable ends shall have crimped copper lugs for proper termination and ferrules for identification of wiring. All the control circuit wiring shall be connected with terminals blocks and ferrules for easy identification. For CT wiring, ring type lugs shall be used.
- (d) All hinged doors shall be earthed with copper flexible loops/ braids as per IS 3043.
- (e) No bimetallic joints shall be permitted in the links of connections.
- (f) Special non-deteriorating Neoprene rubber gaskets shall be provided at panel doors.
- (g) Sufficient space should be provided for proper glanding, dressing, connecting up and maintenance of all cables.
- (h) Incoming and Outgoing cable shall be from top of the LT panel. Sufficient nos. of cable entry holes shall be provided in the top plate.
- (i) Adequate insulation barriers between the bus chamber and feeders shall be provided. Transparent fibre-glass barriers will also be provided on both incoming and outgoing side of MCCBs.
- (j) All items of the LT panel must be approved by IS or IEC for performance and safety.
- (k) A printed drawing of complete circuits shall be pasted on the outside of the inside of door of each LT panel.

D. NAME PLATE AND MARKING

I. LT panel shall be provided with Aluminium /Stainless steel / Brass nameplate showing the following information legibly marked in English:

- (a) Manufacturer's Name
- (b) Manufacturer's Serial Number
- (c) Year of Manufacture
- (d) Rated Voltage
- (e) No. of circuits (incoming & outgoing)
- (f) Rated Current of incoming circuit
- (g) Rated Current of outgoing circuit
- (h) Degree of protection

II. Danger/Warning Notice Plates:

Danger/Warning Notice plate shall be provided on the front and rear side of the LT panel using steel rivets. The language of the notice will be in English, Hindi and Assamese.

E. INSTALLATION AND COMMISSIONING:**I. Scope of Installation:**

- (a) Supplier shall install and commission the LT at the Electrical Room.
- (b) Supplier shall ensure proper earthing of the LT Panel.
- (c) Supplier shall arrange for all manpower, tools and tackles, instruments etc. necessary for installation and commissioning of the LT Panel.

II. Scope of Commissioning:

- (a) Checking of the LT panel and indoor equipment for transit damage and rectification if any
- (b) Installation of earth electrodes and earth connection from LT Panel to electrode with 40 mm x 5 mm GI strap; construction of earth pit
- (c) Measurement of Earth resistance
- (d) Testing of the equipment before energization (IR test and general checking); energization of the panel; operation checks
- (e) Submission of testing and commissioning report

III. Following shall be carried out by OIL:

- (a) Connection of incoming LT cable to LT Panel
- (b) Connection of LT cables to three phase power source in the maintenance rooms.

IV. General Notes on Installation & Commissioning:

- (a) The commissioning works shall be done by the manufacturer or by the manufacture's authorized party.
- (b) The bidder shall confirm that the jobs shall be carried out under the direct supervision of an Engineer/ an electrical supervisor holding a valid Electrical supervisor certificate of competency issued/Recognized by Govt. of Assam/Any state Government. The copy of certificate of competency should be submitted prior to the commencement of commissioning jobs.
- (c) The bidder shall obtain permit to work from OIL's Engineer before taking up commissioning works.

20.0 WORKMANSHIP:

Good workmanship is an essential requirement to be complied with. The entire work of manufacture/fabrication, assembly and installation shall conform to sound Engineering practice. The work shall be carried out under the direct supervision of a person holding a valid supervisor's certificate of competency issued/recognized/endorsed by the State Licensing Board, Govt. of Assam for the type of work involved, employed by the contractor, who shall rectify then and there the defects pointed out by the Engineer-in-charge (Electrical) during the progress of work.

21.0 COMMISSIONING ON COMPLETION:

After the entire wiring is completed, a joint inspection shall be carried out. The contractor shall rectify the defects pointed out by OIL during inspection. The works shall be tested by the contractor and contractor shall submit the test certificates duly signed by the competent persons. The system shall be energised only after OIL approves the work done and submission of test certificate.

22.0 SPLIT AC:

Technical Specification Split Air Conditioner:

A. Technical Specification: The split air conditioner shall have following specification and features:

- (i) Cooling capacity : 1.5 TR.
- (ii) Type: Single split wall mounted type.
- (iii) Refrigerant gas : R22 / R410A
- (iv) Condenser & piping : Grooved copper.
- (v) Evaporator: Grooved copper with blue fin.
- (vi) Operating Voltage: 230V, $\pm 10\%$, single phase 50Hz, AC.
- (vii) Star Rating: Minimum 5 star rating with Minimum EER of 3.5 as per BEE-2018 for Split Type Air Conditioner.
- (viii) Noise level: Less than 50dB at high speed fan mode at in-door unit.
- (ix) Warranty: Warranty of the unit shall be of minimum one (01) year against any manufacturing defect from the date of commissioning.
- (x) Warrantee of the Compressor shall be of minimum five (05) years from date of commissioning.
- (xi) Colour / Shed: White / Off White / ivory.
- (xii) Make: Voltas / Blue Star / Samsung/ Carrier / Lloyd / Haier .
- (xiii) Non Inverter type.

B. SCOPE OF SUPPLY:

1.0 MATERIALS: The party shall supply the following:

- (i) Indoor unit: 1 no.
- (ii) Outdoor Unit: 1 no.
- (iii) Length of power cable 3x 2.5 sq.mm copper of minimum 3 meters.
- (iv) Required length of refrigerant piping
- (v) Required length of thermal insulation
- (vi) Drain Pipe
- (vii) Standard installation accessories like, channels/brackets, foundation bolts and nuts etc.

2.0 Additional Accessories for installation & commissioning which is required to be supplied against each unit:

- (i) Supply of Copper pipe with insulation: 3 Metre each.
- (ii) Supply of Power cable 3x 2.5 sq.mm copper: 6 Metres.
- (iii) Supply of standard wrapping tape : 2 rolls.

C. DOCUMENTS:

1.0 at the time of Offer:

- (i) Catalogue containing the features of offered make and model.(The bidder has to submit a catalogue where in the bidder shall highlight/ mention the model specified in the catalogue)
- (ii) Valid Dealership Certificate.

2.0 At the time of Supply:

- (i) Duly signed warranty certificate.
- (ii) One set of operation/maintenance manual against each unit.

D. AFTER SALES SERVICE:

The bidder shall agree to provide after sales service. The bidder shall furnish the name and address of their authorised service centre/s at Duliajan / Tinsukia/ Dibrugarh/Moran/ Jorhat/Guwahati.

23.0 Make of Electrical Items:**Make List of Electrical Items**

Sl. No.	Item Description	Approved make
1	All Single core BIS marked, copper FRLS PVC insulated stranded flexible 1100 v grade cable (as per IS 694 of size/rating as specified in SOQ)	FINOLEX/HAVELLS /L&T/POLYCAB/RR KABEL
2	All Earth Wire of size as specified in SOQ	FINOLEX/HAVELLS /L&T/POLYCAB/RR KABEL
3	Copper lugs	DOWELL/3D-BILLET/JAINEX/SCHNEIDER (MERLIN GERIN)
4	PVC conduit	RICHA/PLAZA/AKG/PRESTO PLAST/ANCHOR
5	Metal clad switch-socket unit, 20/25 Amps	LEGRAND/SCHNEIDER/SIEMENS/HAVELLS/INDO-ASIAN
6	Ceiling fan, 1400 mm Sweep, White in Colour.	HAVELLS(Pacer)/BAJAJ(Kassels)/ORIENT (PSPO)/USHA/CROMPTON GREAVES
7	LIGHT FITTINGS (including Driver) i) LED 1x4 suspended ii) 4 feet LED Batten iii) 2 feet LED Batten iv) 2 X 2 LED, recessed fitting v) LED High Bay light	PHILIPS /CROMPTON/GE/BAJAJ/HAVELLS
8	All MCCB	INDO ASIAN/LEGRAND/SIEMENS / ABB /L&T
9	All MCB'S	ABB/INDO-ASIAN/L&T

	(10KA, C- curve)	SCHNEIDER/SIEMENS/LEGRANDS
10	All RCBO Note: Make of RCBO, MCBs and box shall be of same make	ABB/INDO-ASIAN/L&T/ SCHNEIDER/SIEMENS/LEGRANDS
11	All MCB DB Note: MCB DB and MCBs/RCBO fitted therein have to be of same make	ABB/INDO-ASIAN/L&T/ SCHNEIDER/SIEMENS/LEGRANDS
12	VTPN DB Note: VTPN DB and all components fitted therein have to be of same make.	ABB/INDO-ASIAN/L&T/ SCHNEIDER/SIEMENS/LEGRANDS
13	TPN DB Note: TPN DB and all components fitted therein have to be of same make	ABB/INDO-ASIAN/L&T/ SCHNEIDER/SIEMENS/LEGRANDS
14	Modular switches/Socket/Box/ Blank plate	LEGRAND/SCHNEIDER/CRABTREE INDOASIAN ELVIRA/HAVELLS/MK
15	Modular Fan regulator 100W	LEGRAND/SCHNEIDER/CRABTREE INDOASIAN ELVIRA/HAVELLS/MK
16	Metal GI Box	LEGRAND/SCHNEIDER/CRABTREE INDOASIAN ELVIRA/HAVELLS/MK
17	Exhaust fan	USHA/HAVELLS/CROMPTON/BAJAJ
18	Power (3.5X70sqmm) Cable	NICCO/ASIAN/CRYSTAL/UNIVERSAL/ CCI/RPG/INCAB/POLYCAB/ANKUR/ NECAB
19	Earthing cable (1X25sqmm)	NICCO/ASIAN/CRYSTAL/UNIVERSAL/ CCI/RPG/INCAB/POLYCAB/ANKUR/ NECAB
20	GI Pipe for earthing	JINDAL/TATA
21	4 pole RCBO,63 Amps with Plug and Socket	LEGRAND/SCHNEIDER/CRABTREE INDOASIAN ELVIRA/HAVELLS/MK
22	MCCB	Schneider Electric (Compact NS/NSX with Micrologic 2.0 and above)/ Legrand (Model DPX/DPX3 range with electronic LSIg release-Sg type)/ Siemens (Sentron 3VA with LSIg release) /ABB (Tmax T6 with PR 222/ Tmax XT range with LSIg release)/Indo-Asian (Optium series with LSIg release)/L&T (D-Sine series with MTX 2.0 & above.

C. SCOPE OF FIELD COMMUNICATION WORKS:

- 1.0 SUPPLY & FIXING,5- PAIR PVC TEL. CABLE :5 (Five) Pair Solid Annealed Bare Copper Telephone Cable ; Nominal Conductor Diameter-0.50 mm , Insulation -Material-high density polyethylene; Nominal Dia of Insulated Conductor-0.92 mm ; Rip cord Material-Nylon ; Sheath Material-FR PVC with high oxygen and temperature induces; Sheath Minimum Thickness-0.65 mm; Conductor Resistance-Max. 92.20 ohm/Km at 200 C ; Mutual Capacitance-Max. 50 nf/ Km ; Insulation Resistance in Air-Min . 10000 M-ohm I Km ; Capacitance Unbalance Pair to Pair-Max. 250 pf/ 100 m ; Twisted coloured insulated cores to form pairs conforming to ITD specifications S/WS 113 C.
- 2.0 SUPPLY & FIXING,10- PAIR PVC TEL. CABLE: 10 (Ten) Pair Solid Annealed Bare Copper Telephone Cable ; Nominal Conductor Diameter-0.50 mm , Insulation -Material-high density polyethylene; Nominal Dia of Insulated Conductor-0.92 mm ; Rip cord Material-Nylon ; Sheath Material-FR PVC with high oxygen and temperature induces; Sheath Minimum Thickness-0.65 mm; Conductor Resistance-Max. 92.20 ohm/ Km at 200C ; Mutual Capacitance-Max. 50 nf/ Km ; Insulation Resistance in Air-Min . 10000 M-ohm I Km ;Capacitance Unbalance Pair to Pair-Max. 250 pf/ 100 m ; Twisted coloured insulated cores to form pairs conforming to ITD specifications S/WS 113 C.
- 3.0 SUPPLY AND FIXING OF MODULAR ROSETTE BOX WITH ACCESSORIES: Good quality telephone modular rosette box with RJ-11 female connector -shall be supplied and fitted using SS screws at the user's premises. Laid telephone wires shall be terminated in these rosette boxes and continuity and proper working of telephones shall be checked and confirmed.

4.0 SUPPLY & FIXING, 30 PAIR JUNCTION BOX 'KRONE' make or equivalent : Fibre Glass Reinforced Telephone Distribution Box# 30 Pair; Weatherproof type for outdoor installation complete with 3 nos. of 2/10 #LSA-PLUS Disconnection Modules and Stainless Steel Back mounting Frame - for 10 Pair cable terminations ,each. The modules should have facility for quick snap-on and removal from the box. Technical Specifications: (AA) Outdoor D.P Box - Service Temperature Range of 2.5 to 60 degree C ; IP 54 Class of Protection against dust and splash water; Tough Thermoplastic ABS Enclosure Material; Min 40 Mpa as per ASTM D 638 Material Strength; Synthetic Rubber Cable seals; Biologically Resistant against Termites and Micro Organisms; 2/10 LSAPLUS Disconnection module - for Tel. line testing possible in both directions, Conductor dia. 0.50 mm, Outside dia. 0.80 mm, plastic Conductor Insulation, Temperature Operation range from -20 degree C to + 80 degree C, Contact type: IDC Silver plated, Connection: Dry Gas tight, over 200 Nos. of re-terminations ; Double sided Wire Clamping & Guide; over 2.5 Mega-ohm 'Contact resistance; Insulation resistance below' 50,000 ohm; Dielectric Strength: 2 KV RMS ; Impulse voltage resistance over 3.6 KV; As per TEC Spec Type Approval. #KRONE# make or equivalent - Fibre Glass Reinforced.

5.0 SUPPLY & FIXING, 50 PAIR JUNCTION BOX #KRONE# make or equivalent : Fibre Glass Reinforced Telephone Distribution Box# 50 Pair; Weatherproof type for outdoor installation # complete with 5 nos. 10 Pair LSA-PLUS Disconnection Modules# and Stainless Steel Back mounting Frame - for 10 Pair cable terminations each. The modules should have facility for quick snap-on and removal from the box. Technical Specifications: Outdoor D.P Box - Service Temperature Range of 25 to 60 degree C ; IP 54 Class of Protection against dust and splash water; Tough Thermoplastic ABS Enclosure (Rounded) Material; Min 40 Mpa as per ASTM D 638 Material Strength; Synthetic Rubber Cable seals; Biologically Resistant against Termites and Micro Organisms .2/10 LSAPLUS Disconnection module - for Tel. line testing possible in both directions, Conductor dia. 0.50 mm, Outside dia. 0.80 mm, plastic Conductor Insulation, Temperature Operation range from -20 degree C to + 80 degree C, Contact type: IDC Silver plated, Connection: Dry Gas tight, over 200 Nos. of re-terminations ; Double sided Wire Clamping & Guide ; over 2.5 Mega-ohm Contact resistance; Insulation resistance below 50,000 ohm; Dielectric Strength: 2 KV RMS; Impulse voltage.

6.0 SUPPLY & FIXING, PVC FLAT CHANNEL : Channel shall be PVC Flat, 25 MM width including all Channel accessories {internal, external, Tee, Joint, elbow etc.) for laying the PVC cable{s}. Flat channels shall be fixed on the walls by fixing SS screws at the interval of 20 cms each.

7.0 SUPPLY OF CLI TELEPHONE INSTRUMENTS:

Electronic Push Button CLI Telephone

- (i) HANDS FREE TWO WAY SPEAKER OPERATION.
- (ii) No. of digits in display: 16
- (iii) Mounting Position: Desk
- (iv) Weight: 400 gms (minimum)
- (v) RJ11 connecting jack
- (vi) Tone/Pulse switchable
- (vii) Incoming Call memory: 50
- (viii) Outgoing Cal memory: 10
- (ix) Redial memory : 10
- (x) Redial, Flash, Mute and Pause/Hold buttons
- (xi) Minimum two level ringer volume control or better
- (xii) Ringer/Hold LED indicator
- (xiii) one touch memory/fast dialing keys: 06 Nos or better
- (xiv) Colour: Black/Grey

D. SCOPE OF I.T. WORKS:

1.0 The Contractor has to deliver new items as per the BoQ.

2.0 Necessary laying of UTP cable, casing, installation of IO box etc. must be completed by the Contractor.

3.0 Network switches have to be appropriately placed to optimise the UTP cable distribution.

- 4.0 The Contractor has to deliver a functional LAN with the supplied items within the new building. Required IPs etc. would be provided by the IT department.
- 5.0 The switches have to be uplinked with OIL's corporate network in 10G Single Mode SFP or 1G Ethernet port.
- 6.0 All necessary configurations etc. in the offered switches have to be carried out by the Contractor to deliver the LAN within the building.

E. Building and Other Construction Workers Welfare Cess Act 1996:

- 1.0 As per BOCW Act, the concerned construction work falls under the purview of Building and Other Construction Workers Welfare Cess Act 1996 and therefore cess will be levied and collected for the purposes of the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996, at one per cent of the cost of construction incurred.
- 2.0 Therefore, the Contractor must register the contract with BOCW Welfare Board at his own cost, obtain Certificate of Registration and submit the same to OIL after signing the contract agreement. No Running Bill shall be paid to the contractor till the Certificate of Registration with BOCW Welfare Board is submitted by the contractor to the Engineer-in-Charge. As per laid down terms and conditions, OIL will deposit cess of amount equal to one percent (01%) of the bill value (except PF and GST) to the appropriate authority under the concerned registration number during payment of each running bill and final bill.

F. GENERAL HEALTH, SAFETY & ENVIRONMENT (HSE) POINTS:

- 1.0 The Contractor shall be solely responsible to comply all the statutory norms as applicable while executing the job. It will be solely the Contractor's responsibility to fulfill all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely: the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. Ensure that all sub-contractors hired by him comply with the same requirement as the Contractor himself and shall be liable for ensuring compliance of all HSE laws by the sub-contractors. It will be the responsibility of the Contractor/his Supervisor/representative to ensure strict adherence to all HSE measures and statutory Rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by representative of OIL.
- 2.0 The Contractor shall ensure complete safety of the personnel and all the equipment engaged by him. They shall take full responsibility for their safety.
- 3.0 Contractor's arrangements for health and safety management shall be consistent with those for the company (OIL).
- 4.0 Contractor must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's act or omission at work. The contractor must cooperate with his/ her employee or other persons as far as is necessary to enable compliance with any requirement under the act or the regulations that is imposed in the interest of health, safety and welfare of the employee or any other person.
- 5.0 The Contractor may frame a mutually agreed bridging document if required between OIL & the Contractor for all issues not envisaged under the terms and conditions of the contract with the roles and responsibilities clearly defined.
- 6.0 The contractor has to keep a register of the persons employed by him/ her. The Contractor's supervisor shall take and maintain attendance of his/ her men every day for the work, punctually.
- 7.0 Every person deployed by the Contractor must use appropriate PPEs (Personal Protective Equipment) to be provided by the Contractor. The Contractor shall provide Personnel Protective Equipment as per the hazard identified and risk assessed for the job and conforming to statutory requirement. Safety appliances like protective footwear, Safety Helmet and Full Body harness, Fall Prevention Devices (FPD) shall conform to

relevant IS codes. If the Contractor fails to provide the safety items as mentioned above to the working personnel, the Contractor may request to the Company (OIL) for providing the same. In case of exigency OIL will provide the safety items if available. However in turn, OIL will recover the actual cost of the items by deducting from Contractor's Bill. However, it will be the Contractor's sole responsibility to ensure that the persons engaged by him use the proper PPE while at work. Contractor employees should be encouraged for proper use and maintenance of PPE. In absence of appropriate PPEs, the representative of OIL has the right to stop the work which will be binding for the Contractor. Moreover, the accountability towards any delay in work/ penalty due non-adherence to PPE shall be binding to the Contractor.

- 8.0 All safety gears as per requirement of job are to be provided to the working personnel before commencement of the work.
- 9.0 Standard Operating Procedures (SOPs) related to scope of work shall be handed over to the representative of OIL by Contractor including an assessment of risk, wherever possible and safe methods to deal with it/ them. The SOP should clearly mention the risk arising to men, machineries & material from the operations to be done by the contractor and how it is to be managed. However; in case of any doubts, the Contractor shall reconfirm the same from the Engineer In Charge (OIL).
- 10.0 Contractor has to ensure that all work is carried out in accordance with the SOP and for the purpose he may deploy competent personnel for the purpose of carrying out the job in a safe manner. For the work which is not covered under SOP, the Contractor shall develop it and submit to the representatives of OIL.
- 11.0 In case of deviation of SOP or non-availability of SOP, Job Safety Analysis (JSA) shall be carried out before commencement of the work.
- 12.0 Necessary cold and hot work permits, wherever applicable, including excavation clearance and permission for working at height, Confined Space Entry are to be obtained by the competent person of the Contractor from Installation Manager before start of the job(s). Work Permit System should be inline as per guidelines issued by HSE Department.
- 13.0 If the Company (OIL) arranges any safety awareness program/ training for the working personnel at site (company employee, Contractor worker, etc.) the Contractor will not have any objection to any such training.
- 14.0 The Contractor or his representative shall arrange tool box meetings and regular site safety meetings and maintain records.
- 15.0 Contractor should ensure that all his personnel deployed are of sound health and medically fit as per the requirement of the job. The Contractor shall not engage minor labor below eighteen (18) years of age under any circumstances.
- 16.0 OIL will communicate all information to the Contractor or his authorized representative only. Contractor shall submit details of authorized representative wherever applicable.
- 17.0 The Contractor shall have to report all incidents including near miss to the representative of OIL.
- 18.0 Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the Contractor only.
- 19.0 Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the Contractor and their medical treatment/ facilities in case of accidents should be provided by the same contractor.
- 20.0 The Contractor should prevent frequent change of his deployed employees as far as practicable. However, if OIL's Engineer In Charge found any person not suitable for the job, the Contractor has to remove the person and replace a suitable person.
- 21.0 Necessary sign-board/ warning signals like "caution", "hot work in progress", "men at work", emergency telephone numbers etc. should be used wherever applicable. The said signals/ sign-boards shall have to be

arranged by the contractor and shall be in line with the circular of signboards issued by HSE Department, Oil India Limited.

- 22.0 Barricading of area to be done with reflecting tapes as applicable during work.
- 23.0 The First-Aid box should be provided by the Contractor and the same has to be kept ready to use at the site.
- 24.0 Smoking is prohibited in all Company restricted areas except in authorized smoking areas/ shelters. Carrying of matches and lighters into the Hazardous Area is prohibited. Cellular phones shall not be used in operating areas/ hazardous areas unless they have been classified as “intrinsically safe” for use in that atmosphere. Consumption of alcohol and possession of non-prescribed drug in Company work site is strictly prohibited.
- 25.0 When there is a significant risk to health, environment or safety of a person or place arising because of a non-compliance of HSE Measures Company will have the right to direct the Contractor to cease work until the non-compliance is corrected.
- 26.0 In case Contractor is found non-compliant of HSE laws as required and all the above mentioned general HSE points, company will have the right for directing the Contractor to take action to comply with the requirements, and for further non-compliance, appropriate action will be initiated against the Contractor.
- 27.0 Any requirement arise by the Statutory Authorities during the period of contract shall be applicable and binding for the Contractor.
- 28.0 For any HSE matters not specified in the contract document, the contractor will abide the relevant and prevailing Acts/rules/regulations/pertaining to Health, Safety and Environment.
- 29.0 Considering the ongoing Covid-19 pandemic, those who are engaged in the above operations should be followed the Covid-19 Protocol as per the prevailing Government Guidelines.

G. CONTRACTOR'S RISKS:

All risks of loss of or damage to physical property and of physical injury and death to the personnel, which arise during the course of and in consequence of the performance of the contract, are the responsibility of the contractor.

H. INDEMNITY AND INSURANCE:

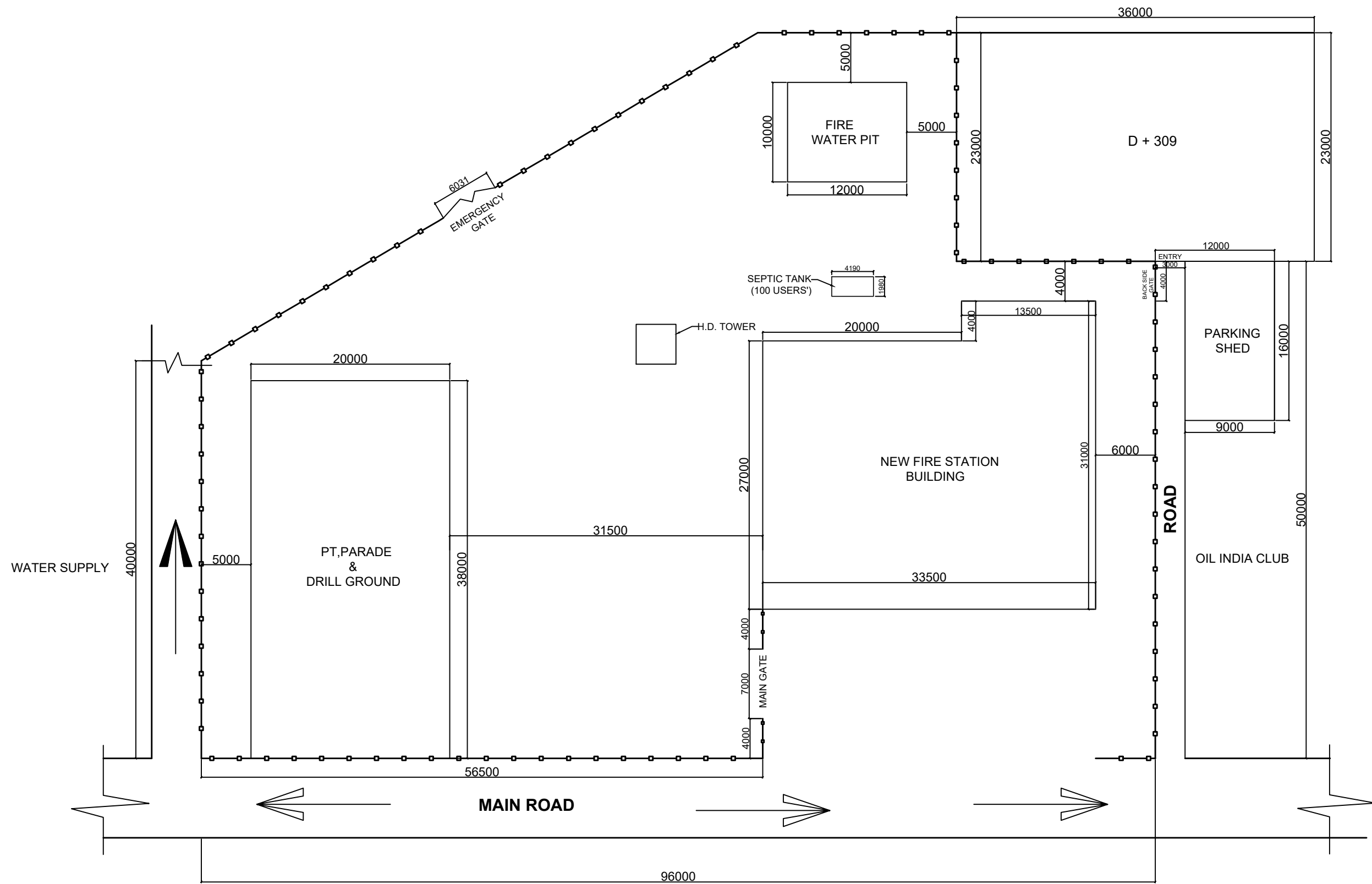
- 1.0 The contractor shall provide suitable insurance coverage from the date of issuance of work order to the end of defect liability period of the contract for the following events which are due to the contractor's risks, irrespective of whether such loss or damages are caused on account of negligence of the Contractor or their personnel.
 - a. Loss of or damage to the works plants and materials.
 - b. Loss of or damage to the equipment.
 - c. Loss of or damage of property (except the works, plant, materials & equipment) in connection with the contract.
 - d. Physical injury or death of all his manpower deployed by him.
- 2.0 In the event of any loss or damage, it shall be the responsibility of contractor to lodge the claim with insurer and Contractor shall put his best effort with the insurer for early settlement of the claim.
- 3.0 The policies and certificates for insurance shall be submitted by the contractor to the engineer in charge before the issuance of Work Order. In case, the Contractor fails to arrange the Insurance or arranges insufficient insurance, for the events, as mentioned above against any or all insurable risks, the Contractor shall be solely liable for loss or damage arising from such events or causes.
- 4.0 Contractor shall at his own expense arrange, secure, maintain and renew insurance for the events mentioned above throughout the contract period including the defect liability period.
- 5.0 Indemnity Agreement:
The contractor shall at all times indemnify and keep indemnified the Company and its personnel from and against all third party claims whatsoever, including but not limited to property loss and damage, personal accident, injury or death of or to property or person and any sub-contractor or agents of the contractor or Company.

- I.** As per Notification No. PEM 130/2021/40 dated 7th October, 2021 of Govt. of Assam, for Assam Minor Mineral Concession Rules, 2013, royalties and contribution towards “Minor Minerals”, “District Foundation Trust Fund” (DMFT) and “Mines and Mineral Development, Restoration and Rehabilitation Fund” (MMDRRF) to be deposited directly through the website www.assamforestonline.in.

The rates of Royalties as per the “Third Schedule” of Notification No PEM 130/2021/40 dated 7th October, 2021.

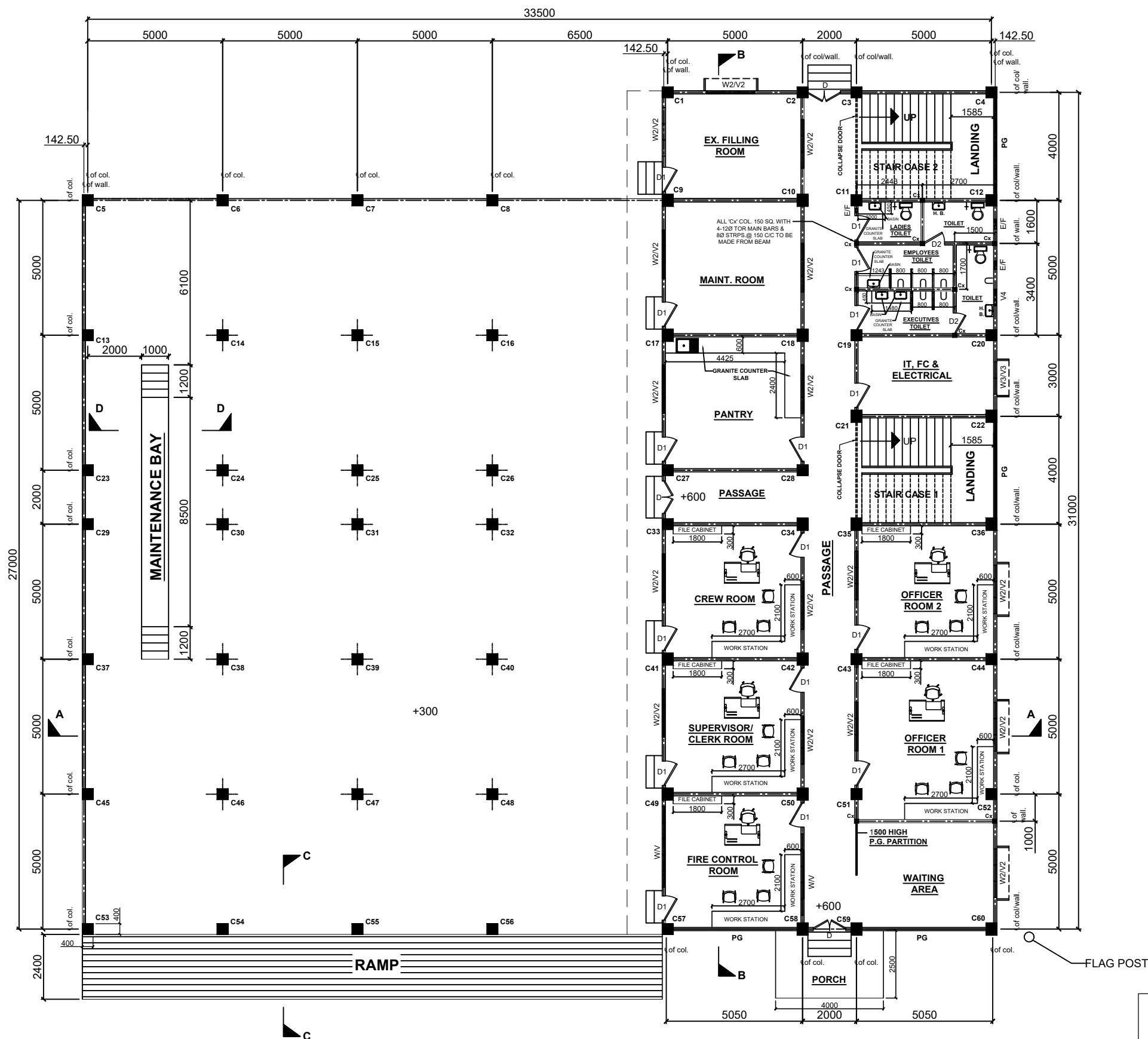
Sl. No.	Work	Appropriate amount of Royalty of Minor Mineral as percentage of Project Cost excluding taxes as GST, IT etc
I	RCC Building/RCC Work	2.00 %
II	Assam Type Building (Single floor)	1.00 %
III	Assam Type Building (Ground floor + 1 or more)	2.00 %
IV	RCC Bridge Work	2.00 %
V	DBM & BC Work	2.00 %
VI	Road improvement / Re-construction Work	3.00 %
VII	New Road Construction Work with Bituminous Work	6.00 %
VIII	New Road Construction Work with ICBP	3.00 %
IX	Earth Work/ Ordinary Clay	9.00 %
X	Earth Work along with Geobag Protection Work	3.50 %
XI	Earth Work along with Boulder Protection Work	5.50 %
XII	River Protection Work with Boulder	4.00 %
XIII	River Protection Work with Geobag	1.50 %
XIV	River Protection Work with Boulder and Geobag	2.00 %
XV	Head work/Brick work of Irrigation projects	4.00 %
XVI	Pradhan Mantri Awas Yojana (PMAY)	1.00 %

- J.** The contractor shall deposit the PAN and GST registration number (if applicable, as per Statutory GST Regulations) as and when required by the Company. If the above are not available with the contractor, the contractor must apply for the same after signing of the Contract and submit the same within 45 days of signing the contract (or as and when advised by the Company, after 45 days of signing the contract). Moreover, the statutory guidelines of Goods and Service Tax (GST) shall be adhered to by the contractor.
- K.** A Hindrance Register shall be maintained in the enclosed Format to record all hindrances encountered during execution of works against the contract. The items of work affected due to any hindrance shall be clearly recorded in the Hindrance Register and the Engineer-in-charge of the Company as well as the site representative of the Contractor will sign on the register against the recorded hindrance. In case of encountering multiple hindrances simultaneously over a period of time affecting the same item or different items, the net period of hindrance will be worked out considering the overlapping period.
- L.** Company reserves the right to initiate actions against the bidder / contractor during processing of tender and / or during continuation of the contract as per OIL's Banning Policy dated 6th Jan 2017 available at OIL's website.
- M.** Defect liability period shall be 6 months beyond the date of completion of works as certified by Engineer-In-Charge. During defect liability period, all corrective works shall be carried out entirely at Contractor's own expenses. If such corrective works are not carried out within a reasonable time, the Company, at its discretion, may have such remedial works carried out by other agencies and charge the cost thereof to the Contractor. This amount shall be deducted from contractor's bill/ Retention money/ Performance security.



SITE PLAN OF FIRE STATION AT MORAN

APPROVED BY :-	NAME :-	P.DRG.NO. OIL /2395
		FIRE STATION BUILDING AT MORAN
		DRAWN BY - BONDITA SONOWAL DATE - 14/07/2021
DESIGNATION :-	DEPARTMENT :-	
DATE :-		



GROUND FLOOR PLAN

ALL DIMENSIONS ARE IN MILLIMETER.

APPROVED. BY- _____

NAME- _____

DESIGNATION- _____

DEPARTMENT- _____

DATE- _____

REFERENCE DRGS.-

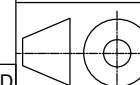
1. FOR FIRST FLOOR PLAN & SPECIFICATIONS REFER DRG. NO. OIL/.11228
2. FOR ELEVATION REFER DRG. NO. OIL/.11229
3. FOR SECTION REFER DRG. NO. OIL/.11230
4. FOR FOUNDATION, TIE BEAM & COLUMN PLAN REFER DRG. NO. OIL/.11231
5. FOR DETAILS OF COLUMN REFER DRG. NO. OIL/.11232
6. FOR DETAILS OF FIRST FLOOR BEAM (SHEET NO.1 OF 3) REFER DRG. NO. OIL/.11233
7. FOR DETAILS OF FIRST FLOOR BEAM (SHEET NO.2 OF 3) REFER DRG. NO. OIL/.11234
8. FOR DETAILS OF FIRST FLOOR BEAM (SHEET NO.3 OF 3) REFER DRG. NO. OIL/.11235
9. FOR DETAILS OF ROOF BEAM (SHEET NO.1 OF 3) REFER DRG. NO. OIL/.11236
10. FOR DETAILS OF ROOF BEAM (SHEET NO.2 OF 3) REFER DRG. NO. OIL/.11237
11. FOR DETAILS OF ROOF BEAM (SHEET NO.3 OF 3) REFER DRG. NO. OIL/.11238
12. FOR DETAILS OF FIRST FLOOR SLAB (SHEET NO.1 OF 2) REFER DRG. NO. OIL/.11239
13. FOR DETAILS OF FIRST FLOOR SLAB (SHEET NO.2 OF 2) REFER DRG. NO. OIL/.11240
14. FOR DETAILS OF ROOF SLAB (SHEET NO.1 OF 3) REFER DRG. NO. OIL/.11241
15. FOR DETAILS OF ROOF SLAB (SHEET NO.2 OF 3) REFER DRG. NO. OIL/.11242
16. FOR DETAILS OF ROOF SLAB (SHEET NO.3 OF 3) REFER DRG. NO. OIL/.11243
17. FOR DETAILS OF STAIR CASE-1 REFER DRG. NO. OIL/.11244
18. FOR DETAILS OF STAIR CASE-2 REFER DRG. NO. OIL/.11245
19. FOR DETAILS OF R.C.C. FLOOR SLAB REFER DRG. NO. OIL/.11246
20. FOR DETAILS OF PORCH REFER DRG. NO. OIL/.11247
21. FOR FIRE WATER PIT REFER DRG. NO. OIL/.4236
22. FOR BOUNDARY WALL REFER DRG. NO. OIL/.9090



OIL INDIA LIMITED
DRAWING OFFICE
DULIAJAN

SCALE
N.T.S.

TITLE:
FIRE STATION BUILDING
AT MORAN
(GENERAL ARRANGEMENTS)



	NAME	DATE
DESIGNED		
DRAWN	MANJIT GOGOI	13.11.21
DRAWING CHECKED		
DRAWING APPROVED		

DRG No.
OIL /11227

REV.	DATE	ZONE	BRIEF RECORD	APPROVED





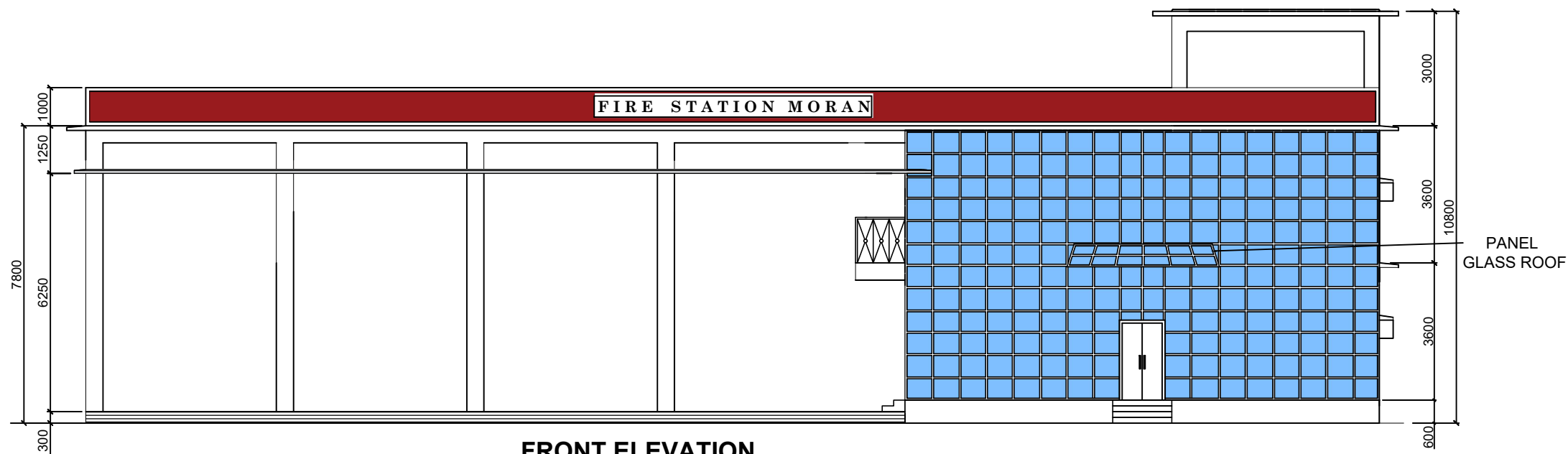
REV.	DATE	ZONE	BRIEF RECORD	APPROVED

REF. NO.	DESCRIPTION.	SIZES	AS PER IS:	REQD. NO.	REMARKS
D	DOOR -30 THK. FLUSH DOOR-D/L	1200X2080	————	4	ON 150X75 TIMBER FRAMING
D1	DOOR -30 THK. FLUSH DOOR-S/L	900X2080	12 DT 21	31	
D2	DOOR - UPVC DOOR-S/L	750X2080	8 DS 21	4	
W	WINDOW - UPVC GLAZED 5 LEAF	3000X1180	————	2	
W1	WINDOW - UPVC GLAZED 4 LEAF	2400X1180	————	1	ON UPVC FRAMING (Guarded with anodized aluminum grill)
W2	WINDOW - UPVC GLAZED 3 LEAF	1800X1180	————	28	
W3	WINDOW - UPVC GLAZED 2 LEAF	1200X1180	————	2	
V	VENTILATOR - UPVC GLAZED C/H	3000X450	————	2	
V1	VENTILATOR - UPVC GLAZED C/H	2400X450	————	1	
V2	VENTILATOR - UPVC GLAZED C/H	1800X450	————	28	
V3	VENTILATOR - UPVC GLAZED C/H	1200X450	————	2	
V4	VENTILATOR - UPVC GLAZED C/H	600X450	————	2	
EF	EXHAUST FAN	————	————	6	
PG	PANEL GLASS	————	————	————	

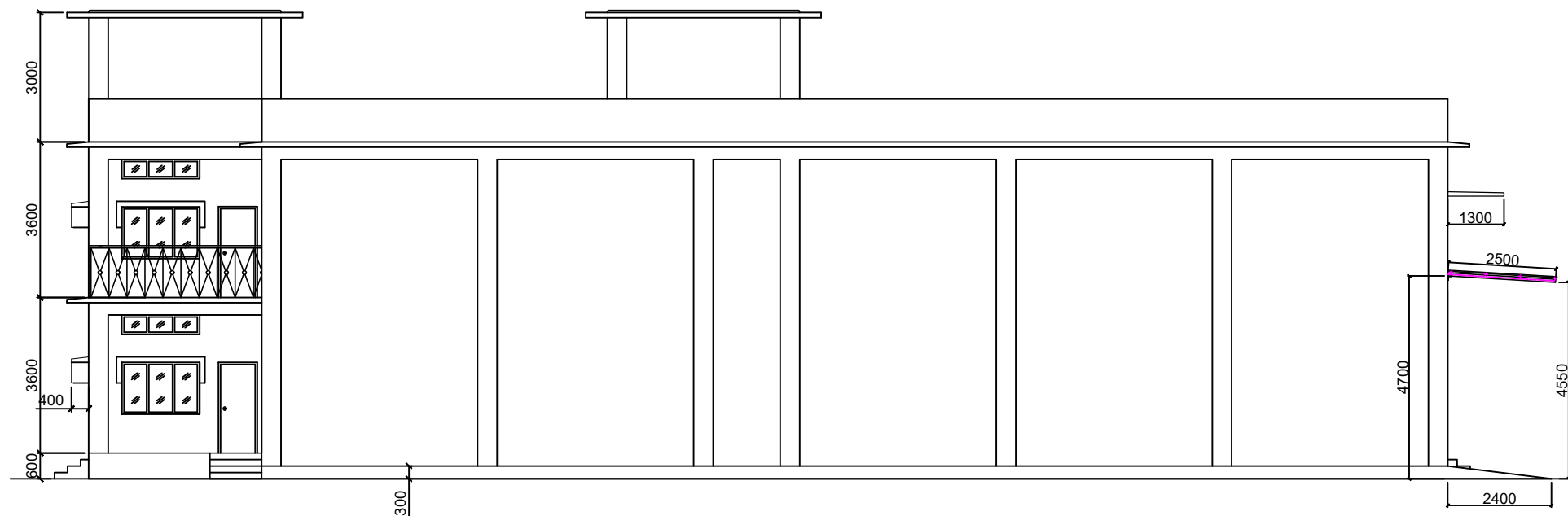
- 1. FOUNDATION** : C.C. (1:2:4) for Brick Walls, below Tie Beam / Col. Footings.
- 2. D.P.C.** : 40thk. D.P.C. (1:2:4) Cement Concrete mixed with 3% cico.
- 3. SKIRTING** : 150 high skirting matching with floor tiles / granite over 12mm thk. Cement Mortar (1: 3) to all inside walls of the rooms & corridors.
- 4. DADO** : Ceramic wall tiles over 12mm thk. Cement Plaster backing (1:3) in full height on the inside wall of Toilet & Kitchen.
- 5. FLOORING** : i) Vitrified floor tiles conforming to is: 15622 over a 12mm thk. bed of cement mortar (1:3) in all the rooms/verandah/balcony except mentioned otherwise.
ii) Anti skid floor tiles in the toilets .
- 6. BRICK WORK** : All Brick Works in (1:4) cement mortar with 1st. class local Bricks.
- 7. R. C. C. WORKS** : All R. C. C. Works (1:1.5:3) in accordance with IS : 456 - 2000
- 8. PLASTERING** : i) 12 thk. C Plaster (1:4) to all inside and outside faces of Brick Walls ; but outside faces of Brick Wall Plaster shall be water proofing compound.
ii) 12thk. C. Plaster (1:3) in all exposed front Plinth Walls (from G.L. to F.F.L.).
- 9. RENDERING** : i) 2 coats of acrylic plastic emulsion paint to all inside plastered surfaces over white cement based putty (1mm thk.) on walls over one coat of primer in all the rooms, Verandah Walls & Ceilings except mentioned otherwise.
ii) 2 coats of weather coats acrylic smooth exterior paint over one coat of primer on the all outside plastered surfaces of the building.
iii) 2 coats of Enamel paints to all Steel Framing over one coat of primer.
iv) Varnishing to all Wooden Doors & Framing.
v) Column No.C5,C6,C7,C8,C13,C14,C15,C16,C23,C24,C25,C26,C29,C30,C31,C32,C37,C38,C39,C40,C45,C46,C47,C48,C53,C54,C55,C56 are cladding by A.C.P. Board.
- 10. R.C.C. ROOF TERRACING** : Average 50 thk. Grading Concrete (1:4:8) and 13 thk. smooth C. Plaster (1:3) with a floating coat of Cement to be provided over R.C.C. Roof Slab with proper sloping.
- 11. CEILING** : False Ceiling in officers room, control room, supervisor room, crew room, waiting room, pantry,equipment display room, conference room & BA set room.
- 12. DRAIN** : Std. Surface Drain to be provided as necessary.
- 13. DRAIN SIDE GAP** : 50thk. Drain Side Gap - 37thk. C.C. (1:3:6) and 13thk. Cement Plaster (1:3) on Top.
- 14.** Provision of Acoustic panelling & Audio Visual system for conference room.
- 15.** Wall panelling sheet for Control room, waiting area & officer's room to be considered.
- 16.** LED Strip lighting from front side of the building shall be considered for better aesthetic look from outside during night.
- 17.** Provision of boundary wall, gates & fire water pit shall be as per Drawing no. 2395.
- 18.** Hook of sufficient capacity in the beam of the roof of alternative bays of Fire Tenders for lifting of tyres or any other small equipment safely to place on top floor of the Fire Tender.
- 19.** Front glass cover/panel below the main board of Fire Station, Moran shall be of same material on frame throughout the front elevation of the building for better aesthetic look.
- 20.** Provision of paver tiles/ blocks in front of office area and upto main road to be considered.
- 21.** To provide the provision of sliding glass door at the entrance near waiting area & same needs to be display.

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN			NAME	DATE
			DESIGNED		
			DRAWN	MANJIT GOGOI	13.11.21
			DRAWING CHECKED		
			DRAWING APPROVED		
SCALE N.T.S.	TITLE: <u>FIRE STATION BUILDING</u> <u>AT MORAN</u>		DRG No. OIL /11228		
	<u>(FIRST FLOOR PLAN & SPECIFICATIONS)</u>				



FRONT ELEVATION



SIDE ELEVATION

NOTES -

1. Clear cover to reinforcement as per is 456-2000
 - i) In beam - 25mm
 - ii) In slab - 15mm.
 - iii) In column-40mm
 - iv) In footing :50mm
2. Lap length - **54d** for m. s. and **56d** for tor steel.
3. Reinforcements -
 - i) HYSD bars grade fe500 conforming to is : 1786 - 1985.
4. All Structural Steel Works shall conform to IS: 800 - 1984
5. Flat Steel conforming to IS: 1731 - 1971.
6. All Hex. Bolts, Screws & Nuts to conform to IS: 1363 (Part 1) - 2002
7. Welding Works shall conform to IS: 816 -1969.
8. Timber Works shall be 1st. class Seasoned dressed timber.
9. Squatting type W.C. Pans to conform to IS: 2556 (PART 2) - 2004.
10. All aluminum works shall conform to is:13920
11. Column and beam detailing will be as per is:13920
12. Not more than 50 percent of the bars shall be spliced at one section.
13. All Stainless Steel of grade SS-403
14. Pre constructional Anti Termite treatment shall be as per IS: 6313 (part 1) - 1981 and IS: 6313 (part 2) -2001.
15. Hollow steel section shall conform to IS :4923 YST 210 grade.

REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227



OIL INDIA LIMITED
DRAWING OFFICE
DULIAJAN

SCALE
N.T.S.

TITLE:
FIRE STATION BUILDING
AT MORAN

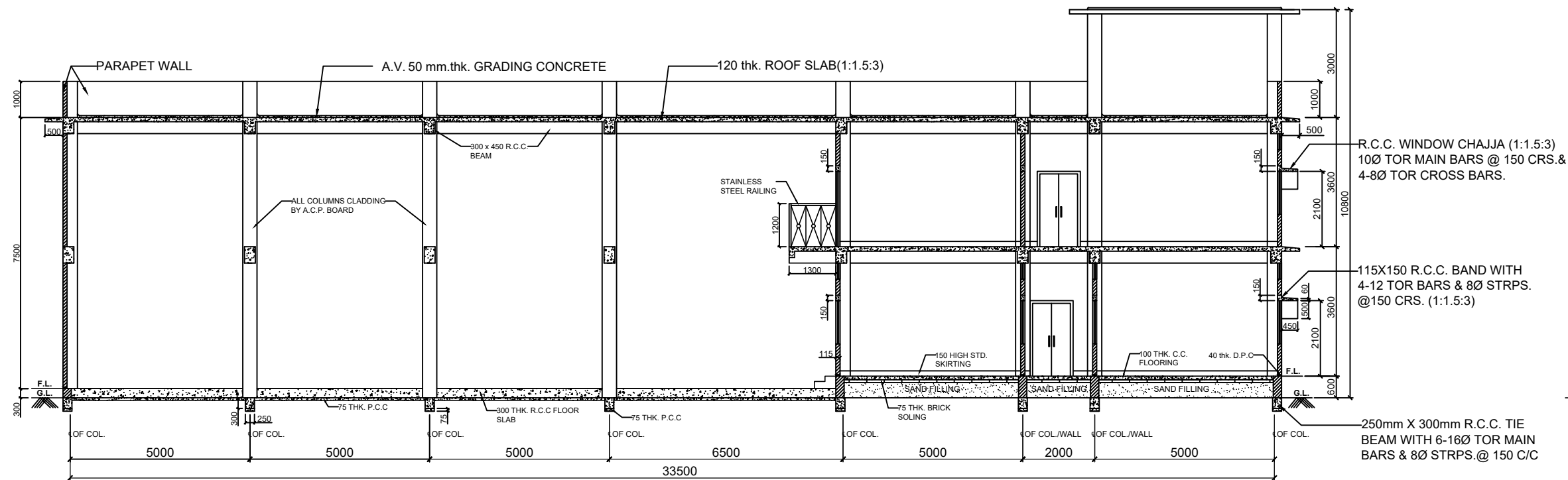
(ELEVATION)

	NAME	DATE
DESIGNED		
DRAWN	MANJIT GOGOI	13.11.21
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DRAWING APPROVED		

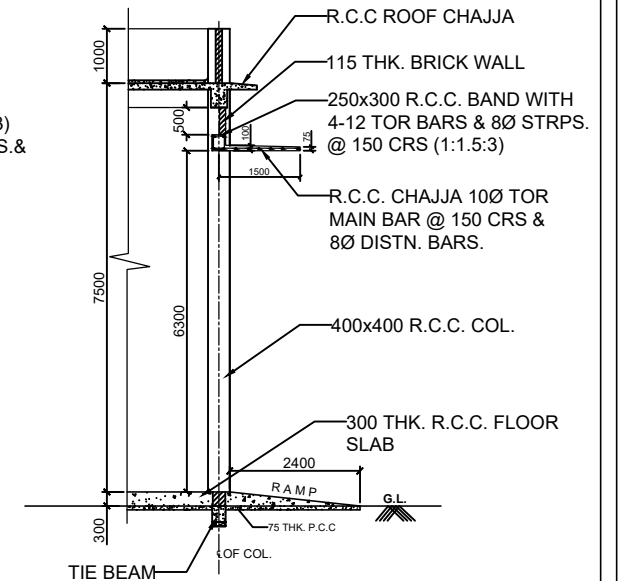
DRG No.
OIL /11229

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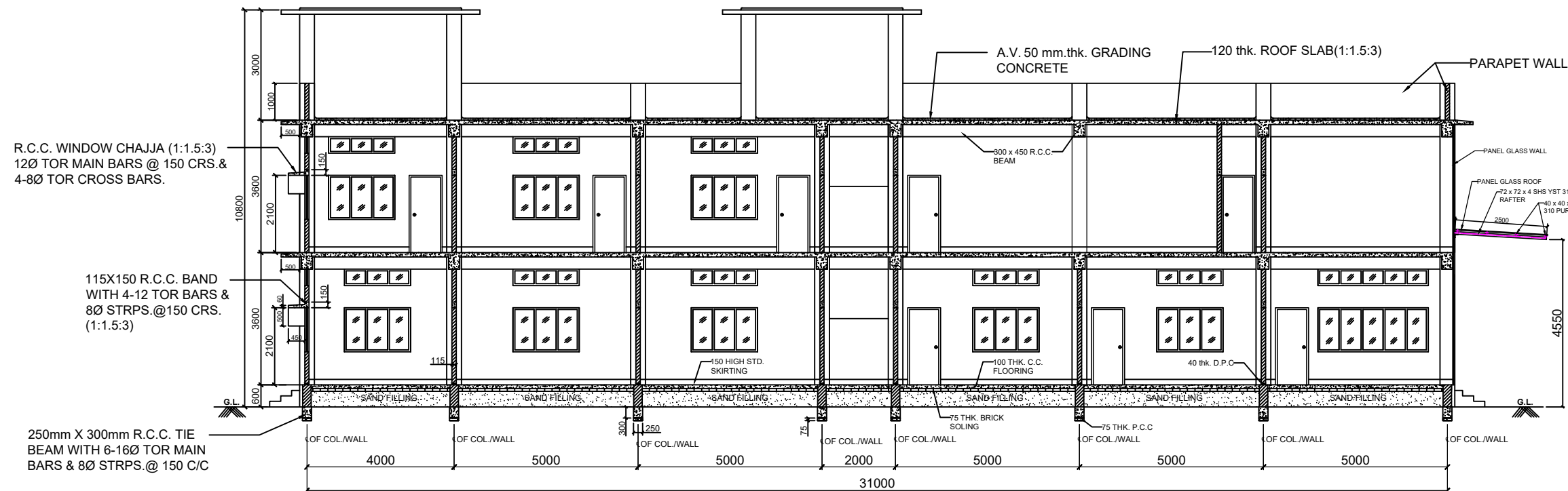
REV.	DATE	ZONE	BRIEF RECORD	APPROVED



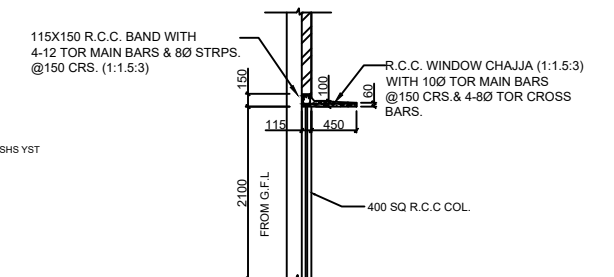
SECTION 'A-A'



SECTION 'C-C'



SECTION 'B-B'



DETAIL OF R.C.C. WINDOW CHAJJA

REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227



OIL INDIA LIMITED
DRAWING OFFICE
DULIAJAN

SCALE
N.T.S.

TITLE:
FIRE STATION BUILDING
AT MORAN

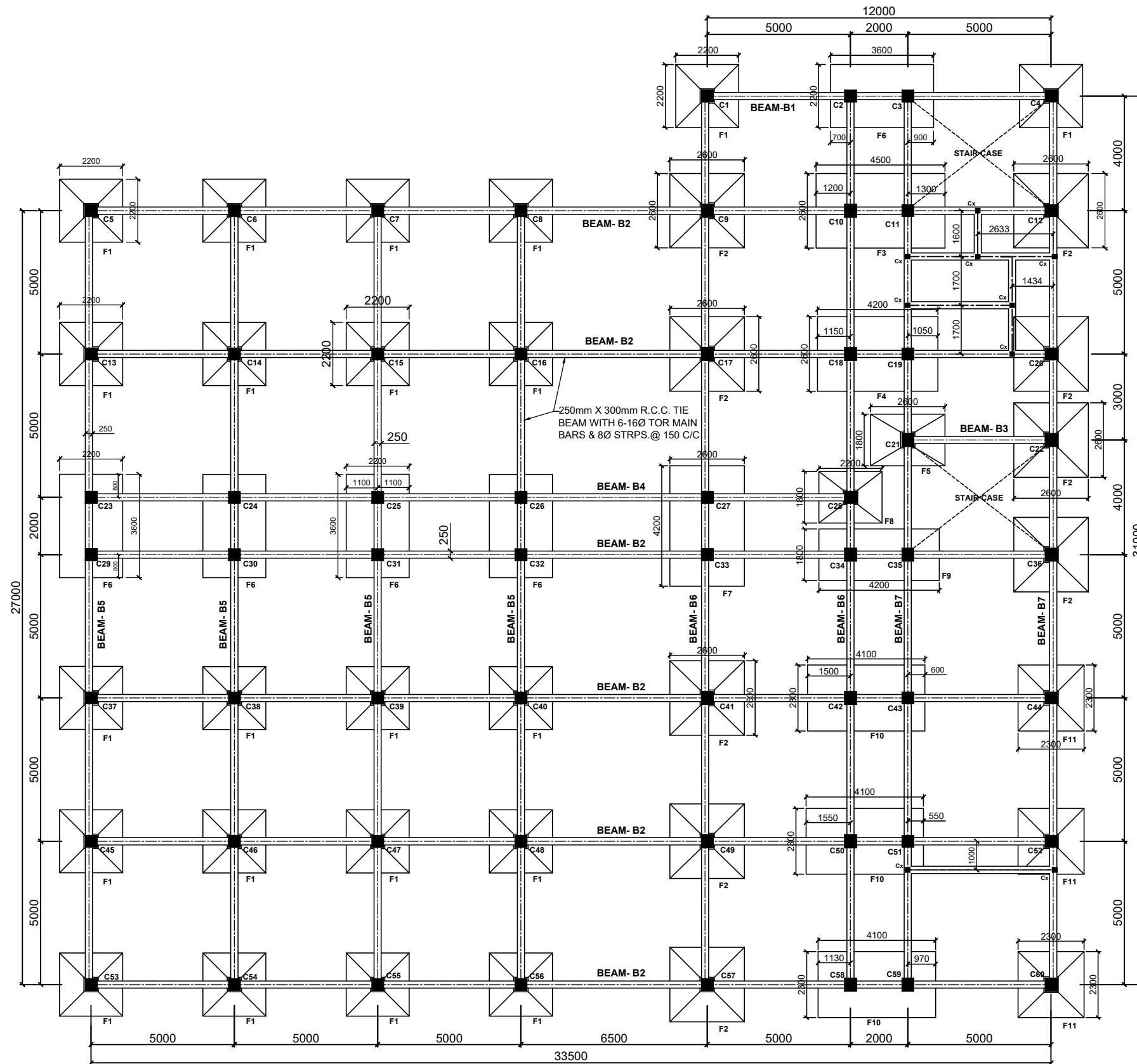
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	NAME	DATE
DESIGNED		
DRAWN	MANJIT GOGOI	13.11.21
DRAWING CHECKED		
DRAWING APPROVED		

DRG No.
OIL /11230

ALL DIMENSIONS ARE IN MILLIMETER.

REV.	DATE	ZONE	BRIEF RECORD	APPROVED





PLAN (SHOWING TIE BEAMS & COL. FOUNDATION)

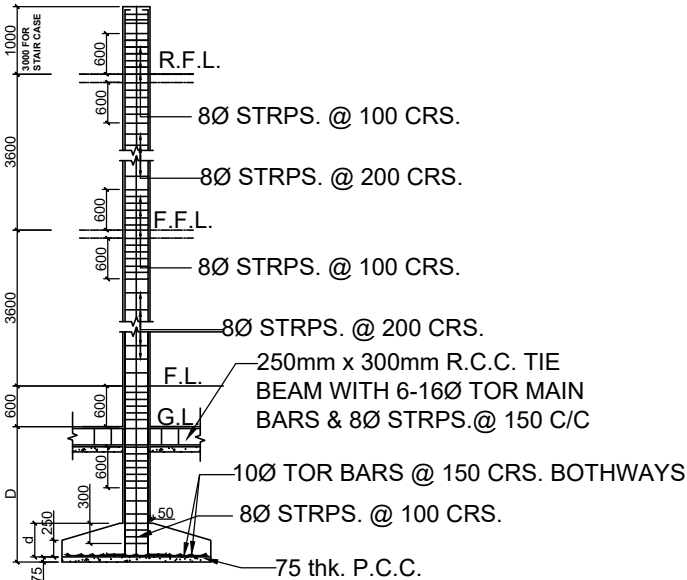
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REV.	DATE	ZONE	BRIEF RECORD	APPROVED

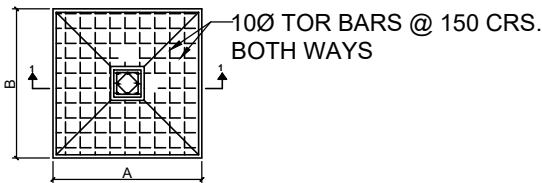
REF. DRG. :
FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN	NAME	DATE
		DESIGNED	
		DRAWN	MANJIT GOGOI 13.11.21
		DRAWING CHECKED	
	TITLE: FIRE STATION BUILDING AT MORAN (FOUNDATION, TIE BEAM & COLUMN PLAN)	DRAWING APPROVED	
		DRG No.	
		OIL /11231	

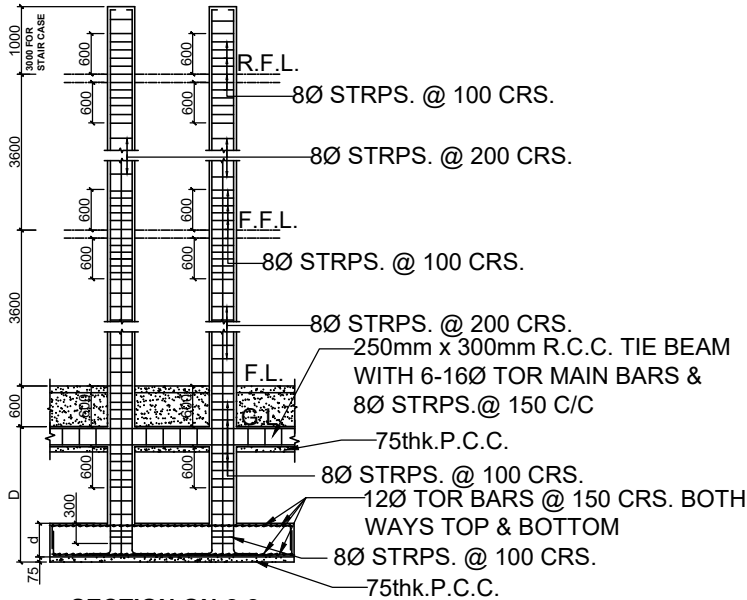
FOOTING NOS.	FOOTING SIZE A X B	DIMENSION		BASE REINFORCEMENT
		d	D	
F1	2200 X 2200	500	2000	10Ø TOR BARS@ 150 C/C BOTH WAYS
F2	2600 X 2600	500	2000	10Ø TOR BARS@ 150 C/C BOTH WAYS
F3	4500 X 2600	500	2000	12Ø TOR BARS@ 150 C/C BOTH WAYS TOP & BOTTOM
F4	4200 X 2600	500	2000	12Ø TOR BARS@ 150 C/C BOTH WAYS TOP & BOTTOM
F5	2600 X 1800	500	2000	10Ø TOR BARS@ 150 C/C BOTH WAYS
F6	2200 X 3600	500	2000	12Ø TOR BARS@ 150 C/C BOTH WAYS TOP & BOTTOM
F7	2600 X 4200	500	2000	12Ø TOR BARS@ 150 C/C BOTH WAYS TOP & BOTTOM
F8	2200 X 1800	500	2000	10Ø TOR BARS@ 150 C/C BOTH WAYS
F9	4200 X 1800	500	2000	12Ø TOR BARS@ 150 C/C BOTH WAYS TOP & BOTTOM
F10	4100 X 2300	500	2000	12Ø TOR BARS@ 150 C/C BOTH WAYS TOP & BOTTOM
F11	2300 X 2300	500	2000	10Ø TOR BARS@ 150 C/C BOTH WAYS



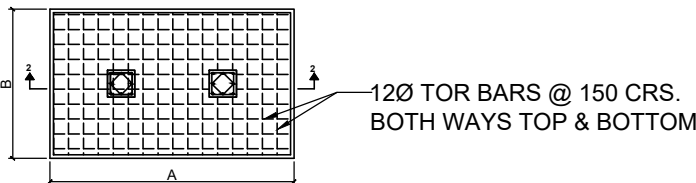
SECTION ON-1-1



DETAIL OF ISOLATED FOOTING F1,F2,F5,F8, & F11

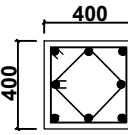
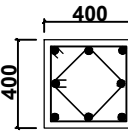
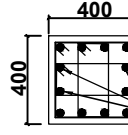
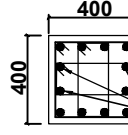
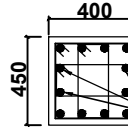
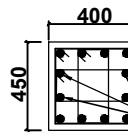


SECTION ON-2-2




DETAIL OF COMBINED FOOTING F3,F4,F6,F7,F9, F10

ALL DIMENSIONS ARE IN MILLIMETER.

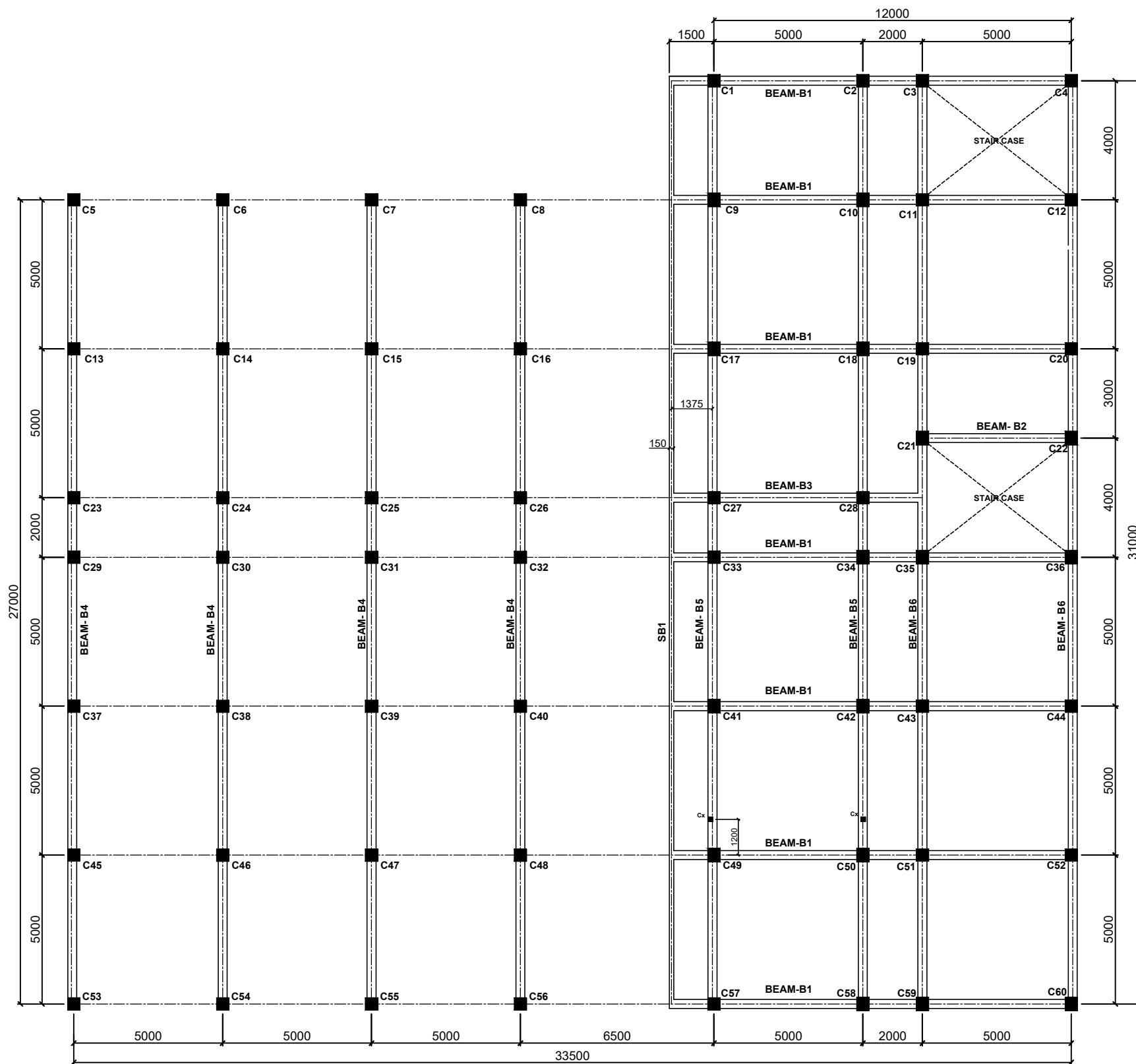
COLUMN TITLE	COLUMN SIZE (MM)	REINFORCEMENT DETAILS OF THE COLUMN
C5,C6,C7,C8,C13,C14,C15,C16,C23,C24,C25,C26,C29,C30,C31,C32,C37,C38,C39,C40,C45,C46,C47,C48,C53,C54,C55,C56.	400 X 400	 8 NOS. OF 20MM DIA BARS
C1,C2,C3,C4	400 X 400	 8 NOS. OF 25MM DIA BARS
C11,C12,C19,C20,C27,C28,C33,C44,C52,C57	400 X 400	 8 NOS. OF 25MM DIA BARS 4 NOS. OF 16MM DIA BARS
C43,C51	400 X 400	 8 NOS. OF 25MM DIA BARS 4 NOS. OF 20MM DIA BARS
C21,C22,C34,C35,C36,C41,C42,C49,C50,C58,C59,C60	400 X 450	 8 NOS. OF 25MM DIA BARS 4 NOS. OF 20MM DIA BARS
C9,C10,C17,C18,	400 X 450	 8 NOS. OF 25MM DIA BARS 4 NOS. OF 20MM DIA BARS

REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN		NAME	DATE
			DESIGNED	
			DRAWN	MANJIT GOGOI 13.11.21
			DRAWING CHECKED	
SCALE N.T.S.	TITLE: FIRE STATION BUILDING AT MORAN (DETAILS OF COLUMN)		DRAWING APPROVED	
			DRG No. OIL /11232	

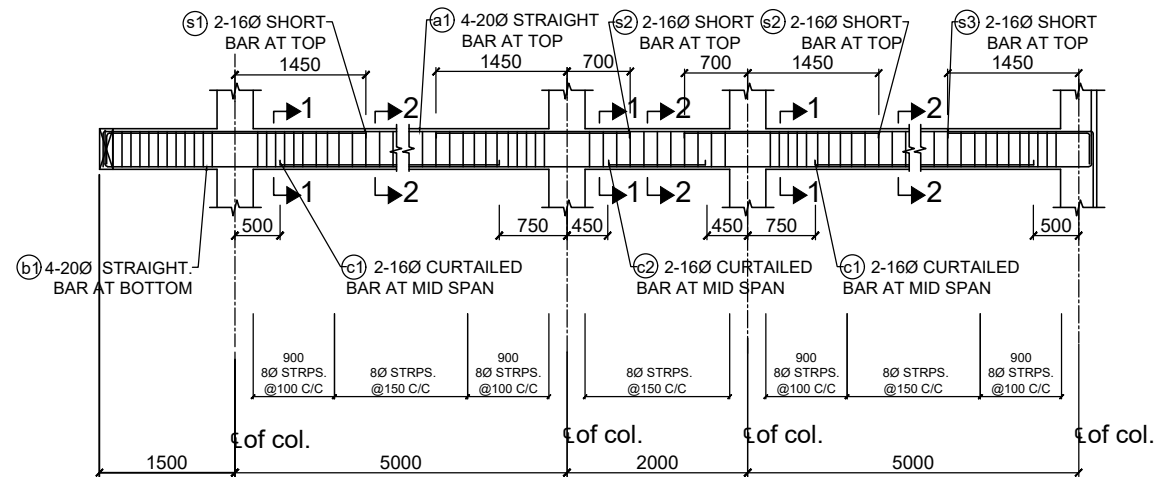
REV.	DATE	ZONE	BRIEF RECORD	APPROVED



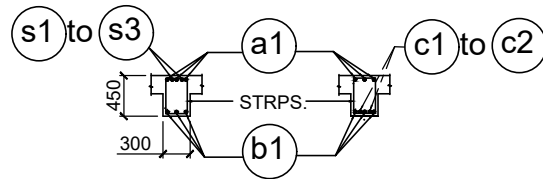
FIRST FLOOR BEAM PLAN

ALL DIMENSIONS ARE IN MILLIMETER.

REV.	DATE	ZONE	BRIEF RECORD	APPROVED

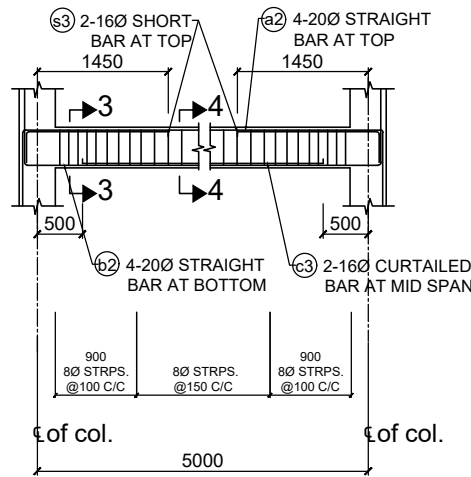


BEAM-B1 (300 x 450)

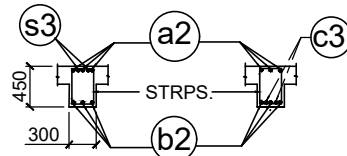


SECTION-'1-1'

SECTION-'2-2'


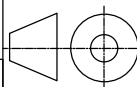


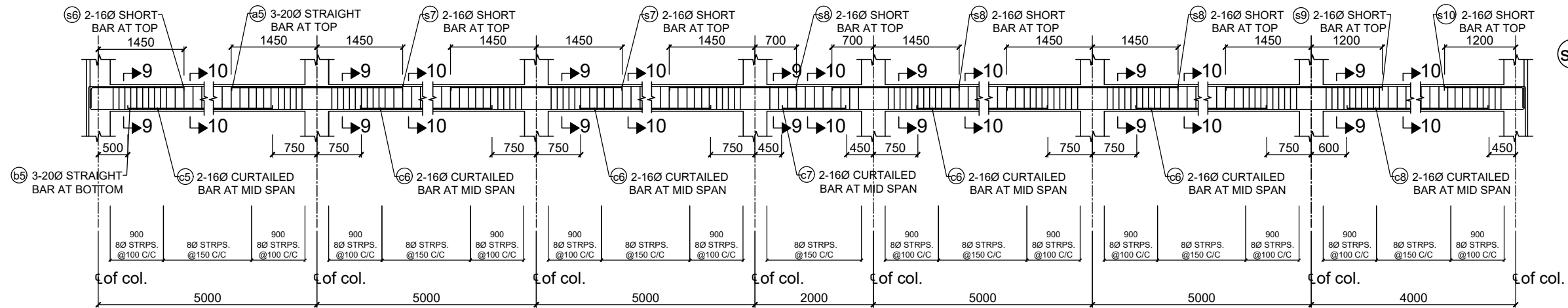
BEAM-B2 (300 x 450)



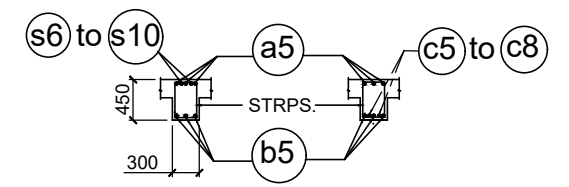
SECTION-'3-3' SECTION-'4-4'

REF. DRG. :
FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

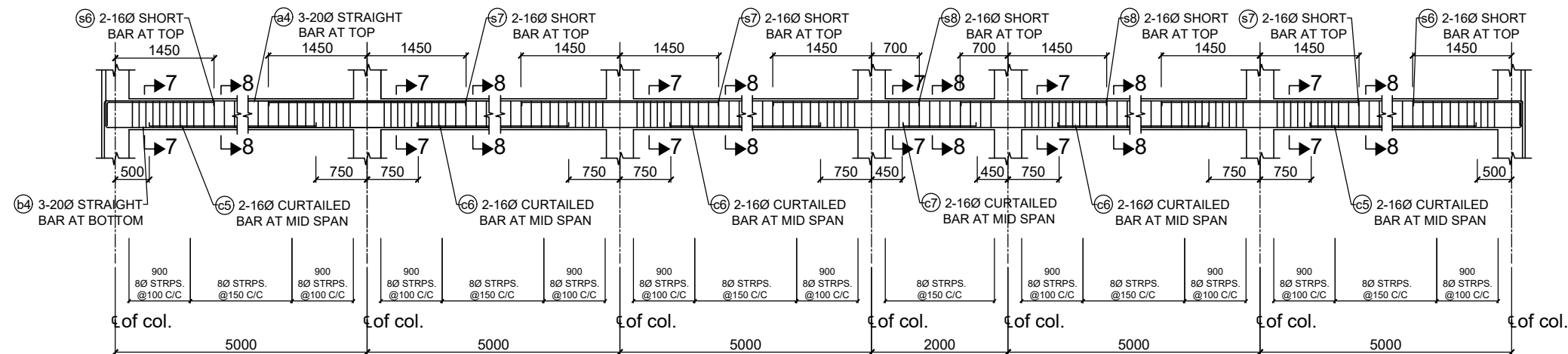
	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN			NAME	DATE
			DESIGNED		
			DRAWN	MANJIT GOGOI	13.11.21
			DRAWING CHECKED		
SCALE N.T.S.	TITLE: <u>FIRE STATION BUILDING</u> <u>AT MORAN</u> <u>(DETAILS OF FIRST FLOOR BEAM)</u> <u>SHEET NO.1 OF 3</u>		DRAWING APPROVED		
			DRG No. OIL /11233		
					



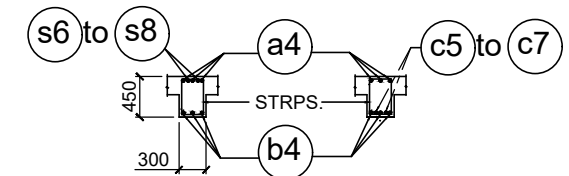
BEAM-B5 (300 x 450)



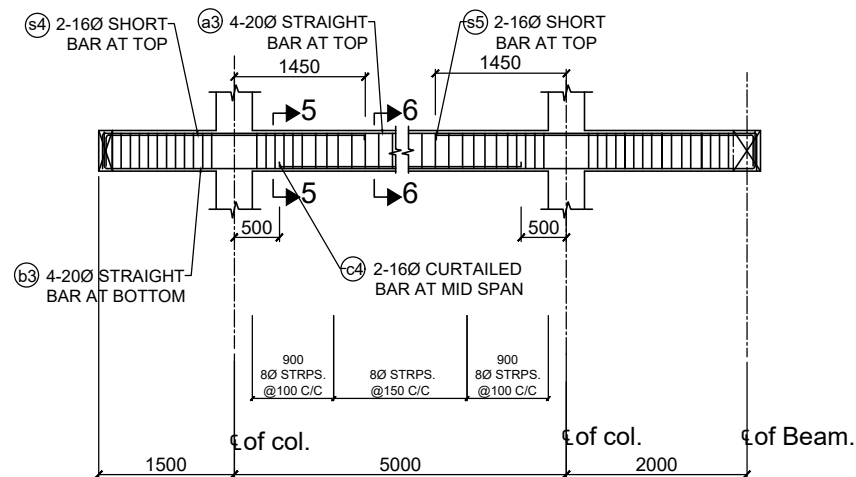
SECTION-'9-9' **SECTION-'10-10'**



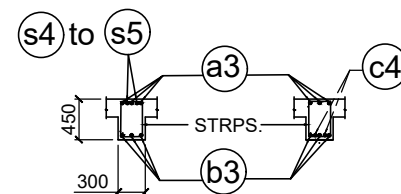
BEAM-B4 (300 x 450)



SECTION-'7-7' **SECTION-'8-8'**



BEAM-B3 (300 x 450)



SECTION-'5-5' **SECTION-'6-6'**

REF. DRG. :
FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227



OIL INDIA LIMITED
DRAWING OFFICE
DULIAJAN

SCALE
N.T.S.

TITLE:
FIRE STATION BUILDING
AT MORAN

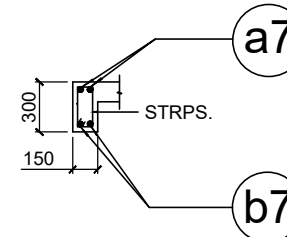
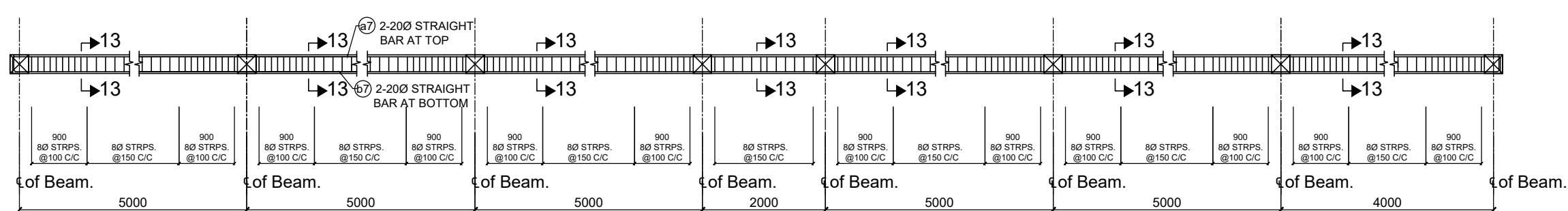
(DETAILS OF FIRST FLOOR BEAM)
SHEET NO.2 OF 3

	NAME	DATE
DESIGNED		
DRAWN	MANJIT GOGOI	13.11.21
DRAWING CHECKED		
DRAWING APPROVED		

DRG No.
OIL /11234

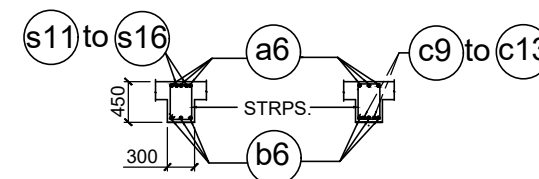
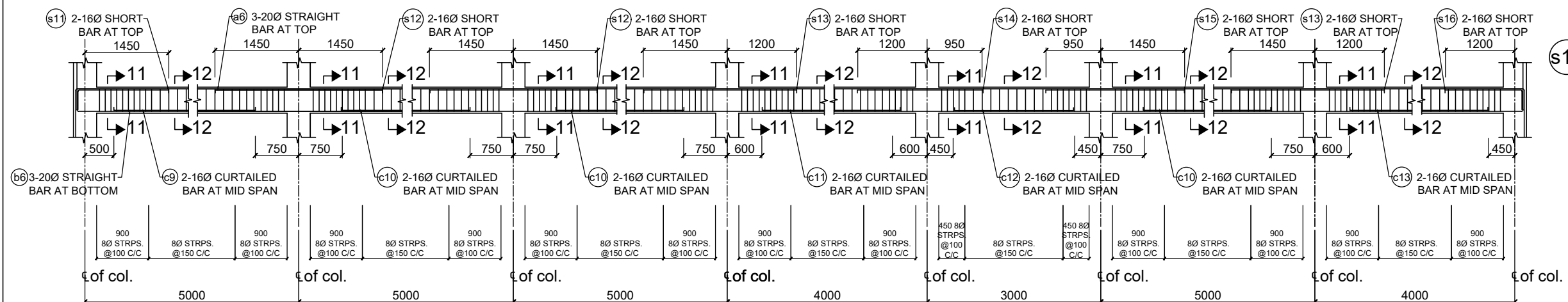
ALL DIMENSIONS ARE IN MILLIMETER.

REV.	DATE	ZONE	BRIEF RECORD	APPROVED



SECTION-'13-13'

BEAM-SB1 (150 x 300)




SECTION-'11-11' SECTION-'12-12'

BEAM-B6 (300 x 450)

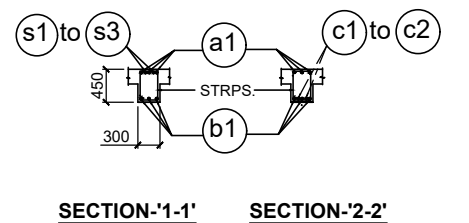
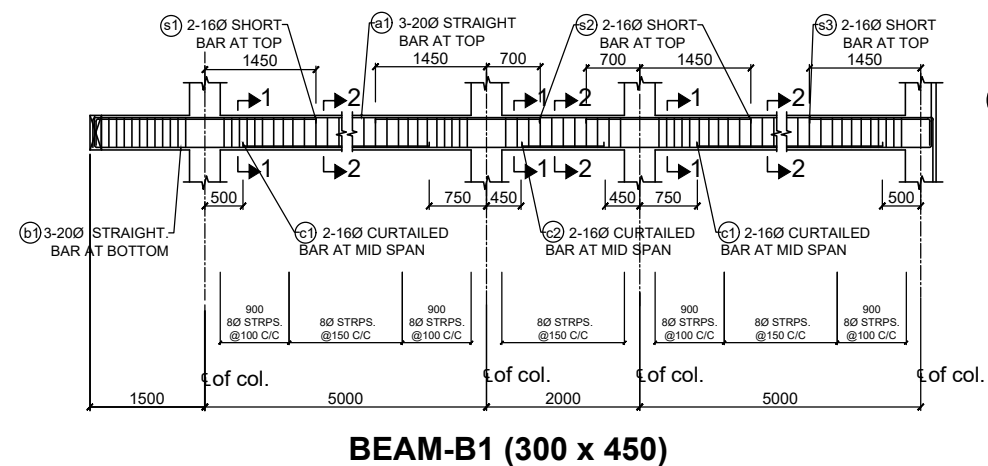
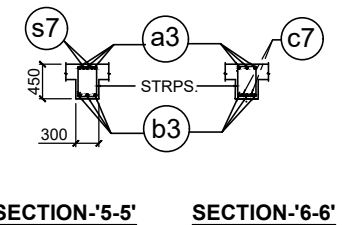
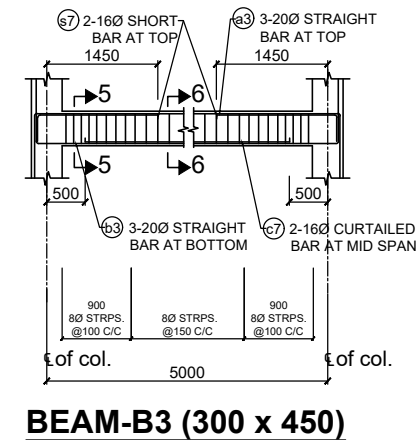
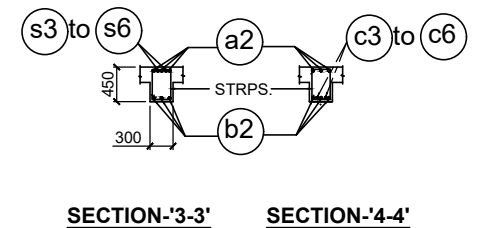
REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN		NAME	DATE
			DESIGNED	
			DRAWN	MANJIT GOGOI 13.11.21
			DRAWING CHECKED	
SCALE N.T.S.	TITLE: FIRE STATION BUILDING AT MORAN (DETAILS OF FIRST FLOOR BEAM) SHEET NO.3 OF 3		DRAWING APPROVED	
			DRG No. OIL /11235	

ALL DIMENSIONS ARE IN MILLIMETER.

REV.	DATE	ZONE	BRIEF RECORD	APPROVED



ALL DIMENSIONS ARE IN MILLIMETER.

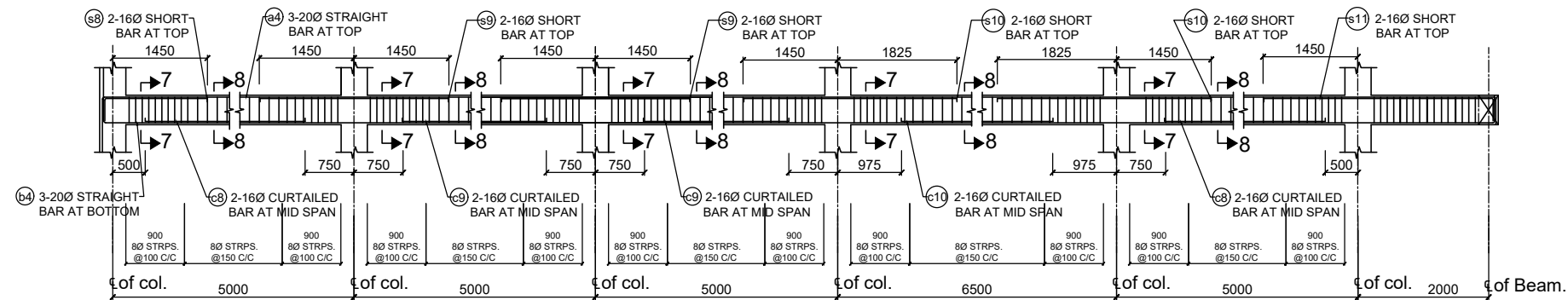
REV.	DATE	ZONE	BRIEF RECORD	APPROVED



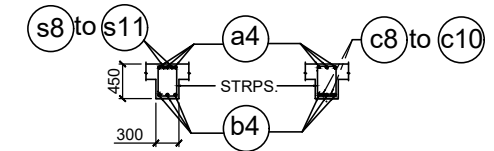
TITLE:
FIRE STATION BUILDING
AT MORAN
(DETAILS OF ROOF BEAM)
SHEET NO.1 OF 3

	NAME	DATE
DESIGNED		
DRAWN	MANJIT GOGOI	13.11.21
DRAWING CHECKED		
DRAWING APPROVED		

DRG No.
OIL /11236

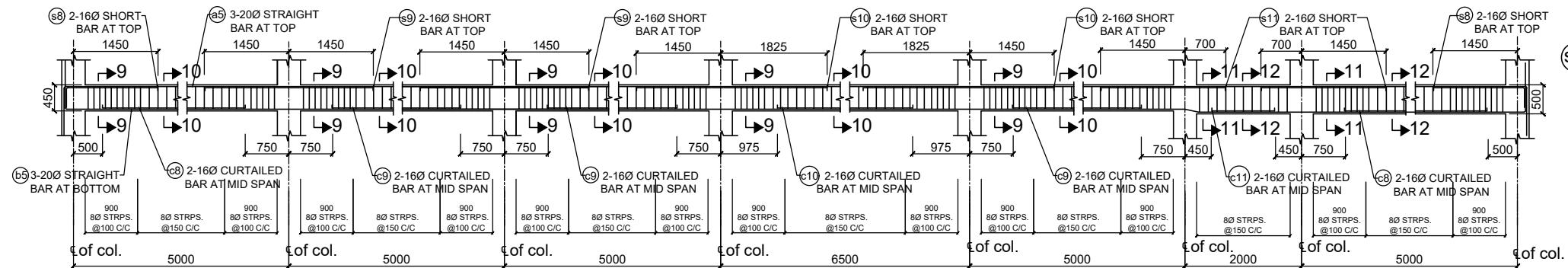


BEAM-B4 (300 x 450)

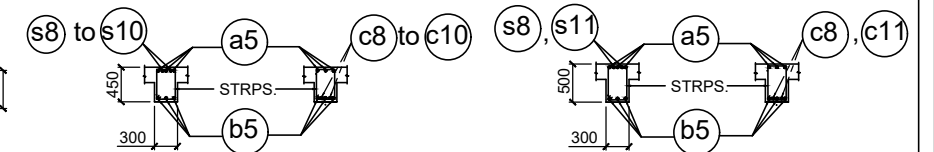


SECTION-'7-7'

SECTION-'8-8'



BEAM-B5

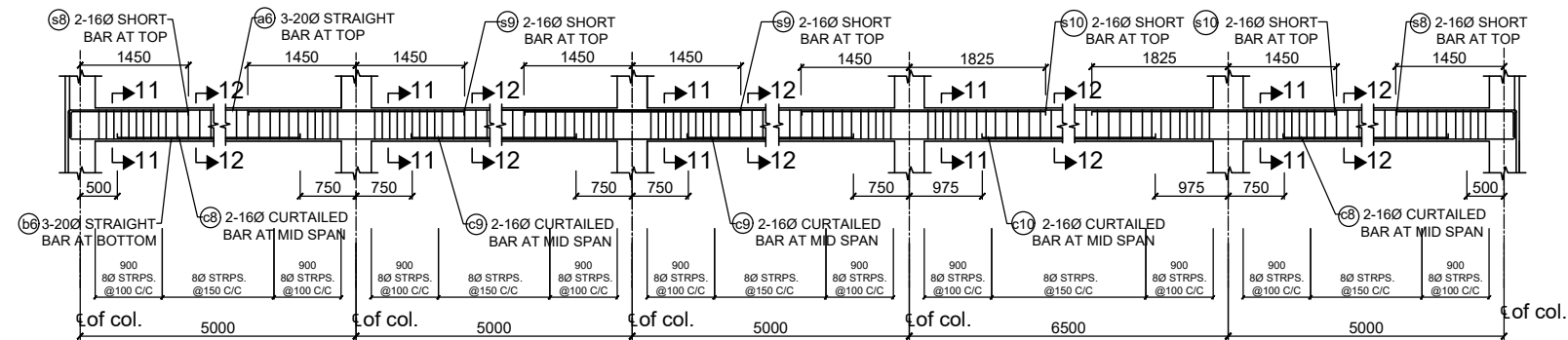


SECTION-'9-9'

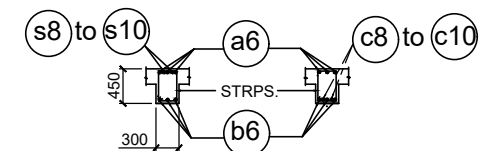
SECTION-'10-10'

SECTION-'11-11'

SECTION-'12-12'

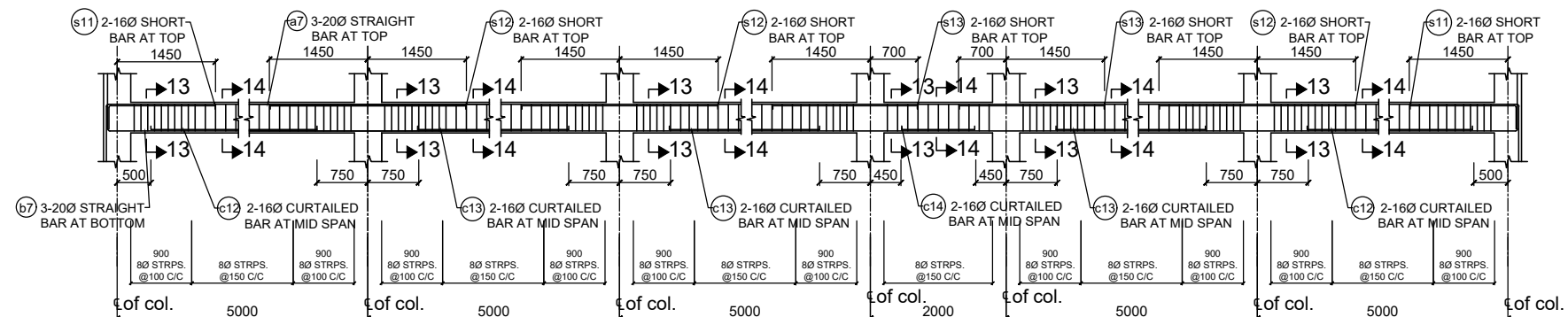


BEAM-B6 (300 x 450)

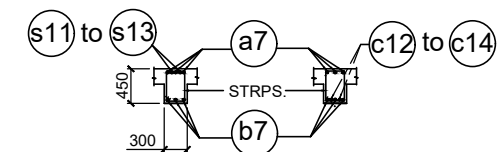


SECTION-'11-11'

SECTION-'12-12'



BEAM-B7 (300 x 450)



SECTION-'13-13'

SECTION-'14-14'

REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227



OIL INDIA LIMITED
DRAWING OFFICE
DULIAJAN

SCALE
N.T.S.

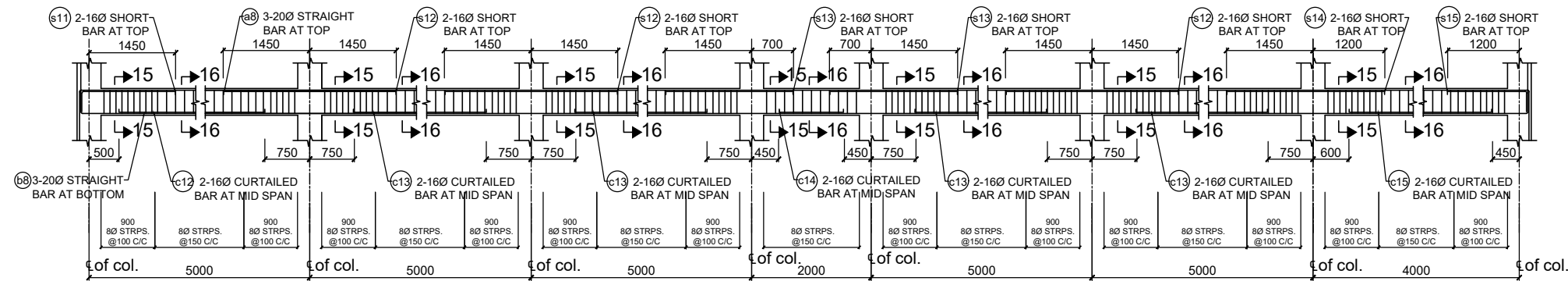
TITLE:
FIRE STATION BUILDING
AT MORAN
(DETAILS OF ROOF BEAM)
SHEET NO.2 OF 3

	NAME	DATE
DESIGNED		
DRAWN	MANJIT GOGOI	13.11.21
DRAWING CHECKED		
DRAWING APPROVED		

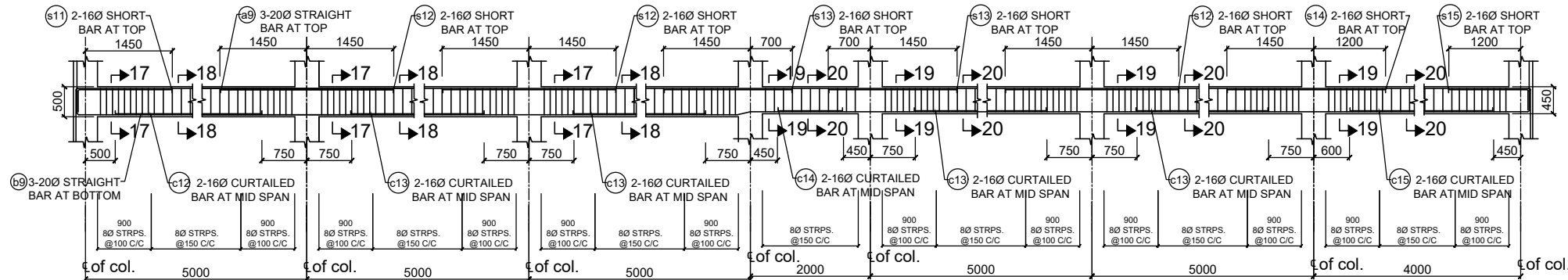
DRG No.
OIL /11237

ALL DIMENSIONS ARE IN MILLIMETER.

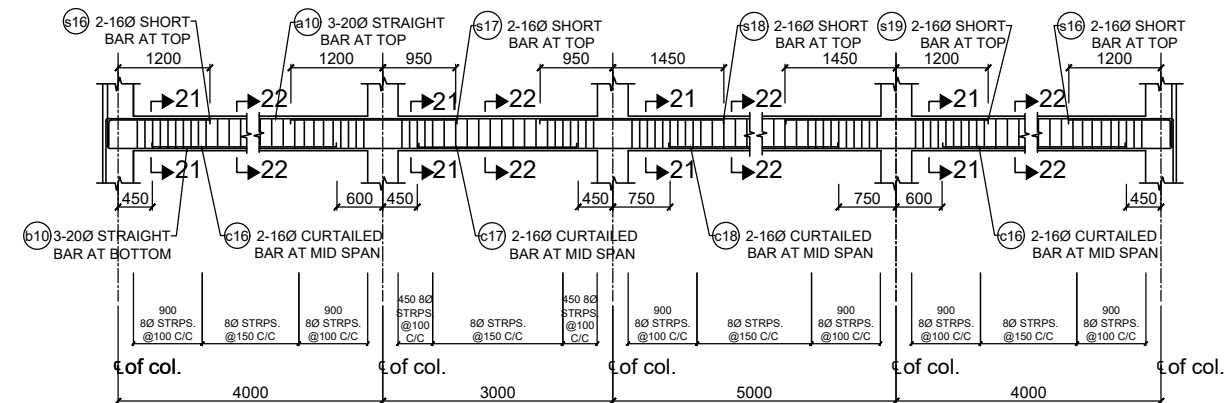
REV.	DATE	ZONE	BRIEF RECORD	APPROVED



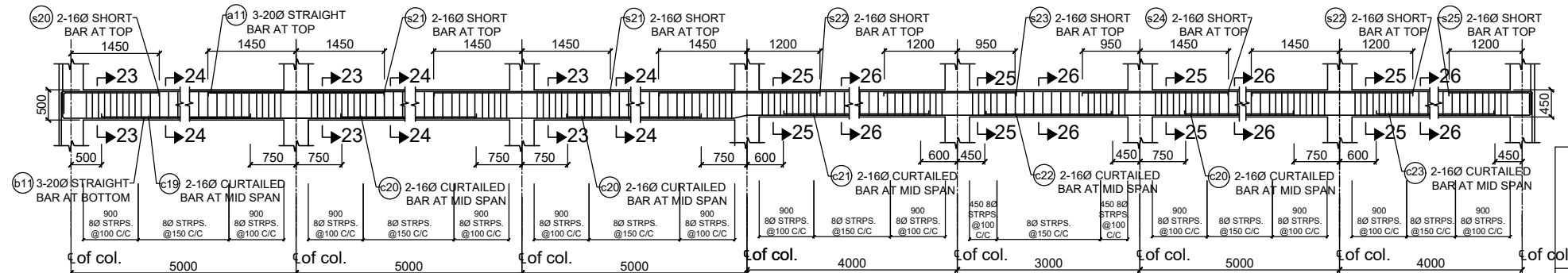
BEAM-B8 (300 x 450)



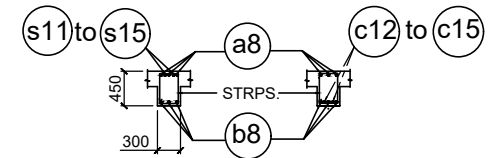
BEAM-B9



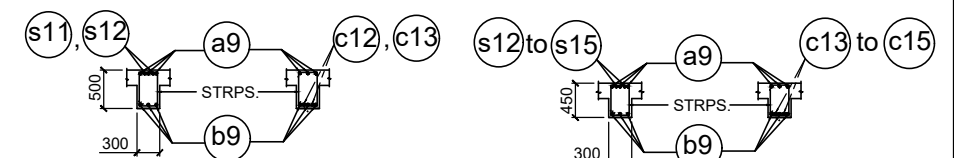
BEAM-B10 (300 x 450)



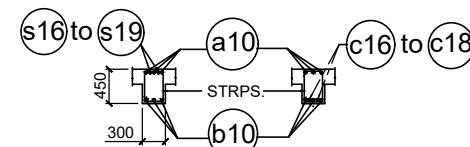
BEAM-B11



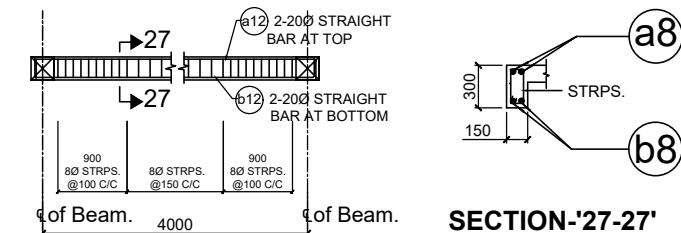
SECTION-'15-15' SECTION-'16-16'



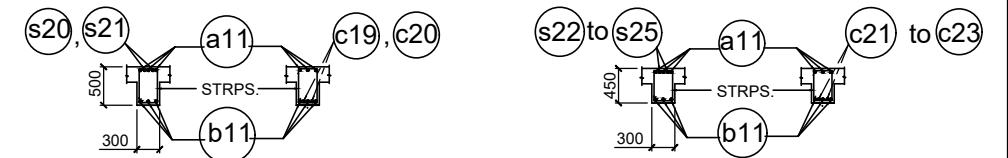
SECTION-'17-17' SECTION-'18-18' SECTION-'19-19' SECTION-'20-20'



SECTION-'21-21' SECTION-'22-22'



BEAM-SB1 (150 x 300)



SECTION-'23-23' SECTION-'24-24' SECTION-'25-25' SECTION-'26-26'

REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227



OIL INDIA LIMITED
DRAWING OFFICE
DULIAJAN

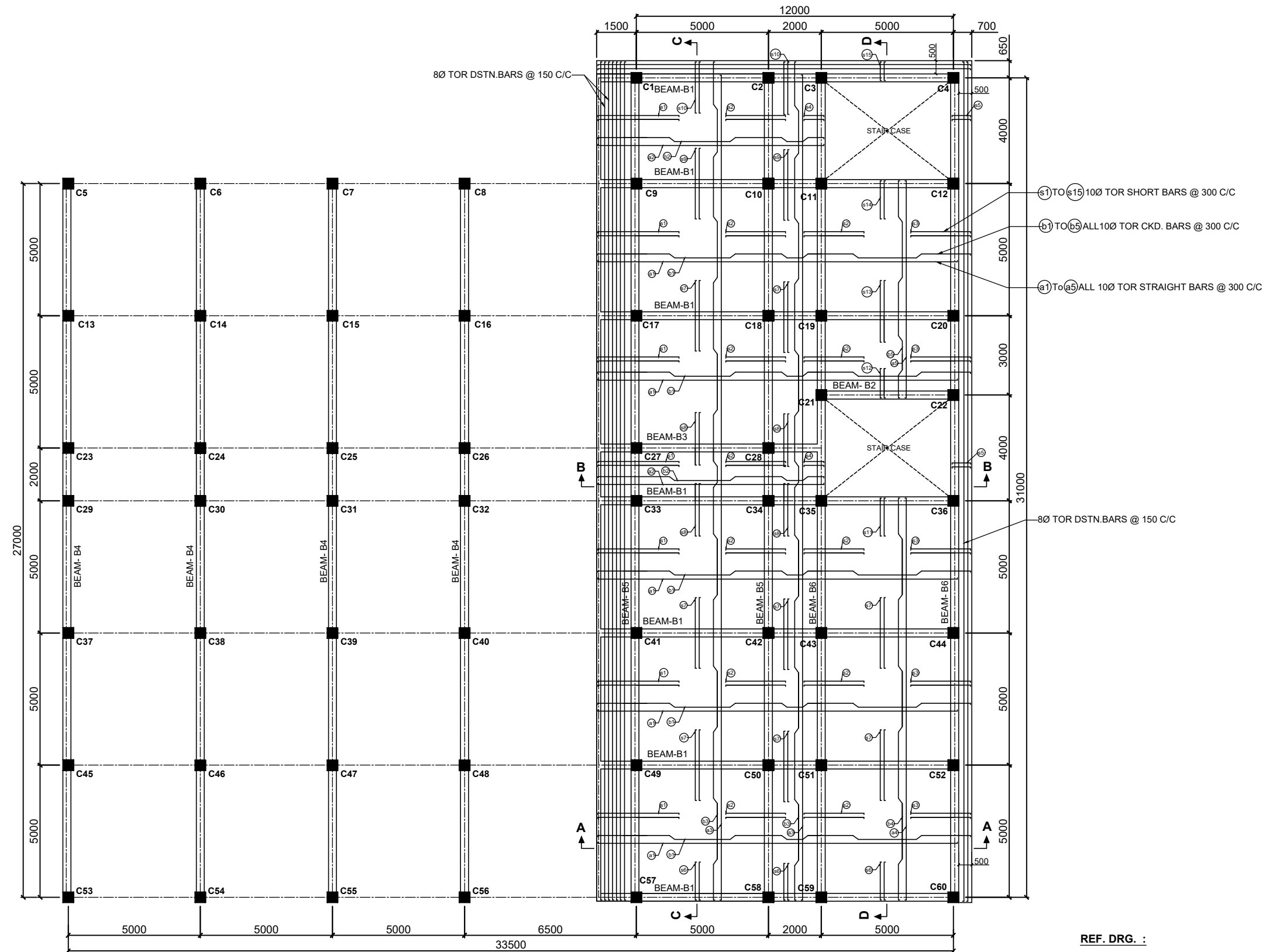
SCALE
N.T.S.

TITLE:
FIRE STATION BUILDING
AT MORAN
(DETAILS OF ROOF BEAM)
SHEET NO.3 OF 3

DESIGNED	NAME	DATE
DRAWN	MANJIT GOGOI	13.11.21
DRAWING CHECKED		
DRAWING APPROVED		

DRG No.
OIL /11238

REV.	DATE	ZONE	BRIEF RECORD	APPROVED



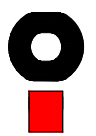
**PLAN
(SHOWING REINFORCEMENT OF 1ST FLOOR SLAB)**

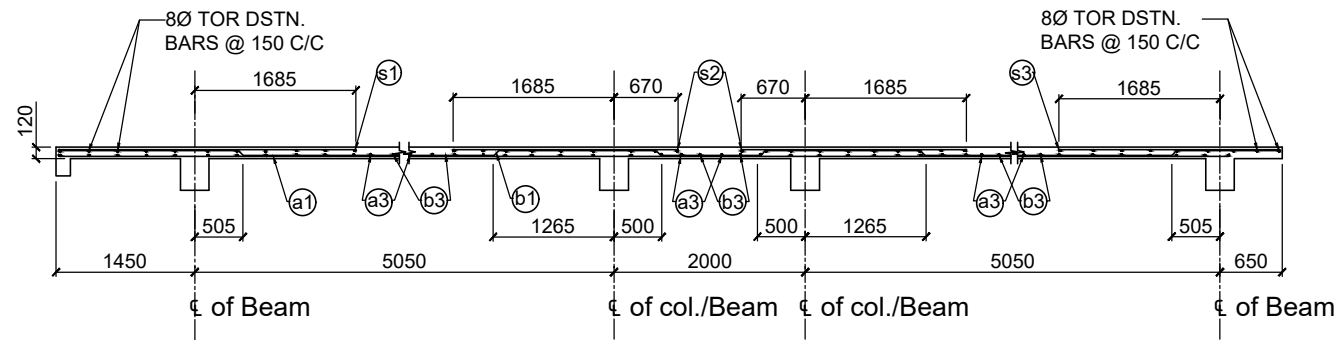
ALL DIMENSIONS ARE IN MILLIMETER.

REV.	DATE	ZONE	BRIEF RECORD	APPROVED

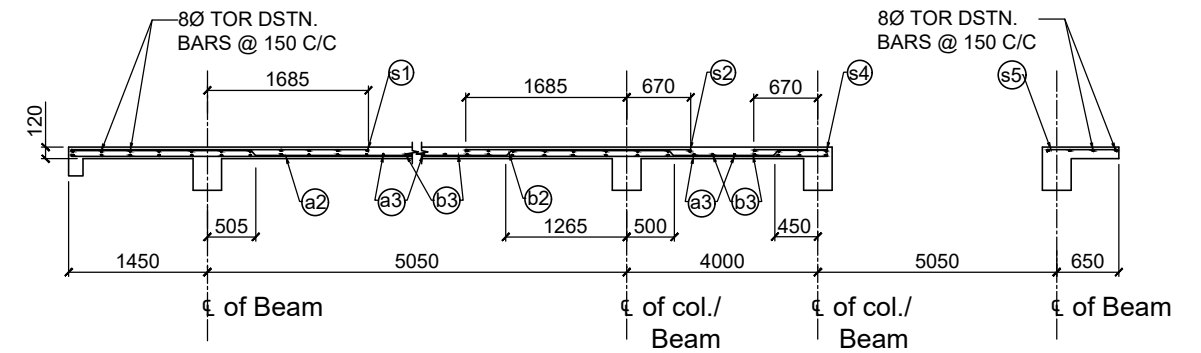
REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

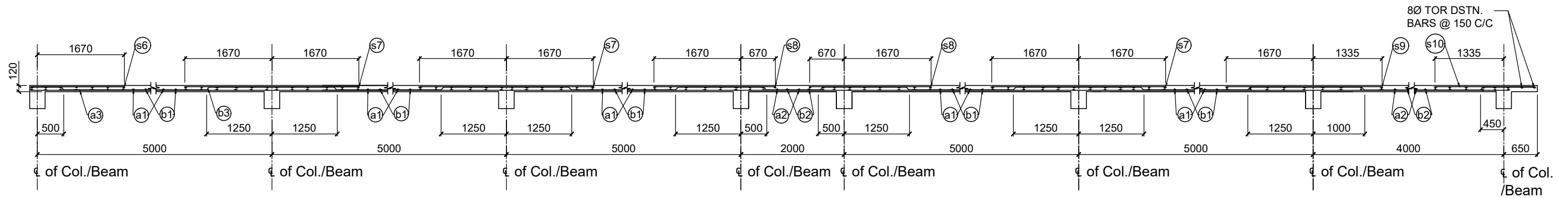
	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN	DESIGNED	NAME	DATE
		DRAWN	MANJIT GOGOI	13.11.21
		DRAWING CHECKED		
		DRAWING APPROVED		
SCALE N.T.S.	TITLE: FIRE STATION BUILDING AT MORAN (DETAILS OF FIRST FLOOR SLAB) SHEET NO.1 OF 2		DRG No. OIL /11239	



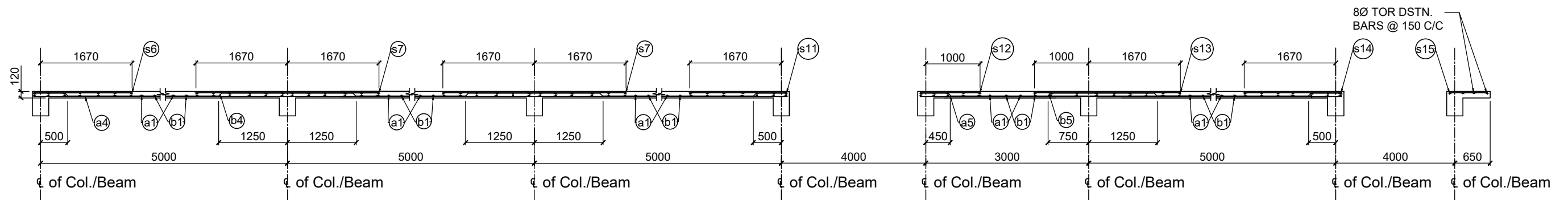
SECTION-A-A'



SECTION-B-B'



SECTION-C-C'

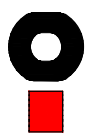


SECTION-D-D'

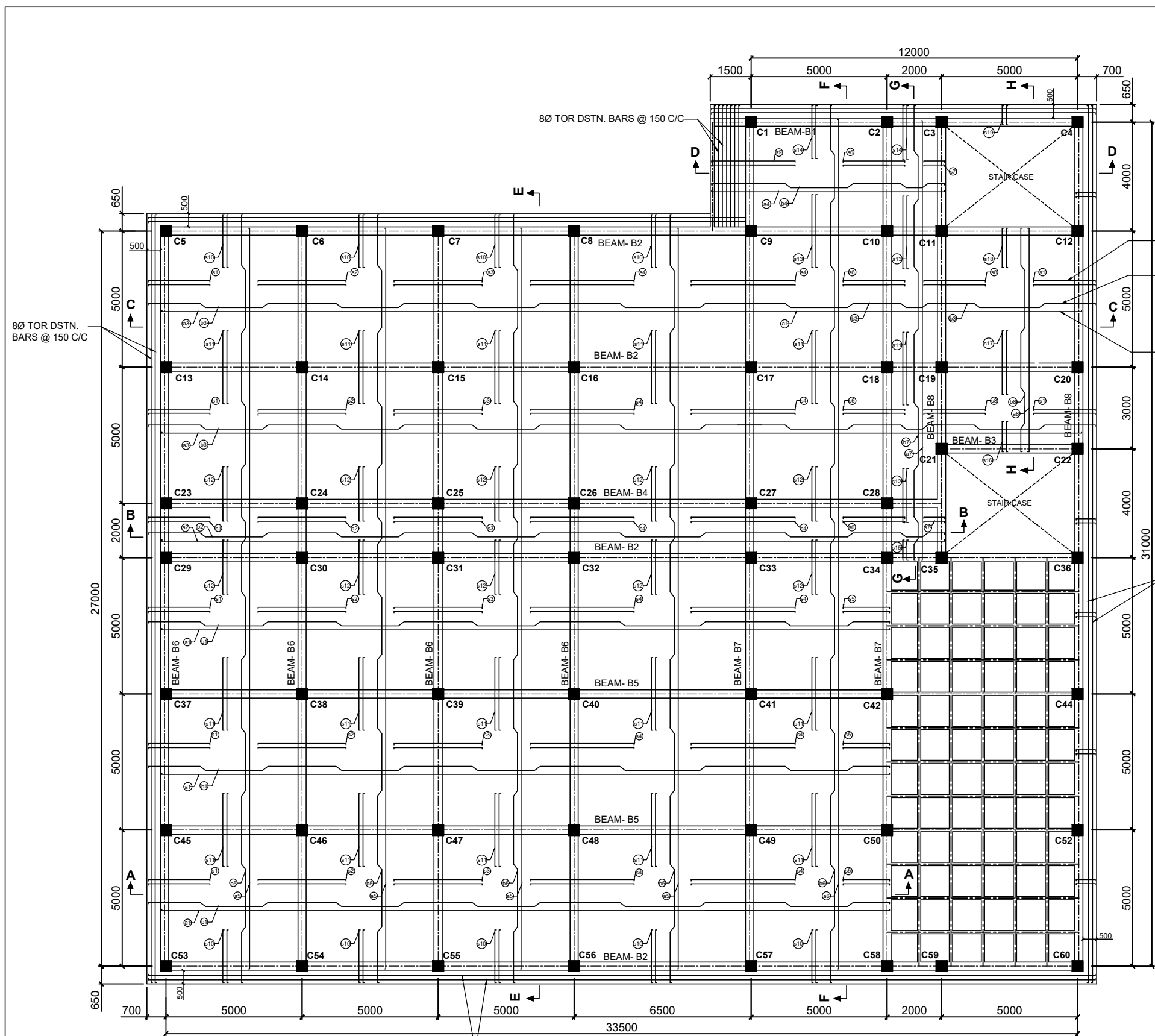
ALL DIMENSIONS ARE IN MILLIMETER.

REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

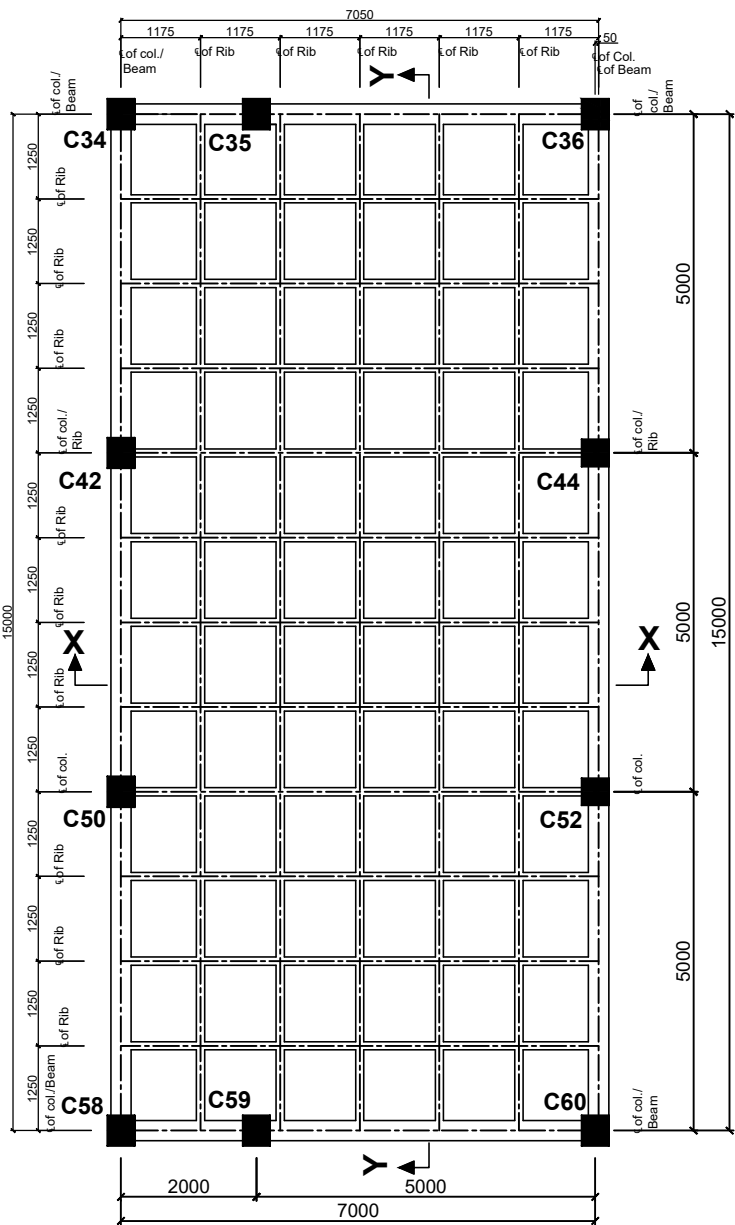
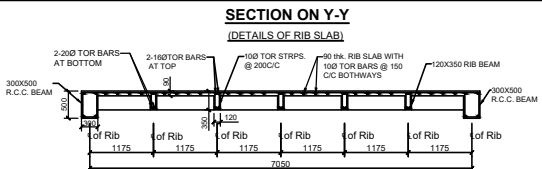
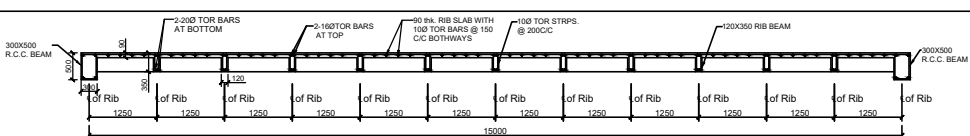
	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN	NAME	DATE
		DESIGNED	
		DRAWN	MANJIT GOGOI 13.11.21
		DRAWING CHECKED	
SCALE N.T.S.	TITLE: FIRE STATION BUILDING AT MORAN (DETAILS OF FIRST FLOOR SLAB) SHEET NO.2 OF 2	DRAWING APPROVED	
		DRG No. OIL /11240	

REV.	DATE	ZONE	BRIEF RECORD	APPROVED




PLAN
(SHOWING REINFORCEMENT OF ROOF SLAB)

ALL DIMENSIONS ARE IN MILLIMETER.



REF. DRG. :
FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

	OIL INDIA LIMITED		NAME	DATE
	DRAWING OFFICE		DESIGNED	
	DULIAJAN		DRAWN	MANJIT GOGOI 13.11.21
			DRAWING CHECKED	
SCALE N.T.S.	TITLE: FIRE STATION BUILDING AT MORAN (DETAILS OF ROOF SLAB & RIB SLAB) SHEET NO.1 OF 3		DRAWING APPROVED	
			DRG No. OIL /11241	

REV.	DATE	ZONE	BRIEF RECORD	APPROVED

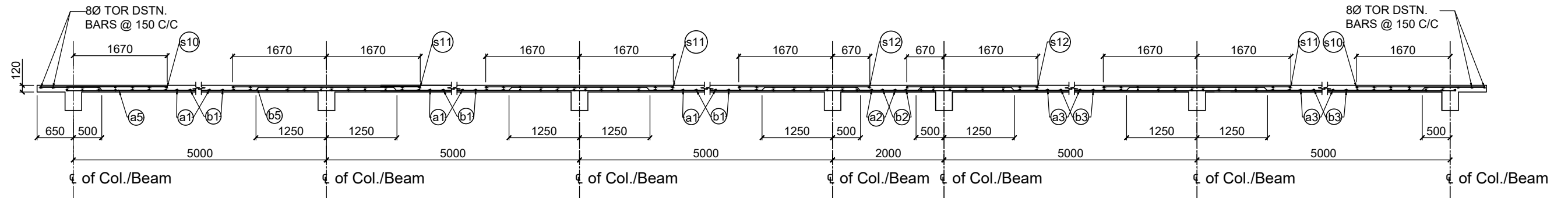


REV.	DATE	ZONE	BRIEF RECORD	APPROVED

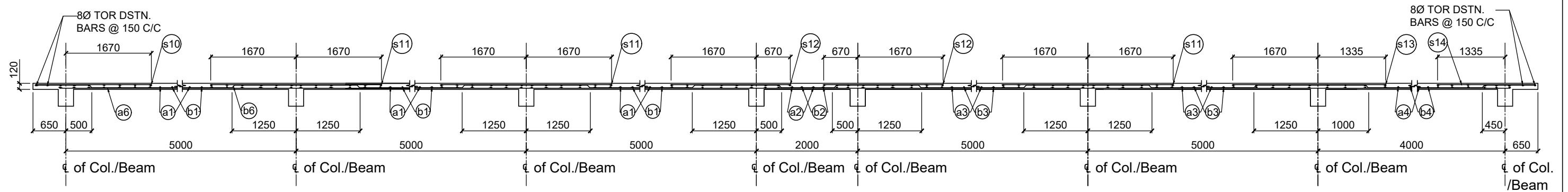


	NAME	DATE
DESIGNED		
DRAWN	MANJIT GOGOI	13.11.21
DRAWING CHECKED		
DRAWING APPROVED		

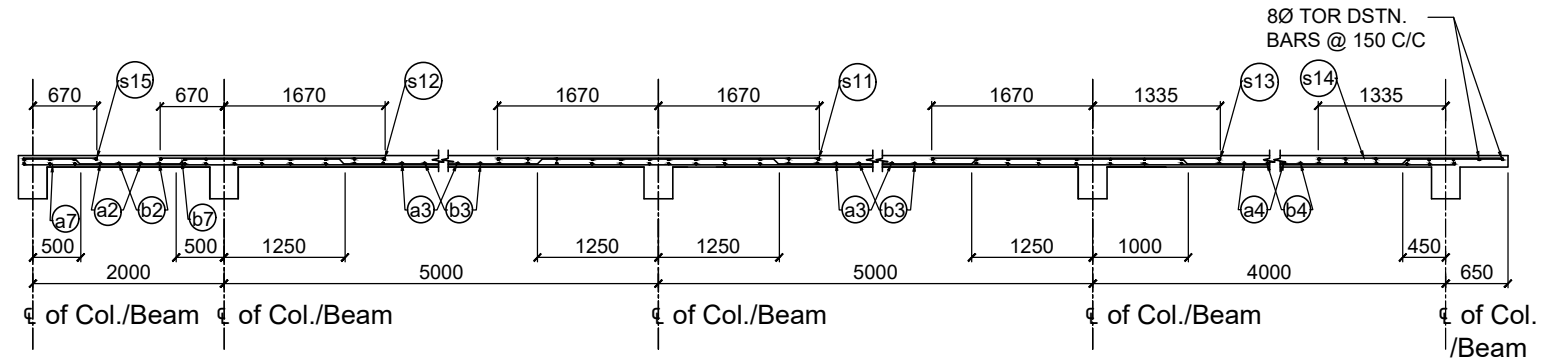
DRG No.
OIL /11242



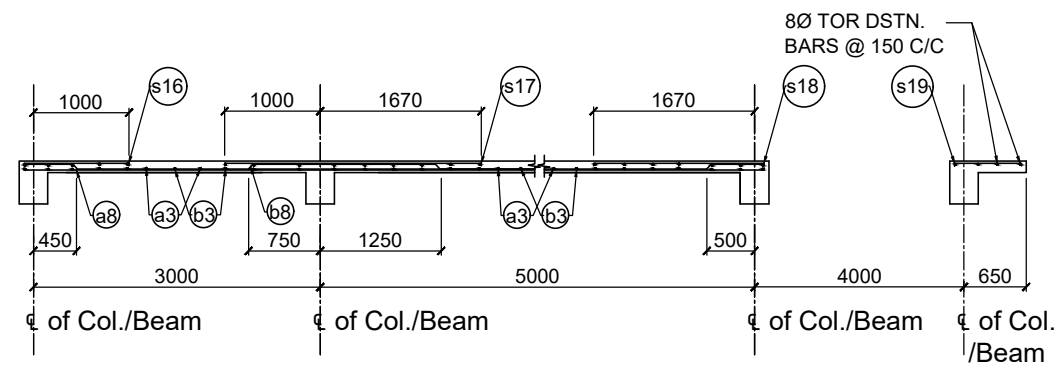
SECTION 'E-E'



SECTION 'F-F'



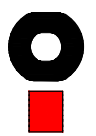
SECTION 'G-G'



SECTION 'H-H'

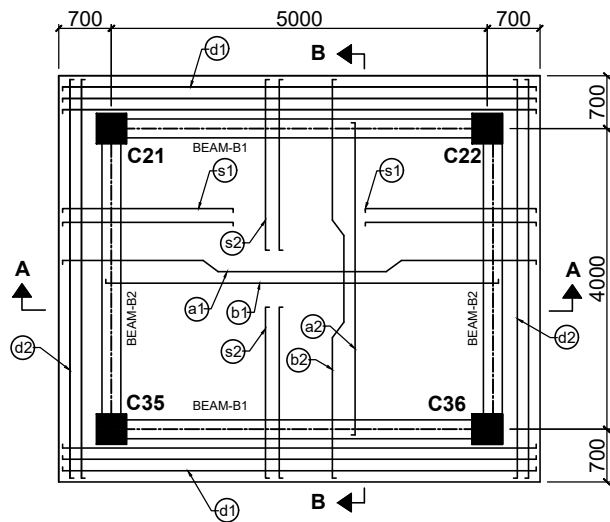
REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

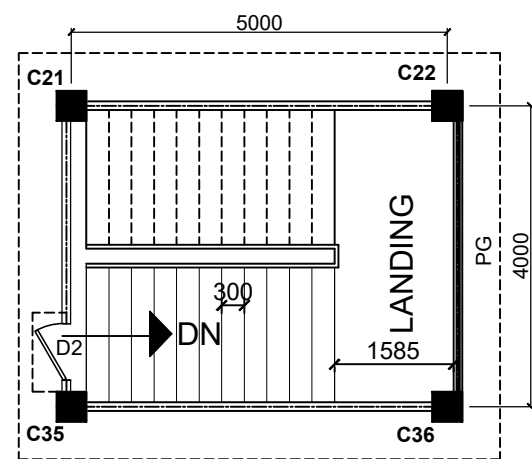
	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN	DESIGNED	NAME	DATE
		DRAWN	MANJIT GOGOI	13.11.21
		DRAWING CHECKED		
		DRAWING APPROVED		
SCALE N.T.S.	TITLE: FIRE STATION BUILDING AT MORAN (DETAILS OF ROOF SLAB) SHEET NO.3 OF 3		DRG No. OIL /11243	

ALL DIMENSIONS ARE IN MILLIMETER.

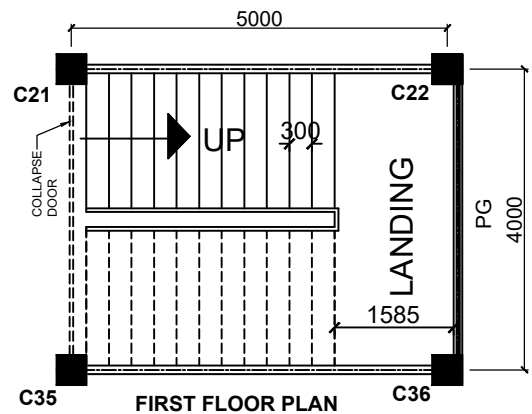
REV.	DATE	ZONE	BRIEF RECORD	APPROVED



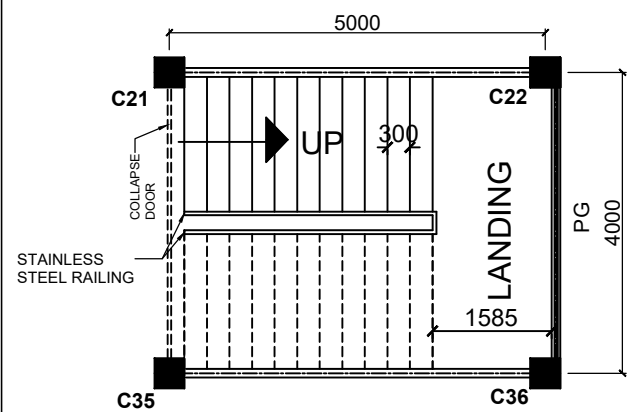
PLAN
(SHOWING HEAD ROOM BEAMS AND SLAB)



TERRACE FLOOR PLAN

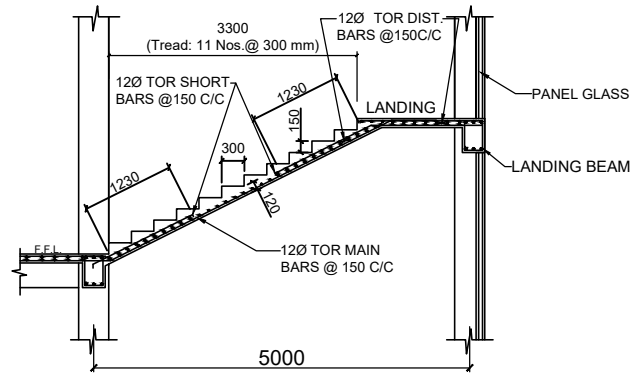


FIRST FLOOR PLAN

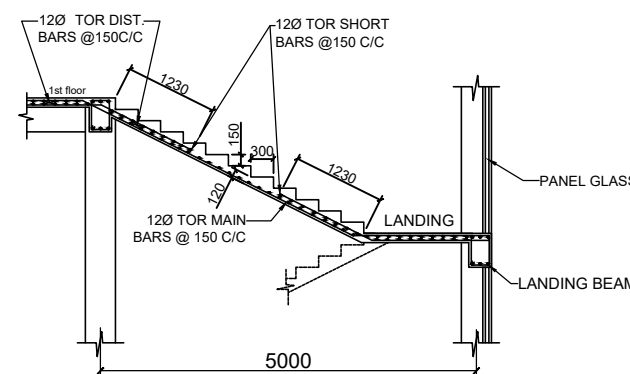


GROUND FLOOR PLAN

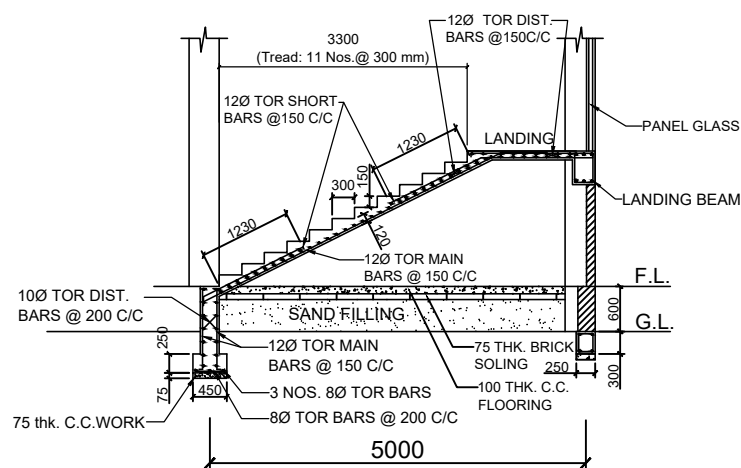
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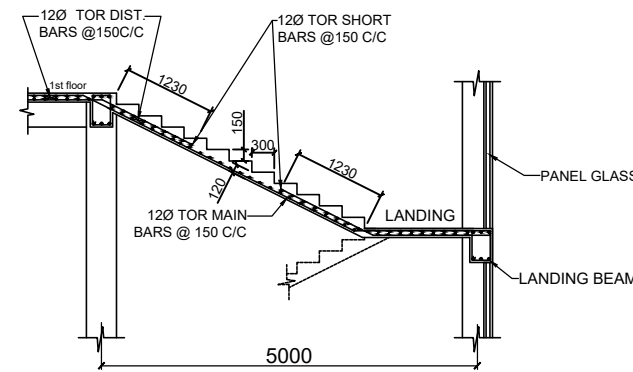
DETAILS OF 3rd FLIGHT



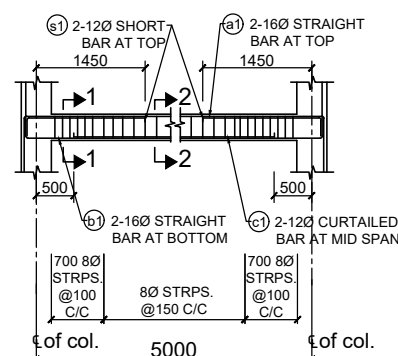
DETAILS OF 2nd FLIGHT



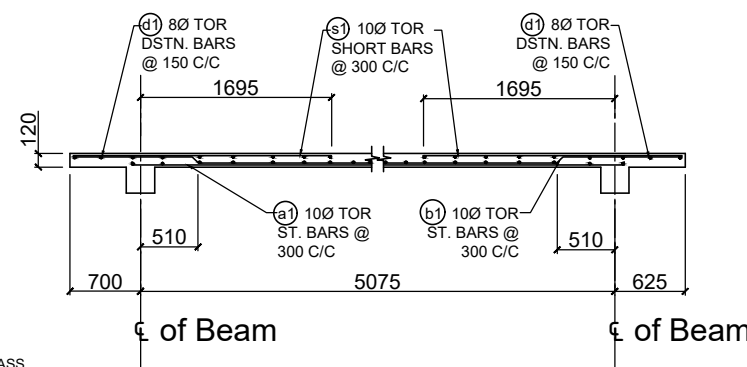
DETAILS OF 1st FLIGHT



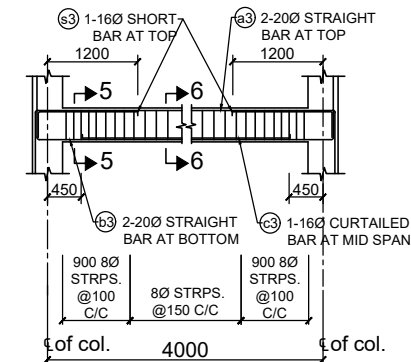
DETAILS OF 4th FLIGHT



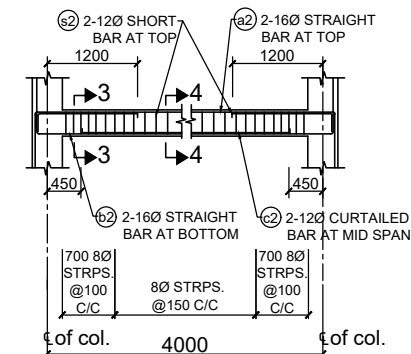
DETAILS OF BEAM-B1 (250 x 350)



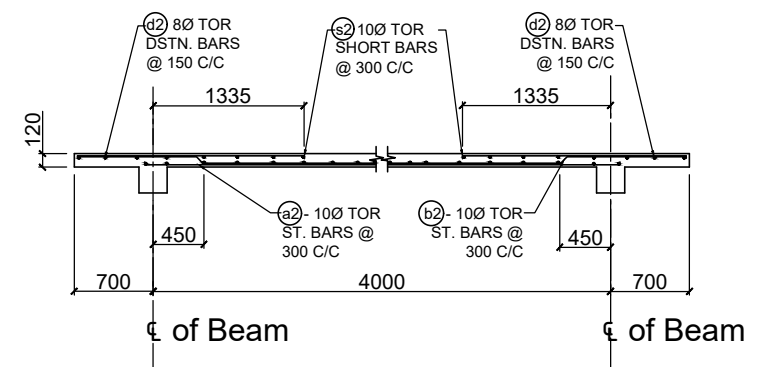
SECTION-A-A'



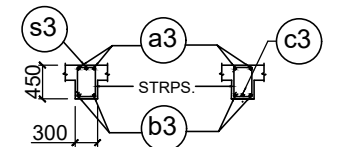
DETAILS OF LANDING BEAM (300 x 450)



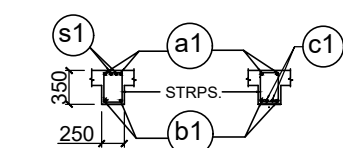
DETAILS OF BEAM-B2 (250 x 350)



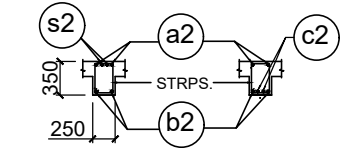
SECTION-B-B'



SECTION-5-5' SECTION-6-6'



SECTION-1-1' SECTION-2-2'



SECTION-3-3' SECTION-4-4'

REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL /11227



	OIL INDIA LIMITED		NAME	DATE
	DRAWING OFFICE		DESIGNED	
	DULIAJAN		DRAWN	MANJIT GOGOI 13.11.21
			DRAWING CHECKED	
SCALE N.T.S.	TITLE: FIRE STATION BUILDING AT MORAN (DETAILS OF STAIR CASE - 1)		DRAWING APPROVED	
			DRG No. OIL /11244	

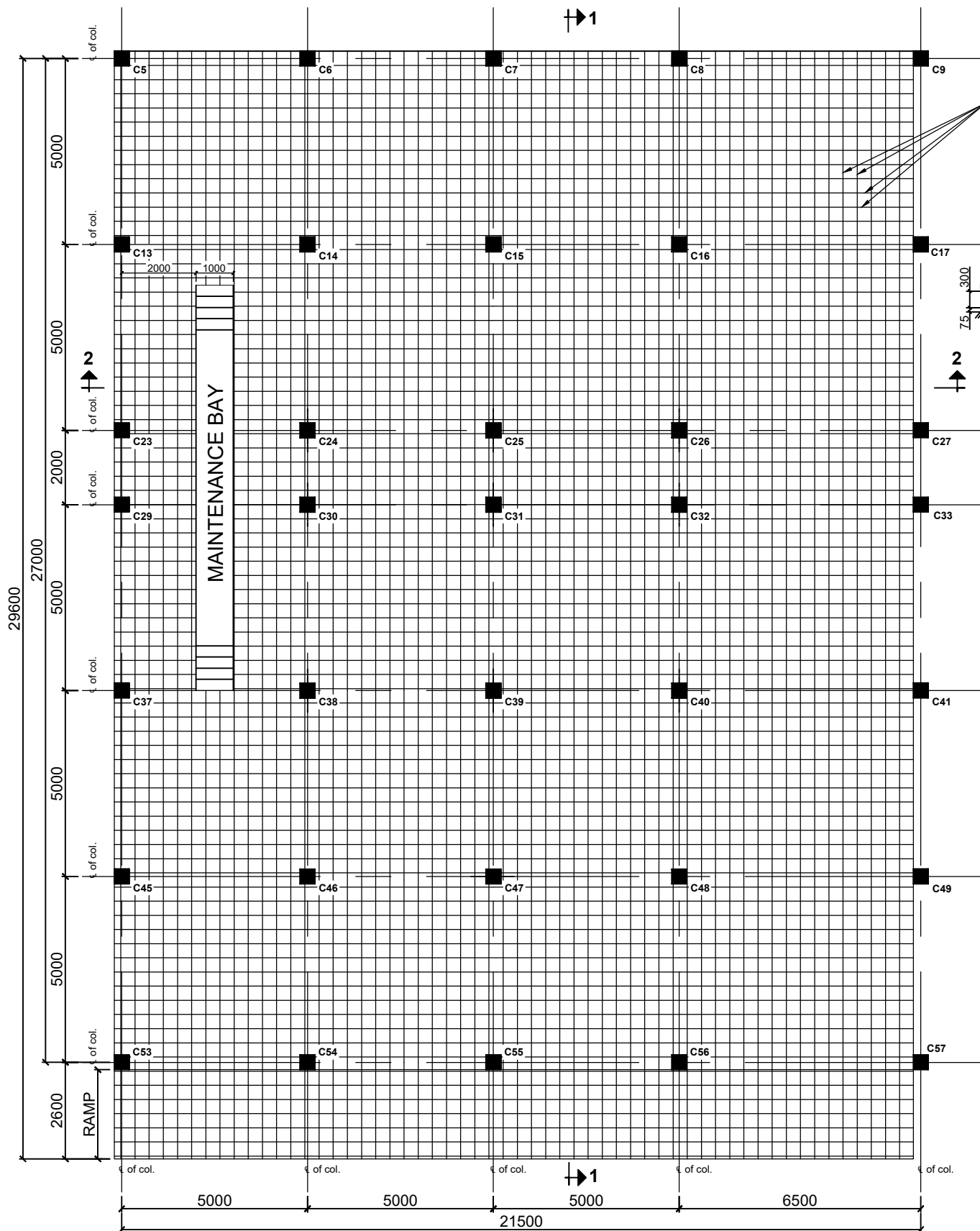
REV.	DATE	ZONE	BRIEF RECORD	APPROVED



REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

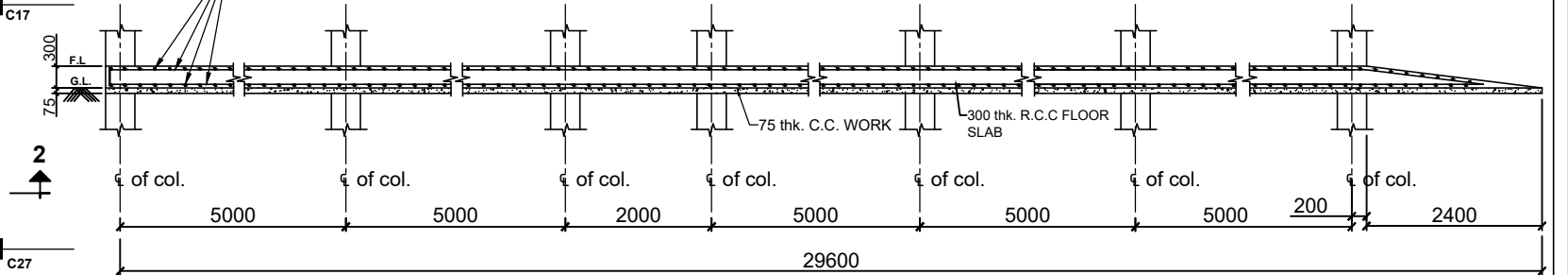
	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN			NAME	DATE
			DESIGNED		
			DRAWN	MANJIT GOGOI	13.11.21
			DRAWING CHECKED		
			DRAWING APPROVED		
SCALE N.T.S.	TITLE: <u>FIRE STATION BUILDING</u> <u>AT MORAN</u> <u>(DETAILS OF STAIR CASE - 2)</u>		DRG No. OIL /11245		
					



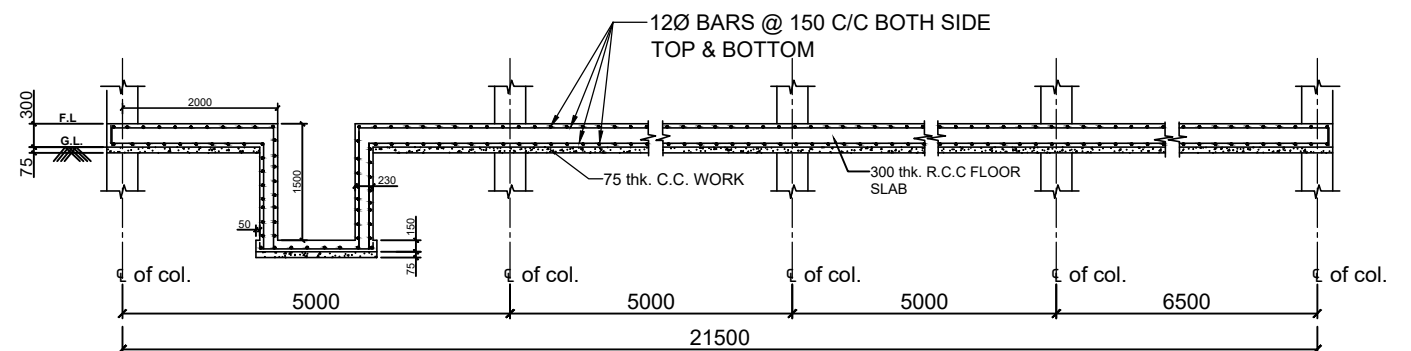
PLAN
(R.C.C. FLOOR SLAB)

12Ø BARS @ 150 C/C BOTH SIDE
TOP & BOTTOM

12Ø BARS @ 150 C/C BOTH SIDE
TOP & BOTTOM



SECTION '1-1'



SECTION '2-2'

REF. DRG. :

FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227



OIL INDIA LIMITED
DRAWING OFFICE
DULIAJAN

SCALE
N.T.S.

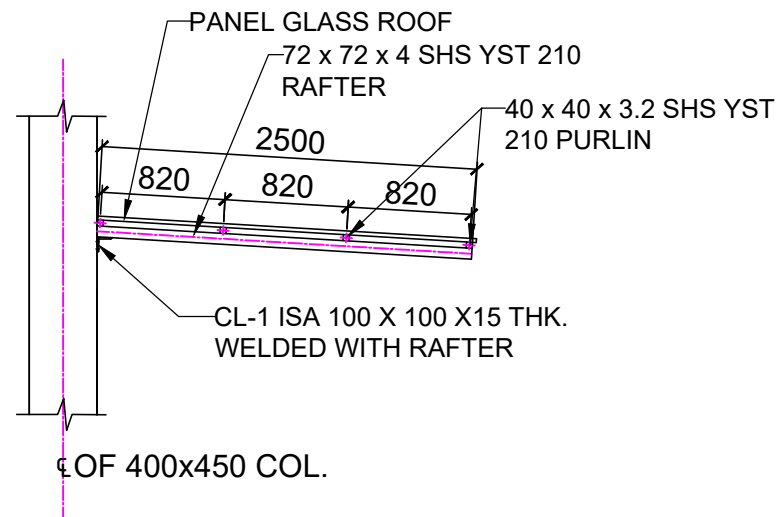
TITLE:
FIRE STATION BUILDING
AT MORAN
(DETAILS OF R.C.C. FLOOR SLAB)

	NAME	DATE
DESIGNED		
DRAWN	MANJIT GOGOI	13.11.21
DRAWING CHECKED		
DRAWING APPROVED		

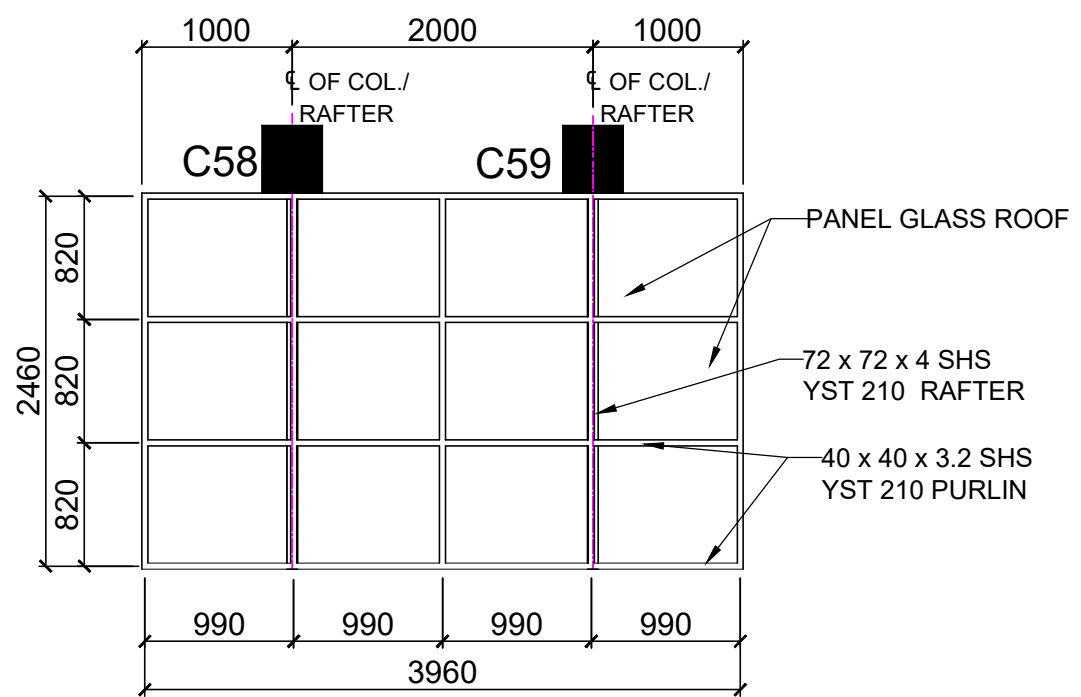
DRG No.
OIL /11246

REV.	DATE	ZONE	BRIEF RECORD	APPROVED

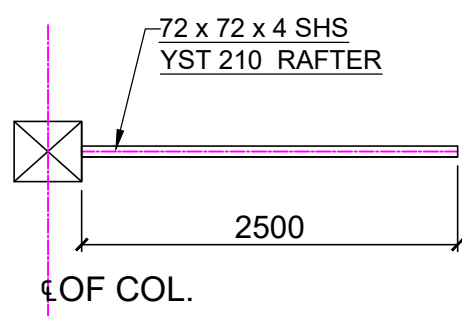
ALL DIMENSIONS ARE IN MILLIMETER.



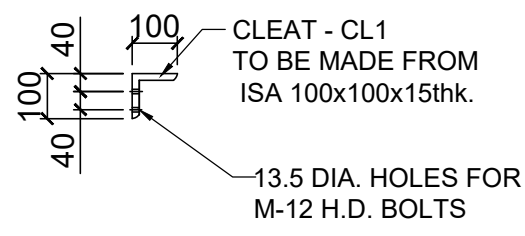
ELEVATION



ROOF PLAN
SHOWING POSITION OF RAFTER & PURLIN


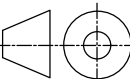


PLAN
ENLGD. DETAIL RAFTER



ENLGD. FIXING DETAIL
OF CLEAT CL-1

REF. DRG. :
FOR GENERAL ARRGT. REF. DRG. NO. OIL / 11227

	OIL INDIA LIMITED DRAWING OFFICE DULIAJAN			NAME	DATE
			DESIGNED		
			DRAWN	MANJIT GOGOI	13.11.21
			DRAWING CHECKED		
			APPROVED DRAWING		
SCALE N.T.S.	TITLE: <u>FIRE STATION BUILDING</u> <u>AT MORAN</u> <u>(DETAILS OF PORCH)</u>		DRG No. OIL /11247		
					
VED					

ALL DIMENSIONS ARE IN MILLIMETER.

REV.	DATE	ZONE	BRIEF RECORD	APPROVED

WORKS CONTRACT**SCHEDULE OF COMPANY'S PLANTS, MATERIALS AND EQUIPMENT**

- A. SCHEDULE OF MATERIALS AVAILABLE AT THE COMPANY'S STORES/STOCK PILES for permanent incorporation in works and
- B. SCHEDULE OF COMPANY'S PLANTS AND EQUIPMENT for use in the execution of work.
- 1) **MATERIALS:** Cement will be supplied by company.
- 2) **PLANTS AND EQUIPMENT:** Nil (All plants and equipment required for execution of the job to be arranged by the Contractor for which no extra payment will be given).

NOTE:-

- i) All empty Cement bags must be returned to company's Godown, Duliajan failing to which a sum of Rs.8.00 (Rupees Eight) only per bag will be recovered from contractor's bill.
- ii) The Contractor is to arrange transportation of the above materials to site of work with proper safety.
- iii) Materials issued to Contractor must be under proper watch & ward so that no part is pilfered. If any pilferation takes place the matter will be referred to appropriate Govt. authorities for legal action as well as realization of the materials issued.
- iv) Cement issued to Contractor by the Company is meant only for the specific Company work relating to the Contract. However, if any quantity of Cement is left over from the quantities issued for any reason whatsoever, on the completion / cancellation / termination of the Contract the same shall have to be returned to the Company in full within one week of completion/cancellation of the work failing which the matter will be referred to appropriate Govt. authorities for legal action as well as realization of the Cement.
- v) All other materials issue to the Contractor by the Company if subsequently found to be in excess of the actual requirement will have to be returned by the Contractor within two weeks of completion of the work failing which the cost of all such materials will be recovered from the Contactor at double the value of materials without any reference to him.

**To,
CGM-CONTRACTS (HOD)
OIL INDIA LIMITED
DULIAJAN-786602**

SUB: SAFETY MEASURES

DESCRIPTION OF WORK/SERVICE: Construction of New Fire Service Building including Electrical, Telecommunication & IT works along with Construction of Boundary Wall, Fire Water Pit, Development of frontal area at Moran, Charaideo district. All materials to be supplied by contractor except cement.

Sir,

We hereby confirm that we have fully understood the safety measures to be adopted during execution of the above contract and that the same have been explained to us by the concerned authorities. We also give the following assurances.

- a) Only experienced and competent persons shall be engaged by us for carrying out work under the said contract.
- b) The names of the authorized persons who would be supervising the jobs on day to day basis from our end are the following:
 - i) _____
 - ii) _____
 - iii) _____

The above personnel are fully familiar with the nature of jobs assigned and safety precautions required.

- c) Due notice would be given for any change of personnel under item (b) above.
- d) We hereby accept the responsibility for the safety of all the personnel engaged by us and for the safety of the Company's personnel and property involved during the course of our working under this contract. We would ensure that all the provisions under the Oil Mines Regulations, 2017 and other safety rules related to execution of our work would be strictly followed by our personnel. Any violation pointed out by the Company's Engineers would be rectified forthwith or the work suspended till such time the rectification is completed by us and all expenditure towards this would be on our account.
- e) We confirm that all persons engaged by us would be provided with the necessary Safety Gears at our cost.
- f) All losses caused due to inadequate safety measures or lack of supervision on our part would be fully compensated by us and the Company will not be responsible for any lapses on our part in this regard.
- g) We shall abide by the HSE (Health Safety & Environment) points mentioned in SCC.

(Seal)

Date_____

Yours Faithfully

M/s_____

CONTRACTOR

INTEGRITY PACT

Between

Oil India Limited (OIL) hereinafter referred to as "The Principal"

And

(Name of the bidder).....hereinafter referred to as "The Bidder/Contractor"

Preamble:

The Principal intends to award, under laid down organizational procedures, contract/s for **“Construction of New Fire Service Building including Electrical, Tele- communication & IT works along with Construction of Boundary Wall, Fire Water Pit, Development of frontal area at Moran, Charaideo district. All materials to be supplied by contractor except cement”**. The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organisation "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 - Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent Corruption and to observe the following principles:-

- I. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
- II. The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/ additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.
- III. The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder/Contractor

(1) The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- I. The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- II. The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.

- III. The Bidder/Contractor will not commit any offence under the relevant anticorruption Laws of India; further the Bidder/Contractor will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- IV. The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- V. Bidders to disclose any transgressions with any other company that may impinge on the anti-corruption principle.
- VI. The Bidder (s)/ Contractor of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder (s)/ Contractor (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further, all the payments made to the Indian agent/ representative have to be in India Rupees only.
- VII. Bidders not to pass any information provided by Principal as part of business relationship to others and not to commit any offence under PC/ IPC Act.
- (2) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- (3) The Bidder/Contractor signing Integrity Pact shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future Contracts

If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or risibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

1. If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.
2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.
4. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.
5. Integrity Pact, in respect of a particular contract, shall be operative from the date Integrity Pact is signed by both the parties till the final completion of the contract **or as mentioned in Section 9- Pact Duration whichever is later**. Any violation of the same would entail disqualification of the

bidders and exclusion from future business dealings. Any issue relating to execution of contract, if specifically raised before the IEMs shall be looked into by IEMs.

Section 4 - Compensation for Damages

1. If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to Earnest Money Deposit / Bid Security.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to Security Deposit / Performance Bank Guarantee.
3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 - Previous transgression

1. The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders/Contractor/Subcontractors

1. The Principal will enter into Pacts on identical terms with all bidders and contractors.
2. The Bidder / Contractor undertake(s) to procure from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the provisions laid down in this agreement/Pact by any of its sub-contractors/sub-vendors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7 - Criminal charges against violating Bidders/Contractors/Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 - External Independent Monitor/Monitors (three in number depending on the size of the contract) (to be decided by the Chairperson of the Principal)

1. The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.

3. The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality. However, the documents/ records/ information having National Security implications and those documents which have been classified as Secret/ Top Secret are not to be disclosed.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the Independent External Monitor shall give an opportunity to the bidder / contractor to present its case before making its recommendations to the Principal.
6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
7. If the Monitor has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
8. The word 'Monitor' would include both singular and plural.
9. In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairperson of the Principal.

Section 10 - Other provisions

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
3. If the Contractor/ bidder is a Joint Venture or a partnership concern or a consortium, this agreement must be, signed by all partners or consortium members. In case of sub-contracting, the Principal

- contractor shall take the responsibility of the adoption of IP by the sub-contractor and all sub-contractors shall also sign the IP.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
5. Issues like warranty/ guarantee, etc. shall be outside the purview of IEMs.

For the Principal

for the Bidder/Contractor

Place: Duliajan.

Witness 1:

Date:

Witness 2:

(TO BE TYPED ON THE OFFICIAL LETTER HEAD OF THE BIDDER)

To,
Oil India Limited
Contracts Department
Duliajan, Assam - 786602

Sub: UNDERTAKING/DECLARATION BY THE BIDDER (S) IN RESPECT OF TENDER NO. CDC2653P23

(To be submitted by the Bidders who are not covered under EPF&MP Act, 1952)

Dear Sirs,

This is in connection with the Bid submitted by (Name of the Bidder) against Tenderfor(subject of the Tender). As per the conditions stipulated in Clause no..... (Name of the Provision/Covering Letter etc.), we/I ,being authorized on behalf of(Name of the Contractor) hereby confirm and undertake as follows;

- That our Firm/Company shall be responsible to comply with all the applicable labour laws in respect of the present Contract.
- That we are fully conversant with the applicable laws and confirm that our Firm/Company is not covered under the Employees Provident Funds and Misc. Provisions Act, 1952 and applicable Rules there under, and therefore I we have not obtained any registration or Provident Fund Code under the Act.
- That if, during the period of the present Contract, we/our Firm /Company comes within the coverage of the aforesaid Acts or any other statutes; we shall comply with the same and submit the necessary documents to OIL. We further confirm that we will indemnify OIL towards any future statutory compliances/claims raised from any corner including statutory authorities against the Labour engaged by our Firm/Company in the Contract.
- That in the event of any contravention towards the applicable laws found on our part in respect of the present Contract, we undertake to indemnify OIL and deposit the claims, if any.
- That we shall fulfill all the obligations arising from under the labour laws in force from time to time and keep OIL indemnified against any loss/liability arising out of failure of our avoiding the laws.

We, further agree and undertake that in case of any violation of the above undertaking, OIL shall be at liberty to take appropriate action against us in terms of the Tender including but not limited to termination of contract and debarment from future business with OIL.

I/We declare that the information given above is true and any misstatement or misrepresentation or suppression of facts in connection with the above undertaking may entail rejection of the bid and cancellation of contract, if awarded.

Yours faithfully,

1. Authorized Signatory _____
(BIDDER)

Place:-

Date:-

CERTIFICATE OF ANNUAL TURNOVER & NET WORTH

TO BE ISSUED BY PRACTISING CHARTERED ACCOUNTANTS' FIRM ON THEIR LETTER HEAD

TO WHOM IT MAY CONCERN

This is to certify that the following financial positions extracted from the audited financial statements of M/s..... (Name of the Bidder) bearing PAN for the last three (3) completed accounting years upto(as the case may be) are correct.

YEAR	TURN OVER In INR (Rs.)	NET WORTH In INR (Rs.)

Place:

Date:

Seal:

UDIN:

Membership No. :

Registration Code. :

Signature

FORM OF BID SECURITY (BANK GUARANTEE FORMAT)

To
M/s OIL INDIA LIMITED,
CONTRACTS DEPARTMENT,
DULIAJAN, ASSAM, INDIA, PIN-786602

WHEREAS, (Name of Bidder) _____ (hereinafter called "the Bidder") has submitted their offer Dated _____ for the provision of certain services (hereinafter called "the Bid") against OIL INDIA LIMITED, Duliajan, Assam, India (hereinafter called the Company's) Tender No. _____ KNOW ALL MEN BY these presents that we (Name of Bank) _____ of (Name of Country) _____ having our registered office at _____ (hereinafter called "Bank") are bound unto the Company in the sum of (*_____) for which payment well and truly to be made to Company, the Bank binds itself, its successors and assignees by these presents.

SEALED with the said Bank this ____ day of _____ 20_____

THE CONDITIONS of these obligations are:

1. If the Bidder withdraws their Bid within its original/extended validity; or
2. The Bidder modifies/revises their bid suo moto; or
3. The Bidder does not accept the contract; or
4. The Bidder does not furnish Performance Security Deposit within the stipulated time as per tender/contract; or
5. If it is established that the Bidder has submitted fraudulent documents or has indulged into corrupt and fraudulent practice.

We undertake to pay to Company up to the above amount upon receipt of its first written demand (by way of letter/fax/cable), without Company having to substantiate its demand provided that in its demand Company will note that the amount claimed by it is due to it owing to the occurrence of any of the conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including the date (**--/--/--) and any demand in respect thereof should reach the Bank not later than the above date.

The details of the Issuing Bank and Controlling Bank are as under:

A. Issuing Bank:

BANK FAX NO:

BANK EMAIL ID:

BANK TELEPHONE NO.:

IFSC CODE OF THE BANK:

B. Controlling Office:

Address of the Controlling Office of the BG issuing Bank:

Name of the Contact Person at the Controlling Office with Mobile No. and e-mail address:

Contd.... P/2

Notwithstanding anything contained herein:

- a) Our liability under this Bank Guarantee shall be restricted up to Rs.....
- b) This guarantee shall be valid till
- c) We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before (Date of Expiry of BG PLUS one year claim period).
- d) At the end of the claim period that is on or after (Date of expiry of the Bank Guarantee Plus Minimum of 1 year claim period shall be stipulated) all your rights under this Guarantee shall stand extinguished and we shall be discharged from all our liabilities under this Guarantee irrespective of receipt of original Bank Guarantee duly discharged, by Bank.

Name of the Contact Person at the Controlling Office with Mobile No. and e-mail address:

- a) SIGNATURE AND SEAL OF THE GUARANTORS_____
- b) Designation _____
- c) Name of the Bank_____
- d) Address _____

Note:

- * The Bidder should insert the amount of the guarantee in words and figures.
- ** Date of expiry of Bank Guarantee should be minimum 30 days after the end of the validity period of the Bid/as specified in the Tender.
- *** The Bank Guarantee issuing bank branch shall ensure the following:
 - a. The Bank Guarantee issued by the Bank must be routed through SFMS platform as per following details:
 - (i) MT 760/ MT 760 COV for issuance of Bank Guarantee
 - (ii) MT 760/ MT 767 COV for amendment of Bank Guarantee

The above message / intimation shall be sent through SFMS (indicating the Contract/Tender Number) by the BG issuing bank branch to ICICI BANK LTD., Duliajan Branch; IFSC Code – ICIC0000213; SWIFT Code – ICICINBBXXX; Branch Address: Kunja Bhavan, Daily Bazaar, Duliajan, Dibrugarh, Assam - 786602.

- b. Bank Guarantee issued by a Scheduled Bank in India at the request of some other Non-Scheduled Bank of India shall not be acceptable.
- c. Further correspondence against BG towards Bid Security must contain the Tender Number.

UNDERTAKING BY VENDOR ON SUBMISSION OF BANK GUARANTEE

To,

The Oil India Limited
Contracts Department
Duliajan – 786602
Assam

We M/s are submitting the Bid Security in favour of Oil India Limited, Duliajan in the form of bank guarantee bearing Reference No. for an amount of INR valid up to as per terms and conditions of the Tender No.

BG issuing bank details:

Bank:	
Branch:	
IFS Code:	
Contact Details E-mail Addresses:	Mobile No.: Telephone No.: Fax No.:
Correspondence Address H No/Street/City:	State: Country: Pin Code:

Declaration:

We have arranged to send the confirmation of issuance of the bank guarantee via SFMS portal through our bank using the details mentioned in the tender and hereby confirming the correctness of the details mentioned.

Authorized Signature: _____

Name: _____

Vendor Code: _____

Email ID: _____

Mobile No.: _____

Enclosure: Original bank guarantee

Format of Undertaking by bidders to declare percentage of Local Content in works offered
(To be submitted on Bidder's letter head)

To,
Oil India Limited
Contracts Department
Duliajan, Assam - 786602

Sub: PURCHASE PREFERENCE POLICY (LINKED WITH LOCAL CONTENT) (PP-LC):

Dear Sirs,

I/We _____ (Name of the bidder) undertake that we meet the mandatory minimum Local Content (LC) requirement i.e. 50 % as per Clause No. 2.5 & 4.4 (a) of the policy vide Letter No. FP-20013/2/2017-FP-PNG dated 17th November, 2020 of MoPNG to bid against **Tender No. CDC2653P23.**

The percentage of local content in the bid is _____%.

Yours faithfully,

For (**Name of the firm** _____)

Signature of Authorised Signatory/ POA

Name:

Designation:

Place:

Date:

(Affix Seal of the Organization here)

ANNEXURE V - FORMAT FOR HINDRANCE REGISTER

Description of Project : Contract No. & Date :

Contractor's Name : Scheduled Completion Date :

Sl. No.	Nature of Hindrance	Items of work that could not be executed because of this hindrance	Date of start of hindrance	Date of Removal of hindrance	Period of hindrance	Overlapping Period, if any	Net hindrance days	Remarks
Signature of Contractor's Representative			Signature of Engineer-in-charge			Signature of HoD		

Annexure- VI

Format of undertaking by Bidders towards submission of authentic information/documents

(To be typed on the official letter head of the bidder)

Sub: Undertaking of authenticity of information/documents submitted

Ref: Your Tender No. CDC2653P23

To,
Oil India Limited
Contracts Department
Duliajan, Assam – 786602

Dear Sirs,

With reference to our quotation against your above-referred tender, we hereby undertake that no fraudulent information/documents have been submitted by us.

We take full responsibility for the submission of authentic information/documents against the above cited bid.

We also agree that, during any stage of the tender/contract agreement, in case any of the information/documents submitted by us are found to be false/forged/fraudulent, OIL has right to reject our bid at any stage including forfeiture of our EMD and/or PBG and/or cancel the award of contract and/or carry out any other penal action on us, as deemed fit.

Yours faithfully,

For (Name of the firm _____)

Signature of Authorised Signatory

Name:

Designation:

Phone No.:

Place:

Date:

(Affix Seal of the Organization here)

Annexure- VII

**TO BE EXECUTED ON THE OFFICIAL LETTER HEAD OF THE BIDDER BY
THE AUTHORIZED SIGNATORY OF THE BIDDER**

Certificate of compliance of Financial Criteria in respect of Tender No. CDC2653P23

I the authorized signatory(s) of
..... (Bidder's/ Firm's name) do hereby
solemnly affirm and declare as under:-

**The Balance Sheet/Financial Statements for the financial year 2021-2022 has actually
not been audited as on the Original Bid closing Date.**

Yours faithfully,

For (Name of the firm _____)

Signature of the authorized signatory

Name of bidder/ firm:

Designation:

Place:

Date:

(Affix Seal of the Organization here)

Note to bidders: This certificate is to be issued only considering the time required for preparation of Financial Statements i.e. if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the Original Bid Closing Date. In case of extension of due date for Tax Audit for the preceding financial/ accounting year, the Undertaking shall be applicable only if the original bid closing date falls within the extended period.

UNDERTAKING BY BIDDER IN RESPECT OF QUOTED PRICE AGAINST TENDER NO. CDC2653P23

I/We do hereby solemnly affirm and declare as under:

- a) That I/we have gone through all the tender documents (i) Covering Letter (ii) BEC/BRC (iii) GCC (iv) SOQ (iv) SCC (v) SCPME (vi) SM (vii) IP and agree with all the terms and conditions provided there in.
- b) That I/we hereby offer to execute the work described above at the price quoted in the “Total Bid Value” (under RFx Information > Basic Data > Total Bid Value) inclusive of all liabilities including statutory liabilities except PF & GST in accordance with the Contract Terms & Conditions, which I/ we have fully understood.

(Note: Uploading in the OIL’s e-portal with digital signature will be construed that the same has been signed by the bidder’s authorized signatory who has signed the bid).