**OIL INDIA LIMITED (A Govt. of India Enterprise)**
**Contract & Purchase Department (Rajasthan Field)**
2A, District Shopping Centre, Saraswati Nagar, Basni, Jodhpur-342005, Rajasthan, India.
Phone-0291-2729472, Fax: 0291-2727050
**E-mails:** ravi_chaudhary@oilindia.in

**Dated: 09.04.2025**

**FORWARDING LETTER**

**Sub: Tender No. CJI9017P26 for Construction of Baghewala Housing Complex in premise of BGW#6 for OIL's Rajasthan Field (BGW) in a period of Two Years**

1.0 Rajasthan Fields of OIL INDIA LIMITED (OIL) a Government of India Enterprise, is engaged in exploration and production of Natural Gas and experimental production of Heavy Oil/Bitumen from western Rajasthan. The Office is situated at 2A, District Shopping Centre, Saraswati Nagar, Basni, Jodhpur -342005, Rajasthan, India.

In connection with its operations, OIL invites Local Competitive Bids (LCB) from experienced and established firms / contractors for the mentioned work / service under **OPEN E-TENDER SINGLE-STAGE TWO BID SYSTEM** through OIL's E-Procurement Portal: "https://etender.srm.oilindia.in/irj/portal" for **Tender No. CJI9017P26 for Construction of Baghewala Housing Complex in premise of BGW#6 for OIL's Rajasthan Field (BGW) in a period of Two Years**

One complete set of Bid Document covering OIL's IFB for above works is uploaded in OIL's E-Procurement Portal. You are invited to submit your most competitive bid on or before the scheduled bid closing date and time through OIL's E-Procurement Portal. For your ready reference, few salient points of the IFB (covered in detail in the Bid Document) are highlighted below:

| | | | |
|---|---|---|---|
| i. | OIL's Tender No. | : | CJI9017P26 |
| ii. | Type of Bid | : | **Single Stage Two bid System** |
| iii. | Bid Closing Date & Time | : | 09.05.2025 at 11.00 hrs (IST) |
| iv. | Technical Bid Opening Date & Time | : | 09.05.2025 at 15.00 hrs (IST) |
| v. | Price Bid Opening Date & Time | : | Will be notified to the technically qualified bidders |
| vi. | Bid Opening Place | : | Office of GM (C&P), Oil India Limited, Jodhpur, Rajasthan |
| vii. | Bid Validity | : | Bids shall remain valid for **120 days** from the bid closing date |
| viii. | Bid Security/EMD Amount | : | **INR 13,45,000.00** |
| ix. | Bid Security/EMD Validity | : | (Minimum 165 days from original bid closing date i.e., Upto 21.10.2025) |

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| | | | **Note:** In exceptional circumstances, OIL may solicit the Bidder's consent to an extension of the period of validity. The request and the response thereto shall be made in writing (or by Fax). A Bidder may refuse the request. The Bidder granting the request will neither be required nor permitted to modify their bid. |
| x. | Original Bid Security to be submitted | : | GM-C&P 2A, District Shopping Centre, Saraswati Nagar, Basni, Jodhpur - 342005, Oil India Limited |
| xi. | Amount of Performance Security & Validity | : | 10.00% of contract value & validity 03(Three) months from date of expiry of contract/defect liability period, whichever is later. |
| xii. | Defect Liability | : | As mentioned in Clause No. 28 of Special Conditions of Contract (SCC) |
| xiii. | Mobilization Time | : | 15 Days from issuance of Work Order |
| xiv. | Duration of Contract | : | Two (02) years |
| xv. | Quantum of Liquidated Damage for Default in Timely Mobilization / Completion | : | As mentioned in Clause No. 29 of Special Conditions of Contract (SCC) |
| xvi. | Area of Operation | : | Baghewala Field, Phalodi District (Rajasthan) |
| xvii. | Drawings | : | Attached in E-tender Portal in Technical attachment |
| xviii. | Gantt Chart | : | Attached in E-tender Portal in Technical attachment |
| xix. | Integrity Pact | : | Integrity Pact **(Annexure-A1)** has to be signed by the bidder's authorized signatory who sign the Bid and uploaded along with the bid in e-portal. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. |
| xx. | Gem Seller ID | : | In accordance with OM No. 6/9/2020-PPD dated 24.08.2020 issued by Department of Expenditure (Procurement Policy Division), Ministry of Finance, it shall be mandatory for sellers providing Goods and Services to Central Government Organizations to be registered in GeM and obtain a unique GeM Seller ID, at the time of placement of order/acceptance of contract. Accordingly, bidders are required to provide their GeM Seller ID in their bid, if available at the time of tendering.<br>However, in case any bidder does not have GeM Seller ID at the time of tendering then, such bidder will be required to provide their GeM Seller ID in case considered for award of contract before issuance of LOA." |
| xxi. | Pre-Bid Conference Date | : | 24.04.2025 |

| | | | |
|---|---|---|---|
| xxii. | Last Date of receipt of Queries | | **23.04.2025**<br>Bidders must submit any queries related to the tender within this stipulated time and OIL will not be liable to respond to any queries received after the stipulated deadline. |
| xxiii. | Queries to be sent on the email ID: | : | **ravi_chaudhary@oilindia.in** |
| xxiv. | Extension of Bid Closing Date | : | The Company expects the bidders to adhere to the Bid submission end date timeline. Bidders are requested to refrain from seeking extension of "Bid Closing date" and such request for Bid Closing Date extension shall not be entertained by the Company. However, OIL at its discretion may extend the Bid Closing Date due to unforeseen circumstances |
| xxv. | Submission of Check list | | Bidders have to mandatorily submit a duly filled **CHECKLISTS FOR BEC-BRC/PQC** and other relevant technical criteria along with the technical bid. If any bidder fail/declines to submit the completely filled checklist within the stipulated deadline will render the bid liable for rejection and will not be considered for further evaluation. |
| xxvi. | Bid to be Submitted | : | Through OIL's e-procurement portal https://etender.srm.oilindia.in/irj/portal<br>**a)** 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<br><br>b) 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. |
| xxvii. | Verification of Documents | : | Bidder must comply to **clause No. 32.0 (Verification and Certification Of Documents By Independent Third- Party Inspection Agencies)** and its sub-clauses under **Instruction to Bidders** failing which their offer shall be summarily rejected |

2.0 **Pre-Bid Conference:** A pre-bid conference to explain Company's exact requirements and to reply queries of Bidders, if any, on the tender stipulations will be held on 24.04.2025 at 12:30 hrs (IST) in OIL's Office at 2A, District Shopping Centre, Saraswati

Nagar, Basni, Jodhpur - 342005, Rajasthan, India. Maximum of two representatives of each bidder will be allowed to attend the pre-bid conference on producing authorization letter. Bidders interested to attend the Pre-Bid Conference should intimate General Manager (C&P), Oil India Limited, Jodhpur latest by 23.04.2025 up to 17:30 Hrs (IST). All pre-bid queries should be submitted to the dealing officer over email (ravi_chaudhary@oilindia.in) latest by 23.04.2025 up to 17:30 Hrs (IST). Only those queries received within the cut-off period shall be discussed and replied to during pre-bid meeting.

**Note:**All costs for attending the Pre-Bid meeting shall be on prospective bidders' account.

3.0 **Integrity Pact:** The Integrity Pact must be uploaded in OIL's E-procurement portal along with the Technical Bid digitally signed by the same signatory who signed the Bid i.e., who is duly authorized to sign the Bid. If any bidder refuses to sign Integrity Pact or declines to submit the Integrity Pact, their bid shall be rejected straightway. 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 signs the Bid.

4.0 **GUIDELINES FOR PARTICIPATING IN OIL'S E-PROCUREMENT:**

4.1 Bids are to be submitted online through OIL's E-Procurement Portal with digital signature. To participate in OIL's E-Procurement tender, bidders should have a legally valid digital certificate of Class 3 with Organizations Name and 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 are not acceptable. However, aforesaid Digital Signature Certificates having Bidder's

Name in the "Organization Name" field are acceptable.

Encryption certificate is mandatorily required for submission of bid. In case bidder creates response with one certificate (using encryption key) and then the bidder changes his Digital Signature Certificate, then the 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.

The authenticity of above digital signature shall be verified through authorized CA after bid opening and in case the digital signature used for signing is not of "Class 3 with Organizations Name and Encryption Certificate", the bid will be rejected.
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.

Bidder is responsible for ensuring the validity of digital signature and its proper usage by their employee.

The bid including all uploaded documents shall be digitally signed by duly authorized representative of the bidding company.

The bid including all uploaded documents shall be digitally signed by duly authorized representative of the Bidder/Bidding Company to bind the Bidder/Bidding Company to the contract.

4.2 For participation, applicants already having User ID & Password for OIL's E-Procurement Portal need to register against the IFB. New vendors/existing vendors not having User ID & Password for OIL's E-Procurement Portal shall obtain User ID & password through online vendor registration system in E-Portal.

4.2.1 Bidders without having E-Tender Login ID and password should complete their online registration at least 07 (Seven) days prior to the scheduled Bid Closing Date and time of the tender. For online registration, bidder may visit OIL's E-Tender site https://etender.srm.oilindia.in/irj/portal.

4.2.2 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.

4.3 Parties, who do not have a User ID, can click on Guest login button in the E-portal to view and download the tender. The detailed guidelines are available in OIL's E-Procurement site (Help Documentation). For any clarification in this regard, bidders may contact E-Tender Support Cell at Duliajan at erp_mm@oilindia.in, Ph.: 0374 - 2807178/4903.

4.4 Details of the process for submission of Bid Security (EMD) through the online payment gateway are available in Vendor User Manual under E-Procurement Portal. (Note: Important Points for on-line Payment can be viewed at Oil India's website at URL: http://oil-india.com/pdf/ETenderNotification.pdf).

4.5 The link for OIL's E-Procurement Portal is available on OIL's web site (www.oil-india.com).

5.0 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 evidence (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 Techno-Commercial Bid documents.

5.1 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 telephone numbers of the owner and GSTIN number.

5.2 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 telephone numbers of the owners in general and Karta in particular and GSTIN number.

5.3 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-mail and telephone numbers of all the partners (including the Managing Partner), registered partnership agreement / deed and GSTIN number.

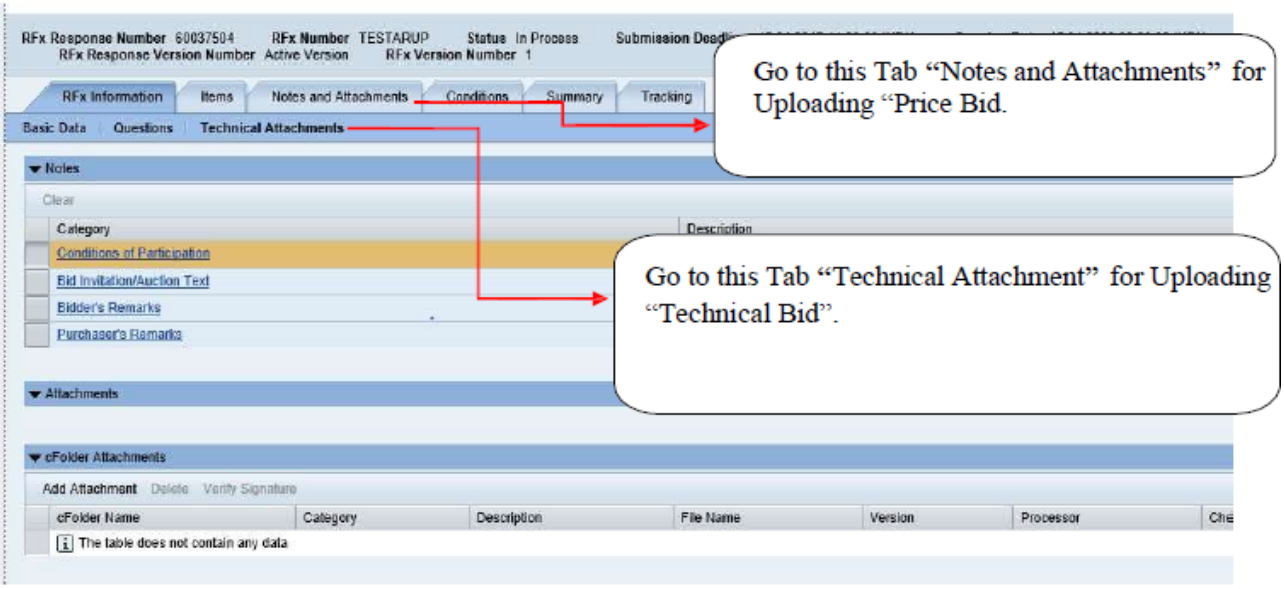
5.4 In case of Co-Operative Societies, Copies of Telephone / Electricity / Mobile Bill, PAN card, latest Income Tax Return form indicating therein the name, residential address, E-mail and telephone numbers of all the Directors or persons who are at the helm of affairs, registration certificate from Registrar of Co-Operative Societies and GSTIN number.

5.5 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 GSTIN number.

5.6 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 GSTIN number.

5.7 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 GSTIN number.

6.0 **SCREENSHOTS:**

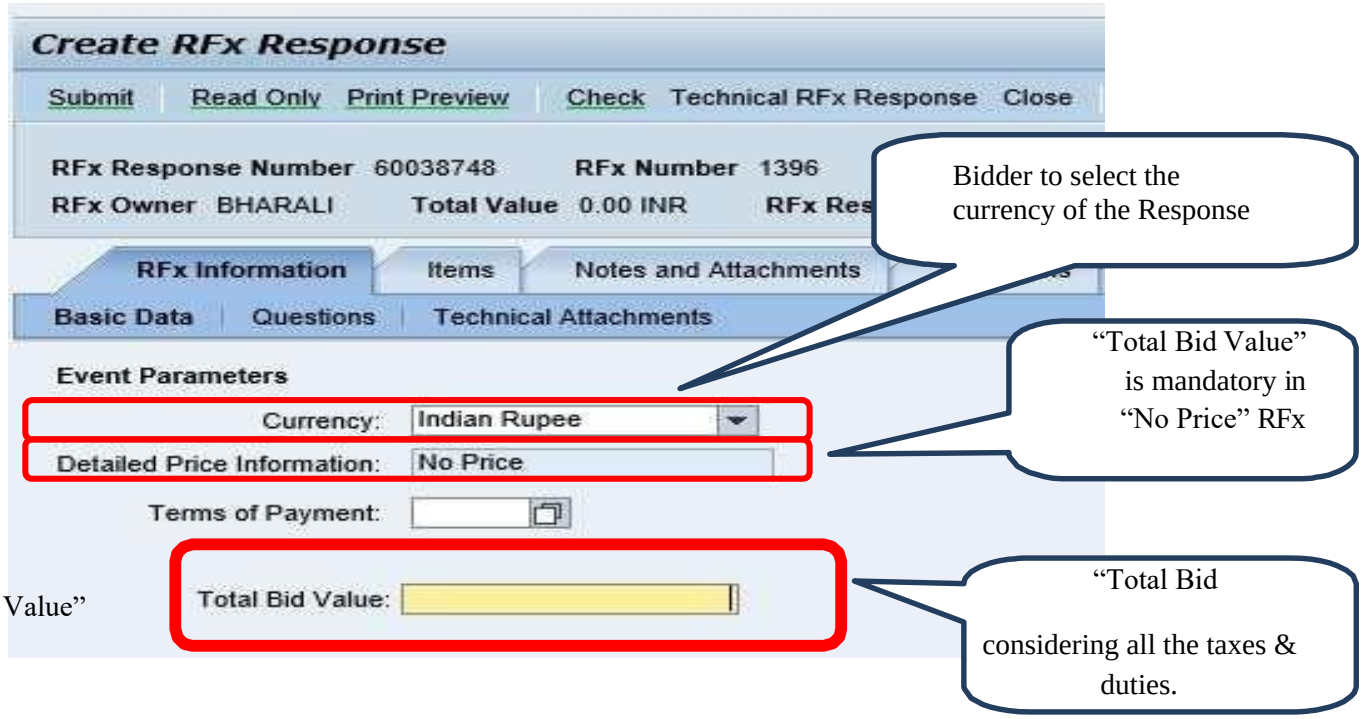



On **"EDIT"** Mode, bidders are advised to upload **"Technical Bid"** and **"Priced Bid"** in the respective places as indicated above:

**Note:**

*The **"Technical Bid"** shall contain all techno-commercial details **except the prices.**
** The **"Priced bid"** must contain the price schedule and the bidder's commercial terms and conditions, if any. 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.

7.0 **Maintenance of Total bid value in the Response:** For convenience of the Bidders and to improve transparency, the rates/costs quoted by bidders against the E-tender shall be available for online viewing after price bid opening to those bidders whose price bids have been opened in the system. For tenders where Detailed Price Information under RFx Information Tab **is "No price",** the Price Bid is invited through attachment form under "Notes & Attachment". As per the existing process, **Bidders must upload their pricing as per the "Price Bidding Format" under "Notes & Attachment".** Additionally the bidders must fill up the on-line field **"Total Bid Value" under Tab Page"RFx Information"** with the Total Cost (Including the GST component) as per the amount of the Price Bid in attachment form.




Value"

The "Total Bid Value" as entered by the Bidder in the on-line response shall be displayed in the e- tender portal amongst the Techno-Commercially qualified bidders and Company will not take any responsibility whatsoever towards incorrect information furnished by the bidders in the "Total Bid Value" field.

It is to be noted that Amount mentioned in the "Total Bid Value" field will not be considered for bid evaluation and evaluation will be purely based on the Price bid submitted as per the "Price Bid Format" under "Notes & Attachments" tab page.

8.0 The selected bidder will be required to enter into a formal contract, which will be based on their bid and OIL's Standard Form of Contract.

9.0 The successful bidder shall furnish a Performance Security Deposit for the amount as mentioned under Clause 2.0 (x) of the table above before signing the formal contract. The Performance Security Deposit will be refunded to the Contractor after satisfactory completion of the work, but a part or whole of which shall be used by the Company in realization of liquidated damages or claims, if any or for adjustment of compensation or loss due to the Company for any reason. This Security Money shall not earn any interest.

10.0 **BACKING OUT BY L1 BIDDER AFTER ISSUE OF LOA:** In case LOA 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 the Banning Policy (available on OIL's website) of Company.

11.0 **FURNISHING FRAUDULENT INFORMATION/DOCUMENT:** The information and documents furnish by the bidder/contractor in respect of the subject tender/contract are accepted to be true and genuine. However, if it is detected during technical scrutiny or after award of the contract or after expiry of the contract, that the bidder had

submitted any fake/ fraudulent document or furnished false statement, the offer/contract shall be rejected/ cancelled, as the case may be and the bidder (if fake document/false statement pertains to such bidder) shall be dealt as per the Banning Policy (available in OIL's website) of Company. The bidder has to submit an undertaking in this regard as per attached format- Annexure-XI.

12.0 **PROVISION FOR ACTION IN CASE OF ERRING/DEFAULTING AGENCIES:** Erring and defaulting agencies like bidder, contractor, supplier, vendor, service provider will be dealt as per OIL's Banning Policy dated 17th March 2023 available in OIL's website: www.oil-india.com.

13.0 **Time Schedule:** Time will be regarded as the essence of the Contract and the failure on the part of the Contractor to complete the work within the stipulated time shall entitle the Company to recover liquidated damages and/or penalty or Price Discount from the Contractor as per terms of the tender/contract.

14.0 **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. PPP [Public Procurement policy] for Micro and Small Enterprises is not applicable for this tender (being works contract tender). Hence, exemption from submission of bid security against MSE Units is not applicable for this tender.**

b. Central as well as State Government Departments and Public Sector Undertakings (CPSUs) are also exempted from submitting bid security.

**Note:** Bids without EMD shall be rejected, if the technical offer does not include a valid copy of relevant Document/Certificate towards exemption of EMD, issued by appropriate authority.

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

Yours faithfully,
OIL INDIA LIMITED

**(Ravi Chaudhary)**
**MANAGER (C&P)**
**FOR GENERAL MANAGER (C&P-RF)**
**FOR EXECUTIVE DIRECTOR (RF)**

## Section-I

## INSTRUCTIONS TO BIDDERS

1.0 **Eligibility of the bidder:**

1.1 The eligibility of the bidders are listed under Bid Evaluation Criteria (BEC), SECTION – II of the Bid document.

1.2 Bidder shall bear all costs associated with the preparation and submission of bid. Oil India Limited, hereinafter referred to as Company, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

2.0 **Bid Documents:**

2.1 The services required, bidding procedures and contract terms are prescribed in the Bid Document. This Bid Document includes the following:

a) Tender Forwarding Letter
b) Instructions to Bidders
c) Bid Evaluation Criteria (BEC), (SECTION – II)
d) General Conditions of Contract (GCC), (SECTION-III)
e) Special Conditions of Contract (SCC), (SECTION – IV)
f) Price Bid Format, (Proforma-A)
g) Bid Form, (Proforma-B)
h) Statement of Compliance, (Proforma -C)
i) Commercial Check List (Proforma -D)
j) Performance Security Form, (Proforma-E)
k) Agreement Form, (Proforma-F)
l) Proforma Letter of Authority, (Proforma-G)
m) Authorization for Attending Bid Opening, (Proforma -H)
n) Form of Bid Security (Proforma-I)
o) Proforma of Declaration of Blacklisting, (Proforma -J)
p) Undertaking For Bidders Financial Standing, (Proforma -K)
q) Certificate of compliance to financial criteria, (Annexure-II)
r) Format for Certificate of Annual turnover & Net Worth (Annexure for CA certificate)
s) Integrity Pact, (Annexure-A1)
t) Land Border (Exhibit, I, II and III)
u) Procedure for obtaining labour license, (Appendix-B)
v) Format of undertaking by Bidders towards submission of authentic information/documents (Annexure-XI)
w) Technical Evaluation Sheet for BEC/BRC, (Proforma -K)

2.2 The bidder is expected to examine all instructions, forms, terms and specifications in the Bid Documents. Failure to furnish all information required in the Bid Documents or submission of a bid not substantially responsive to the Bid Documents in every respect will be at the Bidder's risk & responsibility and may result in the rejection of its bid.

2.3 Bidders shall be deemed, prior to submitting their bids, to have satisfied themselves about the weather conditions, working culture in the area, socio-political environment, safety & security aspects, law & order situation and law of the land, and obtain for themselves all necessary information as to the risks, contingencies and all other circumstances, which may influence or affect the various obligations under the Contract.

3.0 **Transferability of bid documents:**

3.1 Bid Documents are non-transferable. Bid can be submitted only by the bidder in whose name the Bid Document has been issued/registered.

3.2 In case of e-Tender, Bidder must submit the bid using Organizational Class-3 Digital Signature issued by the Competent Authority in favour of the bidder. Bid submitted using Digital Signature other than the Digital Signature of the bidder shall be summarily rejected.

3.3 Unsolicited bids will not be considered and will be rejected straightway.

4.0 **Amendment of bid documents:**

4.1 At any time prior to the deadline for submission of bids, the Company may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bid Documents through issuance of an Addendum(s)/Corrigendum(s)/Amendment(s).

4.2 The Addendum will be uploaded in OIL's E-Tender Portal in the Tab "Technical Rfx" and under External Area - "Amendments" folder. The Company may, at its discretion, extend the deadline for bid submission. Bidders are expected to take the Addendum into account in preparation and submission of their bid. Bidders are to check from time to time the E-Tender portal ["Technical RFx" Tab and under the folder "Amendments"] for any amendments to the bid documents before submission of their bids. No separate intimation shall be sent to the Bidders.

5.0 **Preparation of Bids**

5.1 Language of Bids: The bid as well as all correspondence and documents relating to the bid exchanged between the Bidder and the Company shall be in English language, except that any printed literature may be in another language provided it is accompanied by an official and notarized English translated version, which shall govern for the purpose of bid interpretation.

5.2 Bidder's/Agent's Name & address:

5.2.1 Bidders should indicate in their bids their detailed postal address including the Fax/Telephone / Cell Phone Nos. and E-mail address.

5.3 Documents comprising the bid:

5.3.1 Bids are invited under **Single Stage Two Bid System**. The bid to be uploaded by the Bidder in OIL's E-Tender portal shall comprise of the following components:

(A) **Technical Bid (to be uploaded in "Technical Attachments" tab)**

a) Complete technical details of the services offered.

b) Documentary evidence established in accordance with **Clause 9.0 hereunder.**

a) Bid Security (scanned) in accordance with Clause 10.0 hereunder.

b) Statement of compliance as per **Proforma–C**.

c) Integrity Pact digitally signed by OIL's competent personnel as **Annexure-A1**, attached with the bid document to be digitally signed by the Bidder.

f) All other relevant Undertakings and PROFORMAS as applicable as part of Bid.

**Note: Please note that, No price should be mentioned in the "Technical Attachments" tab. If any price is mentioned by the bidder in their Technical bid, then their bid will be rejected straightway**

(B) **Price Bid (to be uploaded in "Notes and Attachments" tab**)

Bidder shall quote their prices in the following Proforma available in OIL's E-procurement portal in the "Notes & Attachments" Tab:

a) Price Bid Format as per Proforma-A

The Priced Bid shall contain the prices along with the currency quoted and any other commercial information pertaining to the service offered.

6.0 **Bid Form:** The bidder shall complete the Bid Form and upload the same along with their technical bid.

7.0 **Bid Price:**

7.1 Prices must be quoted by the Bidders online as per the **price bid format (Proforma-A) available in OIL's E-Tender Portal under "Notes & Attachment" Tab**. Prices must be quoted by the bidders as per the Price/Bidding format.

7.2 Prices quoted by the successful bidder must remain firm during its performance of the Contract and is not subject to variation on any account.

7.3 All duties (except customs duty which will be borne by the Company) and taxes (excluding GST) including Corporate Income Tax, Personal Tax, etc. and other Cess/levies payable by the successful bidder under the Contract for which this Bid Document is being issued, shall be included in the rates, prices and total Bid Price submitted by the bidder, and the evaluation and comparison of bids shall be made considering the quoted GST in the proforma.

For example, personal taxes and/or any corporate taxes arising out of the profits on the contract as per rules of the country shall be borne by the bidder.

8.0 **Currencies of bid and payment**: As this is a tender involving only Indian bidders (Local Competitive Bidding) the currency of the bid must be in Indian Rupees only and payment will be made accordingly in Indian Rupees.

9.0 **Documents establishing bidder's eligibility and qualifications**:
These are listed in BID EVALUATION CRITERIA (BEC), SECTION – II of the Bid document.

10.0 **Bid Security:**

10.1 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 10.8.

10.2 All the bids must be accompanied by Bid Security in Original for the amount as mentioned in the "Forwarding Letter" of the tender documents:

a. The Bid Security may be submitted in the form of irrevocable Bank Guarantee (as per PROFORMA-I) issued by Nationalized or Scheduled Bank in favour of M/s Oil India Limited and payable at Jodhpur. The Bank Guarantee must be on Non-Judicial Stamp Paper of requisite value as per Indian Stamp Act purchased in the name of Banker.

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/ Insurance Surety Bonds (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 Jodhpur.

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

| ii. | Bank Details of Beneficiary: Oil India Limited, Rajasthan Field | |
|---|---|---|
| a | Bank Name | State Bank of India |
| b | Branch Name | Jodhpur |
| c | Branch Address | High Court Branch, Jodhpur |
| d | Bank Account No. | 10827354741 |

| | | |
|---|---|---|
| e | Type of Account | Current Account |
| f | IFSC Code | SBIN0000659 |

**Note:** 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 Techno-Commercial Bid documents.

iii. Bid Security may be submitted in the form of Insurance Surety Bonds as per the **proforma P.**

iv. **Submission of Bid Security in the form of Electronic Bank Guarantee (e-BG):** Bidders can submit the e-BG from any of the following banks:

| Sl. No. | Bank Name | Sl. No. | Bank Name |
|---|---|---|---|
| 1 | AU Small Finance Bank | 18 | Indian Bank |
| 2 | Axis Bank | 19 | Indian Overseas Bank |
| 3 | Bank of Baroda | 20 | IndusInd Bank |
| 4 | Bank of India | 21 | Karnataka Bank |
| 5 | Bank of Maharashtra | 22 | Karur Vysya Bank |
| 6 | Canara Bank | 23 | Kotak Mahindra Bank |
| 7 | Central Bank of India | 24 | Punjab and Sind Bank |
| 8 | City Union Bank | 25 | Punjab National Bank |
| 9 | DBS Bank | 26 | RBL Bank |
| 10 | DCB Bank | 27 | Standard Chartered |
| 11 | Dhanlaxmi Bank | 28 | State Bank of India |
| 12 | Federal Bank | 29 | South Indian Bank |
| 13 | HDFC Bank | 30 | Tamilnad Mercantile Bank Ltd |
| 14 | HSBC Bank | 31 | UCO Bank |
| 15 | ICICI Bank | 32 | Union Bank of India |
| 16 | IDBI Bank | 33 | Yes Bank |
| 17 | IDFC First Bank | | |

Beneficiary details for issue of e-BG:

| Details of Beneficiary | | |
|---|---|---|
| A | Name | OIL INDIA LIMITED |
| B | PAN | AAACO2352C |
| C | Date of Incorporation | 18-02-1959 |
| D | Email-ID | ravi_chaudhary@oilindia.in |
| E | Local Address | Oil India Limited, Rajasthan Field, 2A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan |
| F | Registered address | Duliajan, Dibrugarh, Assam-786602 |

**Note:** 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 scanned copy of the same should be submitted along with technical bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date. **Bid Security should be valid for a minimum period of 165 days i.e.,** Upto 21.10.2025 **from the original bid closing date.**

10.3 Any bid not secured in accordance with sub-clause 10.2 above shall be rejected by the Company as non-responsive.

10.4 The bidders shall extend the validity of the Bid Security suitably, if and when specifically advised by OIL, at the bidder's cost.

10.5 Unsuccessful Bidder's Bid Security will be discharged and/or returned within 30 days after finalization of the Tender.

10.6 Successful Bidder's Bid Security will be discharged and/or returned upon Bidder's furnishing the Performance Security and signing of the contract. Successful bidder will however ensure validity of the Bid Security till such time the Performance Security in conformity with **Clause 24.0** below is furnished.

10.7 Bid Security shall not accrue any interest during its period of validity or extended validity.

10.8 The Bid Security may be forfeited:

a. If the bidder withdraws the bid within its original/extended validity.

b. If the bidder modifies/revises their bid suo-moto within its original / extended validity.

c. If the bidder does not accept the order/contract.

d. If the bidder does not furnish Performance Security Deposit within the stipulated time as per tender/order/contract.

e. 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.

10.9 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).

10.10 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.

10.11 The Bank Guarantee issuing bank branch must ensure the following.Bidders are requested to advise the Bank Guarantee issuing bank to comply with the following and ensure to submit, the receipt of the copy of SFMS message as sent by the issuing bank branch, along with the original Bank Guarantee in OIL's tender issuing office / upload the same in OIL's e-tender portal along with the technical bid. 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.

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

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

The following is the Bank details of OIL, Rajasthan Field for obtaining Bank Guarantee:

| | *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* |
| *G* | *Swift Code* | *ICICINBBXXX* |

11.0 **PERIOD OF VALIDITY OF BIDS:**

11.1 Bids shall remain valid as per the requirement mentioned in forwarding letter from the date of closing of bid prescribed by the Company. **Bids of shorter validity will be rejected as being non-responsive**. If nothing is mentioned by the bidder in their bid about the bid validity, it will be presumed that the bid is valid for 120 days from Bid Closing Date.

11.2 In exceptional circumstances, the Company may solicit the Bidder's consent to an extension of the period of validity. The request and the response thereto shall be made in writing through Fax or e-mail. The Bid Security provided under Para 10.0 above shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request will neither be required nor permitted to modify their Bid.

12.0 **Signing & submission of bids:**

12.1 Signing of bids:

12.1.1 Bids are to be submitted online through OIL's E-procurement portal with digital signature. The bid and all attached documents should be digitally signed by the bidder using "Class 3" digital certificates with Organization's Name [e-commerce application (Certificate with personal verification and Organization Name)] as per Indian IT Act 2000 obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India before bid is uploaded. Digital Signature Certificates having Bidder's Name in the "Organization Name" field are only acceptable. Digital Signature Certificate having "Organization Name" field other than Bidder's Name shall be rejected summarily.

The bid including all uploaded documents shall be digitally signed by duly authorized representative of the bidder holding a Power of Attorney to bind the Bidder to the contract.

If any modifications are made to a document after attaching digital signature, the digital signature shall again be attached to such documents before uploading the same.

In case the digital signature is not of "Class-3" with organization name, the bid will be rejected. Bidder is responsible for ensuring the validity of digital signature and its proper usage by their employees.

12.1.2 The original and all copies of the bid shall be typed or written in indelible inks. Since bids are to be submitted ONLINE with digital signature, manual signature is NOT relevant. The letter of authorization (as per Proforma-G) shall be indicated by written Power of Attorney accompanying the Bid.

12.1.3 Any physical documents submitted by bidders shall contain no interlineations, white fluid erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such correction shall be initialed by the person or persons who has/have digitally signed the Bid.

12.1.4 Any Bid, which is incomplete, ambiguous, or not in compliance with the Bidding process shall be rejected.

12.2 Submission of bids:

12.2.1 The tender is processed under SINGLE STAGE TWO BID SYSTEM. Bidder shall submit the Technical bid and Priced bid along with all the Annexures and Proforma (wherever applicable) and copies of documents in electronic form through OIL's e-procurement portal within the Bid Closing Date & Time stipulated in the e-tender. For submission of Bids online at OIL's E-Tender Portal, detailed instructions is available in "User Manual" available in OIL's E-Tender Portal. Guidelines for bid submission are also provided in the "Forwarding Letter". The Technical Bid is to be submitted as per Terms of Reference/Technical Specifications of the bid document and Priced Bid as per the Price Bid. The Technical Bid should be uploaded in the "Technical Attachment" Tab Page only. Prices to be quoted as per Proforma-A should be uploaded as Attachment just in the attachment link under "Notes & Attachments" Tab under General Data in the e-portal. No price should be given in the "Technical Attachment", otherwise bid shall be rejected. The priced bid should not be submitted in physical form and which shall not be considered. However, the following documents in one set should necessarily be submitted in physical form in sealed envelope superscribing the Tender No., Brief Description of services and Bid Closing/Opening date & Time along with the bidder's name and should be submitted to GM (C&P), Oil India Ltd., Rajasthan Field, 2A-District Shopping Centre, Saraswati Nagar, Basni, Jodhpur-342005, Rajasthan, India on or before 11.00 Hrs (IST) on the bid closing date indicated in the IFB:

a) Printed catalogue and literature if called for in the bid document.

b) Power of Attorney for signing of the bid digitally.

c) Any other document required to be submitted in original as per bid document requirement.

Documents sent through E-mail/Fax/Telephonic method will not be considered.

12.3 All the conditions of the contract to be made with the successful bidder are given in various Sections of the Bid Document. Bidders are requested to state their non- compliance to each clause as per PROFORMA-C of the bid document and the same should be uploaded along with the Technical Bid.

12.4 Timely delivery of the documents in physical form as stated in Para 12.2 above is the responsibility of the bidder. Bidders should send the same through Registered Post or by Courier Services or by hand delivery to the Officer in Charge of the particular tender before the Bid Closing Date and Time. Company shall not be responsible for any postal delay / transit loss.

Bids received through the e-procurement portal shall only be accepted. Bids received in any other form shall not be accepted.

13.0 **Deadline for submission of bids:**

13.1 Bids should be submitted online as per the online tender submission deadline. Bidders will not be permitted by System to make any changes in their bid/quote after the bid submission deadline is reached. Bidders are requested to take note of this and arrange to submit their bids within the submission deadline to avoid last minute rush/network problems.

13.2 No bid can be submitted after the submission dead line is reached. The system time displayed on the e-procurement web page shall decide the submission dead line.

13.3 The documents in physical form as stated in Para 12.2 must be received by Company at the address specified in the “Forwarding Letter” on or before the bid closing date and time mentioned in the "Forwarding Letter". Timely delivery of the same at the address mentioned in the Forwarding Letter is the responsibility of the Bidders.

14.0 **Late Bids:** Bidders are advised in their own interest to ensure that their bids are uploaded in system much before the closing date and time of the bid. The documents in physical form if received by the Company after the deadline for submission prescribed by the Company shall be rejected and shall be returned to the Bidders in unopened condition immediately.

15.0 **Modification and withdrawal of bids:**

15.1 The Bidder after submission of Bid may modify or withdraw its Bid prior to Bid Closing Date & Time in the e-portal using Digital Signature by the person or persons who has/have digitally signed the Bid. Withdrawal or modification of bid through physical correspondence shall not be considered and accepted.

15.2 No Bid can be modified or withdrawn subsequent to the deadline for submission of Bids.

15.3 No Bid can be withdrawn in the interval between the deadline for submission of Bids and the expiry of the period of Bid Validity specified by the Bidder on the Bid Form. Withdrawal of a Bid during this interval shall result in the Bidder's forfeiture of its Bid Security and bidder shall also be debarred from participation in future tenders of OIL.

16.0 **Extension of bid submission date:** Normally no request for extension of Bid Closing Date & Time will be entertained. However, OIL at its discretion, may extend the Bid Closing Date and/or Time due to any reasons.

17.0 **Bid opening and evaluation:**

17.1 Company will open the Bids, in presence of Bidder's representatives who choose to attend at the date, time and place mentioned in the Introduction. However, an authorization letter (as per PROFORMA-H) from the Bidder must be produced by the Bidder's representative at the time of Bid Opening. Unless this Letter is presented, the representative will not be allowed to attend the Bid Opening. The Bidder's representatives who are allowed to attend the Bid Opening shall sign a register evidencing their attendance. Only one representative against each Bid will be allowed to attend.

17.2 In case of any unscheduled holiday or Bandh on the Bid Opening Date, the Bids will be opened on the next full working day. Accordingly, Bid Closing Date / time will get extended up to the next working day and time.

17.3 Bids which have been withdrawn pursuant to clause 15.0 shall not be opened. Company will examine bids to determine whether they are complete, whether requisite Bid Securities have been furnished, whether documents have been digitally signed and whether the bids are generally in order.

17.4 At bid opening, Company will announce the Bidder's names, written notifications of bid modifications or withdrawal, if any, the presence of requisite Bid Security, and such other details as the Company may consider appropriate.

17.5 Normally no clarifications shall be sought from the Bidders. However, for assisting in the evaluation of the bids especially on the issues where the Bidder confirms compliance in the evaluation and contradiction exists on the same issues due to lack of required supporting documents in the Bid (i.e. document is deficient or missing), or due to some statement at other place of the Bid (i.e. reconfirmation of confirmation) or vice versa, clarifications may be sought by OIL. In all the above situations, the Bidder will not be allowed to change the basic structure of the Bid already submitted by them and no change in the price or substance of the Bid shall be sought, offered or permitted.

17.6 Prior to the detailed evaluation, Company will determine the substantial responsiveness of each bid to the requirement of the Bid Documents. For purpose of these paragraphs, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bid Document without material deviations or reservation. A material deviation or reservation is one which affects in any substantial way the scope, quality, or performance of work, or which limits in any substantial way, in-consistent way with the Bid Documents, the Company's right or the bidder's obligations under the contract, and the rectification of which deviation or reservation would affect unfairly the competitive position of other bidders presenting substantial responsive bids. The Company's determination of Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.

17.7 A Bid determined as not substantially responsive will be rejected by the Company and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

17.8 The Company may waive minor informality or nonconformity or irregularity in a Bid, which does not constitute a material deviation, provided such waiver, does not prejudice or affect the relative ranking of any Bidder.

18.0 **OPENING OF PRICED BIDS:**

18.1 In case of composite bid system, Price bids will be opened on the scheduled bid closing date itself.

18.2 In case of two-bid system, Company will open the Priced Bids of the technocommercially qualified Bidders on a specific date in presence of representatives of the qualified bidders. The techno-commercially qualified Bidders will be intimated about the Priced Bid Opening Date & Time in advance.

18.3 In case of any unscheduled holiday or Bandh on the Priced Bid Opening Date, the Bids will be opened on the next working day.

18.4 The Company will examine the Price quoted by Bidders to determine whether they are complete, any computational errors have been made, the documents have been properly signed, and the bids are generally in order.

Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price (that is obtained by multiplying the unit price and quantity) the unit price shall prevail and the total price shall be corrected accordingly. If there is a discrepancy between words, and figures, the amount in words will prevail. If any Bidder does not accept the correction of the errors, their Bid will be rejected.

19.0 **EVALUATION AND COMPARISON OF BIDS:** The Company will evaluate and compare the bids as per BEC-BRC of the Tender Documents.

19.1 Discounts / rebates

19.1.1 Unconditional discounts/rebates, if any, given in the bid will be considered for evaluation.

19.1.2 Post bid or conditional discounts/rebates offered by any bidder shall not be considered for evaluation of bids. However, if the lowest bidder happens to be the final acceptable bidder for award of contract, and if they have offered any discounts/rebates, the contract shall be awarded after taking into account such discounts/rebates.

20.0 **Contacting the company**

20.1 Except as otherwise provided in Clause 17.0 above, no Bidder shall contact Company on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded except as required by Company vide sub-clause 17.5.

20.2 An effort by a Bidder to influence the Company in the Company's bid evaluation, bid comparison or Contract award decisions may result in the rejection of their bid.

21.0 **Award of contract**

The Company will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

22.0 **Company's right to accept or reject any bid:**

Company reserves the right to accept or reject any or all bids and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder, or bidders or any obligation to inform the affected bidder of the grounds for Company’s action.

23.0 **Notification of award:**

23.1 Prior to the expiry of the period of bid validity or extended validity, Company will notify the successful Bidder in writing by registered letter or by fax or E-mail (to be confirmed in writing by registered / couriered letter) that its Bid has been accepted.

23.2 The notification of award will constitute the formation of the Contract.

24.0 **Performance security:**

Successful bidder has to submit Performance Security amount as mentioned in Forwarding Letter, within 30 (Thirty) days from the date of issue of Letter of Award (LOA).

24.1

a. The Performance Security should be submitted in the form of irrevocable Bank Guarantee (as per **PROFORMA-E**) issued by Nationalized or Scheduled Bank in favour of M/s Oil India Limited and payable at Jodhpur. The Bank Guarantee must be on Non-Judicial Stamp Paper of requisite value as per Indian Stamp Act purchased in the name of Banker. Duly filled 'Undertaking' towards details of BG must be submitted along with original copy of PBG.

b. Alternately, the Performance 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 (subject to credit in OIL's account within prescribed time) to designated account of OIL.

i. If the Performance 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 Jodhpur.

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

| v. | Bank Details of Beneficiary: Oil India Limited, Rajasthan Field | |
|---|---|---|
| a | Bank Name | State Bank of India |
| b | Branch Name | Jodhpur |
| c | Branch Address | High Court Branch, Jodhpur |
| d | Bank Account No. | 10827354741 |
| e | Type of Account | Current Account |
| f | IFSC Code | SBIN0000659 |

If the Performance security is submitted through NEFT or RTGS mode, the bidder shall submit details such as **UTR No., Contract No., Bidder's name & Deposited Amount etc.**

c. Submission of Bid Security in the form of Electronic Bank Guarantee (e-BG): Bidders can submit the e-BG from any of the following banks:

| Sl. No. | Bank Name | Sl. No. | Bank Name |
|---|---|---|---|
| 1 | AU Small Finance Bank | 18 | Indian Bank |
| 2 | Axis Bank | 19 | Indian Overseas Bank |
| 3 | Bank of Baroda | 20 | IndusInd Bank |
| 4 | Bank of India | 21 | Karnataka Bank |

| | | | |
|---|---|---|---|
| 5 | Bank of Maharashtra | 22 | Karur Vysya Bank |
| 6 | Canara Bank | 23 | Kotak Mahindra Bank |
| 7 | Central Bank of India | 24 | Punjab and Sind Bank |
| 8 | City Union Bank | 25 | Punjab National Bank |
| 9 | DBS Bank | 26 | RBL Bank |
| 10 | DCB Bank | 27 | Standard Chartered |
| 11 | Dhanlaxmi Bank | 28 | State Bank of India |
| 12 | Federal Bank | 29 | South Indian Bank |
| 13 | HDFC Bank | 30 | Tamilnad Mercantile Bank Ltd |
| 14 | HSBC Bank | 31 | UCO Bank |
| 15 | ICICI Bank | 32 | Union Bank of India |
| 16 | IDBI Bank | 33 | Yes Bank |
| 17 | IDFC First Bank | | |

Beneficiary details for issue of e-BG:

| Details of Beneficiary | | |
|---|---|---|
| A | Name | OIL INDIA LIMITED |
| B | PAN | AAACO2352C |
| C | Date of Incorporation | 18-02-1959 |
| D | Email-ID | ravi_chaudhary@oilindia.in |
| E | Local Address | Oil India Limited, Rajasthan Field, 2A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan |
| F | Registered address | Duliajan, Dibrugarh, Assam-786602 |

No other mode of payment will be accepted by the Company. The Performance Security shall not earn any interest to the bidder from the Company.

24.2 Performancecurity may be submitted in the form of Insurance Surety Bonds as per the **proforma Q.**

24.3 Performance Security shall not accrue any interest during its period of validity or extended validity.

24.4 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:

(i) "MT 760 / MT 760 COV for issuance of bank guarantee.

(ii) "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 (indicating the Contract Number) by the BG issuing bank branch to ICICI BANK LTD., Duliajan Branch; IFS Code – ICIC0000213; SWIFT Code – ICICINBBXXX; Branch Address: Kunja Bhavan, Daily Bazaar, Duliajan, Dibrugarh, Assam – 786602

24.5 This Performance Security must be valid for 90 (Ninety) days after the date of expiry of the contract period/defect liability period (if any). In the event of contract being extended within the provisions of the contract agreement, the contractor will have to extend suitably the validity of the "Security Deposit" for the extended period.

24.6 The Performance Security Deposit will be refunded to the Contractor after 03 (three) months of satisfactory completion of works/defect liability period (if any) under the contract (including extension, if any), but a part or whole of which shall be used by the Company in realization of liquidated damages or claims, if any or for adjustment of compensation or loss due to the Company for any reason.

25.0 **Signing of contract**

25.1 At the same time as the Company notifies the successful Bidder that its Bid has been accepted, the Company will either call the successful Bidder for signing of the agreement or send the Contract Form provided in the Bid Documents, along with the General & Special Conditions of Contract, Technical Specifications, Schedule of Rates incorporating all agreements agreed between the two parties.

25.2 The successful Bidder shall sign and date the contract and return it to the Company after receipt of LOA. Till the contract is signed, the LOA issued to the successful bidder shall remain binding amongst the two parties.

25.3 In the event of failure on the part of the successful Bidder to sign the contract, OIL reserves the right to terminate the LOA issued to the successful Bidder and invoke the Performance Security if submitted by the successful Bidder. The bidder will be suspended for the period of two years. This suspension of two years shall be automatic without conducting any enquiry.

26.0 **Credit facility:**

Bidders should indicate clearly in the Bid about availability of any credit facility inclusive of Government to Government credits indicating the applicable terms and conditions of such credit.

27.0 **Mobilization and advance payment**

27.1 Request for advance payment shall not be normally considered. However, depending on the merit and at the discretion of the Company, advance against mobilization charge may be given at an interest rate of 1% above the prevailing Bank rate (CC rate) of SBI from the date of payment of the advance till recovery/refund.

27.2 Advance payment agreed to by the Company shall be paid only against submission of an acceptable bank guarantee whose value should be equivalent to the amount of advance plus the amount of interest covering the period of advance. Bank guarantee shall be valid for 2 months beyond completion of mobilization and the same may be invoked in the event of Contractor's failure to mobilize as per agreement.

27.3 In the event of any extension to the mobilization period, Contractor shall have to enhance the value of the bank guarantee to cover the interest for the extended period and also to extend the validity of bank guarantee accordingly.

## 28 Integrity pact:

28.1 OIL shall be entering into an Integrity Pact with the Bidders as per format enclosed vide **Annexure-A1** of the Bid Document. The Integrity Pact has been duly signed digitally by OIL's competent signatory and uploaded in the OIL's e-portal. The Integrity Pact shall be returned by the bidder (along with the technical Bid) duly signed by the same signatory who signed the Bid i.e. who is duly authorized to sign the Bid. Uploading the Integrity Pact in the OIL's E-portal with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who has signed the bid. If any bidder refuses to sign Integrity Pact or declines to submit the Integrity Pact, their bid shall be rejected straightway.

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

a. Shri Ram Phal Pawar, IPS (Retd.), Former Director, NCRB, MHA
E-mail: rpawar61@hotmail.com

b. Dr. Tejendra Mohan Bhasin, Former Vigilance Commissioner, CVC
E-mail: tmbhasin@gmail.com

c. Shri Ajit Mohan Sharan, IAS (Retd.), Former Secretary, Ministry of Ayush
E-mail: ams057@gmail.com

## 29 Local conditions:

It is imperative for each Bidder to be fully informed themselves of all Indian as well as local conditions, factors and legislation which may have any effect on

the execution of the work covered under the Bidding Document. The bidders shall be deemed, prior to submitting their bids to have satisfied themselves of all the aspects covering the nature of the work as stipulated in the Bidding Document and obtain for themselves all necessary information as to the risks, contingencies and all other circumstances, which may influence or affect the various obligations under the Contract.

No request will be considered for clarifications from the Company (OIL) regarding such conditions, factors and legislation. It is understood and agreed that such conditions, factors and legislation have been properly investigated and considered by the Bidders while submitting the Bids. Failure to do so shall not relieve the Bidders from responsibility to estimate properly the cost of performing the work within the provided timeframe. Company (OIL) will assume no responsibility for any understandings or representations concerning conditions made by any of their officers prior to award of the Contract. Company (OIL) shall not permit any Changes to the time schedule of the Contract or any financial adjustments arising from the Bidder's lack of knowledge and its effect on the cost of execution of the Contract.

**30 Specifications:**

Before submission of Bids, Bidders are requested to make themselves fully conversant with all Conditions of the Bid Document and other relevant information related to the works/services to be executed under the contract.

30.0 **GOODS AND SERVICES TAX:**

30.1 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.

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

30.2 Bidder should also mention the **Harmonised System of Nomenclature (HSN)** and **Service Accounting Codes (SAC)** at the designated place in the Price Bid Format.

30.3 **Where the 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 actual 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 filled under GST laws &rules should be timely filed by supplier with requisite details.

The input tax credit of **GST** quoted shall be considered for evaluation of bids, as per evaluation criteria of tender document.

30.4 **Where the 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 actual against submission of Invoices as per format specified in rules / regulation of GST subject to the ceiling amount of GST as quoted by the bidder. In case of any variation in the executed quantities (If directed and / or certified by the In-Charge) the ceiling amount on which GST is applicable will be modified on pro-rata basis.

The bids will be evaluated based on total price including GST.

30.5 It is the responsibility of the bidder to quote the correct GST rate. The classification of goods / services as per GST (Goods & Service Tax) Act should be correctly done by the contractor to ensure that input tax credit on GST (Goods & Service Tax) is not lost to the OIL on account of any error on the part of the contractor.

30.6 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.

30.7 GST liability, if any, on account of supply of free samples against any tender shall be to bidder's account.

30.8 In case the bidder is covered under Composition Scheme under GST laws, then bidder should quote the price inclusive of the GST (CGST & SGST / UTGST or IGST). Further, such bidder should mention "Cover under composition system" in column for GST (CGST & SGST/UTGST or IGST) of price schedule.

30.9 OIL will prefer to deal with registered supplier of goods / services under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet. However, in case any unregistered bidder is submitting their bid, their prices will be loaded with applicable GST while evaluation of bid. Where OIL is entitled for input credit of GST, the same will be considered for evaluation of bid as per evaluation methodology of tender document.

30.10 Procurement of Specific Goods: Earlier, there is no tax incidence in case of import of specified goods (i.e., the goods covered under List-34 of Customs Notification no. 08/2022 dated 13/07/2022 as amended). Customs duty is not payable as per the policy. However, under GST regime, IGST Plus GST compensation cess (if applicable) would be leviable on such imports. Bidders should quote GST as inclusive considering IGST component for the imported Materials portion while quoting their prices on destination basis. However, GST rate to be specified in the price bid format.

30.11 The Supplier of Goods / Services may note the Anti-profiteering Clause (Clause No. 12.5) of Part-I GCC and quote their prices accordingly.

30.12 In case the GST rating of bidder on the GST portal / Govt. official website is negative/ blacklisted, then the bid may be rejected by OIL.

31.0 **Purchase Preference for Micro & Small Enterprise:** Purchase Preference to Micro and Small Enterprises is not applicable for this tender.

32.0 **VERIFICATION AND CERTIFICATION OF DOCUMENTS BY INDEPENDENT THIRD- PARTY INSPECTION AGENCIES:**

**32.1** Oil India Limited (OIL) has engaged the following 17 (Seventeen) Independent Inspection Agencies for a period of 04 (Four) years with effect from 07.06.2024 to verify and certify of various documents required against BEC/BRC of the tender:

| | Name of Independent Inspection Agency | Contact E-Mail ID |
|---|---|---|
| 1. | M/S. Dr. Amin Controllers Private Limited | rkjain@rcaindia.net; pracleep.mathur@rcaindia.net info@rcaindia.net |
| 2. | M/S. TUV India Private Limited | noicla@tuv-nord.com mumbai@tuv-nord.com salim@tuv-nord.com |
| 3. | M/S. Conformity India International Private Limited | mktg@ciind ia. in |
| 4. | M/S. Ravi Energie Private Limited | baroda@ravienergic.com tpia@ravicnergie.com |
| 5. | M/S. SGS India Private Limited | dhaval.vora@sgs.com sgs.inclia@sgs.com |
| 6. | M/S. Assure Quality Management Certification Services Private Limited | aqmcs@aqmcs.com |
| 7. | M/S. IRCLASS Systems and Solutions Private Limited | industrial services@irclass.org Bhavesh.satam@irclass.org |
| 8. | M/s. TUV Rheinland (India) Pvt. Ltd. | Shailesh.deotale@ind.tuv.com Ka ushal.gohil@ind.tuv.com info@ind.tuv.com ravi.kumar@ind.tuv.com |
| 9. | M/S. Gulf Lloyd Industrial Services(l) Pvt. Ltd. | contact@gulll loyds.com inspection@gulflloyds.com |
| 10. | M/S. Baltic Testing India Pvt Ltd. | office@balticcontrolindia.com |
| 11. | M/S. Sanmarg Engineering Validation & Assessment Pvt. Ltd. | Amrita@sanmargeva.com |
| 12. | Meenar Global Consultants LLP | sales(@mgcllp.in |

| | | |
|---|---|---|
| 13. | Rites Limited | nrinspn@rites.com info@rites.com sbu.ninsp@rites.com |
| 14. | Bureau Veritas (India) Private Limited | bvindia.corporate@bureauveritas.com |
| 15. | TUV SUD South Asia Private Limited | Hemant.chavan@tuvsud.com Jayashree.rane@tuvsud.com |
| 16. | Adornment Engineers India Private Limited | jks@adornmentengineers.com |
| 17. | TCRC Inspections Pvt. Ltd. | admin@tcrcinspections.com ashismallick@tcrcgroup.com tenders@tcrcgroup.com |

**32.2** The Bidders have to get verified and certified the various documents required against BEC/BRC of the tender by anyone of the above Independent Inspection Agencies and submit the duly **certified Inspection Certificate** by the Inspection Agencies along with the Technical Bid of the Tender. All Charges of the Third-party Independent Inspection Agencies towards verification of bidder's documents and certification thereof shall be borne by the respective bidders and Payments on account of above inspection, verification and certification shall be made directly by the Bidder to the Inspection Agency(s). OIL will not be responsible for any payment dispute between Bidders and Third Party Inspection Agencies.

**32.3** As mentioned above, Bidder(s) have to submit the verified documents along with the Technical Bids. Bid submitted with un-verified supporting documents shall not be normally considered. However, in case a bidder submits its bid alongwith all relevant supporting documents as per BEC/BRC without getting all/some of them verified by the designated Independent Inspection agency, such bid can be provisionally considered provided **it is accompanied by an Undertaking by the Bidder on their official letterhead to submit the duly verified copies/verification certificate within seven (7) days of actual bid opening**. Company will neither send any reminder nor seek any clarification in this regard from such bidders, and the bid will be rejected outright if the bidder fails to submit the verified copies/verification certificate within seven (7) days of actual bid opening at its own risk and responsibility. If a bidder does not submit the undertaking towards submission of third party certification within 7 days from date of Bid Closing date, but certified document reaches us within the cut-off date of above seven (7) days, then such bids shall be considered.

**32.4** The methodology of inspection/ verification of documents followed by the agencies is broadly as under but not limited to:

(a) It is obligatory on the part of the interested Bidders, who choose to participate against the tender, to understand the tender requirements in entirety and the requisite documents sought for in support of the Bid Rejection & Bid Evaluation Criteria (BEC/BRC) mentioned in the tender in particular. The Bidder must produce all the appropriate documents before any of the OIL's empaneled third-party certifying agencies for

verification/certification. Neither OIL nor the third-party certifying agency shall be held accountable in any manner regarding the choice of documents by the bidder for verification. Therefore, getting the appropriate documents inspected/verified by the agency in support of BEC/BRC clauses is the sole responsibility of the Bidder.

(b) The prospective bidder shall contact any of the empaneled inspection agencies. The agency shall go through the Tender Document, especially the requirements of BEC/BRC and list the documents to be verified. They shall depute their qualified/competent inspector to the Bidder's premises to check the original documents and certify the copies which the bidder shall submit along with their bids. OIL will reserve the right to ask the inspection agencies to verify the documents with source, if required at no extra cost to OIL. Verification of documents by OIL"s empaneled third-party agency shall not automatically make the bidder eligible for award of contract.

(c) Verification of documents are normally categorized as under:

- **General Requirement:**
  - Check Bidder's PAN Card
  - Check Bidder's GST Certificate
  - Check ITR of company – last three years (minimum)
  - Check Bidder's Certificate of Incorporation – Domestic Bidder.

- **Additional Documents: (If applicable against the tender)**
  - Joint Ventures Agreements – To Double-check with JV Partners
  - Consortium Agreements – To Double-check with Consortium Partners
  - Holding/ Parent/Subsidiary Company – To check the notarized Share Holding pattern

- **Technical Criteria**
  - Experience Proof –To check Original Work Order as per BEC /criteria
  - To check Company Name
  - To check Similar Work Definition against Work Order, Scope of work (JV or Consortium too)
  - To check the Execution period
  - To Check the Completion Certificates – Letter of Appreciations of proper Execution
  - Reference contact verification and true copy verification
  - Match Original Work Order/Contract Copy with Soft Copies or notarized scan copies

**Notes:**

(i) If any documents LOI/LOA/Contracts etc. are submitted towards BEC/BRC experience criteria issued by Oil India Limited, such documents need not be verified by TPI agency.

**(END OF SECTION – I)**

## SECTION – II

## BID EVALUATION CRITERIA (BEC)

The Bid shall conform generally to the specifications and terms & conditions given in the bidding document. Bids will be rejected in case services offered do not conform to the required parameters stipulated in the Scope of work. Notwithstanding the general conformity of the bid to the stipulated specifications, the following requirements will have to be particularly met by the bidders without which the same will be considered as non-responsive and rejected.

### A) TECHNICAL EVALUATION CRITERIA:

1.0 Any offer which does not include all the jobs/services mentioned in the Scope of Work and Special conditions of Contract will be considered as incomplete and rejected.

1.1 The Bidder should have completed at least one **"similar work** during last 7 (seven) years to be reckoned from the original bid closing date in any Public sector/ State Government/ Central Government/ Public limited company. Bidder has to submit documentary evidence in this regard.

One similar completed works each costing not less than the amount equal to **Rs. 5,37,93,307.53;**

OR

Two similar completed works each costing not less than the amount equal to **Rs. 3,36,20,817.21**;

OR

Three similar completed works each costing not less than the amount equal to **Rs. 2,68,96,653.76**.

Notes to BEC Clause 1.1 above: **Similar Works' means 'Construction project of Multi-Storied Minimum G+1 RCC Framed Structure Buildings of either Residential, Educational, Institutional, Assembly, Business or in combination of one or more types'.**

1.2 The Bidder shall have a valid **Electrical Contractor's License** issued by State Electrical Licensing board. However, in case the bidder does not have a valid Electrical Contractor's License, they provide an undertaking that in case of award of contract to the bidder, the bidder shall ensure that all electrical jobs shall be executed by a sub-contractor OR self with valid Electrical Contractor's License.

1.3 For proof of requisite Experience (refer Clause No. 1.1 above), the bidder shall upload soft copy of the documentary evidence in the form of **Completion Certificate** (in case of completed works) or **Partial Completion Certificate** (in case of on-going works contract) issued by the employer. The certificate should contain at least following information:

A. Contract document/Work Order showing details of work.

AND

B. Job Completion Certificate(s) or Payment certificate(s) issued by the client(s)

for the above contract or any other document(s), which can substantiate the successful execution of work. The submitted document(s) must contain the following:

i. Gross value of work done
ii. Nature of job done and Contract No./Work Order No.
iii. Contract start date and completion date
iv. Period of Contract

1.4 In case of OIL contractors, copy of 'Certificate of Completion (COC)' OR 'Certificate of Payment (COP)' OR 'Service Entry Sheet (SES)' of similar jobs successfully executed during the last seven years from the original bid closing date, showing gross value of job done. It may be noted that simply mentioning of OIL Contract Number will be accepted.

**Note:**

- If the prospective bidder is executing SIMILAR WORK which is still running and the contract value / quantity executed prior to original bid closing date is equal to or more than the minimum prescribed value in the BEC/BRC, such experience will also be taken into consideration provided that the bidder has submitted copies of contract document or work order/LOA documents showing details of work along with satisfactory service execution certificate issued by end user.

- Similar Services(s) executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC.

- Similar works done through Sub-Contracting shall not be considered as valid experience.

- A bidder can submit only one bid against this tender. In case, any other bid is found to be received from the bidder or through any of its constituent members/ combination of its constituent members, or through any other arrangement by the bidder or its constituent members, then in such cases, all such bids shall be straightaway rejected.

- Mere award of contract(s) will not be counted towards experience. Successful completion of the awarded contract(s) to the extent of volume & value, as stipulated respectively under Clause Nos. 1.1 will only be treated as acceptable experience.

- Only Letter of Intent (LOI)/Letter of Award (LOA), or Work Order(s) are not acceptable as evidence.

**B) <u>FINANCIAL EVALUATION CRITERIA</u>:**

1. Annual Financial Turnover of the bidder during **any of preceding three financial / accounting years from the original bid closing date** should be at least **Rs. 1.68 Crores**.

   [Annual Financial Turnover of the bidder from operations shall mean: "Aggregate value of the realisation of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91).]

2. **Net worth** of bidder must be positive for preceding financial/ accounting year.

   [**Net worth** shall mean: "Share capital + Reserves created out of profits and securities Premium account (excluding revaluation reserves) – deferred expenditure – Miscellaneous Expenditure to the extent not written off and carried forward Loss - Reserves created out of write back of depreciation and amalgamation".]

3. Considering the time required for preparation of Financial Statements, if the last date of preceding financial/accounting year falls within the preceding six months/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) reckoned from the original bid closing date 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-II.**

**Notes:**

a) 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. 'UDIN' along with membership and firm registration number of CA issuing the certificate for turnover & net worth of the bidder must be provided as per format prescribed in **ANNEXURE for CA certificate.**

   OR

   ii) Audited Balance Sheet along with Profit & Loss account.

b) In case the bidder is a 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 to provide documentary evidence for the same.

## C) COMMERCIAL EVALUATION CRITERIA:

1. Bids shall be submitted under single stage two Bid systems i.e. Technical Bid and Priced Bid separately in the OIL's e-Tender portal. Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the "Technical Attachments" under Rfx Information only. The "TECHNO-COMMERCIAL UNPRICED BID" shall contain all techno-commercial details except the prices. **Please note that no price details should be uploaded in Technical RFx Response otherwise bid will be rejected**.

2. Prices/Rates should be quoted in Indian Rupees and must be as per PRICE BID FORMAT uploaded under "Notes and Attachments" Tab. The rates quoted and uploaded in the "PRICE BID FORMAT" under "Notes and Attachments" Tab will only be considered.
3. The price quoted by the successful bidder must be firm during the performance of the contract and not subject to variation on any account except as mentioned in the bid document. Any bid submitted with adjustable price quotation other than the above will be treated as non-responsive and rejected.
4. Bidders shall furnish "Bid Security" for the amount as specified in Forwarding Letter. **Any bid not accompanied by Bid Security (or requisite documents confirming exemption from bid security submission in case of eligible vendor) will be rejected.**
5. Bids received through the e-procurement portal shall only be accepted. Bids received in any other form shall not be accepted.
6. Bids received by Company after the bid closing date and time will be rejected.
7. Bid documents are non-transferable. Bid can only be submitted in the name of the bidder in whose name the User ID and Password have been issued. Unsolicited bids will not be considered and will be straightway rejected.
8. Bids shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by bidder, in which case such corrections shall be initiated by the person(s) signing the bid. However, white fluid should not be used for making corrections. Any bid not meeting this requirement shall be rejected.
9. The Bids and all uploaded documents must be digitally signed using "Class 3" digital certificate (encryption enabled) [e-commerce application (Certificate with personal verification and Organization name)] as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.
10. The following Clauses with all its sub-clauses should be agreed in to, failing which the bid will be rejected.
    i. Performance Security Clause
    ii. Tax Liabilities Clause
    iii. Insurance Clause
    iv. Force Majeure Clause
    v. Termination Clause
    vi. Arbitration Clause
    vii. Applicable Law Clause
    viii. Liquidated damages clause
    ix. GST clause
    x. Integrity pact clause
11. **Integrity pact:** OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **Annexure-A1** 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 Un-Priced Techno-Commercial Bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. 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.

12. Validity of the bid shall be minimum **120 days**. Bids with lesser validity will be rejected.

13. Bidder must comply to clause No. **32.0 (VERIFICATION AND CERTIFICATION OF DOCUMENTS BY INDEPENDENT THIRD- PARTY INSPECTION AGENCIES)** and its sub-clauses under Instruction to Bidders failing which their offer shall be summarily rejected.

**D) GENERAL:**

1. **Proforma-C:** The Compliance statement must be filled up by bidders and to be submitted along with their bids. In case bidder takes exception to any clause of the bidding document not covered under BEC, 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 BEC.

2. To ascertain the substantial responsiveness of the bids, Company reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarification 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 summarily rejected.

3. If any of the clauses in the BEC contradicts with other clauses of bidding document elsewhere, then the clauses in the BEC shall prevail.

4. The original bid closing date shall be considered by OIL for evaluation of BEC/BRC Criteria even in case of any extension of the original bid closing date.

5. Bid involving a party in any form whose name is appearing in the prevailing list of banned/blacklisted vendors of OIL INDIA LIMITED shall be rejected outright.

6. **Goods & Service Tax:** The bidder is to quote the rates/prices inclusive of all statutory liabilities, except the Goods & Service Tax (GST). GST as applicable shall be extra to OIL's account limiting to the rate quoted by the bidder until any statutory change takes place. However, the liability of payment of GST will rest on the Contractor.

**II. PRICE EVALUATION CRITERIA:**

1. The evaluation of bids shall be done as per the Price Bid Format provided in the Tender / e-tender portal. Contract shall be awarded to the L1 bidder evaluated as per the price bid format.
2. If there is any discrepancy between the unit price and total price, the unit price will prevail and total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amount in words shall prevail and will be adopted for evaluation.
3. To ascertain the inter-se-ranking, bid prices shall be converted into Indian Rupees and the comparison of responsive bids shall be made strictly as per online Price bid format, subject to corrections / adjustments, if any.

4. Other terms and conditions of the enquiry shall be as per General Terms and Conditions for Local Tender. However, if any of the Clauses of the Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the General Terms & Conditions of Local Tender of the tender and/or elsewhere, those mentioned in this BEC shall prevail.
5. The bidders are advised not to offer any discount/rebate separately and to offer their prices in the Price Bid Format after considering discount/rebate, if any.
6. Conditional and unsolicited discount will not be considered in evaluation. However, if such bidder happens to be the lowest recommended bidder, unsolicited discount without any condition will be considered for computing the contract price.
7. In case of identical overall lowest offered rate by more than 1(one) bidder, the selection will be made by draw of lot between the parties offering the same overall lowest price.
8. OIL will prefer to deal with registered bidder under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet. However, in case any unregistered bidder is submitting their bid, their prices will be loaded with applicable GST while evaluation of bid. Where OIL is entitled for input credit of GST, the same will be considered for evaluation of bid as per evaluation methodology of tender document.
9. Price Bid uploaded without giving any of the details of the taxes (Including rates and amounts) will be considered as inclusive of all taxes including GST. When a bidder mentions taxes as extra without specifying the rates & amount, the offer will be loaded with maximum value towards taxes received against the tender for comparison purposes. If the bidder emerges as lowest bidder after such loading, in the event of order on that bidder, taxes mentioned by OIL on the Purchase Order/Contracts will be binding on the bidder.
10. Input Tax Credit on GST (Goods & Service Tax) for this service is NOT available to OIL & the bids will be evaluated based on total price including GST.

**Note**:

a) It shall be the bidder's responsibility to ensure submission of unambiguous/clear and sufficient documentary evidence in support of the evaluation criteria.

b) OIL reserves the right to verify any or all data/document/information provided by the bidder. False statement by Bidder will make it liable for appropriate action.

c) For the above purpose, supplementary reinforcing documents submitted by the bidder in response to specific query after bids are opened, may have later date after bid opening date provided that such the certification/letter contents are only historical/confirmatory in nature.

**(END OF SECTION-II)**

## SECTION – III

## GENERAL CONDITIONS OF CONTRACT(GCC)

MEMORANDUM OF AGREEMENT made this ..... 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 and Project Office at 2-A, Saraswati Nagar, Jodhpur-342005 (hereinafter called 'The Company") of the ONE PART and Sri ..... carrying of business as PROPRIETOR under the firm name M/s. ..... with their Office at ..... in the district of ..... aforesaid (hereinafter called "The Contractor") of the OTHER PART.

WHEREAS**,** in this Agreement the following terms shall be interpreted as indicated below:

a) The "Agreement" means the Contract entered into between the Company and the Contractor, and terms & conditions as recorded in this document signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein

b) The "Agreement Price" means the prices/costs/rates payable by the Company to the Contractor under the contractual obligations.

c) The 'Work' means each and every activity described in the Schedule of Work/Specifications, detailed in Proforma-A.

d) "Company" means OIL INDIA LIMITED and its executors, successors, administrators and assignees.

e) "Contractor" means the individual or firm or Company performing the 'work' under this Agreement and its executors, successors and assignees.

f) "Contractor's personnel" means the personnel to be provided/deployed by the Contractor for due performance of the assigned work as per the Agreement.

g) "Company Personnel" mean the personnel to be provided by the Company. The Representative/Engineer of the Company is also included in the Company's personnel. The Company's Representative/Engineer means the person or persons appointed and approved from time to time by the Company to act on its behalf for overall co-ordination and project management at site.

h) "Site" means the land, installation and other places, provided and designated by the Company on which the works are to be executed by the Contractor.

i) "Company's item" means the equipment, materials, installations and services, which are to be provided by the Company at the expense of the Company.

j) "Contractor's item" means the equipment, materials and services, which are to be provided by the Contractor at the expense of the Contractor.

k) "Commencement date" means the date on which the Contractor's personnel starts the job as mentioned in the Agreement.

l) "Gross negligence" as used in this Agreement shall mean 'willful and wanton disregard for harmful, avoidable and foreseeable consequence".

**WITNESSETH** :

1.0 (a) The Contractor hereby agrees to carry out the work set down in the Schedule of Work of this Agreement in accordance with General Specifications read in conjunction with any drawings and Special terms & conditions which forms part of this of the Agreement.

(b) In this Agreement all words and expressions shall have the same meanings as are respectively assigned to them hereinabove which the Contractor has perused and is fully conversant with before entering into this Agreement.

2.0 The Contractor shall provide all labour, supervision and transport and such specified materials described in Section-IV of the Agreement including tools and plants as necessary for the work and shall be responsible for all royalties and other levies and his rates shall include all incidental and contingent work which, although not specifically mentioned in this Agreement but are necessary for completion of the work in a sound manner and with good workmanship.

3.0 The Company's engineer shall have power to –

a. Reduce the rates at which payments shall be made if the quality of the work, although acceptable, is not upto the required standard, set forth in the Company's standard specifications which have been perused and fully understood by the Contractor.

b. Order the Contractor to remove any inferior materials from the work site and to demolish of rectify any work of interior 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 expense.

c. Order the Contractor to remove or replace any workman whom he (the engineer) considers incompetent or unsuitable. The engineer's opinion as to the competence and suitability of any workmen 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 executions and maintenance of the works and the Contractor shall carry out and be bound by the same.

e. Order deviations of this Agreement after obtaining approval from the Company's Management. All such deviation orders shall be in writing and shall show the financial effect, if any, and whether any extra time is to be allowed. The rates to be applied for such deviation order shall be as per DSR/DAR (Delhi Schedule of Rates / Delhi Analysis of Rates published by CPWD).

4.0 The Contractor shall have no claim against the Company in respect of any work which may be withdrawn, but only for the work actually completed under this Agreement. The Contractor shall have no objection to carry out work in excess of the quantities stipulated in **Proforma-A**, if so ordered by the Company at the same rates, terms and conditions.

5.0 The Company reserves the right to cancel this Agreement 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 Agreement. 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 ex-party if the Contractor fails to turn up despite reasonable notice, which will be binding on the Contractor.

6.0 The Contractor hereby undertakes to indemnify the Company against all claims which may arise against the under noted Act:

a. The Mines Act.
b. The Minimum Wages Act, 1948.
c. The Workmen's Compensation Act, 1923.
d. The Payment of Wages Act, 1963.
e. The Payment of Bonus Act, 1965.
f. The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed thereunder.
g. The Employees' Pension Scheme, 1995.
h. The Interstate Migrant Workmen Act., 1979 (Regulation of employment and conditions of service).
i. The Employees Provident Fund and Miscellaneous Provisions Act, 1952.
j. The Rajasthan Tax Act.
k. The Goods and Service Tax Act,2017.
l. Customs Act & Rules.
m. Rajasthan Entry Tax Act.
n. Environment Protection Act.
o. Public Liability Act.
p. Income tax Act.
q. Insurance Act.

or any other Acts or statutes not herein 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 Labourer appointed by the Contractor. Such statutory

increase in the wage rates of Contract Labourer shall be borne by the Contractor.

Contractor(s) whoever is liable to be covered under P.F. Act must ensure strict compliance of provisions of 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 under their direct code. 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 final bill.

7.0 **SUBSEQUENTLY ENACTED LAWS**: Subsequent to the date of submission of Contractor's bid, if there is a change in or enactment of any law or interpretation of existing law, which results in additional cost/reduction in cost to Contractor on account of the operation under the Contract, the company/ Contractor shall reimburse/pay Contractor/company for such additional/ reduced costs actually incurred.

8.0 **Work Completion Time:** The Contractor must commence the work within 15 days of issue of Work Order and the work should be completed within the time period mentioned in the work order. Noncompliance of this time schedule will call for imposition of Liquidated Damages.

9.0 **EFFECTIVE DATE OF CONTRACT:** The contract shall become effective as of the date Company notifies the Contractor in writing that it has been awarded the contract. This date of issuance of Letter of Award (LOA) by the Company will be the Effective Date of Contract**.**

10.0 **GENERAL OBLIGATIONS OF CONTRACTOR:** Contractor shall, in accordance with and subject to the terms and conditions of this Contract:

10.1 Perform the work described in the Terms of Reference (Section-IV) in most economic and cost-effective way.

10.2 Except as otherwise provided in the Terms of Reference and the Special Conditions of the Contract, provide all labour as required to perform the work.

10.3 Perform all other obligations, work and services which are required by the terms of this contract or which reasonably can be implied from such terms as being necessary for the successful and timely completion of the work.

10.4 Contractor shall be deemed to have satisfied himself before submitting their bid as to the correctness and sufficiency of its bid for the services required and of the rates and prices quoted, which rates and prices shall, except insofar as otherwise provided, cover all its obligations under the contract.

10.5 Contractor shall give or provide all necessary supervision during the performance of the services and as long thereafter within the

warranty period as Company may consider necessary for the proper fulfilling of contractor's obligations under the contract.

11.0 **GENERAL OBLIGATIONS OF THE COMPANY**: Company shall, in accordance with and subject to the terms and conditions of this contract:

11.1 Pay Contractor in accordance with terms and conditions of the contract. The period of time for which each rate shall be applicable shall be computed from and to the nearest an hour. The rates contained in the Contract shall be based on Contractor's operation being conducted on a seven (07) days week and twenty-four (24) hours workday. Under the Contract, Contractor will be entitled to the applicable rate defined in Schedule of Rates. These rates are payable when the required condition has existed for a full 24 hours' period. If the required condition existed for less than 24 hours, then payments shall be made on pro-rata basis.

11.2 Allow Contractor access, subject to normal security and safety procedures, to all areas as required for orderly performance of the work.

11.3 Perform all other obligations required of Company by the terms of this contract.

12.0 **PERSONNEL TO BE DEPLOYED BY CONTRACTOR:**

12.1 Contractor warrants that it shall provide competent, qualified and sufficiently experienced personnel to perform the work correctly and efficiently.

12.2 The Contractor should ensure that their personnel observe applicable company and statutory safety requirement. Upon Company's written request, Contractor, entirely at his own expense, shall remove immediately any personnel of the Contractor determined by the Company to be unsuitable and shall promptly replace such personnel with personnel acceptable to the Company. Replacement personnel should be mobilized within ten (10) days from the date of issuance of notice without affecting the operation of the company.

12.3 The Contractor shall be solely responsible throughout the period of the contract for providing all requirements of their personnel including but not limited to, their transportation to & fro from field/drilling site, en-route/ local boarding, lodging & medical attention etc. Company shall have no responsibility or liability in this regard.

12.4 Contractor's key personnel shall be fluent in English language (both writing and speaking).

13.0 **WARRANTY AND REMEDY OF DEFECTS:**

13.1 Contractor warrants that it shall perform the work in a professional manner and in accordance with their highest degree of quality, efficiency, and with the state of the art technology/inspection services and in conformity with all specifications, standards and

drawings set forth or referred to in the Technical Specifications. They should comply with the instructions and guidance; which Company may give to the Contractor from time to time.

13.2 Should Company discover at any time during the tenure of the Contract or till the Unit/equipment/tools are demobilised from site that the work does not conform to the foregoing warranty, Contractor shall after receipt of notice from Company, promptly perform any and all corrective work required to make the services conform to the Warranty. Such corrective Work shall be performed entirely at Contractor's own expenses. If such corrective Work is not performed within a reasonable time, the Company, at its option may have such remedial Work performed by others and charge the cost thereof to Contractor subject to a maximum of the contract value payable for the defective work which needs corrective action which the Contractor must pay promptly. In case Contractor fails to perform remedial work, or pay promptly in respect thereof, the performance security shall be forfeited.

13.3 The Company's engineer shall have power to –

(a) Reduce the rates at which payments shall be made if the quality of the work, although acceptable, is not upto he required standard, set forth in the Company's standard specifications which have been perused and fully understood by the Contractor.

(b) Order the Contractor to remove any inferior materials from the work site and to demolish of rectify any work of interior 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 expense.

(c) Order the Contractor to remove or replace any workman whom he (the engineer) considers incompetent or unsuitable. The engineer's opinion as to the competence and suitability of any workmen 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 executions and maintenance of the works and the Contractor shall carry out and be bound by the same.

(e) Order deviations of this Agreement after obtaining approval from the Company's Management. All such deviation orders shall be in writing and shall show the financial effect, if any, and whether any extra time is to be allowed. The rates to be applied for such deviation order shall be as per DSR/DAR.

14.0 **VALIDITY OF THE AGREEMENT:**

The Agreement shall remain valid for a period of Two (02) years from the date of commencement of works as mentioned in Work Order or completion of works whichever is later.

15.0 **SCHEDULE OF RATES:**

Payment to the Contractor will be made against work completed by them at the rates entered in the Schedule of Rates, Proforma-A.

16.0 **Liquidated Damages**:

16.1 Time is the essence of this Contract. In the event of the Contractor's default in timely completion of the project within the stipulated period, the Contractor shall be liable to pay liquidated damages @ 1/2% of contract value, per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the expiry date of the scheduled completion date. Liquidated Damages shall be applicable on the value of delayed item(s) 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. Decision of Engineer-in-Charge shall be binding in this regard. 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.

16.2 The parties agree that the sum specified above is not a penalty but a genuine pre- estimate of the loss/damage which will be suffered by OIL on account of delay/breach on the part of the Contractor and the said amount will be payable without proof of actual loss or damage caused by such delay/breach and without any demur and shall not be open for any dispute whatsoever.

16.3 Liquidated Damages are to be recovered from the final bill & not from the running bills. In case adequate amount may not be available in the final bill, necessary recovery can be made from previous bill(s) or Performance security submitted by the contractor.

17.0 In order to promote, safeguard and facilitate the general, operational economic interest of the Company, during the continuance of this Agreement the Contractor herby 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, demonstrations, riots, or in any agitation prejudicial to the Company's interest and any such event taking shape or form at any place of the Company's work and its neighborhood.

18.0 **LIABILITY:**

18.1 Except as otherwise expressly provided, neither the Company not its servants, agents, nominees, shall have any liability or responsibility whatsoever to whomsoever (including the owner) for loss or damages to the equipment and/or loss or damage to the property of the Contractor and/or its sub-contractors, irrespective of how much loss or damage is caused by willful and gross negligence of the Company and/or its servants, agents, nominees, assignees. The Contractor shall protect, defend, indemnify and hold harmless the Company from and against such loss or damage and any suit, claim or expense resulting there from.

18.2 Neither the Company not its servants, agents, nominees, assignees, sub-contractors shall have any liability or responsibility whatsoever for injury to, illness, or death of any employee of the Contractor irrespective of how such injury, illness or death is caused unless caused by willful and gross negligence of the Company and/or its servants, agents, nominees, assignees. The Contractor shall protect, defend, indemnify and hold harmless the Company from and against such loss or damage and any suit, claim or expense resulting there from.

18.3 The Contractor hereby agrees to waive its right of recourse and further agrees to cause its underwriters to waive their right of subrogation against Company and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for loss or damage to the equipment of the Contractor and/or its sub-contractors and/or their employees when such loss or damage or liabilities arises out of or in connection with the performance of the contract limited to the Contractor's liabilities agreed to under this Contract.

18.4 The Contractor hereby further agrees to waive its right of recourse and agrees to cause its underwriters to waive their right of subrogation against Company and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for injury to, illness or death of any employee of the Contractor and of its contractors, sub-contractors and/or their employees when such injury, illness or death arises out of or in connection with the performance of the contract limited to the Contractor's liabilities agreed to under this Contract.

18.5 Except as otherwise expressly provided, neither Contractor nor its servants, agents, nominees, Contractors or sub-contractors shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss or damage to the property of the Company and/or their Contractors or sub-contractors, irrespective of how such loss or damage is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, Contractors and sub-contractors. The Company shall protect, defend, indemnify and hold harmless Contractor from and against such loss or damage and any suit, claim or expense resulting there from.

18.6 Neither Contractor nor its servants, agents, nominees, assignees, Contractors, sub- contractors shall have any liability or responsibility whatsoever to whomsoever for injury or illness, or death of any employee of the Company and/or of its Contractors or sub- contractors irrespective of how such injury, illness or death is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, Contractors and sub-contractors. Company shall protect, defend indemnify and hold harmless Contractor from and against such liabilities and any suit, claim or expense resulting there from.

18.7 The Company agrees to waive its right of recourse and further agrees to cause its underwriters to waive their right of subrogation against Contractor and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for loss or damage to the equipment of Company and/or its contractors or sub- contractors when such loss or damage or liabilities arises out of or in connection with the performance of the contract.

18.8 The Company hereby further agrees to waive its right of recourse and agrees to cause it underwriters to waive their right of subrogation against Contractor and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for injury to, illness or death of any employee of the Company and of its Contractors, sub-contractors and/or their employees when such injury, illness or death arises out of or in connection with the performance of the Contract.

19.0 **LIMITATION OF LIABILITY:** Notwithstanding any other provisions herein to the contrary, except only in cases of wilful misconduct and / or criminal acts,

a. Neither the Contractor nor the Company (OIL) shall be liable to the other, whether in Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs.

b. Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the Contractor in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 50% of the Contract Price, provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the Contractor, or to any obligation of the Contractor to indemnify the Company with respect to Intellectual Property Rights.

c. Company shall indemnify and keep indemnified Contractor harmless from and against any and all claims, costs, losses and liabilities in excess of the aggregate liability amount in terms of clause (b) above.

20.0 **INDEMNITY AGREEMENT:**

20.1 Except as provided hereof Contractor agrees to protect, defend, indemnify and hold Company harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of Contractor's employees, agents, contractors and sub- contractors or their employees on account of bodily injury or death, or damage to personnel/properly as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

20.2 Except as provided hereof Company agrees to protect, defend, indemnify and hold Contractor harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of Company's employees, agents, contractors and sub- contractors or their employees on account of bodily injury or death, or damage to personnel/properly as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

21.0 **INDEMNITY APPLICATION:** The indemnities given herein above, whether given by Company or Contractor shall be without regard to fault or to the negligence of either party even though said loss, damage, liability, claim, demand, expense, cost or cause of action may be caused, occasioned by or contributed to by the negligence, either sole or concurrent of either party.

21.1 The Contractor shall not make Company liable to reimburse the Contractor to the statutory increase in the wage rates of the contract Labour appointed by the Contractor. Such statutory or any other increase in the wage rates of the contract Labour shall be borne by the Contractor.

21.2 The Contractor shall not engage Labour below 18 (eighteen) years of age under any circumstances. Persons above 60 (sixty) years age also shall not be deployed except Manager / Superintendent.

21.3 Moreover, the Contractor should obtain and produce in advance to commencement of Work all statutory certificates/licenses required for commencement of work against the contract. The Contractor employing 20 (twenty) or more workmen on any day of the preceding 12 (twelve) months shall be required to obtain requisite license at his cost from the appropriate Licensing Officer before undertaking any contract work. The Contractor shall also observe the rules and regulations framed under the Contract Labour (Regulations & Abolition) Act.

22.0 **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.

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.

23.0 **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, ionizing, 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.

24.0 **TERMINATION:**

24.1 **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.

24.2 **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.

24.3 **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-22.0 above.

24.4 **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.

24.5 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.

24.6 **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].

24.7 **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.

24.8 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 entirely or partially to the extent 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.

24.9 **Termination for delay in mobilization**: CONTRACTOR is required to mobilize complete equipment alongwith crew for commencement of services at the specified site within the maximum allowed number of days from the date of LOA/Notice for Mobilization as specified in the special conditions of contract. If the CONTRACTOR (successful bidder) fails to complete the mobilization as above, OIL shall have, without prejudice to any other clause of the CONTRACT, the right to terminate the contract.

24.10 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 22.1 to 22.8 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.

24.11 **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.

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

24.13 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.

Demobilization charges shall not be payable by COMPANY in case of Article from 22.4 to 22.7.

## 25.0 SETTLEMENT OF DISPUTES:

25.1 **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 3rd 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 pendente-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:

    (i) 20%of the fees if the claimant has not submitted statement of claim.
    (ii) 40% of the fees if the pleadings are complete
    (iii) 60% of the fees if the hearing has commenced.
    (iv) 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.

25.2 **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.

25.3 **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.

25.4 **Resolution of disputes through conciliation by OEC**

(Not Applicable in cases where value of dispute is less than Rs. 25 Lakhs 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.

25.5 **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.

26.0 **INSURANCE**:

26.1 CONTRACTOR shall at his own expense arrange secure and maintain insurance with reputed insurance companies to the satisfaction of the Company as follows:

a. The Contractor shall, at his own expense, arrange appropriate comprehensive insurance (All-risks insurance cover with suitable limit as per International Standard) to cover all risks assumed by the Contractor under this Contract in respect of its equipment, tools including but not limited to well equipment & tools, any other belongings and personnel during the entire period of this Contract including extensions thereof.

b. The Contractor shall also carry adequate insurance cover against damage/loss to third party/person/property.

c. The Contractor at his cost shall arrange, secure and maintain insurance as may be necessary and to its full value for all such amounts to protect the works-in-progress from time to time and the interest of Company against all risks as detailed herein subject to the satisfaction of the Company and irrespective of acceptance of the Work

d. The responsibility to maintain adequate insurance coverage at all times during the period of the Contract shall be that of the Contractor alone and OIL will have no liability on this account. The

Contractor's failure in this regard shall not relieve him of any of his responsibilities & obligations under the Contract.

e. All costs on account of insurance liabilities covered under the Contract will be to the Contractor's account.

26.2 **Deductible:**

The Contractor shall take policy with minimum deductible as per IRDA prescribed for the policy(ies) that portion of any loss not covered by the insurance provided for in this article solely by reason of a deductible provision in such insurance policies that shall be the account of the Contractor.

26.3 The Contractor shall require all of its sub-Contractor to provide such of the foregoing insurance coverage as Contractor is obliged to provide under this Contract and inform the Company about the coverage prior to the commencement of agreements with its sub-Contractors.

26.4 All insurance taken out by Contractor or their sub-contractor shall be endorsed to provide that the underwriters waive their rights of recourse on the Company and to the extent of the liabilities assumed by Contractor under this Contract.

26.5 **Waiver of subrogation:**

All insurance policies of the Contractor and its Sub-Contractor with respect to the operations conducted hereunder as set forth in clauses hereof, shall be endorsed by the underwriter in accordance with the following policy wording:

"The insurers hereby waive their rights of subrogation against Oil India Limited or any of their employees or their affiliates and assignees."

26.6 **Loss Payee Clause:**

The Insurance Policies should mention the following in Loss Payee Clause:
“In respect of Insurance claims in which OIL’s interest is involved, written consent of OIL will be required”.

26.7 **Additional Assured:**

**“Oil India Limited”** is to be included as Additional Assured in the Insurance Policies (except in case of Workmen’s Compensation/Employer’s Liability insurance).

26.8 **Certificate of Insurance:**

Before commencing performance of the CONTRACT, CONTRACTOR shall furnish OIL with certificates of insurance indicating:

a. Kinds and amounts of insurance as required herein
b. Details of coverage
c. Insurance corporation or companies carrying the aforesaid coverage
d. Effective and expiry dates of policies
e. That OIL shall be given thirty (30) days written advance notice of any material change in the policy
f. Waiver of subrogation endorsement has been attached to all policies and

Note: An undertaking by the service provider has to be mandatorily provided during the Mobilisation time that they have taken all the Insurance provisions as per the contract and as the Law and Insurance Regulation.

26.9 If any of the above policy expire or/are cancelled during the term of this CONTRACT and CONTRACTOR fails for any reason to renew such policies, OIL in no case shall be liable for any loss/damage occurred during the term when the policy is not effective. Furthermore, a penal interest @ 1% of the Total contract value shall be charged towards not fulfilling of the contractual obligations. Notwithstanding above, should there be a lapse in any insurance required to be taken by the Contractor for any reason whatsoever, loss/damage claims resulting therefrom shall be to the sole account of Contractor.

26.10 **The Contractor on demand from the Company shall furnish the Insurance Policy having detail terms and conditions, with respect to any Certificate of Insurance submitted to the Company.**

26.11 **On account payment to OIL in case of claim**

In case any loss or damage happen and where OIL's interest is involved, OIL reserves the right to recover the loss amount from the CONTRACTOR prior to final settlement of the claim.

26.12 CONTRACTOR shall at all time during the currency of the contract provide, pay for and maintain the following insurance amongst others:

Employees Compensation (EC) Policy or Employer's Liability Policy insurance as required by the laws of the country of origin of the employee.

i. **Commercial General Liability Insurance:** Commercial General Public Liability Insurance covering liabilities including contractual liability for bodily injury, including death of persons, and liabilities for damage of property. This insurance must cover all operations CONTRACTOR required to fulfil the provisions under this Contract.

ii. **Comprehensive General Automotive Liability:** Automobile Public Liability Insurance covering owned, non-owned and hired automobiles used in the performance of the work hereunder, with bodily injury limits and property damage limits shall be governed by Indian Insurance Regulations.

iii. **Carrier's Legal Liability Insurance:** Carrier's Legal Liability Insurance in respect of all CONTRACTOR's items to be transported by the CONTRACTOR to the site of work, for physical loss or destruction of or damage to goods or merchandise, while in transit.

iv. **Public Liability Act Policy:** Public Liability Act Policy, if applicable, covering the statutory liability arising out of accidents occurring during the currency of the contract due to handling hazardous substances as provided in the Public Liability Insurance Act 1991 and the Rules framed there under. In case there is no usage of hazardous substance, the Contractor should provide an undertaking during mobilization as per format enclosed regarding non-inclusion of hazardous substances within the ambit of the contract.

v. **Pradhan Mantri Suraksha Bima Yojana (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY):** CONTRACTOR shall, ensure that all his/its personnel deployed under this contract have obtained additional insurance coverage under the Pradhan Mantri Suraksha Bima Yojana (PMSBY) and Pradhan Mantri Jeevan Jyoti Bima Yojana (PMJJBY) through the participating banks and submit the proof of such insurance coverage to the satisfaction of OIL.

Note: This will be applicable for only Indian citizens and within the prescribed age group defined under the scheme for the insurance coverage.

vi. Any other insurance policy set forth in the SCC.

27.0 **TAXES**:

27.1 Tax levied on Contractor as per the provisions of Indian Income Tax Act and any other enactment/rules on income derived/payments received under the contract will be on Contractor's account.

27.2 Contractor shall be responsible for payment of personal taxes, if any, for all the personnel deployed in India by Contractor.

27.3 The Contractor shall furnish to the Company, if and when called upon to do so, relevant statement of accounts or any other information pertaining to work done under the contract for submitting the same to the Tax authorities, on specific request from them in accordance with provisions under the law. Other than the information provided by the Contractor, the Contractor shall not be responsible for any inaccurate information provided by the Company to the Tax authorities and the Company shall indemnify the Contractor for all claims, expenses, costs or losses of any nature arising from such inaccuracy. Contractor shall be responsible for preparing and filing the return of income etc. within the prescribed time limit to the appropriate authority.

27.4 Prior to start of operations under the contract, the Contractor shall furnish the Company with the necessary documents, as asked for by the Company and/ or any other information pertaining to the contract, which may be required to be submitted to the Income Tax authorities at the time of obtaining "No Objection Certificate" for releasing payments to the Contractor.

27.5 Corporate income tax will be deducted at source from the invoice at the specified rate of income tax as per the provisions of Indian Income Tax Act as may be in force from time to time and Company will issue TDS Certificate to the Contractor as per the provisions of Income Tax Act.

27.6 Corporate and personnel taxes on Contractor shall be the liability of the Contractor and the Company shall not assume any responsibility on this account.

27.7 All taxes and levies other than GST and customs duty on purchases and sales made by Contractor shall be borne by the Contractor.

27.8 Goods and Services Tax (GST): The quoted price should be exclusive of GST and the GST as applicable shall be to the Company account. The GST amount on the taxable part of the services provided by the Contractor shall be paid by the Company as per provisions of the GST Act. Bidder should take note of the following while submitting their offer in GST regime.

28.1.1 “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.

28.1.2 The quoted price shall be deemed to be inclusive of all taxes and duties except "Goods and Services Tax" (hereinafter called GST) (i.e. IGST or CGST and SGST/UTGST applicable in case of interstate supply or intra state supply respectively and GST compensation Cess if applicable).

28.1.3 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 (Oil India Limited)/Client. 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 / Client shall not be liable to make any payment on account of GST against such invoice.

28.1.4 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.

28.1.5 GST payable under reverse charge 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/Client.

28.1.6 Where OIL/client has the obligation to discharge GST liability under reverse charge mechanism and OIL/client 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/client or ITC with respect to such payments is not available to OIL/client for any reason which is not attributable to OIL/client, then OIL/client shall be entitled to deduct/ setoff / recover such amounts against any amounts paid or payable by OIL/Client to Contractor / Supplier.

28.1.7 The Supplier shall always comply with the requirements of applicable laws and provide necessary documents as prescribed under the Rules & Regulations, as applicable from time to time. In particular, if any tax credit, refund or other benefit is denied or delayed to OIL / Project Owner due to any non-compliance / delayed compliance by the Supplier under the Goods & Service Tax Act (such as failure to upload the details of the sale on the GSTN portal, failure to pay GST to the Government) or due to non-furnishing or furnishing of incorrect or incomplete documents by the Supplier, the Supplier shall be liable to reimburse OIL / Project Owner for all such losses and other consequences including, but not limited to the tax loss, interest and penalty.

28.1.8 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 / Client for reasons attributable to Contractor / Vendor, OIL / client 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 / client 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 / Project Owner.

28.1.9 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.

28.1.10 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.

28.1.11 The contractor will be liable to ensure to have registered with the respective tax authorities 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.

28.1.12 In case the bidder is covered under Composition Scheme under GST laws, then bidder should quote the price inclusive of the GST (CGST & SGST/UTGST or IGST). Further, such bidder should mention "Cover under composition system" in column for GST (CGST & SGST/UTGST or IGST) of price schedule.

28.1.13 OIL/client will prefer to deal with registered supplier of goods/ services under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet. However, in case any unregistered bidder is submitting their bid, their prices will be loaded with applicable GST while evaluation of bid. Where OIL/client is entitled for input credit of GST, the same will be considered for evaluation of bid as per evaluation methodology of tender document.

**28.1.14 GST (GOODS & SERVICE TAX) (TRANSPORTATION CHARGES, SUPERVISION / TRAINING, SITE WORK):**

The quoted Prices towards Transportation, Supervision, Training, Site Work, AMC shall be inclusive of all taxes & levies except Goods & Service Tax (GST).

Goods & Service Tax (GST) as billed by the Supplier shall be payable at actuals by Owner subject to Contractor furnishing proper tax invoice issued in accordance with Goods & Service Tax (GST) rules to enable Owner to take input tax credit as per Govt. Rules 2004 on Goods & Service Tax (GST) paid.

Goods & Service Tax (GST) shall not be payable, if the requirements as specified above are not fulfilled by the Supplier. In case of non-receipt of above, Owner shall withhold the payment of Goods & Service Tax (GST).

In case of Foreign Bidders, where foreign bidder does not have permanent establishment in India, for supervision/training services by foreign supervisor at Project Site, Goods & Service Tax (GST) shall be paid by Owner to tax authorities.

28.1.15 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 Owner/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;
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 inter- state 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-

a) The original copy being marked as ORIGINAL FOR RECIPIENT;
b) The duplicate copy being marked as DUPLICATE FOR TRANSPORTER and
c) The triplicate copy being marked as TRIPLICATE FOR SUPPLIER.

In case of any advance given against any supplies contract, the supplier of the goods shall issue Receipt Voucher containing the details of details of advance taken along with particulars as mentioned in clause no. 28.1.15. (a), (b), (c), (d), (g), (k), (l), (m) & (o) above.

28.1.16 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, E1/E2 Forms, and any other form of indirect tax except of GST mentioned in the bidding document shall be ignored.

Oil India Ltd., Rajasthan Project's GST provisional ID No. :08AAACO2352C1ZX.

29 **CONFIDENTIALITY, USE OF CONTRACT DOCUMENTS AND INFORMATION:**

29.1 Contractor shall not, without Company's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing pattern, sample or information furnished by or on behalf of Company in connection therewith, to any person other than a person employed by Contractor in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance with prior permission from Company. However, nothing hereinabove contained shall deprive the Contractor of the right to use or disclose any information:

a. which is possessed by the Contractor, as evidenced by the Contractor's written records, before receipt thereof from the Company which however the Contractor shall immediately inform to Company; or

b. which is required to be disclosed by the Contractor pursuant to an order of a court of competent jurisdiction or other governmental agency having the power to order such disclosure, provided the Contractor uses its best efforts to provide timely notice to Company of such order to permit Company an opportunity to contest such order subject to prior permission from Company.

29.2 Contractor shall not, without Company's prior written consent, make use of any document or information except for purposes of performing the contract.

29.3 Any document supplied to the Contractor in relation to the contract other than the Contract itself remain the property of Company and shall be returned (in all copies) to Company on completion of Contractor's performance under the Contract if so required by Company.

29.4 During this Contract, Company and its employees, agents, other contractors, sub- contractors (of any tier) and their employees etc. may be exposed to certain confidential information and data of the Contractor. Such information and data shall have held by the Company, its employees, agents, other contractors, sub-contractors (of any tier) and their employees in the strictest Confidence and shall not be disclosed to any other party except on a need to know basis.

29.5 However, the above obligation shall not extend to information which:

i. is, at the time of disclosure, known to the public which Contractor shall immediately inform Company;

ii. is lawfully becomes at a later date known to the public through no fault of Contractor subject to Contractor's undertaking that no information has been divulged by them to the public;

iii. is lawfully possessed by Contractor before receipt thereof from Company which should be immediately informed to Company;

iv. is developed by Contractor independently of the information disclosed by Company which should be shared with the Company;

v. Contractor is required to produce before competent authorities or by court order subject to prior permission from Company;

30 **CHANGES:**

30.1 During the performance of the work, Company may make a change in the work mutually agreed within the general scope of this Contract including, but not limited to, changes in methodology, and minor additions to or deletions from the work to be performed. Contractor shall perform the work as changed. Changes of this nature will be affected by written order (Change Order) by the Company.

30.2 If any change result in an increase in compensation due to Contractor or in a credit due to Company, Contractor shall submit to Company an estimate of the amount of such compensation or credit in a form prescribed by Company. Such estimates shall be based on the rates shown in the Schedule of Rates and Payment (Contract Price schedule). Upon review of Contractor's estimate, Contractor shall establish and set forth in the Change Order the amount of the compensation or credit for the change or a basis for determining a reasonable compensation or credit for the change. If Contractor disagrees with compensation or credit set forth in the Change Order, Contractor shall nevertheless perform the work as changed, and the parties will resolve the dispute hereunder. Contractor's performance of the work as changed will not prejudice Contractor’s request for additional compensation for work performed under the Change Order.

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.

32 **MISCELLANEOUS PROVISIONS**:

32.1 Contractor shall give notices and pay all fees at their own cost required to be given or paid by any National or State Statute, Ordinance, or other Law or any regulation, or bye-law of any local or other duly constituted authority as may be in force from time to time in India, in relation to the performance of the services and by the rules & regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the services.

32.2 Contractor shall conform in all respects with the provisions of any Statute, Ordinance of Law as aforesaid and the regulations or bye-law of any local or other duly constituted authority which may be applicable to the services and with such rules and regulation public bodies and Companies as aforesaid and shall keep Company indemnified against all penalties and liability of every kind for breach of any such Statute, Ordinance or Law, regulation or bye-law.

32.3 During the tenure of the Contract, Contractor shall keep the facility and resources allocated for the services free from other work obligations of the Contractor not under the preview of this Contract.

32.4 Key personnel cannot be changed during the tenure of the Contract except due to sickness/death/resignation of the personnel in which case the replaced person should have equal experience and qualification, which will be again subject to approval, by the Company.

33 **WAIVER & AMENDMENTS**: Any delay in exercising and any omission to exercise any right, power or remedy exercisable by the Company under this contract shall not impair such right, power or remedy nor shall any waiver by the Company of any breach by the Contractor of any provision of this contract prevent the subsequent enforcement of that provision by the Company or be deemed a waiver by the Company of any subsequent breach by the Contractor.

**34 RECORDS, REPORTS AND INSPECTION:** The Contractor shall, at all times, permit the Company and its authorized employees and representatives to inspect all the Work performed and to witness and check all the deliverables and tests made in connection with the said work. The Contractor shall keep an authentic, accurate history and logs reasonable times for inspection by the Company's designated representatives and its authorized employees and representatives. The Contractor shall provide the Company designated representatives with a weekly written report, on form prescribed by the Company showing details of work during the preceding week. The Contractor shall not, without Company's written consent allow any third person(s) access to the said records, or give out to any third person information in connection therewith.

35 **DEFECT LIABILITY PERIOD**: "Defect liability period shall be 6 (six) months beyond the date of completion of individual work Orders as certified by Engineer-In-Charge. During defect liability period, all corrective works shall be performed entirely at Contractor's own expenses. In case if such corrective works are not performed within a reasonable

time after instructions, the Company at its discretion, may have such remedial works carried out through third party at the risk and cost of contractor. The costs so incurred shall be deducted from contractor's bill or Retention money/ performance security."

36 **INDEMNITY AGREEMENT:**

36.1 Except as provided hereof Contractor agrees to protect, defend, indemnify and hold Company harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of Contractor's employees, agents, contractors and sub-contractors or their employees on account of bodily injury or death, or damage to personnel/properly as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

36.2 Except as provided hereof Company agrees to protect, defend, indemnify and hold Contractor harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of Company's employees, agents, contractors and sub-contractors or their employees on account of bodily injury or death, or damage to personnel/properly as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

37 **INDEMNITY APPLICATION:** The indemnities given herein above, whether given by Company or Contractor shall be without regard to fault or to the negligence of either party even though said loss, damage, liability, claim, demand, expense, cost or cause of action may be caused, occasioned by or contributed to by the negligence, either sole or concurrent of either party.

38 **WITHHOLDING:**

Company may withhold or nullify the whole or any part of the amount due to Contractor, after informing the Contractor of the reasons in writing, on account of subsequently discovered evidence in order to protect Company from loss on account of: -

a. For non-completion of jobs assigned as per Tender.
b. Contractor's indebtedness arising out of execution of this Contract.
c. Defective work not remedied by Contractor.
d. Claims by sub-Contractor of Contractor or others filed or on the basis of reasonable evidence indicating probable filing of such claims against Contractor.
e. Failure of Contractor to pay or provide for the payment of salaries/ wages, contributions, unemployment compensation, taxes or enforced savings with-held from wages etc.

f. Failure of Contractor to pay the cost of removal of unnecessary debris, materials, tools, or machinery.
g. Damage to another Contractor of Company.
h. All claims against Contractor for damages and injuries, and/or for non-payment of bills etc.
i. Any failure by Contractor to fully reimburse Company under any of the indemnification provisions of this Contract. If, during the progress of the work Contractor shall allow any indebtedness to accrue for which Company, under any circumstances in the opinion of Company may be primarily or contingently liable or ultimately responsible and Contractor shall, within five days after demand is made by Company, fail to pay and discharge such indebtedness, then Company may during the period for which such indebtedness shall remain unpaid, with-hold from the amounts due to Contractor, a sum equal to the amount of such unpaid indebtedness.

Withholding will also be effected on account of the following:-

i. Order issued by a Court of Law in India.

ii. Income-tax deductible at source according to law prevalent from time to time in the country.

iii. Any obligation of Contractor which by any law prevalent from time to time to be discharged by Company in the event of Contractor's failure to adhere to such laws.

iv. Any payment due from Contractor in respect of unauthorised imports.

When all the above grounds for withholding payments shall be removed, payment shall thereafter be made for amounts so with-hold.

Notwithstanding the foregoing, the right of Company to withhold shall be limited to damages, claims and failure on the part of Contractor, which is directly/indirectly related to some negligent act or omission on the part of Contractor.

39 **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)."

40 **ENTIRE CONTRACT:** This Contract contains the entire agreement between the Parties and supersedes any previous understandings, commitments, agreements or representations whatsoever, oral or written, pertaining to the subject matter hereof, provided that nothing in this

Clause (Entire Contract) shall have effect to exclude or restrict the liability of either Party for fraud or fraudulent misrepresentation.

## 41 PAYMENTS, MANNER OF PAYMENT, RATES OF PAYMENT:

41.1 Company shall pay to the Contractor during the term of the Contract the amount due from time to time calculated according to the Schedule of Rates. No other payments shall be due from company unless specifically provided for in the Contract.

41.2 MANNER OF PAYMENT: All payments due by Company to Contractor hereunder shall be made at Contractor's designated bank. Bank charges, if any will be on account of the Contractor.

41.3 Payment of any invoices shall not prejudice the right of Company to question the validity of any charges therein, provided Company within one year after the date of payment shall make and deliver to Contractor written notice of objection to any item or items the validity of which Company questions.

41.4 Not Applicable.

41.5 Contractor shall send invoice to company on the day following the end of each month for all daily or monthly charges due to the contractor.

41.6 Contractor shall submit three (03) sets of all invoices duly super scribed 'Original' and 'Copy' as applicable to the Company for processing payment. Separate invoices for the charges payable under the contract shall be submitted by the Contractor for foreign currency and Indian currency.

41.7 Payment of monthly invoices, if undisputed, shall be made within 30 days following the date of receipt of invoice by Company.

41.8 Company shall within 30 days of receipt of the invoice notify the Contractor of any item under dispute, specifying the reasons thereof, in which event, payment of the disputed amount may be withheld until settlement of the dispute, but payment shall be made of any undisputed portion on or before the due date. This will not prejudice the company's right to question the validity of the payment at a later date as envisaged in Clause 37.3 above.

41.9 The acceptance by Contractor of part payment on any billing not paid on or before the due date shall not be deemed a waiver of Contractor's rights in any other billing, the payment of which may then or thereafter be due.

41.10 Payment of final demobilization charges shall be made, if applicable, within 45 days on receipt of invoice by Company accompanied by the following documents from the Contractor:

a. Audited account up to completion of the contract.
b. Tax audit report for the above period as required under the Indian Tax Laws.

c. Documentary evidence regarding the submission of returns and payment to taxes for the personnel engaged by the Contractor or by its Sub-contractor.
d. Any other documents as required by applicable Indian Laws.

In case, no demobilization charges are payable, the documents mentioned above will have to be submitted by the Contractor before release of the final payment by the Company. A certificate from Chartered Accountant on (a), (b) & (c) above will suffice.

41.11 Contractor shall maintain complete and correct records of all information on which contractor's invoice are based upto 2 (two) years from the date of last invoice. Such records shall be required for making appropriate adjustments or payments by either party in case of subsequent audit query / objection.

41.12 Provident Fund: The Contractor if covered under the P.F Act and if the contract cost is inclusive of P.F., must ensure strict compliance of provisions of 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. 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 13.36% P.F. Contribution on wage component.

41.13 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.

42 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.

43 **LABOUR:**

43.1 The recruitment of the labour shall be met from the areas of operation and wages will be according to the rates prevalent at the time which can be obtained from the District Authorities of the area. The facilities to be given to the labourers should conform to the provisions of labour laws as per contract Labour (Regulation and Abolition) Act, 1970.

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

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

43.4 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.

43.5 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.

44 **RECORDS, REPORTS AND INSPECTION:** The Contractor shall, at all times, permit the Company and its authorized employees and representatives to inspect all the Work performed and to witness and check all the deliverables and tests made in connection with the said work. The Contractor shall keep an authentic, accurate history and logs reasonable times for inspection by the Company's designated representatives and its authorized employees and representatives. The Contractor shall provide the Company designated representatives with a weekly written report, on form prescribed by the Company showing details of work during the preceding week. The Contractor shall not, without Company's written consent allow any third person(s) access to the said records or give out to any third person information in connection therewith.

45 **DEMOBILISATION:** The Contractor shall arrange for and execute demobilization of the Tools/Equipment/ Spare/ Accessories/Manpower etc. upon receipt of notice for demobilization from Company. Demobilization shall mean completion / termination of the contract and shall include equipment/tools/accessories, including the manpower.

46 **WAIVER:** Any delay in exercising and any omission to exercise any right, power or remedy exercisable by the Company under this contract shall not impair such right, power or remedy nor shall any waiver by the Company of any breach by the Contractor of any provision of this contract prevent the subsequent enforcement of that provision by the Company or be deemed a waiver by the Company of any subsequent breach by the Contractor.

**47 ERRING / DEFAULTING AGENCIES:** Erring and defaulting agencies like bidder, Contractor, supplier, vendor, service provider will be dealt as per OIL's Banning Policy (revised on 17.03.2023) available in website: www.oilindia. com. Moreover, OIL reserves the right to take legal or any other action on the basis of merit of the case. IN WITNESS where of the parties hereunto set their hand and seals the day and year first above written.

**48 JURISDICTION/ APPLICABLE LAWS:** The Contract shall be deemed to be a Contract made under, governed by and construed in accordance with the laws of India for the time being in force and shall be subject to the sole and exclusive jurisdiction of Courts situated in the State of Rajasthan. This Agreement including all matter connected with this Agreement, shall

be governed by the laws of India (both substantive and procedural) for the time being in force and shall be subject to exclusive jurisdiction of Courts, mentioned hereinabove. Foreign companies, operating in India or entering into Joint ventures in India, shall also be governed by the laws of India and shall be subject to sole and exclusive jurisdiction of above Courts.

**NOTICES**:

Any Notice given by one part to other, pursuant to the Contract shall be sent in writing or by E-mail and confirmed in writing to the applicable address specified below:

| **COMPANY** | **CONTRACTOR** |
|---|---|
| OIL INDIA LIMITED | ..... |
| 2-A District Shopping Center | ..... |
| Saraswati Nagar | ..... |
| RAJASTHAN(INDIA) | ..... |
| Fax No:0291-2727050 | ..... |
| Email-mat_rp@oilindia.in | ..... |

A Notice shall be effective when delivered or on the date as indicated in the Notice, whichever is later.

**END OF SECTION-III**

**SECTION – IV**

## SCOPE OF WORK/SPECIAL CONDITIONS OF CONTRACT(SCC)

**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.**

1. **SCOPE OF WORKS:** The primary scope of the work is construction of **Housing Complex in Baghewala Field**. The works under this contract shall include project management but not limited to providing labour, tools and plants, machineries, transport and all other components viz. Civil, Electrical, Plumbing, Sanitation, Landscaping, Fire safety, IT and LAN related services and other related works up to the finishing so as to render it readily habitable except soft furnishing, including supply of all materials (unless otherwise mentioned specifically.)

2. **SITE LOCATION:** The site is located at 27°48'39.46"N, 71°54'44.61"E, inside the premise of BGW#6, in Baghewala Field (Jaisalmer District) of Oil India Limited.

3. **DURATION OF AGREEMENT AND WORK ORDERS:** The duration of the work shall be Two Years (2 years, i.e 24 Months) from the date of issuance Work Order.

4. **EXECUTION ON ITEM RATE BASIS:** The works shall be carried out by contractor on item rate basis in conformity with the detailed drawing, scope of work, technical specifications, special conditions of the tender documents (including any addition/modification/ alteration/deletion made from time to time therein found essential for completion of works) for civil and all other works unless otherwise specifically mentioned in the line item.

5. **VARIATIONS/DEVIATIONS IN ITEMS, SPECS. & QUANTITIES:** There is no limit in variation of the quantum or values of the individual items. The rates shall remain firm in all the cases. The Engineer-In-Charge (EIC) may increase or decrease the quantity of individual items to any extent based on costs and technical optimization or any other reason it shall in his opinion be desirable. The contractor shall be responsible for fair rates quoted against individual items irrespective of its quantity or its combination with other items. The rates are deemed to have sufficient profit margins, overhead, site conditions and other uncertainties factors in the project.

   The Engineer-In-Charge may discard any of the items having unreasonably higher rates quoted than the prevailing market trend and instruct for opting alternate deviated items from CPWD-DSR or partial substitution from the market or may go for separate third party independent procurements. The contractor shall not object to the decision in the pretext of gross loss or otherwise.

The Engineer-In-Charge may accept minor deviations in the item specifications provided the same is technically acceptable and financially not implicating significant changes in his/her opinion.
The Engineer-In-Charge may also discard any of the items without citing reasons to the contractor. The Engineer-In-Charge may also ask for the best quality materials amongst the approved list.
The contractor shall not contest to the above or ask for justification. The decision of the Engineer-In-Charge shall be final and binding on to the contractor.

6. **SCHEDULE OF RATES:** Payment shall be in actuals based on the prices mentioned in the Schedule of Rates of the Contract. The quoted rates shall be firm as stipulated in SoQ / Price Bid of this contract. All the rates shall deemed to be quoted after considering various factors such as site conditions, area remoteness, job scatteredness, socio-environment conditions etc. The works shall be carried out by contractor on item rate basis as per Price Bid / Schedule of Quantities (SoQ), in conformity with the detailed drawing, scope of work, technical specifications, special conditions of the tender documents (including any addition/modification/ alteration/deletion made from time to time therein found essential for completion of works as directed by Engineer-In-Charge) for civil and all other works unless otherwise specifically mentioned in the line items.
Items not listed is regular SoQ / Price Bid but necessary for execution of the works shall be based on CPWD-DSR 2023, to which the contractor shall not refuse. The payment rates for such items shall be adopted flat from the CPWD-DSR 2023 after deduction of flat 18% GST component and then added with contractor's quoted percentage % adjustment (markup/discount), but without adjustment for applicable Cost Index or otherwise. The formula for calculation shall be [Contract Rate = (DSR2023/1.18) x (100% +- quoted % markup/rebate)].

   The items specification shall be of nearest possible descriptions with the CPWD-DSR. The interpretation of similarity and decision thereon by the Engineer-In-Charge shall be final and binding.

   Items Rates directly adopted from CPWD DSR as per rate quoted in price bid shall be treated as part of Schedule of Quantity (SoQ), whereas all other non-scheduled rates (NS) shall be treated as supplementary or deviated items.

7. **RATES FOR SUPPLEMENTARY ITEMS:** Item deviations shall not be permitted in general. However, in case of unavoidable circumstances Engineer-In-Charge may advise for supplementary / deviated items as per job requirements. Such items shall be treated as Non-Scheduled (NS) and the rates shall be analysed as per CPWD's Delhi Analysis of Rates (DAR-2021) format where the input rates would be the actual cost incurred (without GST component) subject to furnishing of documentary evidences (genuine GST invoice wherever applicable). The basic rates and coefficient wherever applicable shall be as per DSR'2021 without any quoted percentage markup/discount if any. Any other latest schedule of rates (SoR) (e.g, CPWD DSR-Horticulture, Jodhpur PWD-BSR, CPWD DSR-Electrical etc) other than CPWD-DSR 2021(Civil) may also be used for payment under NS category, provided such item

rates are not readily available in SoQ/Price bid. No additional costs shall be added for royalty, octroi etc. shall be paid additionally

8. **DISCLOSURE OF INPUT COSTS:** The contractor may be asked for procurement details of some major items (e.g. cement, reinforcement, aggregates, masonry blocks, electrical, sanitary) or entire items of the project such as individual invoices of material procurement, source of procurement, transportation, manufacturer's details, materials details, testing certificates, details of wage payments to the work-site labourers etc. All original documents shall be maintained by the contractor, and a set of relevant copies self-certified by the contractor shall be submitted to the Engineer-In-Charge, as and when asked.

9. **PRICE VARIATION OVER TIME:** The rates quoted in the contract shall remain firm throughout the original contract period. However, if project is delayed inordinately for the reasons not attributable to the contractor directly or indirectly, other than Force majeure, Price Variation Clause (PVC) may be effected in order to protect both the parties from un-anticipated sharp inflation changes over long period. The contractor shall initiate claim if such variation exceeds more than 10% rise in CPI indices between contract signing month and 30$^{th}$months thereafter, at the time of actual execution { $(CPI_{30th\ month} - CPI_{agreement})/CPI_{agreement} x\ 100 > 10\%$ }.

   The contractor may be compensated with price difference flatly based on All India Consumer Price Index for Industrial Workers (CPI-IW) published by RBI / Labour Bureau, Govt. of India. The contractor shall not claim for any individual predominant materials price hikes, as the case may be.
   Such price variation shall be admissible only if the contractor did not delay directly or indirectly in any of the other activities or WBS (Work Breakdown Structure) elements during the gross period of execution. Also, the Contractor shall establish the loss incurred by way of Rate Analyses as per CPWD DAR-2023 format for all individual items; so as to compare with the contract SoQ rates. The Rate Analyses shall be substantiated with actual invoices for major materials. A flat lump sum compensation will be calculated as per the formula:

   **[Price Variation = Q x ($(CPI_{actual} - CPI_{agreement})/CPI_{agreement} - 10\%$ ],**

   Where,
   Q = Value of items /quantities executed after date of issuance of work
   $CPI_{actual}$ = All India Consumer Price Index (IW) during the month of actual execution.
   $CPI_{agreement}$= Consumer Price Index during month of signing contract agreement;
   If price variation clause is invoked by the contractor and if subsequently the Price Variation value when calculated with the same formula comes negative, then the same amount shall be deducted from the contractor's bills. Price variation if applicable shall be reconciled after completion of the project. This clause is not applicable for post commissioning operation and maintenance or rectification costs if any. Please note that Price variations due to change in statutory taxes/GST rates shall be dealt separately as per relevant clause in the contract.

10. **CONTRACTOR's RESPONSIBILITY IN UNDERSTANDING THE CONTRACT:** The contractor shall be deemed to have satisfied himself before tendering as to the sufficiency and correctness of his tender for the works and of the rates and prices quoted in the brief specifications, drawings, scope of work and payment (billing) schedule, which rates and prices shall, except as otherwise provided, cover all

obligations under the contract and all matters and things found necessary for proper completion and maintenance of the works. It shall be the responsibility of the contractor to incorporate the changes that may be different from the scope of work envisaged at the time of tendering and as actually required to be executed. The contractor has quoted his rates after clearly studying the scope of work given in Tender Documents availed by him by downloading from the website or made available to him at the tendering stage itself and getting fully satisfied with the various items and technical intricacies involved in the work under his scope of work as envisaged in the tender. OIL shall not entertain any claim of the contractor on account of error or omission by him in this respect.

**11. STATUTORY APPROVALS:** For obtaining all other statutory approvals during construction and thereafter, the contractor shall be responsible on behalf OIL or on his behalf unless otherwise parameters are fully dependent on OIL. Necessary liasoining to be undertaken wherever required with no extra claim. All the approvals shall be taken before the scheduled completion period and in any case before the work can be taken over.

**12. ORDER OF PRECEDENCE OF DOCUMENTS:** The following Additional Conditions of Contract shall be read in conjunction with General Conditions of Contract (GCC) and other conditions of the tender documents. In case of difference, contradiction, discrepancy, with regard to conditions of contract, Specifications, Drawings, Bill of quantities etc. forming part of the contract, the following shall prevail in order of precedence.

a) Work Order (for start and end dates)

b) Deviation Orders / Site Order Book

c) Schedule of Quantities /Descriptions in line items

d) Approved / Revised drawings/RFC Drawings

e) Field Test Reports

f) Statutory directives

g) Technical specifications in this contract

h) Special Condition of Contract.

i) Relevant B.I.S. Codes

j) Latest CPWD/Specifications

**13. SUB-LETTING OF SPECIALIZED JOBS:** Sub-letting of certain specialized items may be permitted with prior approval from the Engineer-In-Charge. However, responsibility in entirety shall always rest with the primary contractor in all respect.

The eligibility of nature of the specialized jobs and the nature of sub-contractor vendor (e.g., authorized service provider) shall be as decided by Engineer-In-Charge.

**14. FREQUENCY OF BILL PAYMENT:** The mode of payment may not be oftener than monthly. Payment of works will be made only when the Engineer-in-charge is fully satisfied with the quality and service ability of the works. Running Bills may not be processed unless substantial tangible jobs are completed, the assessment of such quantum shall rest with the discretion of the Engineer- In-Charge. Contractor has to submit their claimed measurement details (against completed payable items) in soft copy in spreadsheet (MS excel sheet) to the Engineer-In-Charge in the FORMAT of CMB (Computerized Measurement Book) as generally practised by CPWD or OIL Civil Engineering section. The measurement shall be verified jointly by the contractor and Engineer-In-Charge or his authorized representatives. Subsequently, contractor shall raise invoice against the undisputed measurements along with supporting documents if any for payments.

**15. COMMINUCATION FOR SITE WORKS:** In addition to usual written communication, the other mode of retrievable communication such as e-mail, instant messaging services etc. passed on to the contractor or his representatives shall deem to be valid instruction for the purpose of site related day-to-day activities. However, vital formal communications shall be by way of usual signed formal letters/documents only.

**16. SAFETY CODE**: Contractor shall adhere to safe construction practice and guard against hazardous and unsafe working conditions and shall comply with BIS guidelines (published in relevant IS codes), CPWD Safety code and any other safety directives issued by Engineer-In-Charge from time to time. Tool box meeting / safety briefing shall be conducted with work force before commencement of every hazardous works including works in heights.

**17. WATER DURING CONSTRUCTION:** The contractor shall arrange water fit for the purpose of drinking and construction at their own cost. Boring underground water may be permitted at site subject to permission from the statutory body and suitability of the water for drinking/construction purpose. i.e. as per IS 456-2000. The contractor has to arrange water which meets the IS 456-200 requirement for construction activity. For this purpose, the contractor may to arrange by themselves water supply from nearby IGNP canal at their own cost.Contractor shall install PVC storage tank of adequate capacity for drinking purpose. For construction purpose, construction of ground tank may be permitted at the site as approved by the Engineer-In-Charge. However, OIL may permit usage of water for construction activity from the water reservoir of BGW#6 in cases which it deems to be fit.

**18. ELECTRICITY DURING CONSTRUCTION:** The contractor will make his/their own arrangement for power supply. All the works of the contractor shall be done as

per Indian Electricity Act and Rules framed there under and approved by the Engineer-in-Charge. The temporary lines will be removed forthwith after the completion of the work or if there is any hindrance caused to the other work due to the alignment of these lines, the contractor will re-route or remove the temporary lines at his own cost. The power connection shall have valid permission from the concerned authority. Noiseless DG shall be arranged by the Contractor in case of non-availability of power supply at remote corners or otherwise. However, for minor works, the electricity may be provided from OIL subject to approval of Engineer-In charge and concerned Installation Manager.

**19. CONSTRUCTION PLAN TO BE SUBMITTED:** Contractor shall have to submit construction activity plan, list of manpower, material storage, Tower Crane position, vehicular movement plan, labour camp, water and electricity plan etc to OIL approval before issuance of Work Order. The plan is to be prepared to ensure the following and is to be applied effectively during the whole construction phase:

a) Demarcate area on the site plan to which the site activities would be limited during construction by the contractor. The demarcated area should be separated from the rest of the site through a physical barrier.

b) Construction materials such as sand, aggregate etc. to be stored in demarcated areas within low height enclosures to limit spillage, waste and site contamination due to winds.

c) Location should be identified on the construction site to store the used/scrap wastes. Both these wastes should be separately stored in Bins and handed over to authorized agencies for safe disposal.

d) Location for other ancillary set ups.

**20. ENGAGEMENT OF SPECIALIZED AGENCY:** The Contractor shall engage competent and experienced specialized agency (as the case may be) approved by OIL for execution of items like Electrical works, solar panel, etc. as required. The Contractor will submit the credentials of the specialized agencies for approval by OIL. However, the entire responsibility towards quantity and quality of the entire project including services shall remain with the main Contractor and no additional payment will be paid on this account**.**

**21. ENABLING WORKS:** Enabling works and other site arrangements shall not be payable. Enabling works shall be as directed by Engineer-In-Charge as per requirement of the project from time to time. The contractor shall comply without claiming for any compensation. Some of the enabling works are as tabulated below (Not exhaustive).

| **Sl** | **Description (Minimum requirement)** |
|---|---|
| 1 | **SITE OFFICE:** |

| | |
|---|---|
| | a) OIL personnel room BUNK-HOUSE (2 persons): 7.2sqm (carpet area), A/C, Table/Chair-2 set with other general office furnishing<br>b) Contractor personnel (10 persons): 20sqm (carpet area), cooler, Table/Chair-10 set with other general furnishing<br>c) Toilet Block: 6sqm (carpet area) WC cum bath – 2 set (unisex) with tiles, basins, mirror, health faucet and other standard fitting.<br>d) Kitchen/pantry: 5sqm (carpet area) having counter, sink-tap, LPG-burner set etc.<br>e) Desktop with 21" monitor, core i7 processor, 8 GB RAM<br>f) Multifunction printer: Laser jet<br>g) Broadband connection<br>h) Necessary signage with stiff framed flex prints. |
| 2 | **SITE LAB:**<br>i) 20sqm, cooler, Table/Chair- 1 set with other general furnishing |
| 3 | **CEMENT GODOWN:**<br>a) As per CPWD specification with minimum capacity of 600 bags with first-in, first-out provision |
| 4 | **ENVIRONMENTAL CONSERVATIONS, AIR AND SOIL POLLUTION CONTROL:**<br>a) Continuous PPGI barricading sheet with height 3.0m all around the site area.<br>b) Erosion channel with mesh/bunds and sedimentation tanks during monsoon to prevent site erosion or to reduce movement of soil outside during the project.<br>c) Acoustic diesel generator sets (complying CPCB norms), stack height 3 m from the top with a cap etc.<br>d) Vehicle wheel washing facility/gravel bed at all vehicular entrances/exits of the site.<br>e) Spill prevention plan/dyke walls for storage of hazardous items e.g., HSD, admixtures, bitumen etc. |
| 5 | **ACCOMMODATION –OIL PERSONNEL:** 1 No. of BUNK-HOUSE having arrangement of 2 beds, AC, fans, and attached toilet cum washroom facility. |
| 6 | **ACCOMMODATION – Contractor TECHNICAL PERSONNEL:** 3 Nos of 2 bed rooms with furnishing befitting and officer (Similar to Hotel Room) |
| 7 | **ACCOMMODATION LABOUR CAMP:** For 30 on-site resident labourers with amenities as per directives |
| 8 | **OTHER LABOUR AMMENITIES:** Canteen, Crèche, rest room etc as per government directives / CPWD GCC. |

| | |
|---|---|
| 9 | **AREA LIGHTING:** Adequate lightings with poles and LED lights sufficient lux required for construction during night. |
| 10 | **WATER STORAGE TANK:** Adequate UG (masonry with impervious layer) tank and PVC storage tanks with proper pumps, plumbing and fittings. |
| 11 | **MANNED SECURITY GATES (24 Hrs):** Proper Security hut security in shifts. |
| | *NB:*<br>1. *The size, arrangement, specifications, list of item etc. may vary with layout as approved by the Engineer-In-Charge.*<br>2. *In case of non-compliances on any of the above requirements by the contractor within 7 days of intimation, the Engineer-In-Charge may engage any available third parties on nomination basis (without going through public procurement method) at the cost and risk of the contractor, whose payment shall be made by the contractor or recovered from the contractor's payment/ PBG.*<br>3. *No additional payments will be made to the Contractor for providing the above-mentioned amenities at the site. Therefore, the Contractor should factor these costs while quoting.* |

**22. WORK IN MONSOON AND SUMMER:** The Contractor must maintain minimum labour force as may be required for the job and plan and execute the construction and erection according to the prescribed schedule. No extra rate will be considered for such work in monsoon. During monsoon and other period, it shall be the responsibility of the Contractor to keep the construction work site free from water logging at his own cost.

During summer heat, the contractor shall ensure necessary safety measures to protect the workers from extreme heat including measures against heat waves (loo) and other heat-related conditions.
In case of works stoppage on account of above, the cause and duration shall be recorded in the Hindrance Register duly countersigned by the Engineer-In-Charge for validation.

**23. WORKING PERIOD AND SHIFTS:** The working time at the time of work is 48 hours per week. Over-time work is permitted in cases of need; however OIL shall not compensate the same in any manner. Shift working up to 2 shifts per day will be operated whenever necessary to commensurate the work progress. The contractor shall take this aspect into consideration for formulating his rates in the bid. No extra claims will be entertained on this account. The contractor must arrange for the arrangement of workers in such a way that delayed completion of the work or any part thereof for any reason whatsoever will not affect their proper employment. OIL shall not entertain any claim for idle time payment whatsoever. For carrying out critical work on Sundays and holidays, the Contractor shall approach the Engineer-in-Charge or his representative at least two days in advance and obtain permission in writing.

**24. SETTING OUT WORKS:** The Engineer-in-Charge shall furnish the Contractor with only the corners of the work site land plots and a level benchmark. The Contractor shall set out the works and shall provide and efficient staff for the purpose and shall be solely responsible for the accuracy of such setting out.

The Contractor shall/provide, fix and be responsible for the maintenance of all stakes, templates, level marks, profiles and other similar things and shall take necessary precautions to prevent their removal or disturbance and shall be responsible for the consequence of such removal or disturbance should the same take place and for their efficient and timely reinstatement. The Contractor shall also be responsible for the maintenance of all existing survey marks, boundary marks, distance marks and centre line marks, either existing or supplied and fixed by the Contractor. The work shall be set out to the satisfaction of the Engineer-In-Charge. The approval thereof or presence of OIL personnel in setting out the work shall not relieve the Contractor or any of his responsibilities.
Before beginning the works, the Contractor shall at his own cost, provide all necessary reference and level posts, pegs, bamboo, flags, ranging rods, strings and other materials for proper layout of the work in accordance with the scheme for bearing marks acceptable to the Owner. The Centre, longitudinal or face lines and cross lines shall be marked by means of small masonry pillars. Each pillar shall have distinct marks at the centre to enable a theodolite to be set over it. No work shall be started until all these points are checked and approved by the Engineer-in-Charge in writing, but such approval shall not relieve the Contractor of any of his responsibility. The Contractor shall also provide all labour, material and other facilities, as necessary, for the proper checking of layout and inspection of the points during construction. Pillars bearing identification marks located at the sites of units of works under construction should be protected and fenced by the Contractor.

**25. RESPONSIBILITY FOR LEVEL AND ALIGNMENT:** The Contractor shall be entirely and exclusively responsible for the horizontal and vertical alignment, the levels and correctness of every part of the work and shall rectify effectually any errors or imperfections therein. Such rectifications shall be carried out by the Contractor, at his own cost, when instructions are issued to that effect by the Engineer-in-Charge.

**26. COORDINATION AMONGST VARIOUS WORKS:** There will be instances where more than one agency is working at the same time at the site. The contractor shall at all times remain bound to co-ordinate with the agencies, deployed for the above works, including providing free access and making required provisions for them in execution of works pertaining to their portion of works. He shall also remain bound to ensure uninterrupted progress of work by these agencies in a peaceful and smooth manner. He shall also remain bound to make the required changes / additions / alterations in the works done by him to accommodate the items under the scope of work of such other agencies deployed by OIL. The contractor is deemed to have made the estimated allowances in this respect while quoting his rates at the tendering stage.

**27. TECHNICAL SPECIFICATIONS:** All the materials, workmanship, methodology or any other parameters shall be as per latest IS Codes published by BIS or CPWD specifications or approved manufacturer's standard recommendations (in the order of preference) unless otherwise mentioned in this contract. Interpretation and

direction of the Engineer In-Charge shall be final and binding on the contractor. The contractor or their representative shall not contest on technical requirements.

All materials to be used for the jobs shall be shown to the Engineer-In-Charge for quality checks/inspection followed by approval for utilization. Materials rejected by the Company must be removed by Contractor from work site within 48 Hrs. of rejection, failing which the Company reserves the right to get the rejected materials removed under risk and cost of the Contractor.
For the items where scope of design rests with the contractor, the overall allowed dimensions for the designs may be restricted within certain limits depending upon the site conditions. Rooftop Solar Panel installation may have to be installed in landscape pattern, at elevated frames above terrace so as to allow free human passage below the panels, and also have minimum projection height for aesthetic and statutory reasons. Similarly, substation room size (if any), the sizes of panels and other equipment shall be optimally sized, so as to cover minimum footprint.

**28. DEFECT LIABILITY:** The defect liability for the property and all the items shall be 12 months from the date of actual completion or end of Work Order period whichever is later unless otherwise specifically mentioned. However, in case of specialized items where such period mentioned/requirement is higher than 12 months, higher period will be applicable.

**29. LIQUIDATED DAMAGE (LD):** Time is essence of contract. 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 0.5% 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 0.5% per week of delay of the total contract cost subject to a maximum of 7.5% of total contract cost.
The certificate by Engineer-In-Charge 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.

**30. PENALTIES AND RECOVERIES (IN ADDITION TO LD):** Apart from Liquidated Damages, penalties and recoveries may be levied on various ground as mentioned below:

| Sl | Description | Recovery |
|---|---|---|
| 1 | Recoveries for direct or indirect damages to OIL's property, assets or services etc if not corrected by the contractor or any works / material supply through third party due to non-compliance by the contractor. | Value assessed by OIL + 20% mark up (In case of disagreement, the contractor may appeal OIL for further review with his valuer representative) |
| 2 | Non deployment of requisite Technical | As per relevant clause |

| | | |
|---|---|---|
| | Manpower | |
| 3 | Non Deployment of Tools and Plants | As per relevant clause |
| 4 | Non Deployment of Lab and office equipment | As per relevant clause |
| 5 | Non-compliance to the safety guidelines. Absence of proper staging/scaffolding, safety net, non-conducting of Helmet, harness, lifeline, safety shoes and other PPE | Rs. 1,000 (One thousand) for each instance of lapse. Penalty to be levied with written warning by EIC with photographic evidence wherever applicable. This shall be at the discretion of the EIC. |
| 7 | Non adherence to Housekeeping after first instruction. | Rs. 500 (Five hundred) for each instance of serious lapse as decided by EIC. Penalty to be levied with written warning by EIC with photographic evidence wherever applicable. |

**31. MINIMUM TOOLS, PLANT AND MACHINERIES:** The list of minimum tools, plant and machinery to be provided by the contractor during the execution of the project. The deployment of such equipment shall be within 14 days of intimation to the contractor. Non-deployment of the equipment within stipulated time may invite penalty equivalent to daily/hourly rental for the delay period which shall deducted from the bill as deemed by Engineer-In-Charge. The rental for this purpose shall be as per CPWD basic rates or prevailing market rate (based on single quotation collected by Engineer-In-Charge with or without intimation to the contractor) whichever is higher.

**LIST OF MINIMUM TOOLS, PLANT AND MACHINERY**

| Sl | Description | Quantity | Period |
|---|---|---|---|
| 1 | Total station | 1 No | Whenever instructed |
| 2 | Auto-level and accessories | 1 No | Full time |
| 3 | Silent DG set up to 250 KVA | As required | Whenever instructed |
| 4 | Fully automatic Batching Plant for RMC, capacity 30 cum per Hr, Concrete pump, boom pump | 1 set | For all building RCC |
| 5 | Welding machine set | As required | Whenever instructed |
| 6 | Back Hoe loader (JCB) | As required | Whenever instructed |
| 7 | Diesel concrete mixer with hopper (Full bag capacity) | 2 Nos | Whenever instructed |
| 8 | Pickup/Utility vehicle + Two wheeler | 1 set | Full time |
| 9 | Water Tanker | 1 No | -do- |
| 10 | Steel cutting & bending machine | 5 Nos | Whenever instructed |
| 11 | Tower Crane Min 20m ht. and 20m cantilever | 1 No | Whenever instructed |
| 12 | Transit concrete Mixers | 2 nos. | During concreting works |
| 13 | Formwork/shuttering (aluminium/steel/plywood) | 3500 sqm | During RCC works |
| 14 | Steel treaded props / cup lock scaffolding/Net | 3500 sqm | During RCC works |
| 15 | Stair Tower/ Access scaffold up to 10m | 2 Sets | Super structure works |
| 16 | Needle vibrators | 12 nos. | During RCC works |

| | | | |
|---|---|---|---|
| 17 | Plate vibrators | 8 nos. | During RCC works |
| 18 | Tractors with trolley | 2 nos. | Whenever instructed |

Note:

(a) The quantities and list of equipment mentioned above are tentative and can be increased/ amended as per the requirement of work OR as per the direction of Engineer-in-Charge. The contractor has to deploy all the required equipment to complete all the works within stipulated specifications & time period as contract documents.

(b) Use of Ballies, bamboos, dented forms or any other traditional forms, shuttering/props/ staging etc. shall not be allowed at the site.

(c) Contractor will not be allowed to take out equipment from the site without the written permission of Engineer-in-Charge.

**32. INSURANCE:** The contractor shall arrange at his own cost 'Contractor's All Risk' (CAR) Policy and any other policy pertaining to the project for value and coverage as deemed necessary by Engineer-In-Charge. The other insurance clause mentioned in GCC are not applicable for this job.

**33. TECHNICAL MANPOWER:** The contractor shall depute the minimum set of technical manpower within 10 days of issuance of formal Work Order (in case of full time personnel) or after instruction issued by Engineer-In-charge (in case of part time personnel). The contractor shall submit the resumes and credential certificates against all the personnel and shall maintain register, including entries in EPF and other statutory compliances. The contractor should ensure to the extent possible that same engaged personnel remain till end of the project. In exceptional case of repatriation, the contractor shall ensure replacement personnel immediately within next day. Penalty shall be levied on per day basis for non-deployment of the above manpower after cut-off date as instructed by the Engineer-In-Charge. One day weekly off shall be permitted in staggered manner with roster as approved by Engineer-In-charge. However, weekly one rest days and holidays maximum up to 10 days during the year against a designation may be exempted from penalty unless otherwise job exigency arises as deemed by Engineer-In-Charge. The personnel shall be available during all shifts of working time. The above shall not absolve the obligations of the contractor. All risks and liability shall remain with the contractor.

**LIST OF MINIMUM TECHNICAL MANPOWER**

| Sl | Designation/Qualification | Nos | Penalty for non-deployment |
|---|---|---|---|
| 1 | Project Manager (Full time): Diploma/Graduate in Civil Engg. + 8-year experience | 1 | INR 3000/- per day |
| 2 | Civil Engineer – Supervision, Quality Control,Monitoring & Measurements (Full time): | 1 | INR 2000/- per day |

| | | | |
|---|---|---|---|
| | Graduate in Civil Engg + 5-year experience | | |
| 3 | Electrical Engineer (Full time): Graduate in Elect Engg. + 3-year experience. | 1 | INR 1250/- per day |
| 4 | Supervisor cum Lab assistant (Full time): Diploma in Civil Engg+ 5-year experience | 1 | INR 1000/- per day |

Note:

(a) Experience means post-qualification relevant experience as approved by Engineer-In-Charge.

(b) Bidder has to take into account the expected revision of wages during the contract period while quoting against the tender.

(c) In case of non-deployment of manpower as per above for more than 10 days at a stretch, action shall be initiated as per clause no. 33 of this section (Section-II, SCOPE OF WORK/SPECIAL CONDITIONS OF CONTRACT FOR CIVIL WORKS).

**34. QUALITY CONTROL / TESTS:** Quality control shall be monitored from time to time during the works execution. Various Lab / field tests as directed shall have to be performed by the contractor without any extra cost to the company. The necessity, types and frequency of such tests shall be at the discretion of the Engineer-In-Charge which he/she considered necessary based on the factors such as job nature of items, workmanship, quantum of the items etc.

**LIST OF MINIMUM MEASURING, MONITORING AND TESTING EQUIPMENT**

| Sl. | Description | Qty |
|---|---|---|
| 1 | Compressive Testing machine (100 Tons) | 1 no |
| 2 | Digital Weighing Machine (0-5 kg) | 1 no |
| 3 | Slump test apparatus | 2 nos |
| 4 | Set of sieves for grading of coarse aggregates | 1 set |
| 5 | Set of sieves for grading fine aggregates | 1 set |
| 6 | Electrically operated oven (300deg Centigrade) | 1 no |
| 7 | Sampling Trays | 1 no |
| 8 | 150X150X150 IS marked Cube Moulds | 18 nos |
| 9 | Measuring Cylinders - 1000ml,500 ml,100 ml | 1 set |
| 10 | Wash Bottles, Capacity 500 ml | 1 set |
| 11 | Rebound hammer | 1 set |
| 12 | Industrial Thermometer | 5 Nos |
| 13 | Vernier calliper | 2 set |
| 14 | Screw gauge | 3 set |
| 15 | 3m, 5m 30m 50m tape and steel rules | 1 set |
| 16 | Cores Apparatus for conducting Proctor Density Tests | 1 set |
| 17 | TDS Meter | 1 no |

(a) The quantities of equipment indicated are tentative and can be increased as per the requirement of work OR as per the direction of Engineer-in-Charge. The

above equipment list is indicative and not complete. The contractor has to deploy all the required equipment to complete all the works within stipulated specifications & time period as contract documents.

(b) The contractor will not be allowed to take out equipment from the site without the written permission of Engineer-in-Charge.

(c) The equipment installed in the laboratory must be calibrated and the contractor is responsible for recalibrating it at his own cost as and when required.

(d) In addition to this, tests are to be performed in a third party Govt Approved/ NABL Accredited Laboratories as and when instructed by the EIC and the expenses to be borne by the Contractor.

**35. MANDATORY TESTS:** The contractor shall perform mandatory tests as per BIS / CPWD norms or as directed by the Engineer-In-Charge. These tests may be exempted for non-critical works irrespective of gross quantities and prescribed frequencies.

**36. SECURED ADVANCE:** Not applicable for this tender.

**37. PROJECT SCHEDULE AND TRACKING:** Party has to abide by the Gantt Chart uploaded by OIL along with the tender and the same has to be categorically confirmed by the bidder. This Gantt Chart may be reviewed with the successful bidder during kick-off meeting of the project and deviation to the extent of 5% may be allowed at the discretion of OIL. However, the entire project has to be completed within the specified time limit (24 months). Once the modified Gantt Chart is signed by both the parties, the progress of the project will be monitored as per this signed Gantt Chart and penalty will be applicable based on the signed Gantt Chart. The contractor shall execute the works so as to complete the works within the stipulated completion time for each and every individual activity as per the master GANTT CHART of OIL. **If the contractor fails to meet individual activity target completion as per master GANTT CHART (unless otherwise justified with sufficient acceptable ground), penalty shall be levied against each individual activity at the rate of 10% of the respective activity value, which shall be retained as provisional 'Retention money'.**

**38. ACTIONS ON NON-COMPLIANCE OF WORKS:** The contractor shall complete the work within the time specified by the Engineer-In-Charge failing which the company shall have the right to get the work done by any other means. Unless otherwise specified, such notice period shall be 7 days from the date of receipt of such instruction. In case the contractor exhibits:

a) Underperformance with slow progress

b) Delivering poor workmanship/materials

c) Non-compliance of the instructions

d) Abandons the Agreement

e) Any other disobedience affecting the interest of the job,

Then the Engineer-In-Charge shall have the right to get it executed through any other agency on behalf of the contractor on nomination basis at the risk and cost of the contractor. Such works through third party may be on higher than the contract rates, to which the contractor shall not have any claim whatsoever. The cost incurred by OIL for such works will be recovered from the outstanding bills of the contractor or from his security deposit with the Company.

**39. MEASURMENT:** Engineer-in-charge shall, except as otherwise provided, ascertain and determine measurement and the value in accordance with the contract work done. All measurement of all items having financial value shall be entered in Computerized Measurement Book (CMB) and/or level field book so that a complete record is obtained of all works performed under the contract. All site measurements wherever applicable shall be taken jointly by OIL and the contractor. Certain measurements such as reinforcement quantity, earth work in excavation/back fill, concrete volume etc shall be derived from the drawings unless deviation recorded/observed at the site by the Engineer-In-Charge. Contractor signing on the CMB or SES pages is deemed to be acceptance of the payable quantities. If the contractor or his authorized representative does not remain present at the time of measurements after the contractor has been given a notice of 1 day in advance or fails to countersign or to record objection within a week from the date of the measurement, then such measurements recorded in his absence by Engineer-In-Charge shall be deemed be accepted by the Contractor. The contractor shall, without extra charge, provide all assistance with every appliance labour and other things necessary for measurements and recording levels. All work to be measured as per latest IS standards with up to date corrections.

**40. DRAWINGS:** Proposed preliminary drawings such as Key Map, Plot Plan, Layout plans, Boundary Wall, Parking Plan, Terrace plan (for Roof top solar PV pant), Cable Trench routes, Foundation details, Beam Column frames with reinforcement details etc. The drawings in the tender documents are meant for broad initial visualization only by the contractor. The actual working drawings for site execution purpose shall be released from time to time with seal 'RELEASED FOR CONSTRUCTION' (RFC). There may be changes to any extent when compared with the initial drawings annexed in the tender document. The approved working drawings may also undergo multiple subsequent revisions.

**41. APPROVED MAKES/MODELS:**

The approved makes / models with sample picture for the project are as in ANNEXURE – I (Make). This list is not sacrosanct. The Engineer-In-Charge shall also have the discretion to adopt item from other makes not listed in 'Approved Makes'

but within the same range as, on finding better technical specification retaliation /reliability /suitability factors in the un-listed items.
From approved item list, irrespective of the market prices, the Engineer-In-Charge may ask for best of the options from amongst the approved list. Contractor is deemed to have quoted rates considering higher range products. On not finding satisfactory in quality at the time of execution, the Engineer-In-Charge may also discard/reject any of the items even though the same listed in approved make. At the time of execution, when an item is not approved by the Engineer-In-Charge on quality/technical ground, the contractor shall not insist on to supply such less costing inferior material as a matter of their contractual rights, even though the same was of approved make mentioned in this contract document.

**SPECIAL TECHNICAL CONDITIONS - CIVIL WORKS**

Unless otherwise specifically mentioned in SoQ or elsewhere in this contract, all the technical specifications shall be guided by:

**(1) CPWD SPECIFICATIONS 2019 (VOL. 1 & 2)**
Published DIRECTOR GENERAL, CPWD, New Delhi
For details visit:-https://cpwd.gov.in/

(2) Relevant **INDIAN STANDARD (IS) CODES** Published by Bureau of Indian Standards, New Delhi
For details visit:-https://bis.gov.in/

**Tentative List of Approved Makes/Models-(Annexure I )**

| Sl | Items | Approved Make/Model |
|---|---|---|
| 1 | **Portland Cement (OPC-43/PPC)** | UltraTech, ACC, JK Lakshmi, Shree, Dalmia, Ambuja,Wonder, Binani, Lafarge, India Cement, JSW, Jaypee |
| 2 | **TMT Steel** | Tata, Gallant, Vizag, Kamdhenu, SAIL , Jindal , Rathi, SRMB |
| 3 | **Structural Steel Sections** | Jindal,Tata, SAIL, JSW, Bhushan, RINL, ESSAR, |
| 4 | **Construction Chemicals** | FOSROC/BASF/SIKA/CICO |
| 5 | **Vitrified / Ceramic tiles** | Kajaria, Somany, Simpolo, AGL, HR Johnson, CERA, Nitco |
| 6 | **Acrylic Emulsion Paint** | Asian Paint (Apcolite) or equivalent from Berger, Nerolac |
| 7 | **Glass** | Saint-Gobain, Guardian Glass |
| 8 | **Glass Film** | 3M |
| 9 | **Tiles** | HR Johnson, Kajaria, Somany, AGL, Nitco, CERA |
| 10 | **False Ceiling/Partition** | Armstrong, Aerolite, Saint Gobain |
| 11 | **UPVC Windows** | OkoTech, Fenesta, Kommerling ,LG , Hausys |
| 12 | **Synthetic Enamel Paint** | Asian Paint (Apcolite) or equivalent from Berger, Nerolac |
| 13 | **Wall Putty** | Birla White, Asian Paint, Dr.Fixit, Dulux, JK Cement |
| 14 | **UPVC/CPVC Pipes & Fittings** | Astral, Ashirwad, Finolex, Apollo |
| 15 | **Acrylic Exterior Paint** | Asian Paint (Ultima Duralife) or Equivalent to Berger, Nerolac |
| 16 | **Parking Vitrified Tiles** | Kajaria, Somany, AGL, HR Johnson |
| 17 | **Aluminum Section** | Hindalco, Jindal, Nalco |
| 18 | **Bathroom Fittings** | JAQUAR, KOHLER, CERA, GROHE |
| 19 | **SS Hardware & Fittings for Doors/Windows** | Dorma, Godrej, Hettich, Ozone, Dorset, Harrison |
| 20 | **PVC Pipes & Fittings** | Astral, Ashirwad, Finolex, Apollo , Prince |
| 21 | **Lamination Sheets** | Merino, Greenply |
| 22 | **Modular Kitchen Accessories** | Sleek Modular Kitchens, Hettich, Häfele, Godrej Interio. |
| 23 | **Flush Door** | Century Ply, Duro, Alpro, Green Ply |
| 24 | **Prelaminated Particle Board** | Century ply, Eco board |
| 25 | **Modular Rainwater Harvest System** | Life Green System, RETAS Resplinida |
| 26 | **Elevator/Lift** | KONE, Schindler, Otis, Johnson |
| 27 | **UPVC Ball Valve** | Astral Pipes, Ashirwad Pipes, Finolex Pipes, Apollo Pipes |
| 28 | **Drapery Rods & Vertical Blinds** | Vista, MAC , Levolor |
| 29 | **Water Proofing Chemicals** | Dr.Fixit-Pidifin2k , Krystallin , LW+ or equivalent from Fosroc/BASF/Sika |
| 30 | **GI Pipes** | Tata, Jindal |
| 31 | **Polyethylene Water Tank** | Syntex Pure |

**Note:** Model / Make is subject to approval by Engineer-In-Charge at the time of execution, which may vary due to factors such as discontinuity of model, degradation of approved make/models by the manufacturers, availability of variants with same specifications at same price range etc. Unless otherwise, specifically mentioned by the contractor in the quoted rates, the Engineer-In-Charge may choose the best products from approved list. Make/model if already specified against respective items in SoQ shall supersede this table.

## Scope of work for Electrical Works

### 1.1 STATUTORY REQUIREMENT FOR WORK

1.1.1 The contractor should have valid Electrical Contractor License issued or recognized/endorsed by State Licensing Board. In case license expires during contract period the same shall be renewed by the contractor. The contract may be terminated if the license is not renewed.
1.1.2 In case the contractor/firm does not possess Electrical Contractor License, he/the firm may sign an MoU with another person/firm who/which possesses valid Electrical Contractor License issued or recognized/endorsed by State Licensing Board. In such a case, the partner having the valid Electrical contractor license shall be responsible for executing the electrical portion of the contract as per stipulations detailed in the tender.
1.1.3 Contractor shall employ work persons with valid wireman permit (covering relevant portions), issued/recognized by State Licensing Board to carry out all electrical jobs and shall deploy two supervisor holding valid Electrical supervisor's competency certificate (covering relevant portions), issued/recognized/endorsed by State Licensing Board for supervision of electrical jobs.
1.1.4 All the certificates/permits/licenses mentioned above shall be valid during contract period.
1.1.5 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.

### 1.2 POWER

Electricity required for wiring purpose shall be arranged by the contractor at their own cost. The Contractor shall have to ensure use of proper safety devices like RCBO/ELCB/RCCB while using their own Power supply. The Contractor shall use proper industrial type power extension board as required.

### 1.3 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. Makes of items shall be as per attached Make List only ("Annexure II"- for electrical items).

## 1.4 SCOPE OF WORK

Brief details of the 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 electrical 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, 2023. The work shall be done as described in the Schedule of Quantities (SOQ), specifications, and drawings, BIS/NEC guidelines and as per the instructions by the 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 scope of work shall consist of cost of all materials, labour transportation & Handling/supervision, installation, calibration, adjustments as required for commissioning of the sub-station. The term complete installation shall mean not only major item of the plant and the equipment covered by these specifications, but also incidental sundry components necessary for complete execution and satisfactory performance of installation with all labour charges, whether or not specifically mentioned in the tender documents, which shall be provided by the contractor at no extra cost.

The broad items/activities covered under "electrical works" shall include the supply, installation, testing and commissioning of any or all the following:

- SITC of DP Structure / LBS (for 11kV).
- SITC of HT Panel (VCB-11kV).
- SITC of Distribution Transformer(11kV/433V).
- SITC of Main LT Panel.
- SITC of DG Set with AMF Panel (200 kVA).
- SITC of HT & LT Cable.
- Earthing with GI Plate & Chemical.
- P&L of Earthing Strip.
- Internal & External Building Wiring.
- SITC of Street/Area lighting Poles with PCC collar with fixing of double brackets on pole where necessary & Lighting Fixtures.
- SITC of Split AC, Geyser.
- SIT of Indoor Lights, Wall Fan, Ceiling Fan, Exhaust Fan.
- SITC of UPS

## 1.5 Drawing & Documents

The following drawings & documents shall be prepared based on NIT's specifications and statutory requirements with complete BOM and shall be submitted after the award of the order and before supply for approval from the engineer in charge (Electrical) before starting of the civil work if associated with the concerned Electrical equipment/device.

### 1.5.1 Drawings to be submitted after order and before supply:

- General arrangement drawing of DP structure with Air break switch, HT panel, Transformer and LT panels, Earthing system, Cable route etc. including details of grouting of channels / bolts of various equipment.
- Layout diagram of complete wiring showing route for wiring from electrical panel to Main TPN DB to TPN/SPN DB, TPN DB to SPN DB, SPN DB to Switch Board, Light and ceiling positions etc. showing all roof/beam/wall route layout.
- Schematic diagram for complete electrical work.
- Cable layout between HT panel boards, transformers & LT panel etc.
- Details of foundations for the equipment.
- Details of HT/LT panels, Distribution Transformer, Diesel Generator Set as per technical specification mentioned in SCC/SOQ.
- All panels', Dist. Transformer, DG Set schematics & wiring diagram including control wiring.
- Detail technical literature and catalogue of Diesel Engine, transformer, Alternator.
- Any other drawing or data that may be necessary for the job along with complete bill of material must be submitted to OIL for approval.
- Recommended list of spares with part no. & price for maintenance of panels shall be provided with the supply (not considered for evaluation).
- The successful bidder shall obtain approval for drawings and documents. All electrical details shall be submitted within 45 days of award of work. OIL shall require minimum 30 days' time for approval of drawings. The approval time may increase depending upon clarifications required from the contractor.
- The manufacture of panel should start after approval of the drawings by OIL.

### 1.5.2 Documents to be submitted with supply:

- **HT Panel:**

i) Two sets of installation, testing and commissioning & operation manual of the Panel
and Vacuum Circuit Breaker (VCB).
ii) Two sets of literature of main components like protection & auxiliary relays.
iii) Two copies of as built general arrangement, schematic diagram and wiring diagrams.
iv) Two copies of foundation drawings.
v). Two sets of test report containing result of tests done at manufacture's work during inspection as per relevant IS.
vi) Recommended list of spares with part no. & price for maintenance of panel (not considered for evaluation).

- **Transformer:**

i) Thre sets of Manufacture's test certificates for all the components & assemblies as required by IS-2026 should be submitted to OIL along with dispatch of the materials.
ii) Three sets of General arrangement drawing of all the components & assemblies and wiring drawing.
iii) Three sets of Instruction manual for installation, operation, maintenance repairs and circuit diagram.
iv) Recommended list of spares with part no. & price for maintenance of transformer (not for evaluation).
v) Type test certificate for dry type Voltage transformer & cast resin type current transformer from NABL accredited laboratories or STL approved laboratories as per relevant IS shall be submitted with the supply.

### 1.5.3 Drawings to be submitted while handing over installation:

Two Sets of as built drawings comprising the following shall be submitted by the contractor while handing over the installation:

- Equipment layout drawing(s) giving complete details of the entire equipment.
- Electrical drawings for the entire electrical equipment showing cable sizes, equipment capacities, switch-gear's ratings, control components, control wiring etc.
- Schematic diagram of the entire sub-station installation, as built general arrangement, schematic diagram and wiring diagrams of HT/LT Panels, Dist. Transformer, DG Set.
- Two sets of installation, testing and commissioning & operation manual of the HT/LT Panel, Dist. Transformer, DG Set and Vacuum Circuit Breaker (VCB).
- Two sets of test report containing result of tests done at manufacture's work during inspection as per relevant IS.
- Recommended list of spares with part no. & price for maintenance of panel, DG Set, Dist. Transformer, DP Structure (not considered for evaluation).

- Type test certificate for dry type voltage transformer & cast resin type current transformer from NABL accredited laboratories or STL approved laboratories as per relevant IS shall be submitted with the supply.

The bidder shall furnish along with the bid the dimensional drawings of the items offered indicating all the fittings.

- Dimensional tolerances.
- Weight of individual components and total weight.
- An outline drawing front (both primary and secondary sides) and end-elevation and plan of the tank and terminal gear, wherein the principal dimensions shall be given.
- Typical general arrangement drawings of the windings with the details of the insulation at each point and core construction of transformer.
- Typical general arrangement drawing showing both primary and secondary sides and end- elevation and plan of the transformer.

The contractor shall submit 2 copies of AS BUILT layout drawings to OIL after completion of the work. These complete drawings shall give the following information:

- Layout of all equipment, switch boards, DB's etc.
- Location of DB's, Sub-mains, junction boxes & earthing (floor-wise)
- Schematic diagram for overall electrical distribution
- "As-Built" Layout of lighting & power wiring: Complete wiring showing route for wiring from electrical panel to VTPN DB to TPN/SPN DB, TPN DB to SPN DB, SPN DB to Switch Board, Light and ceiling positions etc. showing all roof/floor/beam route layout
- Cable schedule
- Operation & Maintenance Manuals for equipment if any
- Manufacturers' test reports & data sheets for equipment if any
- Electrical test certificate for the electrical work done as per CEAR, 2023

**1.6 Factory Inspection:-**

- INSPECTION of LT Panels, Distribution Transformer, HT VCB, DG Set
- All the routine tests and special tests as per relevant IS are to be carried out in presence of OIL's Engineer at manufacturer's works. The contractor will give

intimation to OIL 15 days advance prior to commencement of tests so that OIL can depute representative for witnessing tests in time.

- The LT Panels, Distribution Transformer, HT VCB, DG Set shall be cleared for dispatch only if the test results comply with the specifications and testing results are within the tolerance limits.
- Materials / equipment failed to conform to the specifications/during testing, OIL's representative shall have the right to reject the materials, and, in that case, the contractor will either replace the rejected materials or make alterations necessary to meet specifications requirements free of costs.
- Inspection of DG Set with AMF Panel
  i) All the routine tests and special tests as per relevant IS are to be carried out in presence of OIL's Engineer at manufacturer's works. The contractor will give intimation to OIL 15 days advance prior to commencement of tests so that OIL can depute representative for witnessing tests in time.
  ii) The DG set with AMF panel shall be cleared for dispatch only if the test results comply with the specifications and testing results are within the tolerance limits.
  iii) Materials / equipment failed to conform to the specifications/during testing, OIL's representative shall have the right to reject the materials and in that case, the contractor will either replace the rejected materials or make alterations necessary to meet specifications requirements free of costs.

**1.7 Dispatch, Insurance & Storage:-**

- The contractor shall commence work as soon as the drawings submitted by the contractor are approved. Safe custody of all machinery and equipment supplied by the contractor shall be his own responsibility till the final taking over by OIL.
- All consignments are to be duly insured up to the destination from the point of dispatch at the cost of the contractor. The insurance cover shall be valid till the equipment is handed over duly installed, tested and commissioned. The equipment on site must be stored securely by the contractor till it is given to the OIL. The contractor must make the necessary arrangement to prevent theft/pilferage.

**1.8 GUARANTEE:-**

The contractor shall guarantee the entire sub-station installation as per specifications. All equipment shall be guaranteed for one year from the date of acceptance of the substation by OIL. The installation shall be covered on the condition that the whole installation or any part that is found defective within one year from the date of acceptance should be replaced or repaired by the contractor free of charge as decided by OIL. The warranty shall cover the following: quality, strength and performance of materials used.

(1) Safe mechanical and Electrical stress on all parts under all specified conditions of operation.

(2) Satisfactory operation during the maintenance period.

(3) Performance figures and other particulars as specified by the bidder under schedule of guaranteed technical particulars.

### 1.9 Warranty:-

The goods/equipment shall be of the best quality and workmanship. HT/LT Panels, Distribution Transformer, DG set and all their components shall be guaranteed for twelve (12) months from the date of commissioning against defects arising due to material, workmanship or design. The party shall agree to replace/repair the defective components at their cost during the guarantee period.

### 1.10 CONFORMITY WITH STATUTORY ACTS, RULES, REGULATIONS, STANDARDS AND SAFETY CODES:-

i) Indian Electricity Act,1956
ii) CEA (Measures relating to Safety & Electricity supply) Regulations, 2023
iii) Relevant Indian Standards
iv) Any other Act or Rules in force.

## 2. TECHNICAL SCOPE SUBSTATION (HT PANEL, LT PANEL, TRANSFORMER, CABLE, 2 POLE STRUCTURE/LBS)

Description:
These general specifications cover the details of substation building and Substation Equipment (Transformers, HT Panels, LT PANELS, HT and LT cables, Cable termination kits, 2 pole structure/LBS, other related items, Plate earthing material with Chemical, Cable marking etc.) to be supplied, inspected as may be necessary before dispatch, delivery at site, installation, testing, commissioning, putting into operation and handing over in working condition all the equipment of the substation of working voltage 11000/415 volts.
A sub-station installation work shall generally comprise of supply, installation, testing and commissioning of the following:
a) D.P. Structure with AIR BREAK SWITCH /LBS
b) HT Panels(VCB).
c) OIL type Transformers complete with associated auxiliaries as specified.
d) HT and LT cables.
e) LT Panels.
f) Earthing system.
g) Safety Equipment.
h) Miscellaneous items.

### 2.1. HT PANEL (11 KV VACUUM CIRCUIT BREAKER)

**Supply, installation, testing and commissioning of 11 KV VCB Panels: 1 No.**

Supply of 11KV 630/A VCB Indoor type panel HT board, freestanding motor operated & withdrawal type fabricated from 2 mm thick CRCA sheet steel, With Ammeter, Voltmeter, PF Meter, KWH Meter, MDI Meter, Selector Switches as required, CRT-CT (protection-200/ 5A 15VA; Cl-1.0 & Measuring 400/5A 15VA Cl-1.0), PT (11KV /110V/√3), Fuses, IP42 Protection Cl 4-window Annunciation Panel, AC/ DC Control voltage 24/48/ 110/230V, LED Indication lamps, S/C, O/C & E/F Protection (IDMT) Relays Alarm & trip contacts for Transformer protection (high winding temperature) etc. complete in all respect in order to ready to use.
This specification covers 3-pole, 50HZ, 11KV vacuum circuit breaker for indoor type.

- **APPLICABLE STANDARDS:**

Unless otherwise modified in this specification, the vacuum circuit breakers shall comply
with the following Indian standards as amended from time to time:
IS-2516: Circuit Breakers
IS-3156: Voltage Transformers
IS-2705: Current Transformers

- **RATED VOLTAGE:**

The rated voltage for the circuit breaker shall be 12KV. This represents the highest system voltage corresponding to the nominal system voltage of 11 KV. Withstand voltage – 75 kV, Withstand current - 32 kA, IP Rating - IP33

- **RATED CURRENT:**

The standard rated normal current shall be 630A.
The bus-bar rating of the indoor type VCB shall be 800A.

- **RATED SHORT-CIRCUIT BREAKING CAPACITY:**

The effective value of the rated short-circuit breaking current shall be 26.3KA.
The value of D.C component shall be calculated in accordance with the recommendations contained in IS 2516

- **RATED SHORT-CIRCUIT MAKING CAPACITY:**

The rated short-circuit making current of the circuit breakers shall be taken as 2.5 times
the rms value of the AC component of the rated short-circuits breaking current.

- **TECHNICAL SPECIFICATION OF 11 KV SINGLE PANEL VCB**

- <u>CUBICLE AND CIRCUIT BREAKER DETAILS:</u>

  Cubicle & breaker and their accessories for 11KV, indoor VCB panel should be fully factory built and assembled for direct installation. Designed, manufactured and tested in accordance with Is-123118, 14658, 2071 3427 & IEC-60056/60298 and having following specifications. Circuit breaker & cubicle must have CPRI test certificate for design and performance as per above standards.

- <u>CUBICLE:</u>

The horizontal draw out and horizontal isolation type circuit breaker cubicles should be fabricated using high quality sheet steel of minimum thickness 2.5mm as per IS. The sheet metal should be given minimum seven tank anti corrosion treatment & then powder coated.

The totally metal enclosed panel shall be compartmentalized with internal positioning of insulated material of epoxy reinforced fiber glass to provide the following:
a) Bus bar compartment.
b) Circuit Breaker Compartment.
c) CT and Cable Compartment.
d) Relay & Metering. compartment (L T Chamber).

- The L.T chamber of suitable height shall be separated and suitably mounted on frame for ease of testing and· maintenance. Auxiliary controls, protective relay and measuring equipment along with the switches and indications are to be accommodated in the L. T. chamber. Three nos. of bright steel hinges shall be used on front door with door opening limited tom 135 Degree (approx.). All devices in the L T box are to be marked with permanent labels. Panel rating plate shall be provided on the door.

- Bus bar shall be rectangular in cross section and made from electrolytic grade electro tinned copper having 99.99% conductivity. Busbar current rating shall be 800 Amp and Fault rating-26.3kA (Breaking). Heat shrinkable sleeve insulation of 11 KV voltage grade should be provided on busbar and its risers. Busbar arrangement should be such that in future similar cubicles can be connected sidewise with this cubicle.

- Cast epoxy insulator supports for busbar & cable termination links designed to withstand full short circuit current at specified fault level for minimum 3 seconds shall be provided.

- The circuit breakers shall be mounted on horizontal draw out truck. The circuit breaker truck should have horizontal isolating system.

- The front door shall have view glass to facilitate observation of mechanical ON/OFF indication and operation counter.

- The draw out truck shall have the following positions

  a) Isolated
  b) Test
  c) Service

- The CT and the incoming cable compartment shall be in the rear. The outgoing cable compartment shall be provided on the back side. The L T control cable terminal arrangement shall be provided in the rear side and in a separate box so as to have isolation from high voltage terminals. All the cable entry plates shall have removable gland plates.

- The CT required for metering and protection shall be as per IS-2705 & shall be sized adequately and its insulation will be epoxy cast type. Metering CT 15V A, Class-5P10, ratio 30-60/5. Protection CT, 15VA, Class-5P1O, Ratio- 30-60/5. Short time rating -32KA for minimum 1 sec.

- PT shall be epoxy cast resin type & as per IS-3156. PT should be horizontal draw out type Ratio 11 kv/ 11OV (phase to phase), 1OOVA & protected with HRC fuse on both HT & L T side.

- Panel shall have proper protective earthing terminals for connection to external earth straps.

- Earthing connection between truck and cubicle shall be provided by means of sliding contact. The truck earthing should be arranged in such a way that the truck is earthed in isolated position when inserted. While the truck is being withdrawn, the earthing connection shall not be interrupted until the truck has moved past the isolated position.

- The following minimum safety interlocks shall be provided:

a) The truck cannot be moved from test to service position or vice versa, when the CB is ON.
b) The CB cannot be switched ON when the truck is in any position between test and service.

- The following minimum safety devices shall be provided to ensure the safety of operating personnel

a) Individual explosion vents for Bus bars/Breaker/Cable and CT chambers on the top of the panel to let out the gases under pressure generated during unlikely event of a fault inside the panel.
b) Front door/panel sides to be pressure tested to withstand arc faults.
c) CB and metal enclosure earthed in accordance with latest IS published by BIS(IS-2516, part- 1, section-I)
d) Self operating shutters, shielding live fixed contacts, shall be provided which closes automatically when truck is withdrawn to test position. Locking arrangement should be provided for the shutters.

- Control wiring and CT wiring shall be done using single core, PVC insulated, stranded copper cable of 11 OOV grade and 2.5 sq. mm. size. All cables and wires shall be numbered with suitable ferrules. Suitable lugs shall be used for control wiring and ring type lugs shall be used for CT wiring. All wires shall terminate on suitable Terminal Blocks. All TBs shall have 10% spare terminals. TBs shall be marked. Reinforced flexible conduit shall be used for wiring and PVC spiral shall be provided on exposed wires near the door hinge in L T box. Colour coding of control cables shall be followed as required by ISI. Control cables shall be approved by IS-694.

- Panel shall be provided with space heaters and adjustable thermostats of suitable rating along with protective HRC fuses and ON/OFF switch.

- Lifting hooks shall be provided for the panel.

- The switchgear panels shall have the following identification markings in a proper way in permanent manner:

  a)Panel name in front and rear.
  b)Caution and danger board in front & rear.
  c) CT specification name plate on CT and at panel cover at rear.
  d) Incoming & outgoing cable box.

- Insulation system of the cubicles should withstand extreme humid condition and suitable for use under site condition.

- <u>PANEL EQUIPMENT AND ACCESSORIES:</u>

  - MC type Ammeter 144 x 144 mm size dual scale 0-30/60A for line current measurement. Accuracy- 1%.

  - MC type Voltmeter 144 x 144 mm size., scale O-l5kV for line Voltage measurement. Accuracy- 1%.

  - Digital type KWH Meter with additional facility for showing current, voltage, PF, MDL Meter approved by IS or IEC for performance and safety. Meter shall be suitable for operation in tropicalized environment with 40o C temp and 90% humidity. Make:

  - Ammeter and Voltmeter Selector switch : I no. each

  - Trip circuit check push button.

  - LED type Indication lamp for:

    - CB Close,

    - CB open,

    - Trip on fault,

    - Trip circuit healthy.

    - Spring Charged. LEDs to be LVGP.

  - Breaker closing and tripping switch: For closing and tripping through 110V DC closing and 110V DC shunt trip coil.

  - Control supply shall be taken from the PT through suitably rated Power Pack having following specifications:-

- 11OV AC input supply to the power pack shall be taken from PT output.
- 3 phase rectifier with 800 PIV shall be used in power pack.
- Surge suppressor suitable for numeric relays shall be provided in the power pack.
- Power pack shall be protected through suitable input HRC fuses.
- Battery shall be provided in the power pack to provide DC power for 30 minutes after incoming power failure.
- Suitable filters should be provided in the power pack to give ripple free DC output for reliable relay operation.

- One no. combined Numeric relay for overload, short circuit and earth fault protection of transformer. Type: Micom 122 of Schneider make or equivalent.
- Auxiliary relays for sounding alarm and tripping of VCB panel in case of transformer fault. One buzzer type alarm shall be provided in the panel.
- Trip circuit supervisory relay- 1 No. Schneider make.
- One set of operating handles for manual spring charging and breaker racking in/out.
- The handle should have Auto, Manual, Off & Trip positions clearly indicated.

- **SITE CONDITION:**

1. a)Maximum Ambient air temperature - 55°C
b) Minimum Ambient air temperature - 2°C
2. Maximum humidity at site ( at 40 °C) - 60%
3. Surrounding atmospheric condition – Dry
4. Site altitude (above sea level) - 231Metre (approx.)
5. Seismic design co-efficient - As per 1983
6. Rainfall: 360mm annually (approx.)

- **CIRCUIT BREAKER:**

The breaker used shall be three pole VACUUM CIRCUIT BREAKER having the following features:
a. Draw out type with Horizontal Isolation mounted on truck with rollers.
b. Truck cover with two handles and fixed to truck frame with four screws.
c. Truck earthing with welded boss.
d. Insulation bushings shall be epoxy cast resin type and suitable for ambient conditions.

e. Bushings shall have suitable silver coated, flower contacts for firm connection.
f. Manual & motor operated spring charging system.
g. 11 kV, Three pole, 800A continuous rating, 32kA fault level.
h. Auxiliary contacts (6 NO + 6NC ).
i. Operation counter of 5 digits.
j. Mechanical endurance of 50,000 (minimum) operations.
k. Mechanical ON/OFF indication.
l. Spring FREE/ CHARGED indication.
m. Position indicator : SERVICE/ TEST/ ISOLATE.
n. Low maintenance.
o. Manual ON and TRIP button.
p. Operating sequence: 0: 0.3 min ; CO : 3 min ; CO.
q. Shunt trip coil, closing coil: 110V DC rated.

- **CABLE TERMINAL BOX:**

HT cable boxes with termination links for termination of incoming and outgoing HT cables should be provided in the rear and side of the unit. Rear incoming cable box should be of suitable size for safe entry of one no. of incoming cable and should have suitable terminal links for safe termination of incoming cable. One no. outgoing cable will be terminated in the cable box mounted on side. Size for incoming and outgoing cables, 3 x 150sq. mm, 11kV grade, XLPE insulated, PVC sheathed, Aluminium Conductor, Armoured cable. Suitable nos. of detachable gland plates with suitable size of heavy duty cable glands shall be provided in the bottom entry plates of both the cable boxes. Separate gland plates shall be provided for both the incoming cables in the incoming cable box. Rear entry LT cable termination box with suitable single compression cable glands for heater supply cable and control cable from transformer marshalling box should be provided.

## 2.2.TECHNICAL SPECS OF DP STRUCTURE

- DP: double pole structure on 2 no. 9M PCC pole using 7 no. MS channel each of size 100 mm x 50 mm x 2500 mm complete in all respect with nuts, springs washers, clamps as required.
- GO: Off load type gang operated 3-pole vertical flute type switch suitable for 11KV; 400A ,3-ø, central post rotating double break isolator complete with MS hardware, copper moving & fixed contact, assembly of 9 nos pin insulator, GI pipe of suitable length for operation.
- DO: 3nos Vertical / Horizontal mounted 11kv horn gap fuse set /drop out 11kv barrel fuses mounted on 6no pin insulators.
- LA: 3-piece nonlinear resistor type. lighting arrestor of approved make suitable for 3 wire, 11kv Overhead line with rated voltage of 9kv rms & nominal discharge current rating of 5 ka & complete with galvanized clamping arrangement GI bolts, nuts, washer etc as required.
- JUMPERS: 3 no 11kv ACSR(Weasel) conductors mounted on pin type insulators as required.

- GENERAL: The GO shall be operated by hand operated liver properly earthed with provision for locking mounted at 3' & Stay wires as required.

- **Scope of work**

The scope of work consists of the followings:
i) Supply and erection of DP structure as per the specs in SoQ.
ii) Supply and fixing of GO and all accessories required as per SoQ
iii) Supply and fixing of DO with all accessories as per SoQ
iv) Supply and fixing of Lightning Arrestors with all accessories as per SoQ
v) Supply and fixing of Jumpers as required.
The contractor have to arrange for taking necessary permission from DISCOM (or Competent authority) for connection of HT line

## 3. 315 KVA TRANSFORMER

S I T C of star rated Aluminum wound distribution Transformer of following rating 11/0.433KV Delta-Star Connected, Vector Group Dyn 11,ONAN Cooled & as per BEE star - 1 & BIS approved as per IS 2026- 1977 & losses as defined as per 2014 (Fourth Revision) Level-1 . including standard accessories like conservator, silica gel breather, radiator, fins, HT cable box & LT cable boxes, temperature rise in winding/oil 40-*45* $^{o}$C, ISI marked drain valve, Dial type Temperature gauge, first filling of transformer oil as per IS :335-1953, Epoxy based paint, including carrying of pre-commission Testing & Charging of Transformer complete in all respect.

The Transformer shall be subjected to routine factory tests (as per IS:2026 and IS:1180) including pre-commissioning testing from third party before charging of transformer.

The major materials used in the transformer shall conform in all respects to the relevant/specified Indian Standards and international Standards with latest amendments thereof as on bid opening date, unless otherwise specified herein. Some of the applicable Indian Standards are listed as hereunder:

| **Indian Standards** | **Title** |
|---|---|
| IS -2026 | Specification for Power Transformers |
| IS 1180 (Part-I): 2014 | Outdoor Type Oil Immersed Distribution Transformers 315kVA, 11kV-Specification |
| IS-335 | Specification for Transformer/Mineral Oil |
| IS-5 | Specification for colors for ready mixed paints |
| IS -104 | Ready mixed paint, brushing zinc chromate, priming |
| IS-2099 | Specification for high voltage porcelain bushing |
| IS-649 | Testing for steel sheets and strips and magnetic circuits |
| IS- 3024 | Cold rolled grain oriented electrical sheets and strips |
| IS - 4257 | Dimensions for clamping arrangements for bushings |

| | |
|---|---|
| IS - 7421 | Specification for Low Voltage bushings |
| IS - 3347 | Specification for Outdoor Bushings |
| IS - 5484 | Specification for Al Wire rods |
| IS - 9335 | Specification for Insulating Kraft Paper |
| IS - 1576 | Specification for Insulating Press Board |
| IS - 6600 | Guide for loading of oil Immersed Transformers |
| IS - 6103 | Testing of specific resistance of electrical insulating liquids |
| IS - 6262 | Method of test for power factor and dielectric constant of electrical insulating liquids |
| IS - 6792 | Determination of electrical strength of insulating oil |
| IS - 10028 | Installation and maintenance of transformers. |
| IS - 2362 | Determination of water content in oil for porcelain bushing of transformer |
| IS - 6162 | Paper covered Aluminium conductor |
| IS - 6160 | Rectangular Electrical conductor for electrical machines |
| IS - 5561 | Electrical power connector |

The transformers shall be suitable for outdoor installation with three phase, 50 Hz, 11 kV system in which the neutral is effectively earthed and they should be suitable for service with fluctuations in supply voltage upto plus 12.5% to minus 12.5%.

The transformers shall conform to the following specific parameters :

| **Sl.No.** | **Item** | **11 kV Distribution Transformers** |
|---|---|---|
| 1 | System voltage (Max.) | 12 kV |
| 2 | Rated Voltage (HV) | 11 kV |
| 3 | Rated Voltage (LV) | 433 - 250 V* |
| 4 | Frequency | 50 Hz +/- 5%* |
| 5 | No. of Phases | Three |
| 6 | Connection HV | Delta |
| 7 | Connection LV | Star (Neutral brought out) |
| 8 | Vector group | Dyn-11 |
| 9 | Type of cooling | ONAN |

### 3.1. CORE MATERIAL

The core shall be stack / wound type of high grade Cold Rolled Grain Oriented or Amorphous Core annealed steel lamination having low loss and good grain properties, coated with hot oil proof insulation, bolted together and to the frames firmly to prevent

vibration or noise. The core shall be stress relieved by annealing under inert atmosphere if required. The complete design of core must ensure permanency of the core loss with continuous working of the transformers. The
value of the maximum flux density allowed in the design and grade of lamination used shall be clearly stated in the offer.
The transformers core shall be suitable for over fluxing (due to combined effect of voltage and frequency) up to 12.5% without injurious heating at full load conditions and shall not get saturated. The bidder shall furnish necessary design data in support of this situation.
No-load current shall not exceed 2% of full load current and will be measured by energising the transformer at rated voltage and frequency. Increase of 12.5% of rated voltage shall not increase the no-load current by 5% of full load current.

### 3.2. WINDINGS:

- HV and LV windings shall be wound from Super Enamel covered /Double Paper covered Aluminum.
- LV winding shall be such that neutral formation will be at top.
- The winding construction of single HV coil wound over LV coil is preferable.
- Inter layer insulation shall be Nomex /Epoxy dotted Kraft Paper.
- Proper bonding of inter layer insulation with the conductor shall be ensured. Test for bonding strength shall be conducted.
- The core/coil assembly shall be securely held in position to avoid any movement under short circuit conditions.
- Joints in the winding shall be avoided. However, if jointing is necessary the joints shall be properly brazed and the resistance of the joints shall be less than that of parent conductor. In case of foil windings, welding of leads to foil can be done within the winding.

### 3.3. TAPPING RANGES AND METHODS:

- Tappings shall be provided, on the higher voltage winding for variation of HV voltage within range of (+) 5.0 % to (-) 10% in steps of 2.5%.
- Tap changing shall be carried out by means of an externally operated self-position switch and when the transformer is in de-energised condition. Switch position No.1 shall correspond to the maximum plus tapping. Each tap change shall result in variation of 2.5% in voltage. Arrangement for pad locking shall be provided. Suitable aluminum anodized plate shall be fixed for tap changing switch to know the position number of tap.

3.4. Transformer Oil:

The insulating oil shall comply with the requirements of IS 335. Use of recycled oil is not acceptable. The specific resistance of the oil shall not be less than 35 $X10^{12}$ ohm-cm at $27^{o}C$ when tested as per IS 6103.

- Oil shall be filtered and tested for break down voltage (BDV) and moisture content before filling.
- The oil shall be filled under vacuum.

- The design and all materials and processes used in the manufacture of the transformer, shall be such as to reduce to a minimum the risk of the development of acidity in the oil.

INSULATION LEVELS:

| Sl. No. | Voltage (kV) | Impulse Voltage (kV Peak) | Power Frequency Voltage (kV) |
|---|---|---|---|
| 1 | 11 | 75 | 28 |

**3.5. GENERAL:**

- Service duty: Continuous.
- Installation: Outdoor.
- Auxiliary power supply: 240V AC ± 10%
- Control Voltage: 240V AC ± 10 %

3.6. SITE CONDITION:

- Maximum Ambient air temperature - 58°C
- Minimum Ambient air temperature -2°C
- Maximum humidity at site (at 40 °C) - 60%
- Maximum average daily ambient air temperature (0C): 48 0C
- Maximum yearly weighted average : 58 0C ambient temperature(0C)

3.7. TERMINAL ARRANGEMENT: .

- HV winding line end : Cable box with bushings.
- LV winding line end : Cable box with bushings.
- One LV Neutral bushing inside the cable box and one (additional) outside the cable box.

3.8. BUSHING:

Made from non-hygroscopic epoxy resin cast material suitable for site condition mention in para- B & confirming to IS-2099.

3.9. CABLE BOX:

- HV cable box should be suitable for termination of 2 no. 3 C, 150sq. mm XLPE, armoured, aluminium conductor cable with heat shrink type cable

termination. Bottom plate should be detachable. Cable Box as per IP-65. Suitable non hygroscopic bushings are required for supporting the cable connection.

- LV cable box should have brought out electro-tinned copper busbars of suitable rating & size for termination of 2 nos. of 3.5 core, 120 sq. mm PVCA/XLPE Aluminium cable. The busbar should have suitable holes (two nos. for each cable lug as lug with double hole will be used for termination) and provided with hardware for termination of cables. The cable box should have detachable cable gland plate fitted with suitable heavy duty single compression cable glands for the cables mentioned above. Support for busbar in LV cable box should be made from FRP/SMC non hygroscopic material. Cable Box as per IP-65. Supports should be able to withstand the short circuit stress. All openings in enclosure should be guarded with suitable screen to guard against entry of rodents and reptiles. c) Terminals should be marked as per IS: 2026.

3.10. LIST OF FITTNGS AND ACCESSORIES:

- HV bushings : Inside HV cable box : 3 nos.
- LV bushings - Inside LV cable box : 4 nos.
- Outside LV cable box : 1 no. for neutral earthing.
- Winding temperature scanner connected with three nos. RTDs, one each for each LV winding, should be provided in a metallic enclosure that is mounted on the main enclosure.
- The scanner should provide indication, alarm & trip contacts. Winding temperature indicator should show maximum temperature attained. The RTDs should be properly wired upto the scanner terminals. Suitable hole with gland is required for control cable connecting scanner alarm/ trip contacts to HT Breaker. d) Lifting lugs.
- Earthing terminals # 2 nos.
- Jacking lugs.
- Inspection .cover
- Base channels with bi-direction rollers.
- Any other accessories which bidders think essential & required as per IS may also be included. Included
- Marshaling Box

3.11. NAME PLATE

Transformer shall be furnished with a non-corrosive diagrammatic name plate permanently attached with non-corrosive hardware with following information:

- KVA rating
- Primary and secondary voltage
- Primary and secondary current
- Frequency
- Nos. of phases
- Percentage of impedance
- Types of cooling
- Connection & symbol
- Tap configuration
- Insulation system and rated maximum temperature rise.
- Year of manufacture
- Design impedance.
- Manufacturer's name
- Net weight.
- IS standard.
- OIL's P.O. no. and date.

3.12. TEST:-

The following tests shall be carried out on the transformers
The procedure for testing shall be in accordance with IS1180 (Part-1) :2014 /2026 as the case may be except for temperature rise test.

3.12.1. ROUTINE TESTS:

- Ratio, polarity, phase sequenceand vector group.
- No Load current and losses at service voltage and normal frequency.
- Load losses at rated current and normal frequency.
- Impedance voltage test.

- Resistance of windings at each tap, cold (at or near the test bed temperature).
- Insulation resistance.
- Induced over voltage withstand test.
- Separate source voltage withstand test.
- Neutral current measurement-The value of zero sequence current in the neutral of the star winding shall not be more than 2% of the full load current.
- Oil samples (one sample per lot) to comply with IS 1866.
- Measurement of no load losses and magnetizing current at rated frequency and 90%, 100% and 110% rated voltage.
- Pressure and vacuum test for checking the deflection.
- Temperature rise test for determining the maximum temperature rise after continuous full load run. The ambient temperature and time of test should be stated in the test certificate.
- Impulse voltage test: with chopped wave of IS 2026 part-III. BIL for 11 kV shall be 75 kV peak.
- Short circuit withstand test: Thermal and dynamic ability.
- Air Pressure Test: As per IS – 1180 (Part-1):2014.
- Magnetic Balance Test.
- Un-balanced current test: The value of unbalanced current indicated by the ammeter shall not be more than 2% of the full load current.
- Noise-level measurement.
- Measurement of zero-phase sequence impedance.
- Measurement of Harmonics of no-load current.

3.12.2. SPECIAL TESTS

- Partial discharge test as per IS: 6209-1982 and with Appendix A of IS: 2026 (Part 3)-1981. Measurement of acoustic sound.
- Testing of measurement of acoustic sound as per the conformity of relevant standards.

## 3.13. Installation and Commissioning of 315 KVA Transformer

### 3.13.1. GENERAL NOTES ON COMMISSIONING:

- The party shall confirm that the I&C jobs shall be carried out under the direct supervision of an Engineer/an electrical supervisor holding a valid Electrical Supervisor's Certificate of Competency. The copy of certificate of competency should be submitted prior to the commencement of the commissioning jobs.
- The party shall obtain permit to work from OIL's Engr.-in-charge before taking up commissioning works.
- All tools & instruments for commissioning shall be arranged / provided by the party.
- The party shall depute their commissioning team and commission the transformer within 30 days after getting the Commissioning call from OIL.
- Testing & Commissioning of transformers shall be carried out by specialist /engineer from manufacturer. All pre commissioning testing of transformer like magnetic balance test, vector group test, IR test etc. are required to be carried out by party at site before energization of the transformer.
- The commissioning of the transformer shall be considered as complete with the submission of the commissioning test records, operating & maintenance manuals, spares list of the transformer etc. to OIL.
- Please note that whenever any reference to Indian Standard/International Standard is made in the above requirements / specifications, it shall be taken to mean the latest version, iteration or revision of the standard.

### 3.13.2. PRE-COMMISSIONING CHECKS:

After completion of installation of the transformer at the specified site, prior to energizing of the transformer, the following checks and tests shall be carried out on transformer:

- Assembly, check as per manufacturer's drawings and instructions.
- Physical inspection for damages, external defects and remedial actions, if any.
- Check for proper fixing on foundation, levelling and tightness of foundation bolts.
- Check for proper tightness of transformer & its control devices, accessories, cables and earth connections.
- Check meters, if any.

### 3.13.3. TECHNICAL NOTES ON COMMISSIONING:

- Commissioning: Any material / spare not specified in the NIT but required for commissioning, item shall be supplied by party.

- The commissioning of the Transformer shall be considered as complete only after the submission of the commissioning test records, operating & maintenance manuals, spares list of the Panel etc. to Oil India Limited.
- It is to be noted that whenever any reference to Indian Standard/International Standard is made in the above requirements / specifications, it shall be taken to mean the latest version, iteration or revision of the standard.

**3.14** TECHNICAL PARTICULARS

The following Technical Particulars with relevant test certificates to be furnished by the party along with the supply.

- Type of transformer:
- Rating of transformer:
- Primary Winding Details:
- Secondary Winding Details:
- Reference standards:
- No of Phases:
- Rated Frequency:
- Vector Group
- Type of Cooling:
- Impedance Voltages:
- Tapping on HV:
- Enclosure type (IP):
- No Load losses at rated voltage:
- No load current at rated voltage:
- Total losses (Cu+ Iron) at rated load:
- Insulation class:
- Insulation level:
- Average temp rise of windings over ambient temp (50 Degree):
- Dimension (L X B X H):
- Winding material:
- Efficiency at unity PF at full load:
- Efficiency at unity PF at half load:
- Percentage Regulation at unity PF:
- Percentage Regulations at 0.8 PF (Lag)
- Sound level:

1. LT PANEL SPECIFICATIONS (Substation main LT panel, External Feeder Pillar)
   1.1. Scope of work:

This specification covers supply, installation and commissioning of 415 V AC, 50Hz indoor, Outdoor type panel with MCCBs as incomer and MCCBs as outgoing feeders (as specified in the BoQ), ready for operation on being installed in a fixed position. The panel shall be placed on a suitable raised foundation to take the load of Panel.

1.2. Standards:

All components used in the manufacture of the Panels shall confirm to the relevant IEC/BIS standard specification and especially to the followings:

- IS: 13947-1993/IEC: 60947- General arrangement for switchgear and control gear for voltage not exceeding 1000 V
- IS: 12063-1987/IEC: 60529 Degrees of Protection provided by enclosures of electrical Equipment
- IS: 5/2004 Colour for ready mixed paints and enamel iv. IS: 732/1989 Code of Practice for Electrical Wiring Installations
- IS: 5039/1983 Distribution pillars for voltage not exceeding 1000 V
- IS/IEC: 127-1994 Miniature Fuses- Fuse Holders for Miniature Cartridge Fuse Links - Specification
- IS: 2551-1982 Danger Notice Plates
- IEC: 60664 Insulation co-ordination within low voltage system including clearance creepage distances for equipment.

1.3. Technical Requirements:

1.3.1. Main LT panel

Panel incomer shall have the following:

**1.3.1.1.** Main Incomer-1:

(i) 250 A, 4 Pole, MCCB 25 KA with microprocessor base Trip Unit Ics=Icu =100%, adjustable over load settings -0.1-1.0 X In, adjustable short circuit settings 2-10XIr, with spreader links, rotary operating mechanism. Also Have Digital Multifunction Meter, V+A+Hz,KW+PF+KWh+Maximum Demand with RS-485, inbuilt memory to store data for minimum 60 days.

(ii) Current transformer- 250/5, 15VA, Class 1 to IS: 2705, Cast resin type. : 3 Nos.

(iii) LED Indication lights for indication of 'Supply On': 3Nos.

(iv) LED Indication lights for indication of OFF/ON/TRIP CB: 3Nos.

(v) Trip-neutral-Close selector Switch, 25 Amp: 1 Nos.

(vi) Moulded HRC Fuse Holders with HRC Fuses for control circuit protection: as required.

(vii) Shall have brought out terminals for terminating 2 run 3.5core, 150sqmm XLPE Aluminium Cables.

**1.3.1.2.** DG Incomer:

(i) 250 A, 4 Pole, MCCB 25 KA with microprocessor base Trip Unit Ics=Icu =100% , adjustable over load settings -0.1-1.0 X In, adjustable short circuit settings 2-10XIr, with spreader links, rotary operating mechanism. The panel shall have:

(ii) Digital Multifunction Meter, V+A+Hz,KW+PF+KWh+Maximum Demand with RS-485, inbuilt memory to store data for minimum 60 days.

(iii) Current Transformer: 300/5 , 15VA, Class 1 to IS:2705, Cast resin type: 3 Nos.

(iv) LED Indication lights for indication of 'Supply On': 3Nos.

LED Indication lights for indication of OFF/ON/TRIP CB: 3Nos.

(v) Incomer 6A SP MCB 10 KA C CURVE: As required.

(vi)AMF panel complete with, M/F meter, CT 300/5A, Cl 1.0, CT 600/5A, Cl 1.0

Indication lamp, Battery charger 24V, Relay card, DC Ammeter, SP MCB, 6A, 10kA- As required, AMF controller etc. Qty= 1 No.

**1.3.1.3.** Spare Incomer:- Same as (a) Main Incomer-1.

**1.3.1.4.** Bus Coupler:- Same as (a) Main Incomer-1.

**1.3.1.5.** Busbar :

The 500A electrolytic grade aluminium bus bar, 6010 grade, 3 Phase, 4 wire, 50Hz, is insulated with color-coded PVC sleeves and maintains a current density of no more than 1 amp/mm². The sheet steel bus chamber includes high-conductivity aluminium bus-bars with PVC sleeves supported by non-hygroscopic SMC/FRP supports, designed for short circuit fault levels up to 25 kA for 1 second. Risers and connections match the main bus bar material and rating. The bus bar system features generous phase clearance and insulating sheet barriers. A type test certificate from CPRI or an equivalent lab is required for short circuit and temperature rise tests.

Panel Outgoing shall have the followings:

Each outgoing MCCB shall have inbuilt microprocessor release mechanism and shall have following protection:

- O/L protection
- Short Circuit protection
- E/F protection Settings
- Over Current: Ir=0.8 to 1×In;
- Short Circuit: Im= 5 to 10×Ir;
- Instantaneous protection against short Circuit with fixed threshold If=5kA
- Earth leakage protection (CBCT & ELR): Current Settings: 30mA to 30A; Time Settings: 0.15Sec to 5 Sec.
- Pad locking arrangement in OFF position with pad lock

**1.3.1.6. Lighting FDR-4 Nos.**

25A 4P MCCB, 25 KA with above mentioned settings With spreader Links, Rotary Operating Mechanism, Indication lamp(ON/OFF/TRIP), Reset Button.

**1.3.1.7. Power & AC FDR -6 Nos.**

`63A 4P MCCB, 25 KA with above mentioned settings With spreader Links, Rotary Operating Mechanism, Indication lamp(ON/OFF/TRIP), Reset Button.

**1.3.1.8. (DOL) for Pump-3 Nos.**

40 A 4P MCCB DOL Starter with over load protection relay, short circuit

& single phasing protection, Illuminated ON / OFF push buttons, ammeter, voltmeter, indicating lamps, with Auto Manual Function, etc

1.3.2. External Feeder Pillar for lighting

Supply, Installation, Testing and Commissioning of External Feeder Panel.

Panel Incomer shall have

- 40 A, 4P, 10 KA, C curve MCB: 1 No.
- Electronic Timer Operating voltage of 160V to 500V, Time delay range of 3-30 Sec.: 1 No
- 40A 4P AC operated Contactor with suitable 2 NO+2 NC with interlocking DG: 1 No
- LED Indication lights(R,Y,B) for indication of 'Supply On': 5Nos.B. Busbar 200A, 3 Phase, 4 wire, 50Hz ALUMINIUM with PVC sleeves indicated with four colours with current Density not more than 1.0 amp/mm2C.

Panel Outgoing shall have

Outgoing panels shall have

- 10A SP MCB C CURVE: 15 Nos.

Main Distribution Panel Box made out of 16/14 SWG ms or better SWG as per standard IS, sheet powder coated, IP 68 Class Enclosure, as per approved design(CPRI approved Fabricator).

**1.3.3. Constructional Details of All panels:**

**1.3.3.1. General Requirements:**

i. Panel shall be self-supporting, Indoor Type, dust, vermin/rodent proof, suitable for placing on a RCC foundation. Any left holes/cable entries shall be blocked by using detachable metallic sheets to prevent entry of rodent/reptiles.

ii. The structure of Panel shall be made with 2mm thick CRCA sheet and (75x40x6) mm base channel as required.

iii. Heavy duty Lifting hooks (4 No's heavy duty lifting hooks) shall be provided for lifting of Panel.

iv. The door shall be in parts and shall have locking arrangement with special type Knob type key. Danger Plate fitted on both sides.

v. For cooling of the component louver arrangement shall be made in the Panel.

vi. Panel shall have a heavy duty base framework. The frame design shall be such that the height between bottom cable entry plate and the connection hole of brought out link of incoming, outgoing MCCBs shall be minimum 450mm.

vii. The entire sheet-work shall be given minimum ten tank anti-rust treatment as per IS and then powder coated (min 50 micron thick) in light grey shade no 631 as per IS:631.

viii. The design should be as per IS-8623, 13947, 13703, 4237 and IEC-61439 and suitable for ambient-50°C (Max)/ 2°C (Min), humidity-60% (Max). All components used must be suitable for the environment as mentioned.

ix. All hardware should be of high tensile steel & Zinc passivated. Size of spring washers & flat washers should be as per relevant IS for individual bolt.

x. All the components shall be mounted on separate steel plate with necessary stiffeners or suitable channels so that all the components can be checked and replaced from front side after opening the door.

xi. All items will be labelled using riveted engraved metallic or mica labels.

xii. All incoming and outgoing cables shall enter the enclosure from bottom side. Bottom plate shall have individual detachable gland plates for all cables. These detachable plates shall be accessible and removable from inside. All cable entry plates shall have knockouts.

#### 1.3.3.2. General Technical Requirements:

i. All connection links between bus-bar and MCCBs & brought out links shall be made with rectangular sections of Aluminium confirming to IS 5082. Current rating of links shall be minimum 1.5 times (rating for unassembled sections) the device rating. Spreader bars supplied by MCCB manufacturer shall be used for all incoming and outgoing terminations for all MCCBs.

ii. All control wiring shall be done with single core 2.5sqmm, FRLS PVC insulated, 1100v grade, IS approved stranded copper cable.

iii. 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, ferrules for easy identification.

iv. All panel doors shall be earthed.

v. v. No bimetallic joints shall be permitted in the links of connections.

vi. vi. Special non-deteriorating Neoprene rubber gaskets shall be provided at panel doors.

vii. Sufficient space should be provided for proper glanding, dressing, connecting up and maintenance of all cables. Sufficient nos. of cable entry holes shall be provided in the bottom plate.

viii. All items shall be duly fixed with zinc passivated high tension hard-wares. DIN channel shall be used for components having facility to mount on DIN channel.

ix. All items of the Panel must be approved by ISI or IEC (with latest amendments) for performance and safety. 3 nos fuse carrier and base of 16 Amp of SM type with 4 Amp HRC fuses and fuse link shall be provided for power supply of multifunction meter. The auxiliary power supply of multifunction meter shall be 230 VAC.

x. Current transformer shall be cast resin type, with accuracy class 0.5 and suitable specification. 2 No's passivated heavy duty type nuts and bolts shall be provided for connection of earthing on two opposite side.

xi. For all incoming and outgoing cable connection, brought out terminals shall be provided. Suitable size of double compression M.S cable gland should be provided.

xii. For all incoming and outgoing cables along with Panel. Suitable size of holes shall be made into detachable gland plate for incoming and outgoing

feeders. The cable gland is to be supplied and fitted in the Panel by bidder as per requirement of incoming and outgoing feeders.

xiii. xiii. The Panel shall have provision for,

a) Cable entries for 2000A ACB: suitable for terminating 6 run, 3.5×240 sqmm PVCA Al cable

b) Cable entries for 1000A ACB: suitable for terminating 3 run, 3.5×240 sqmm PVCA Al cable

c) Cable entries for 630 A MCCB/ACB:suitable for terminating 2 run, 3.5×240 sqmm PVCA Al cable

d) Cable entries for 400 A MCCB:suitable for terminating 1 run, 3.5×240 sqmm PVCA Al cable

e) Cable entries for 250 A MCCB:suitable for terminating 1run, 3.5×240 sqmm PVCA Al cable

f) Cable entries for 125 A MCCB:suitable for terminating 1 run, 3.5×120 sqmm PVCA Al cable

g) Cable entries for 63 A MCCB:suitable for terminating 1 no, 3.5×70 sqmm PVCA Al cable

xiv. Higher version of components with same feature as mentioned in make list of components having proven track records of components shall be acceptable to OIL with prior approval. All cable entries shall be done from bottom side. Separate detachable type gland plates shall be provided for all cables. One additional cable entry gland plate shall be provided

#### 1.3.4. Plate and Marking:

Panel shall be provided with Aluminium /Stainless steel / Brass nameplate showing the following information indelibly marked in English:

- Manufacturer's Name
- OIL's Purchase Order No. & date
- Rated Voltage Rating
- Degree of protection (with Short Circuit Current Rating)
- Busbar Current rating

#### 1.3.5. Danger Notice Plates: 4Nos.

Danger Notice plate shall be provided at the front of the Panel using M5 hot dipped galvanized /stainless steel / brass fasteners not removable type / accessible from the front i.e. without opening the door / front cover.

### 1.4. Tests:

The following routine tests shall be carried out in accordance with the relevant IS/IEC standards for all the LT panels:

Routine Tests:

The following routine tests shall be carried out at manufacturers' works during inspection:

- Overall Dimensions Checking.
- Insulation Resistance Tests.
- High Voltage Test at 2500 V, 50 Hz AC for one minute.
- Functional Test and verification of continuity of protective circuits
- Verification of clearances & creepage distances

#### 1.4.1. 3.11.7 Test Certificates:

Copy of type test conducted on similar type panel by NABL accredited laboratories for the following shall be submitted after the award of the order and before supply.

a) Short time current withstand test
b) Temperature rise test

### 5.0 DG Set

Supply, Installation, Testing and Commissioning of CPCB 4/ latest CPCB norms complied Silent DG Set complete with 1500 RPM Diesel Engine of suitable BHP & AC Brush less SPDP Alternator mounted on a common base Frame & coupled through a flexible coupling or close coupled for feeding loads like Lights, ACs, Computers, Fans, Motors, Lifts etc. on continuous basis.

Alternator shall be self-regulated with standard Alternator Protection( Over voltage , over speed & under voltage).

5.1. Technical specification of DG set

**5.1.1.** ALTERNATOR:

- Type : Brushless
- Actual power 200 KVA at 50 degree celsius
- Frequency : 50 Cycles/sec, Frequency variation-± 1%
- Supply system :3 phases & neutral
- Connection: Star
- Rated voltage: 415 Volts, Variation of voltage from No load to full load-± 2 % of rated voltage.
- Rated rpm.: 1500 rpm. max
- Enclosure: IP-23
- Insulation: Class 'H'
- Voltage Regulation: Automatic voltage regulation grade VG3
- Maximum permissible time Building up rated voltage From stand still-Less than 20 seconds.

#### 5.1.2. ENGINE:

Engine shall have residential silencer, adequate exhaust piping as required , electronic / Mechanical governor, Manual & electric Start ,Batteries, Fuel tank (with Stand) & piping , AMF/control panel (16 G) with MCCB (4P; 25 KA), Ammeter, Voltmeter, Frequency Meter, Energy Meter & Hour Meter, Engine instruments panel, AVM and with Weatherproof, powder coated Acoustic enclosure for DG set for sound attenuation fabricated from 2.0 mm CRCA sheet steel (structure) with side wall fabricated from 2.0 mm CRCA sheet & filled with 100mm thick glass wool(96Kg/m3) as per IS 8183 the doors of 100 mm thick and fabricated from 1.6mm CRCA sheet packed with acoustic material, floor of MS chequered plate 5.0mm thick.

5.1.2.1. DIESEL ENGINE:

- Type: Multi-cylinder with direct radiator, Turbo charged with Heat Exchanger with oil cooler.
- No. of strokes·: 4
- No of Cylinder: 6
- Fuel injection: Direct
- Maximum speed: 1500 RPM
- Rated power: 256BHP (minimum)
- Cooling of: Liquid cooled
- Cylinders with Oil cooled remote Radiator
- Type of Governor: Electronic, Mechanical or higher
- Class of Governor: A1 or higher
- Overload capacity for one hour for every 11hours continuous running at full load (%): 10
- Engine : Battery starting.
- Starting voltage: 24 V
- Efficiency at rated power factor and 75% of Full load: 90.25
- Starting : Universal. Auto/Manual position
- Engine shall be at least BS-VI or latest standard complied.
- Battery type: Low Maintenance free to IS: 14257 for high cranking performance

### 5.1.3. AMF Panel

The Auto main failure (AMF) Panel shall be fabricated from CRCA sheet steel 2 mm Thick, Powder coated finish, Engine Start & Stop commands, control Relays, selector switches for Ammeter & Voltmeter, Ammeter & Voltmeter, Control & Power Contactors, Timers, Electronic Hooter, Visual & Alarm indication for faults, UPS, operator interface panel complete in all respect suitable for 200 KVA capacity DG sets.

The panel shall also have:

250 A, 4 Pole, MCCB 25 KA with microprocessor base Trip Unit Ics=Icu =100% , adjustable over load settings -0.1-1.0 X In, adjustable short circuit settings 2-10XIr, with spreader links, rotary operating mechanism.

The feeder shall have brought out terminals for terminating 2 run 3.5core, 120sqmm XLPE Aluminium Cables: 1 No.

The panel shall have:

- Digital Multifunction Meter, V+A+Hz,KW+PF+KWh+Maximum Demand with RS-485: 1 No.
- Current transformer, 400/5, 15VA, Class 1 to IS: 2705, Cast resin type: 3 Nos.
- LED Indication lights for indication of 'Supply On': 3Nos.
- LED Indication lights for indication of OFF/ON/TRIP CB: 3Nos.
- Trip-Neutral-Close Selector Switch, 25 Amp: 1 Nos.
- Moulded HRC Fuse Holders with HRC Fuses for control circuit protection: 6 Nos.

### 5.1.4. General requirement

All doors/ opening are sealed with neoprene/EPDN gaskets. The control panel shall be of IP 65. The enclosure has built in fuel tank, residential silencer (isolated from main DG chamber) with protection and tripping of DG set against temperature of more than 55 $^{o}$C. All controls for operation of DG set are from outside the enclosure with DG control panel mounted inside enclosure, visible and accessible from outside.
The enclosure should be suitable for following capacity DG sets and alternator. Noise level shall be less than 75 db(A) at a distance of 1 mtrs. duly certified by authorized agency etc. complete in all respect.

### 5.1.5. ACCESSORIES:

The Diesel Engine shall be equipped with minimum following/ as indicated in the specifications, devices/accessories built-in type including all standard fillings:

- Fuel supply pump with manual venting pump.
- Radiator
- Turbo charger with air filter (dry/oil bath type) and damper.
- Charge oil cooler
- Suction fuel filter
- Lube oil filter
- Electronic lsochronus Governor of suitable class
- Hour meter and RPM indicator
- Battery Starting Mechanism.
- AMF Panel having the complete with following:
- Starting Switch incorporated in touch panel/push button
    - Lub. Oil Temp. gauge
    - Lub. Oil pressure gauge
    - Water Temp. gauge
    - Control devices for safety and monitoring along with indicators.
- Common base/foundation frame
- Fly wheel and flexible coupling
- Automatic voltage regulator (AVR)
- Fuel oil filter
- Day storage tank(other than DG Fuel Tank) for not less than 650 ltr capacity fabricated out of 3mm thick MS sheet, with M.S. fuel pipe line, high & low level indicator and alarm contacts.
- Residential type silencer
- Anti vibration pads
- Adblue Tank
- Adblue level sensor/gauge
- DG Fuel Tank(600 Ltrs.)
- Necessary batteries (minimum 2 of 180 AH capacity) with leads and mounting frame etc.
- The lubricants, coolant, to be filled to the fullest & fuel (DG Fuel Tank & day storage tank) sufficient for testing.
- All the above housed in a suitable Sound attenuated enclosure as per specifications and required Set.

**5.1.6. Other special features:**

- Mode of Operation-Auto Start.
- Capacity of largest rating Motor starting-To be furnished.
- Radiator cooled and Turbo charged .
- Alternator, 200 KVA at 58 degree Celsius, at 0.8 pf (lag), 415V, 50Hz, 3-Ø.

**5.2. Scope of work**

**5.2.1. DG installation & Testing**

- Proper foundation to be made for installation of the DG Set
- Laying and Connection of power and other control cables from DG set to LT panel and AMF panel
- Two nos. of Earth Electrode to be provided for Neutral earthing and two nos. of electrode for Body earthing.
- The neutral should be earthed with two separate insulated earth wire (1CX35Sqmm. CU) up to the Electrodes.
- The DG auto start to be tested during main supply failure.
- The DG shall be tested up to optimum load
- Exhaust to be extended to take the smokes outside of the building if necessary.
- The DG shall be tested with AMF panel

**5.2.2. General evacuation Plan for Diesel Generator(DG) Set Supply during DISCOM power failure:**

The 200KVA DG set shall be used for the following purposes on a larger note:

- Complete Load of building to be made available from DG.
- All street lights/ area lights shall be also be supplied power from DG.
- All essential supplies like all block lifts, CCTVs, all water pumps, SCADA control room, Electrical Substation etc.
- All the above shall be in the scope of the bidder.

**5.2.3. O&M/ Servicing during Defect Liability Period**

Servicing Contract of DG Set from OEM's Authorised Service Dealer as per OEM guidelines during the Defect liability period(DLP) period shall be done by contractor including all consumables(DEF/Adblue also).

**5.3.** Testing:

**List of tests to be carried out at factory**

- Ratio, polarity, phase sequence and vector group.
- No Load current and losses at service voltage and normal frequency.
- Load losses at rated current and normal frequency.
- Impedance voltage test.
- Resistance of windings at each tap, cold (at or near the test bed temperature).
- Insulation resistance.
- Induced over voltage withstand test.
- Separate source voltage withstand test.
- Neutral current measurement-The value of zero sequence current in the neutral of the star winding shall not be more than 2% of the full load current.
- Oil samples (one sample per lot) to comply with IS 1866.

- Measurement of no load losses and magnetizing current at rated frequency and 90%, 100% and 110% rated voltage.
- Pressure and vacuum test for checking the deflection.

SAFETY REQUIREMENTS:

This section outlines sub-station requirements for compliance with statutory regulations and safety needs:

1. **Safety Provisions**: Conform to CEA regulations 2010.
2. **Insulation Mats**: Must meet IS: 15652:2006 standards and be placed in front of main HT and LT switchboards as per CEA regulations.
3. **First Aid Charts**: Trilingual (English, Hindi, and regional language) charts displaying artificial respiration methods must be prominently placed.
4. **Danger Plates**: Provided on all HV and LV equipment. LV plates are 200x150mm, HV plates are 250x200mm, made of 2mm thick mild steel or other permanent materials, with descriptions in signal red.

**Caution Boards**: Sufficient boards with messages like "Man on Line" and "Don't Switch On" must be available. OIL's approval is required for text, design, and layout before installation.

## 6.0 HT/LT Cables:

### 6.1. Scope of work for HT cable

- The scope of work includes supply, laying, jointing, end termination, testing and commissioning of 11 kV (UE,) 3x150 sq.mm., XLPE, Al cable.
- The scope of work also includes laying of above cables in HDPE PIPE/ pucca cable trench.
- The scope also covers straight through jointing and end termination of cables with standard practice with kits supplied by the bidder and approved by OIL.
- The quantities indicated in the schedule of items are tentative and payment shall be made to the actual quantities of work done only.

#### 6.1.1. Installation:

While laying cables in HDPE Pipe/ pucca cable trench, cables shall be placed on cable trays. HT and LT cables shall be placed separately.

Cable type: Cross linked polyethylene (XLPE), armoured

i) Shelf life: Minimum 5 years.

#### 6.1.2. Heat Shrinkable indoor and outdoor type end termination kit:

11KV (UE) XLPE cable shall be terminated for indoor and outdoor use especially for indoor connection of 11KV VCB and outdoor connection of 11KV overhead lines. All the materials for indoor and

outdoor termination shall be supplied by contractor along with cable jointer. The details of cable termination kit are given below:

Heat Shrinkable end termination kit for following cable and having the following features:

- Size of cable: 3 core, 150 sq.mm, Aluminium
- Voltage grade: 11,000 V, AC (UE)
- Cable type: Cross linked polyethylene (XLPE), armoured
- Type of kit: Indoor and outdoor type
- Shelf life: Minimum 5 years.

Storing as well as jointing instructions of the manufacturer of such materials shall be strictly followed.

### 6.1.3. Testing

Testing before laying: All cables, before laying, shall be tested with 5000V/10000V Insulation tester. The cable cores shall be tested for continuity, absence of cross phasing, insulation resistance from conductors to earth / armoured and between conductors.

### 6.1.4. Tools:

The party shall have one no. 10 kV Digital Insulation Resistance Tester of reputed make like Fluke, high voltage test set, multifunction meter and one set of hydraulic heavy duty crimping tool kit of reputed make of size 16 sq.mm.to 400 Sq.mm. including complete set of suitable dies.

## 7. Earthing

### 7.1. Scope:

This section covers the general requirements of the earthing system for Sub-station installation, Residential Building, D.P./Load Break Switch.

The earthing system includes earth electrode, installation of earth electrode in suitable pit size, construction of earth pit with cover for the installation, connection of earth electrode with equipotential earth bus and connection of equipment to equipotential earth bus.

Plate Earthing as per IS:3043 with Hot dipped G.I. Earth plate of size 600mm x 600mm x 6.0mm by embodying 3 mtr. below the ground level with 50 mm dia. G.I. 'B' class watering Pipe ,including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and providing masonry enclosure{(450X450X320)mm from inside} with cover plate having locking arrangement - and embodying the pipe complete with alternate layers salt and coke/ charcoal, testing of earth resistance for value of 5 ohms or less.

Earth Enhancement Material:
Earth enhancement material (Back fill compound) shall be a superior conductive material that improves earthing effectiveness especially in areas of poor conductivity

such as rocky ground, sandy soil & areas of moisture variation. It may contain ~~conductive cement (20%),~~ graphite carbon powder (50%), hydrous aluminium silicate (10%), sodium montmorillonite (20%)
etc. It shall be placed around earth electrode in the earth pit to improve the conductivity of earth electrode & ground contact area. The material shall be supplied in sealed moisture proof bags. These bags shall be marked with the name of the manufacturer or trade name, quantity, batch no., date of manufacture etc. It shall have following characteristics:

- It should have low resistivity preferably bellow 0.2 ohm-meter. (Resistivity shall be tested by making a 20cm cube of the material & checking the resistance across the opposite faces of the cube.).
- It shall not depend on the continuous presence of water to maintain its conductivity.
- It should be a little alkaline in nature with pH value of > 7 & < 9.
- It should have better hygroscopic properties to absorb moisture. It should absorb & release the moisture in the dry weather condition and help in maintaining the moisture around the earth electrode.
- It should have capacity to retain more than 10% moisture at 105ºC.
- Material shall be in granular form of size 0.1mm to 3mm and shall absorb water to the extent of @ 51%. Specific gravity of BFC material shall be between 2.5 to 2.7.
- Material shall be nontoxic, nonreactive, nonexplosive & noncorrosive.
- Material shall be thermally stable between temperature range of -10ºC to 60ºC.
- Material shall not decompose or leach out with time.
- It shall not pollute the soil or local water table & shall meet environmental friendly requirement for landfill.
- It should expand & swell considerably & remove entrapped air to create strong connection between earth electrode & soil.
- It should diffuse in to the soil pores & create conductive roots enlarging conductive zone of the earth pit.
- It shall not require periodic charging treatment or replacement. It shall not cause burns, irritation to eye, skin etc.

### 7.2. Location of Earth Electrodes:

Preferably an earth electrode shall not be situated less than 1.5 m from the building *(subjected to availability of space).* Care shall be taken that the excavation of earth electrode may not affect the column footings or foundation of the building. In such cases electrodes may be farther away from the building. The location of the electrode earth will be a place where the soil has reasonable chance of remaining moist. As far as possible, entrances, pavements and road ways, are to be definitely avoided for locating the earth electrode. Distance between two earth pits must be double the length of electrode.

Earthing Scheme for Substation:

For one transformer sub- station total number of earth electrodes shall be 10 (2 for neutral earthing of transformer, 2 for body earthing of the transformer, 2 for surge suppressor, 2 for connection to VCB panel & 2no. for PCC panel of common earth bus for body earthing). The no. of earth electrodes shall be more depending upon soil

resistivity and the value of earth resistance which shall be less than 1 ohm when connected together.
The recommended sizes of G.I earth bus lead in case of sub-stations shall be 50mmx6mm on surface for connections etc. as required.
Earthing Scheme for Residential Building: Each DB must be double earthed using single core 16sqmm. Cu cable or GI strip of equivalent size to equipotential earth bus. The no. of earth electrodes shall be decided depending upon soil resistivity and the value of earth resistance which shall be less than 1 ohm when connected together. Two strings of earth pits will be constructed & GI strips of appropriate size will be drawn & each will be connected to equipotential earth bus installed in building.

All joints shall be riveted and sweated. Joints in the earth bar shall be bolted and the joints faces tinned. These shall be tinned at the point of connection to equipment and special care taken to ensure a permanent low resistance contact to iron or steel. All steel bolts, nuts, washers etc. shall be cadmium plated, main earth bars shall be spaced sufficiently on the surface to which they are fixed such as walls or the side trenches to allow for ease of connections. The earthing shall suitably be protected from mechanical injury by galvanized pipe wherever it passes through wall and floor. The portion within ground shall be buried at least 75 cm deep. The earthing lead shall be securely bolted and soldered to plate or pipe as the case may be. In the case of plate earthing the lead shall be connected by means of a cable socket with two bolts and nuts. All washers shall be of the same materials as the plate or pipe. All iron bolts nuts and washers shall be used.

Test Certificates:
Following reports/documents shall be submitted to the EIC:

- Test report /Composition report for backfill material.
- Site test report for Measurement of Earth Resistance values (Grid/Individual).
- As-built drawing of unit earth pit, earthing layout.

## 8. Light/Power wiring

### 8.1. SCOPE

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

### 8.2. 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 “submain wiring”, which are defined hereunder.

### 8.3. 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 device (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 based on consideration of the length as per CPWD standard.

#### 8.3.1. 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

### 8.4. 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

### 8.5. 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.

## 8.6. 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.

## 8.7. OTHER WIRING WORKS:

As per the details given in the SoQ.

### 8.7.1. SYSTEM OF DISTRIBUTION AND WIRING:

- 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.
- Distribution: The wiring shall be done on a distribution system through main and/or branch (submain) 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 number 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.
- 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.

### 8.7.2. 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.
- 5A/6A Socket outlet shall be wired in the light plug point circuit.
- 6/16A combined socket outlets and other power outlets shall be wired in the 'Power' circuits.
- 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.

### 8.7.3. Run of Wiring:

The wiring shall be in concealed conduit/surface casing/capping as per SoQ. Due consideration shall be given for neatness, good appearance and safety.

### 8.7.4. 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 laid up to the switchboard or distribution board as the case may be.

### 8.7.5. 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 100 mA tripping current. Socket Outlets shall be rated according to their intended use only.

### 8.7.6. 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.

## 8.8. CONFORMITY TO CEA REGULATIONS, 2023 AND STANDARDS:

All electrical works shall be carried out in accordance with the provisions of CEA (Measures relating to safety and electric supply) Regulations 2023, 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.

### 8.8.1. TESTING OF WIRING / INSTALLATION:

Before/after and in stages, wherever required, OIL's engineer-in-charge shall inspect drawing of wires through conduits for correct size, quality, colour and continuity (absence of loops) from points to switchboards and other wiring items. Inspection will be done in stages, as work progresses.

In case of casing/capping type wiring or as per SoQ, 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, contractor shall issue a test certificate, countersigned by certified supervisor under whose supervision the job was carried out.

The following tests should be carried out:

- Insulation resistance test

- Earth continuity test
- Earth electrode resistance test
- All necessary test instruments shall be arranged by the contractor.

## 8.9. GENERAL REQUIREMENTS OF COMPONENTS:

### 8.9.1. Quality of materials:

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

### 8.9.2. 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.

### 8.9.3. Conformity to Standards:

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

**General Notes:**

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

## 8.10. WIRES AND CABLES:

### 8.10.1. 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 (from MCB DB to switchboard),
- 'Power': 4 sq. mm,
- Circuit (Sub-Main): 10 sq. mm (from VTPN DB to SPN DB),

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

### 8.10.2. Cables:

Cables shall be armoured, PVC insulated and PVC sheathed power cables of 1100 V grade. They shall be fitted on wall surface/ Tray/False ceiling/False floor as required, clamping shall be with 1 mm thick saddle, wherever required.

## 8.11. PVC CONDUITS:

- All rigid conduit pipes shall be of medium (or heavy) duty PVC conduit of good quality and be BIS marked.
- 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.
- 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. Wiring shall be so designed such that individual conduits are not filled beyond 40% of their capacity.

## 8.12. WIRING ACCESSORIES:

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.

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 outlet 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.
- Switch box covers: These shall be modular type of suitable size.
- 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.

## 8.13. FITTINGS:

Indoor type fittings specification (as appearing in BoQ):
Suspension mount and batten mount LED luminaire with all accessories and lamps, ready for installation as per the following description.

- Optical system should provide all round glare and beam control.
- Luminaire shall be as follows:
    - 4 feet long (1200 mm) LED batten luminaire for room/passage/corridor as detailed in SoQ
    - 2 feet long (600 mm) LED batten luminaire for toilet/bathroom as detailed in SoQ
    - 12 W LED downlighter for room/passage as detailed in the SoQ
    - 2W LED Night lamp as detailed in the SoQ
    - Flood light (50 W) LED luminaire for area light as detailed in the SoQ
    - 10W LED Bollard as detailed in the SoQ
    - 10W LED under water light as detailed in the SoQ
    - 40W LED Street light as detailed in the SOQ
- 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.
- Luminaires shall be supplied with all standard accessories (including chains, brackets, mounting clamps etc.) for suspension and/or wall mounting.
- Power supply: 230/240 V, 50 Hz, single phase
- The type of fittings shall be as specified in SOQ.

## 8.14. PRE-WIRED MCB DISTRIBUTION BOARDS AND ACCL:

- **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:
- 100 A copper bus bar(s) for MCB DBs
- 250 A copper busbar for VTPN DB (fitted with 160A MCCB)

- Neutral link
- Common earth bar
- DIN bar for mounting MCB's
- Screw type terminal connectors suitable for incoming and outgoing cables.
- Earthing stud(s)The board shall be fully pre-wired 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.

The Electric transfer switch that switches the load between Mains and Gen. and limit current at Gen. end shall be connected to MCB DBs of Each Flat. The Circuit should work to limit load current during main power failure and when power supply from DG set is fed through AMF panel. The Circuit should be such that it should protect over load and shall be available only at the time of Mains power failure only. Max load=800W. Range: Mains 30 A/Gen 5A max.

### 8.14.1. 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.

## 8.15. 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.

## 8.16. 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.

### 8.17. 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 energized only after OIL approves the work done and submission of test certificate.

## 9. LOAD BREAK SWITCH

SITC of Load Break Switch with earth switch & fuse mechanism(outdoor type). The Load Break Switches shall be of three phase type, suitable for outdoor use. The operating mechanisms and the unit shall be suitable for pole mounting.

### 9.1. SYSTEM PARAMETERS

- Nominal Voltage - 11kV
- System highest voltage - 12kV
- System frequency - 50Hz
- Number of phases – 03
- Rated continuous current- 400/630 A
- Method of earthing - Solidly earthed
- System fault level - 26.0 kA (rms)
- Rated Insulation Level- 28kV/75kV peak
- No. of Poles-3

### 9.2. Specification

- The Load Break Switches shall be of three phase type, suitable for outdoor use(IP68 RATED). It must have apron cover over it. The operating mechanisms and the unit shall be suitable for Outdoor use & floor mounting.
- The construction of the whole unit complete with adjustable support brackets, clamp plates, bolts, nuts and washers shall be compact, light weight and robust.
- The phase centres shall not be less than 600mm for 12kV.
- The solid core type post insulator support shall be of high quality insulating porcelain utilising clean aero-dynamic sheds giving extended creepage distances and excellent performance even under conditions of extreme atmospheric conditions.
- The total creepage distance and the protected creepage distance (if applicable) shall be 300 mm & 105 mm reapectively.
-

- All castings for fixed and moving contacts, terminal pads shall be of Phosphor Bronze or Hard Drawn Copper or Silver/Nickel coated Electrolytic Copper.
- The contact surface shall be made out of silver/nickle plated hard drawn copper, and shall be mounted on a Phosphor bronze castings or any other harder metals which does not deteriorate for prolonged electric arc.
- The stationary contacts shall be backed by stainless steel pre-stressed compression springs with multi finger contacts to provide the required contact pressure, resulting in minimum electrical resistance.
- Clamp type terminals, made of phosphor bronze castings and silver/nickel all be provided to accommodate 4mm to 16mm dia. aluminium conductors. Bolt and Nuts shall be of Stainless Steel.
- The internal contacts shall be spring loaded and be of such design as to provide a positive and independent tripping action.
- Operating Mechanisms shall be Motorised/Manual, of Single Break.
- The bearings of the rotating mechanism shall be permanently sealed, corrosion proof, be of anti-friction type.
- Unless otherwise specified all iron and steel parts shall be galvanised after the sawing, shearing, drilling, punching, filling, bending and machining operations.

- Mechanical interlocks must be provided between Main switch & earth switch in such a way , the Earth switch can be closed only when the main switch is in open condition & viceversa.
- Access to the HT fuses must be restricted when the main switch is in ON condition.
- During Manual operation, interlocks must be provided in such a way that the operating handle can be inserted to operate either main switch or earth switch.
- Auxiliary Switch - 4No+4NC for Local/Remote ON,OFF indication, Line Line indication.
- The Load Break Switch and Switch fuse units are used for switching of transformers.
- The Switch fuse units must be supplied with H.T. Fuses mounted at the bottom of the Switch as per requirements .
- The LBS must be fitted with Shunt Trip release mechanism with solenoid coil .
- Shunt trip coil 110V or 220V AC fitted on switch.
- Testing of LBS must be done as per IS9920/ IEC 265.

**10. QAP**

- The bidder shall invariably furnish following information for DG SET, TRANSFORMER,LBS and LT PANELs for quality inspection and quality maintentence
- Statement giving list of important raw materials, names of sub-suppliers for the raw materials, list of standards according to which the raw materials are tested, list of tests normally carried out on raw materials in the presence of bidder's representative, copies of test certificates.
- Information and copies of test certificates as above in respect of bought out accessories.
- List of manufacturing facilities available.
- Level of automation achieved and list of areas where manual processing exists.
- List of areas in manufacturing process, where stage inspections are normally carried out for quality control and details of such tests and inspection.
- List of testing equipment available with the bidder for final testing of equipment along with valid calibration reports. Manufacturer shall possess 0.1 accuracy class instruments for measurement of losses.
- Quality Assurance Plan (QAP) withhold points for purchaser's inspection.
- Type test certificates of the raw materials and bought out accessories.
- The successful bidder shall submit the routine test certificates of bought out accessories and central excise passes for raw material at the time of routine testing.

**Quality Inspection on basis of QAP**

- All the routine tests and special tests as per relevant IS are to be carried out in presence of OIL's Engineer at manufacturer's works. The contractor will give intimation to OIL 15 days advance prior to commencement of tests so that OIL can depute representative for witnessing tests in time.
- The item shall be cleared for dispatch only if the test results comply with the specifications and testing results are within the tolerance limits.
- Materials / equipment failed to conform to the specifications/during testing, OIL's representative shall have the right to reject the materials and in that case, the contractor will either replace the rejected materials or make alterations necessary to meet specifications requirements free of costs.

**Annexure II**

**Acceptable Make(or Equivalent) with Specification:**

A. For 1.1 KV/415V, AC equipment:

Digital Multifunction meter, Current Transformer, LED, HRC fuses, Trip- neutral-close selector switch, Air Circuit Breaker and MCCB are as follows:

1. Digital Multifunction Meter:
   Make: Schneider Power logic PM200 series, HPL -Socomec (Diris A41), Siemens PAC3200, Secure.
2. Digital Ammeter with inbuilt selector switch:
   Make: Schneider electric, HPL, LT, Siemens, IndoAsian.
3. Current Transformer:
   Make: Kappa, Precise Electrical, Pragati Electrical, Siemens, L&T, Schneider electric, IndoAsian, ECS.
4. LED:
   Make: Binay, Tecnic, L&T, Siemens.
5. HRC Fuses:
   Make: GE, Siemens, L&T, Schneider, Cooper Bussman, IndoAsian.
6. Trip-Neutal-Close Selector Switch:
   Make: Kaycee, Salzar, Schneider, L&T, Siemens, IndoAsian.
7. Digital Earth Leakage Relay with CBCT
   Make: LEGRAND/SCHNEIDER/GE/PROKDV'S/NIC
8. Air Circuit Breaker: ACB with minimum LSIG Protection EDO type, fault level 50 kA or above at 500 V,AC. Draw-out type, electrical and manual operated having master-pact with O/C, S/C and Earth fault protection. Spring charging shall be motorized and manual also with 230V AC supply.
   Make:
   - Schneider Electric (Merlin Gerin) of NW series with micro logic P/6.0H or above.
   - Siemens India-WL Series with electronic trip unit ETU 76B release.
   - GE India- EntelliGuard SL. ACB with electronic trip unit iv) ABB india- Emax series with electronic trip unit
   - Legrand- model DMX3-N with electronic based protection unit MP4 LSIG.
   - L&T Air Ciruit Breaker, Type U- Power omega with matrix protection and control unit MTX4.
   - IndoAsian Optibreak model, EDO with LSIG Protection.

9. MCCB: 415 volt, fault level 36kA and above with O/C, S/C and Earth fault protection (for distribution application with 4 sets of spreaders for cable connection)/ 25 kA for 250/100 Amps MCCB with LSIG protection Make:

i) Schneider Electric (Merlin Gerin): model compact NSX with electronic trip unit with micro logic. ii) ABB - Tmax Series, model-TP5 electronic Trip unit -LSIG.

iii) Siemens India Ltd: Sentron VL MCCB, model VL standard with electronic release and microprocessor based ETU-LSIG/LSING.

iv) Legrand: Model- DPX/DPX3 with LSIG release.

v) GE India: Record Plus, FG with electronic trip unit.

vi) Indoasian Optium Series with LSIG release

10. Stainless steel single compression cable gland: Make: Dowell/gland make/Jainson/Baliga/3D

11. Earthing cable

Make: NICCO/ASIAN/CRYSTAL/UNIVERSAL/ CCI/RPG/INCAB/POLYCAB/ANKUR/ NECAB/HAVELLS/KEI

12. 1.1 KV grade XLPE/PVC cable: Make:

Polycab/ Crystal/ RPG/ Prestige/Havells/Universal

13. Sweating socket:

Make: Dowell, 3M

14. Auxiliary contactor:

Make: Siemens/ ABB/ Schneider electric/IndoAsian

B. 11KV, AC HT equipment:

1. HT Current transformer- Make:
Kappa/Precise Electricals/ Intrans Electro Components Pvt Ltd/Pragati Electricals, ECS/As per standard approved makes of JdVVNL.

2. Voltage transformer – Make:
Kappa/Precise Electricals/Intrans Electro Components Pvt Ltd/Pragati Electricals/ As per standard approved makes of JdVVNL.

3. Make of battery:
Make: Exide/Amco/Amararaja/Amron/Tata Green

4. Make battery charger:
Make: Exide/Ruttonsha/ HBL/Emerson/Amararaja

**5.** Directional type Numerical protection relay:

Make: ABB(Type REF615)/Siemens(Type Siprotec 7SJ80 & 7SD80)/ Siemens-Argus /SEL(Type SEL-751&SEL-311)/Schneider Group,type Micom-P14X series/Merlin-GErin (Schneider Group,typeSepam Series S-84)

**6.** Non directional type Numerical protection relay Make:

ABB(Type REF615)/Siemens(Type Siprotec 7SD80)/ Siemens-Argus /SEL(Type SEL751)/Schneider Group,type Micom-p14x series/Merlin-GErin(Schneider Group, type
Sepam Series S-84)

**7.** 11KV, Vacuum Circuit Breaker Make:

Siemens/ ABB/ Schneider
8. 11KV Interrupter:
Make:Siemens/ ABB/ Schneider/ Crompton greaves/L&T
9. 11KV XLPE cable:
Make: Havells/Nicco/Crystal/Polycab/Raychem RPG
10. Cable termination kit:
Make: Raychem RPG/ Xicon/3M/ Multishrink
11. MC type Ammeter & Voltmeter:
Make: AE

12. Digital type KWH Meter:

Make: Conserve, L&T,GE.

13. Dry type 1215 KVA Transformer:

Make: Voltamp/ ABB/Raychem RPG/CG/Schneider/BHEL/Siemens

C. DG Set:
i. Engine: Make: Cummins/VOLVO Penta/Caterpillar/Kirloskar
ii. Alternator: Make: Stamford/Cummins/Caterpillar/Volvo Penta/Kirloskar

D. SPV Mono/Poly crystalline Module:

Make: Waree/Adani/TATA Power/Vikram Solar

E. Airconditioner:

Make: Daikin, O-General, Mitsubishi, Voltas

E. Make of Items for wiring

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)
Make: FINOLEX/HAVELLS /POLYCAB
2. GI Pipe for earthing

Make: JINDAL/TATA
3. Copper lugs

Make: DOWELL/3D-BILLET/JAINEX/SCHNEIDER
4. PVC conduit

Make: RICHA/PLAZA/AKG/PRESTO PLAST/Anchor

5. Metal clad switch-socket unit, 20/25 Amps

Make: LEGRAND/SCHNEIDER/SIEMENS/HAVELLS/ INDO-ASIAN
6. Exhaust fan

Make: USHA/HAVELLS/CROMPTON/BAJAJ
7. Enclosure for MCB

Make: LEGRAND/SCHNEIDER/SIEMENS INDOASIAN/L&T
8. Metal GI Box

Make: LEGRAND/SCHNEIDER/CRABTREE INDOASIAN ELVIRA/HAVELLS
9. Ceiling fan/Wall mounted fan, 1400 mm Sweep, White in Colour

Make: HAVELLS(Pacer)/BAJAJ(Kassels)/ORIENT (PSPO)/USHA/CROMPTON GREAVES
10. Modular Fan regulator 100W

Make: LEGRAND/SCHNEIDER/CRABTREE INDOASIAN ELVIRA/HAVELLS
11. Modular switches/Socket/Box/ Blank plate

Make: Legrand/ Crab tree/L&T/IndoAsian
12. VTPN DB/TPN DB/SPN DB

Note: DB and all components fitted therein have to be of same make.
Make: ABB/INDO-ASIAN/L&T/ SCHNEIDER/ SIEMENS/LEGRAND
14. All RCBO

Note: Make of RCBO, MCBs and box shall be of same make.
Make: ABB/INDO-ASIAN/L&T/ SCHNEIDER/ SIEMENS/LEGRAND
15. LED light fitting

Make: Phillips/ GE/ Crompton greaves/ Bajaj/Havells
16. MCB:

Make: Siemens/ ABB/ Schneider electric/Legrand/L&T
17. ACCL Load Limiter

Make: Legrand, Havells, Electron, Panasonic, L&T, HPL

18. INVERTER(S): MAKE: SAM/ABB/Medha/Luminous

19. PV Cable: Make: Polycab, Havells, KEI, Finolex 20. Energy Meter: As per JdVNNL approved makes only.

21. Monitoring System: Make: SMA/ABB/Medha/Luminous

## SCOPE OF WORK: IT WORKS

1. **Scope of work:** This scope involves the installation of network infrastructure components in a housing area to provide secure WAN connectivity through Wi-Fi

to the entire area with firewall. The equipment to be installed includes network switches, Firewall, Wi-Fi 6 Access Points, IO faceplates, racks, UTP cables, PVC pipes. The work will also cover the installation and commissioning of the entire Wi-Fi network.

## 2. Equipment and Materials:

The following equipment and materials will be supplied and installed:

| Part Code/Item | Description | Qty |
|---|---|---|
| L2 Switch | 8-Port Gigabit PoE+ Ethernet Smart Switch with 2 Dedicated SFP Ports (75W) | 4 |
| L3 Switch | 24 port 1G ethernet layer 3 switch 4x1G SFP port for uplink | 1 |
| Access Point | Gigabit Ethernet PoE+5400 Dual-Band PoE Multi-Gig Insight Managed WiFi 6 Access Point with 5 Year Licence | 10 |
| Firewall | Firewall capabilities, VPN support, intrusion prevention, antivirus protection, and web filtering. | 1 |
| UTP | UTP Cat6 Roll | 3 |
| IO | Single IO with Face Plate & Back Box | 10 |
| Rack | 6U Rack | 4 |
| RJ 45 connector | | 20 |
| Pvc Pipe | Pvc 20 MM pipe with L bend & T Bend | 300 |
| Installation charges | Complete Installation Charges | 1 |

## 3. Technical Specifications of the items to be supplied:

### a. L2 switch:

| S.No. | Technical Specifications | |
|---|---|---|
| | **8-port 10/100/1000 Base-T PoE+ Managed Switch with Fiber Uplinks** | |
| 1 | **Physical Interface** | 8 # 10/100/1000 Mbps Base-T auto-sensing PoE+ (75W) ports |
| | | 2 # 1000 Base-X SFP uplink ports |
| | | Rackmount through Rack-mount kit |
| | | Internal Power Supply & Fan Less |
| 2 | **Network Protocol and Standards** | IEEE 802.3af/at (Power over Ethernet Plus) |
| | | IEEE 802.3ad Link Aggregation (manual or LACP) |
| | | IEEE 802.1D Spanning Tree Protocol (STP),RSTP,MSTP |
| | | IEEE 802.1p Class of Service (CoS) |

| | | |
|---|---|---|
| | | IEEE 802.1Q static VLAN |
| 3 | **Performance** | Bandwidth: 20 Gbps full duplex |
| | | Buffer memory: 1.5 MB |
| | | Address database size: 16k media access control (MAC) |
| | | IEEE 802.1Q static VLAN (64 groups, static) |
| | | Multicast groups : 512 |
| | | Port-based QoS |
| | | Number of VLANs: 256 |
| 4 | **Other Requirements** | Number of ARP cache entries:479 ARP / 223 NDP |
| | | Number of DHCP snooping bindings: 8K |
| | | Access Control Lists (ACLs): 100 shared for MAC, IP and IPv6 ACLs |
| | | Packet forwarding rate 64 Bytes: 14.88 Mpps |
| | | SNMP v1, v2c, v3 |
| | | Auto denial-of-service (DoS) protection |
| | | IEEE 802.1x with Guest VLAN |
| | | IEEE 802.1Q VLAN tagging |
| | | Port-based security by locked MAC addresses |
| | | Storm control for broadcast, multicast and unknown unicast packets |
| | | Dual software (firmware) image |
| | | TACACS+ and RADIUS support |
| | | TLS Web-based access (version): V1.0 |
| 5 | **Power Specifications** | |
| | | Max Power consumption: 101 W |
| | | 100-240VAC/50-60-Hz universal input |
| | | Web-based configuration |
| 6 | **Environmental Specifications** | Operating temperature: 0° to 50°C |
| | | Storage temperature: -(-20° to 70° C) |
| | | Operating humidity: 90% maximum relative humidity, non-condensing |
| 7 | **Certifications** | CE EN 55022/EN 61000/EN 55024 |
| | | IEC 60950-1:2005 (ed.2)/A1:2009/A2:2013 |
| | | FCC Part 15 Class A/VCCI Class A |
| | | AN/NZS CISPR 22:2009/A1:2010 CLASS A |
| | | C-Tick, UL/cUL 60950-1 |
| 9 | **Warranty and Support** | Lifetime new hardware replacement warranty |
| | | Lifetime free latest firmware support |

**b. L3 Switch:**

| | |
|---|---|
| **1.0** | **Product details- Please specify** |
| 1.1 | Please mention Make, Model No. and Part Code |
| **2.0** | **Architecture & Port Density** |
| 2.1 | Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3. |
| 2.2 | Switch should have Twenty-Four (24) 1GbE SFP slots and Four (4) 1GbE SFP+ Slots. |
| **3.0** | **Performance** |
| 3.1 | Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of 52 Gbps or more. |
| **4.0** | **Layer 2 features** |
| 4.1 | Switch should support min. 1024 VLANs |
| 4.2 | Switch should support 10K MAC addresses or more. |
| 4.3 | Shall support IP multicast snooping IGMP v1, v2, v3 |
| 4.4 | Switch should support Jumbo Frames (up to 9K bytes) |
| **5.0** | **Layer 3 features** |
| 5.1 | Should support minimum 10K IPv4 routes and 5K IPv6 routes or more |
| 5.2 | Switch should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from Day 1. |
| 5.3 | Should support OSPFv2, OSPFv3, BGP4 and BGP4+ Dynamic IPv4 & IPv6 Routing protocols and Multicast Routing Protocols from Day 1. |
| **6.0** | **Security** |
| 6.1 | Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords. |
| 6.2 | Switch should support secure communications to the management interface and system through SSL, Secure |

| | |
|---|---|
| | Shell (SSH v2/v3), Secure Copy and SNMPv3 |
| 6.3 | Switch should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection. |
| 6.4 | Switch should support IPv4 and IPv6 ACLs with up to 500 rules per ACL and a minimum of 6K rules per system (Standalone Switch or Stack). |
| 6.6 | Switch should support IPv6 Router Advertisement (RA) Guard. |
| 6.7 | Switch should support Flexible Authentication with 802.1x Authentication and MAC Authentication. |
| **7.0** | **Manageability** |
| 7.1 | Switch should support manageability using Network Management Software with Web based Graphical User Interface (GUI). |
| 7.2 | Switch should provide Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring |
| 7.3 | Switch should support NetFlow or sFlow or equivalent |
| **8.0** | **Physical Attributes** |
| 8.1 | Mounting Option : 19" Universal rack mount ears |

**c. Access Point:**

| S.No. | Technical Specifications | |
|---|---|---|
| | **Dual Band 802.11ax Wireless Access Point<br>2x2 in 2.4GHz Dual Band Wireless Access point** | |
| 1 | **Physical Interfaces** | One 2550 BASE-T Gigabit Ethernet (RJ-45) ports with Auto Uplink, (Auto MDI-X) supporting IEEE 802.3af or 802.3at Power over Ethernet (PoE) |
| | | Internal antenna should be 2.4/2.9dBi (2.4GHz/5GHz) or higher. |
| | | Five (5): Power and Cloud connection; Two (2) LAN ports; 2.4GHz status; 5.0GHz status |
| | | provision for power connector : 12V DC, 2.5A |
| 2 | **Standards** | IEEE 802.11AX,IEEE 802.11ac,IEE 802.11n |
| | | 5GHz: 4800Mbps 2.4GHz: 600Mbps |

| | | |
|---|---|---|
| | | WMM - Wireless MultiMedia Prioritization |
| | | WDS- Wireless Distribution System |
| | | Power over Ethernet (PoE) IEEE 802.3af/802.3at |
| 3 | **Security** | Wi-Fi Protected Access (WPA3) |
| | | Wired Equivalent Privacy (WEP) 64-bit, 128-bit, and 156-bit encryption |
| | | Wireless access control to identify authorized wireless network devices |
| | | MAC address filtering with access control |
| | | Basic Service Set Coloring (BSS Coloring ) |
| | | Security Socket Layer (SSL) remote management login |
| 4 | **Network Management** | Remote configuration and management through Web browser, SNMP or Telnet |
| | | SNMP management supports SNMP |
| 5 | **Manageability** | As standalone |
| | | Remote/Cloud manageble |
| 5 | **Advanced Wireless Features** | Wireless Distribution System (WDS) |
| | | Wireless backhaul to form Mesh Network |
| | | Bridge mode: Point-to-multipoint wireless WDS mode |
| | | Adjustable Transmit Power Control (TPC) Device detection |
| | | AirQual feature enables spectrum analysis and interference identification |
| 6 | **Other Specifications** | PoE power consumption should not be more than 21.2W Watts |
| | | Bandsteering |
| | | AX5400 5.4Gbps |
| | | Target Wake Time (TWT) |
| | | Block SSID Broadcast |
| | | Ceiling mounting/ Wall mounting |
| | | OFDM and OFDMA should be available |
| | | Deployment Options: Standalone,Mobile App |
| 7 | **Warranty and Support** | 5 Years of Hardware Warranty. |
| | | Lifetime free latest firmware support |

**d. CAT 6 UTP Roll**

| Parameter | Specification |
|---|---|
| Cate 6 cable conforming to ANSI/TIA/EIA-568 C.2 latest or ISO/IEC:11801 latest | Yes |

| | |
|---|---|
| Cable category: Category 6 Unshielded/Unshielded twisted pair or Category 6 Foiled/Unshileded twisted pair or Category 6 Shielded /Foiled Twisted Pair | CAT6 U/UTP |
| Cable colour | Grey |
| Conductor diameter | 0.57 mm (23 AWG) |
| Conductor count (in Nos.,) | 8 |
| Length of cable in a bundle (Mtrs) | 305 mtrs. |
| "CAT6 Cable can transmit data at 1000 Mbps (~1 Gigabit per second) with a frequency of 250 MHz and suitable for 10BASE-T, 100BASE-TX Fast Ethernet and 1000BASE-T / 1000BASE-TX (Gigabit Ethernet)." | Yes |
| Maximum DC resistance - in Ohm/Km | Max. 100 Ohm/Km |
| Conductor Materail | Bare Copper |
| Conductor Insulation Material | Polyethylene |
| Cable jacket material | Fire retardant PVC |
| Conductor stranding | Solid |
| Cable should have internal cross separator | Yes |
| Storage temperature range | minus 20 degree C to plus 60 degree C |
| Operating temperature range | minus 20 degree C to plus 60 degree C |

**e. 6U Rack**

| Parameter | Specification |
|---|---|
| Type of Server Racks | Rack Enclosures |
| Size of Server Rack Enclosure | 6U |
| Depth of the Rack (mm) | Upto 500 |
| Mount Type | Wall mount |
| Front glass Door | Yes |
| Type of glass used in front door | Transparent Toughened Glass |
| Material used for rear door | Steel |
| Secure Locks | Available |
| Support cable entry from top or bottom | Yes |
| Vertical & Horizontal managers | Yes |
| Number of Fan For Heat dissipation (nos) | 1 |
| PDU Power Strips | Available |
| Warranty (Years) | 1 |

**f. IO:**

| Parameter | Specification |
|---|---|

| | |
|---|---|
| Cate 6 Information outlet with faceplate (Single/Dual/Quad) conforming to ANSI/TIA/EIA-568 C.2 latest or ISO/IEC:11801 latest | Yes |
| Type of information outlet | U/UTP (Unshielded) |
| Connector type | RJ45 |
| No. of ports (RJ 45) | One port |
| Dust protection for Face Plate or Information Outlet | Yes |
| Back Box (3x3 inches) | Yes |
| Applications: 0BASE-T, 100BASE-TX Fast Ethernet, 1000BASE-T (IEEE802.3) , 100VG-AnyLAN (IEEE802.12), 250 MHz Broadband Video, Voice, T1, ISDN, 155/ 622 Mbps ATM , Power over Ethernet (POE, POE+, 4 PPOE) | Yes |
| Plug insertion durability | ≥ 750 mating cycles |

**g. Firewall:**

| | | |
|---|---|---|
| **1.0** | IPS Throughput (Mbps) | 670 |
| **2.0** | VPN AES-128 Throughput (Mbps) | 970 |
| **3.0** | Connections per Second | 10,500 |
| **4.0** | Concurrent Connections | 1,000,000 |
| **5.0** | Firewall Throughput (Mbps) | 1,000 |
| **6.0** | Next Generation Firewall (Mbps) | 600 |
| **7.0** | Threat Prevention (Mbps) | 340 |
| **8.0** | Firewall 1518 Byte UDP Packets (Mbps) | 2000 |
| **9.0** | WAN port | 1x 10/100/1000Base-T RJ-45 port |
| **10.0** | LAN PORT | 5x 10/100/1000Base-T RJ-45 ports |
| **11.0** | Wi-Fi | 802.11 a/b/g/n/ac/ax MU-MIMO 3x3 |
| **12.0** | Radio Band (association rate) | One radio band non-concurrent: 2.4GHz or 5GHz |
| **13.0** | Console Port | 1x USB-c |
| **14.0** | USB Port | 1x USB 3.0 |
| **16.0** | Operating / Storage Temperature | 0°C ~ 40°C / -45°C ~ 60°C (5~95%, non- |

| | | |
|---|---|---|
| | | condensing) |
| **18.0** | AC Input | 100 – 240VAC, 50 – 60 Hz |
| **19.0** | Power Supply Rating | 12V/3.3A 40W power adapter |
| **20.0** | Certification - Safety/Emissions/Environment | CB 62368-1/CE 62368-1/UL 62638-1/CB 60950-1, FCC IC Class B, CE LVD/VCCI/ AS/NZS RCM EMC, RoHS/REACH/WEEE |
| **21.0** | Warranty | 3 years |

**Software Features**

- Security: Firewall, VPN, User Aware, QoS, Application Control, URLF, IPS, Anti-Bot, Antivirus, Anti-Spam, sandboxing
- Unicast, Multicast Routing and Clustering Routing Protocols:OSPFv2, BGPv4 and 4++, RIP, PIM (SM, DM, SSM), IGMP, Cluster High Availability
- Mobile Access User License: 100

**4. Special Conditions:**

a. Conduct a site survey to determine optimal locations for access points.

b. Install and configure access points, switches, and firewall devices.

c. Securely mount access points in identified locations using appropriate mounting brackets and hardware.

d. Run Ethernet cables from access points to network switches or PoE injectors. Ensure cables are properly labelled and managed.

e. Use PoE injectors or switches to power the access points, minimizing the need for separate power outlets.

f. Install the Security Gateway in a central, secure location within the network infrastructure.

g. Connect the security gateway to the main router(L3) and network switches.

h. Configure the security gateway with appropriate firewall rules, VPN settings, and intrusion detection/prevention features.

i. Configure access points with SSIDs, security settings (WPA2/WPA3), and network policies.

j. Set up a separate guest network with appropriate access controls and bandwidth limitations.

k. Perform signal strength and coverage tests throughout the complex to ensure there are no dead zones.

l. Test the network for speed, latency, and reliability under typical usage conditions.

m. Verify the security settings, including encryption, firewall rules, and guest network isolation.

n. Provide detailed documentation of the installation, including network diagrams, equipment locations, and configuration settings.

o. Include a user manual for residents explaining how to connect to the Wi-Fi network and troubleshooting tips.

p. Acceptance criteria includes : Successful installation and testing of all components , Verification of the Wi-Fi network provides comprehensive coverage and meets performance and security requirements.

## SCOPE OF WORK (Fire Safety & HSE)

**Fire:**

- The contractor shall not set fire to any standing jungle, trees, any material including bush wood or grass without a written permit from the Executive Engineer.
- When such permit is given and, in all cases, when destroying cut or dug up trees, any material including bush wood grass etc. by fire, the contractor shall take necessary measures to prevent such fire spreading to or otherwise damaging surrounding property.

**Safety:**

- The contractor should arrange suitable first aid measures such as First Aid Box, trained personnel to give First Aid, Stand by Ambulance or Vehicle and install fire protection measures such as: adequate number of steel buckets with sand and adequate fire extinguishers.
- The contractor should ensure the health and safety of workers during construction, with effective provisions for the basic facilities such as sanitation and drinking water, and safety PPEs/equipment's for workers at site.
- The contractor should ensure cleanliness of workplace with regard to the disposal of waste and effluent; provide clean drinking water and latrines and urinals as per applicable standard.
- The contractor should ensure Maximum Vehicular Limit speed on construction site to 10 km/Hr.
- The contractor should ensure Safety requirement for scaffolds and Hoisting Appliances as per **Annexure -III**

**Environment:**

- The contractor should strictly follow the relevant environmental rules applicable during construction.
- The contractor must ensure efficient use of resources like water, fuel oil and lubricants. The contractor should ensure proper awareness to workers to maintain a green and clean environment inside / outside the construction premises. The contractor must collect and dispose of all the waste and scrap materials at the designated place only.
- The contractor shall make sufficient arrangement for draining away the surface and suage water as well as water from the bathing and washing places and shall dispose of the wastewater in such away as not cause any nuisance.
- The disposal of any hazardous waste (If any) shall be done as per guidelines issued by Rajasthan State Pollution Control Board.

- Adequate measures to be taken to reduce Air and Noise pollution during construction.
- There should be adequate water supply/storage for dust suppression on site.
- Devise and arrange methods of working and carrying out the work in such a manner so as to minimize the impact of dust on the surrounding environment.
- All the trees inside the construction site shall be uprooted and re-plant at the site as per OIL's Engineer In-charge.
- The contractor shall Obtain all statutory clearances including Tree clearance from the concerned authorities. However, statutory fee shall be paid by the OIL on submission of payment receipt.

**Annexure -III**

**Safety requirement for scaffolds**

The contractor shall provide suitable scaffolds and working platforms, gangways, and stairways and shall comply with the following regulations in connection therewith:

a) Suitable scaffolds shall be provided for workmen for all work that cannot be safely done from a ladder or by other means.

b) A scaffold shall not be constructed, taken down substantially altered except

   i) Under the supervision of a competent and responsible. Person, and

   ii) As far as possible by competent workers possessing adequate experience in this kind of work.

c) All scaffolds and appliance connected therewith and all leaders shall -

   i) Be of sound material

   ii) Be of adequate strength having regard to the loads and strains to which they will be subjected, and

   iii) Be maintained in proper condition.

d) Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.

e) Scaffolds shall not be overloaded and as far as practicable the load shall be evenly distributed.

f) Before installing lifting gear on scaffolds special precaution shall be taken to ensure the strength and stability of the scaffolds.

g) Scaffolds shall be periodically inspected by a competent person. Contractor No. of Corrections Executive Engineer

h) Before allowing a scaffold to be used by his workmen, the contractor shall check whether the scaffold has been erected by his workmen or not take steps and to ensure that it complies fully with the regulations herein specified.

i) Working platforms, gangways, and stairways shall -

   i) Be so constructed that no part thereof can sag unduly or unequally.

   ii) Be so constructed and maintained having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping, and

j) In the case of working platforms, gangways, working places and stairways at a height exceeding 3 meters.

i) Every working platform and every gangway shall have to be closely boarded unless other adequate measures are taken to ensure safety.

ii) Every working platform, gangways, working places, stairway shall be suitably fenced.

k) Every opening in the floor of the building or in working platform shall except for the time and to the extent required to allow the access or persons or the transport or shifting of materials be provided with suitably means to prevent the fall of persons or material.

l) When persons are employed on a roof where there is danger of falling from a height exceeding 3 meters suitable precaution shall be taken to prevent the fall of persons or materials.

m) Suitable precautions shall be taken to prevent persons being struck by articles, which might fall from scaffolds or other working place. Safe means of access shall be provided to all working platforms and other working places.

n) Safe means of access shall be provided to all working platform and other working places.

**Safety requirement for Hoisting Appliances**

The contractor shall comply with the following regulations as regards the Hoisting Appliances to be used by him.

a) Hoisting machines and tackle, including their attachment, anchorage's and sports shall -

i) Be of good mechanical construction, sound material and adequate strength and free from patent defect, and

ii) Be kept in good repair and in good working order.

b) Every rope used in hoisting or lowering material or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect. Contractor No. of Corrections Executive Engineer

c) Hoisting machines and tackle shall be examined and adequately tested after erected on the site and before use and be re-examined in position at intervals to be prescribed by the government.

d) Every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering of materials or as a means of suspension shall be periodically examined.

e) Every crane driver or hoisting appliance operator shall be property qualified.

f) No person who is below the age of 21 years shall be in control of any hoisting machine, including any scaffolds, which give signals to the operator.

g) In the case of every hoisting machine and of every chain, ring, hook, shackle, swivel and pulley block used in hoisting or lowering or as a means of suspension the safe working load shall be ascertained by adequate.

h) Every hoisting machine and all gear referred to in the preceding regulation shall be plainly marked with the safe working load.

i) In the case of hoisting machine having a variable safe working load, each safe working load and condition under which it is applicable shall be clearly indicated.

j) No part of any hoisting machine or of any gear referred to in regulation of above shall be loaded beyond the safe working load except for the purpose of testing.

k) Motors, gearing transmissions, electric wiring and other dangerous part of hoisting appliance shall be provided with efficient safe guards.

l) Hoisting appliances shall be provided with such means as will reduce to a minimum risk of the accidental descent of the load.

m) Adequate precautions shall be taken to reduce to a minimum the risk of any part of a suspended load becoming accidentally displaced.

22. **OTHER TERMS AND CONDITIONS:**

i. **Duration of Contract:** 02(Two) Years

ii. **Location of Job**: Baghewala Field, Phalodi District (Rajasthan)

iii. **Mobilization Period:** 15(Fifteen) days from the date of issue of work Order.

iv. **Performance Bank Guarantee:** 10.0% of total Contract value & validity 03(Three) months from date of expiry of contract/defect liability period, whichever is later.

**(END OF SECTION – IV)**

**PROFORMA – A**

**PRICE BID FORMAT**

**(Attached under "NOTES AND ATTACHMENTS" tab in the main bidding page of OIL's e-Tender portal)**

**PROFORMA-B**

**BID FORM**

**(A) BID-FORM**

Date :
Tender No. :
(Insert Bidder's name and address)

Dear Sir,

Having examined the General and Special Conditions of Contract, the Terms of Reference including all attachments thereto, the receipt of which is hereby duly acknowledged, we, the undersigned offer to perform the services in conformity with the said conditions of Contract and Terms of Reference for the sum quoted in the Price Bid Format or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, we shall commence the service from the date of commencement mentioned in the Letter of Award.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum not exceeding 10.00% of estd. contract value for the due performance of the Contract.

We agree to abide by the Bid for a period **120 days** from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before expiry of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof in your notification of award shall constitute a binding Contract between us.

We understand that you are not bound to accept lowest or any Bid you may receive.

Dated this _____ day of _____

**Authorised Person's Signature:** _____

**Name:** _____

**Designation:**_____

**Seal of the Bidder:**

**PROFORMA-C**

**STATEMENT OF COMPLIANCE**
**(Only exceptions/deviations to be rendered)**

| SECTION NO. (PAGE NO.) | CLAUSE NO. SUB-CLAUSE NO. | COMPLIANCE/ NON COMPLIANCE | REMARKS |
|---|---|---|---|
| | | | |

**(Authorised Signatory)**

**Name of the Bidder:** _____

NOTE : OIL INDIA LIMITED expects the bidders to fully accept the terms and conditions of the bid document. However, should the bidders still envisage some exceptions/deviations to the terms and conditions of the bid document, the same should be indicated here and put in their Bid. If the proforma is left blank, then it would be presumed that the bidder has not taken any exception/deviation to the terms and conditions of the bid document.

**PROFORMA-D**

## COMMERCIAL CHECK LIST

THE CHECK LIST MUST BE COMPLETED AND RETURNED WITH YOUR OFFER. PLEASE ENSURE THAT ALL THESE POINTS ARE COVERED IN YOUR OFFER. THESE WILL ENSURE THAT YOUR OFFER IS PROPERLY EVALUATED. PLEASE SELECT "Yes" OR "No" (WHEREVER APPLICABLE) TO THE FOLLOWING QUESTIONS, IN THE RIGHT-HAND COLUMN.

| Sl. No. | REQUIREMENT | COMPLIANCE |
|---|---|---|
| 1.0 | Whether bid submitted under Single Stage Two Bid System? | Yes/ No |
| 2.0 | Whether Bid Security submitted? | Yes/ No |
| 3.0 | Whether GeM Seller ID mentioned / registration certificate is submitted? | Yes/ No |
| 4.0 | Whether quoted offer validity of 120 days from the date of closing of tender? | Yes/ No |
| 5.0 | Whether all BRC/BEC clauses accepted? | Yes/ No |
| 6.0 | Whether prices submitted as per Bidding format? | Yes/ No |
| 6.1 | Whether Bidding format uploaded **under "Notes and Attachments"** tab in the main bidding engine of OIL's e-Tender portal? | Yes/ No |
| 7.0 | Whether confirmed acceptance of tender Payment Terms? | Yes/ No |
| 8.0 | Whether confirmed to Mobilization terms of the Tender? | Yes/ No |
| 9.0 | Whether agreed to submit Performance Security Deposit as asked in tender within 30 days of the issue of Letter of Award/order? | Yes/ No |
| 10.0 | Whether Undertaking of authenticity of information/documents uploaded Along with technical bid? | Yes/No |
| 11.0 | Whether uploaded Integrity Pact duly filled & signed along with technical bid? | Yes/No |
| 12.0 | Whether quoted as per NIT (without any deviations)? | Yes/ No |

**Offer ref ..... Dated .....**

**PROFORMA – E**

**FORM OF PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)***

**(TO BE FURNISHED BY THE CONTRACTOR IN CASE OF SUBMITTING PERFORMANCE SECURITY IN THE FORM OF BANK GUARANTEE AFTER ISSUE OF LOA)**

**To,**
**M/s. OIL INDIA LIMITED,**
**C&P DEPARTMENT**
**JODHPUR, RAJASTHAN, INDIA, PIN - 342005**

WHEREAS _____ (Name and address of Contractor) (hereinafter called "Contractor") had undertaken, in pursuance of Contact No. _____ to execute (Name of Contract and Brief Description of the Work) _____ (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee as security for compliance with Contractor's obligations in accordance with the Contract.

AND WHEREAS we ( May incorporate the Bank Name) have agreed to give the Contractor such a Bank Guarantee; NOW THEREFORE we hereby affirm that we are Guarantors on behalf of the Contractor, up to a total of (Amount of Guarantee in figures) _____ (in words_____), such amount being payable in the types and proportions of currencies in which the Contract price is payable, and we undertake to pay you, upon your first written demand and without cavil or arguments, any sum or sums within the limits of guarantee sum as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or the work to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way cease us from any liability under this guarantee, and we hereby waive notice of such change, addition or modification.

This guarantee is valid until the _____day of _____
The details of the Issuing Bank and Controlling Bank are as under:
A. Issuing Bank:
BANK FAX NO:
BANK EMAIL ID:
BANK TELEPHNE NO:
IFSC CODE OF THE BANK:
B. Controlling Office:

Address of the Controlling Office of the BG issuing Bank:

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

Notwithstanding anything contained herein:

a) Our liability under this Bank Guarantee shall is restricted up to Rs…….
b) This guarantee shall be valid till …….
c) We are liable to pay the guarantee 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:

SIGNATURE AND SEAL OF THE GUARANTORS_____
Designation_____
Name of the Bank_____
Address _____

**Note:**

**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 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.**

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 Performance Security must contain the Contract Number.

**PROFORMA-F**

## AGREEMENT FORM

This Agreement is made on ____ day of _____ between Oil India Limited, a Government of India Enterprise, incorporated under the Companies Act 1956, having its registered office at Duliajan, Assam and Rajasthan Field Office at Jodhpur in the State of Rajasthan, hereinafter called the "Company" which expression unless repugnant to the context shall include executors, administrators and assignees on the one part, and M/s. _____ (Name and address of Contractor) hereinafter called the "Contractor" which expression unless repugnant to the context shall include executors, administrators and assignees on the other part,

WHEREAS the Company desires that Services _____ (brief description of services) should be provided by the Contractor as detailed hereinafter or as Company may requires;

WHEREAS, Contractor engaged themselves in the business of offering such services represents that they have adequate resources and equipment, material etc. in good working order and fully trained personnel capable of efficiently undertaking the operations and is ready, willing and able to carry out the said services for the Company as per Section-II attached herewith for this purpose and

WHEREAS, Company had issued a firm Letter of Award No. _____ dated _____ based on Offer No. _____ dated _____ submitted by the Contractor against Company's IFB No. _____. All these aforesaid documents shall be deemed to form and be read and construed as part of this agreement/contract. However, should there be any dispute arising out of interpretation of this contract in regard to the terms and conditions with those mentioned in Company's tender document and subsequent letters including the Letter of Award and Contractor's offer and their subsequent letters, the terms and conditions attached hereto shall prevail. Changes, additions or deletions to the terms of the contract shall be authorized solely by an amendment to the contract executed in the same manner as this contract.

NOW WHEREAS, in consideration of the mutual covenants and agreements hereinafter contained, it is hereby agreed as follows -

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.

2. In addition to documents herein above, the following Sections and Annexures attached herewith shall be deemed to form and be read and construed as part of this agreement viz.:

a) General Terms and Conditions, (SECTION-III)
b) Scope of Work & Special Conditions of Contract, (SECTION – IV)
c) Price Bid Format, (Proforma-A)
d) Bid Form, (Proforma-B)
e) Statement of Compliance, (Proforma -C)
f) Agreement Form, (Proforma-F)
g) Procedure for obtaining Labour License under Contract Labour (R&A) Act, 1970 & Central Rules-1971, (Appendix-B)

3. In consideration of the payments to be made by the Company to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Company to provide the Services and to remedy defects therein in conformity in all respect with the provisions of this Contract.

4. The Company hereby covenants to pay the Contractor in consideration of the provision of the Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of this Contract at the times and in the manner prescribed by this Contract.

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

Signed, Sealed and Delivered,

| | |
|---|---|
| For and on behalf of | For and on behalf of Contractor |
| Company (Oil India Limited) | (M/s. _____) |
| Name: | Name: |
| Status: | Status: |
| In presence of | In presence of |
| 1. | 1. |
| 2. | 2. |

* Bidders are NOT required to complete this form.

**PROFORMA–G**

**PROFORMA LETTER OF AUTHORITY**

TO
**GM (C&P)**
Contracts & Purchase Department
Oil India Ltd., Rajasthan Field
Jodhpur-342005
Rajasthan, India

Sir,

**Sub: OIL's IFB No. CJI-9017-P26**

We _____ confirm that Mr. _____ (Name and address) is authorized to represent us to Bid, negotiate and conclude the agreement on our behalf with you against Tender Invitation No. _____ for Construction _____.

We confirm that we shall be bound by all and whatsoever our said representative shall commit.

Yours Faithfully,

**Authorised Person's Signature:** _____
**Name:** _____
**Designation:** _____
**Seal of the Bidder:**

**Note**: This letter of authority shall be on printed letter head of the Bidder and shall be signed by a person competent and having the power of attorney (power of attorney shall be annexed) to bind such Bidder. If signed by a consortium, it shall be signed by members of the consortium.

**PROFORMA-H**

**AUTHORIZATION FOR ATTENDING BID OPENING**

Date: _____

TO
**GM (C&P)**
Contracts & Purchase Department
Oil India Ltd., Rajasthan Field
Jodhpur-342005
Rajasthan, India

Sir,

**Sub: OIL's e-Tender No. CJI-9017-P26**

We hereby authorize Mr. /Ms. _____ (Name and address) to be present at the time of Pre-Bid Meeting / Un-priced Bid Opening / Price Bid Opening and for any subsequent correspondence / communication of the above Tender due on _____ on our behalf.

Yours Faithfully,

**Authorized Person's Signature:** _____
**Name:** _____
**Designation:** _____
**Seal of the Bidder:**

**Note**: This letter of authority shall be on printed letter head of the Bidder and shall be signed by a person who signs the bid.

********

**PROFORMA-I**

**FORM OF BID SECURITY (BANK GUARANTEE)**

Ref. No. Bank Guarantee No.

TO
OIL INDIA LIMITED
For GM (C&P)
RAJASTHAN FIELD
JODHPUR-342005

WHEREAS, (Name of Bidder) ..... (hereinafter called "the Bidder") has submitted their Bid No. ..... dated .....for the provision of certain OILFIELD services (hereinafter called "the Bid") against OIL INDIA LIMITED, RAJASTHAN FIELD, JODHPUR (hereinafter called the "Company")'s IFB No..... KNOW ALL MEN by these presents that we (Name of Bank) ..... of (Name of country) ..... having our registered office at ..... (hereinafter called "the 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 common seal of the said Bank this ..... Day of ..... 20..... THE CONDITIONS of this obligation 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:

Issuing Bank:
BANK FAX NO:
BANK EMAIL ID:
BANK TELEPHONE NO.:
IFSC CODE OF THE BANK:

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 email address:
SIGNATURE AND SEAL OF THE GUARANTORS _____ Name of Bank &

Address _____ Witness _____ Address _____ _____ (Signature, Name and Address) Date: _____ Place: _____

*The Bidder should insert the amount of the guarantee in words and figures denominated in the currency of the Company's country or an equivalent amount in a freely convertible currency.
**The Date of Expiry of Bank Guarantee should be 165 days after the bid closing date as stated in the tender document

Note: The Bank Guarantee issuing bank branch shall ensure the following:

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) (ii) MT 760 / MT 767 COV for amendment of Bank Guarantee

**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 Guarantee issued by a Scheduled Bank in India at the request of some other Non-Scheduled Bank of India shall not be acceptable.

***Signature& Seal of the Bank***

**Proforma – J**

**PROFORMA OF DECLARATION OF BLACKLISTING / HOLIDAY LISTING/ NCLT / NCLAT /DRT /DRAT/ COURT RECEIVERSHIP/ LIQUIDATION**

TO,
**GM (C&P)**
Contracts & Purchase Department
Oil India Ltd., Rajasthan Field
Jodhpur-342005
Rajasthan, India

Dear Sir,

Sub: OIL's Tender No. _____

We hereby declare that we are presently neither placed on any holiday list or blacklist declared by Oil India Limited, nor any inquiry is pending by Oil India Limited. We are also not undergoing insolvency resolution process or liquidation or bankruptcy proceeding as on date. In respect of corrupt or fraudulent practice (s), except as indicated below:-

(Here give particulars of blacklisting or holiday listing and /or inquiry and in the absence thereof state "NIL")

In understood that if this declaration is found to be false in any particular , Oil India Limited shall have the right to reject my / our bid, and if the bid has resulted in a contract, the contract is liable to be terminated without prejudice to any other right or remedy (include blacklisting or holiday listing ) available to Oil India Limited.

For and on behalf of _____
Authorized signatory _____
Name _____
Designation _____
Contact No. _____

********

**Proforma – K**

**UNDERTAKING FOR BIDDERS FINANCIAL STANDING**

TO,
**GM (C&P)**
Contracts & Purchase Department
Oil India Ltd., Rajasthan Field
Jodhpur-342005
Rajasthan, India

Dear Sir,

Sub: OIL's Tender No. _____

We, _____ (Name of the bidder) have submitted Bid against Tender No. _____dated _____. We hereby undertake that we are not under liquidation, court receivership or similar proceedings, we are not bankrupt.

For and on behalf of _____
Authorized signatory _____
Name _____
Designation _____
Contact No. _____

********

**Annexure-II**

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

**CERTIFICATE OF COMPLIANCE TO FINANCIAL CRITERIA**

**Clause No. 3.0 of Financial Evaluation Criteria of BEC-BRC of Tender No. CJI9017P26**

I _____ the authorized signatory(s) of _____ (Company or Firm name with address) do hereby solemnly affirm and declare/ undertake as under:

**The balance sheet/Financial Statements for the financial year 2024-25 have actually not been audited as on the Original Bid Closing Date.**

Yours faithfully,

For (type name of the firm here)

Signature of Authorized Signatory

Name:

Designation:

Phone No.

Place:

Date:

(Affix Seal of the Organization here, if applicable)

Note: 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.

**ANNEXURE for CA certificate**

**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) for the last three (3) completed accounting years up to.....(**as the case may be**) are correct.

| **YEAR** | **TURN OVER**<br>In INR(Rs)Crores/Lakhs | **NET WORTH**<br>In INR(Rs)Crores/ Lakhs |
|---|---|---|
| | | |
| | | |
| | | |

Place:
Date:
Seal:

Membership No:

Registration Code:

Signature:

**Annexure-A1**

**INTEGRITY PACT**

Between

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

And

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

**Preamble**:

The Principal intends to award, under laid down organizational procedures, contract/s for ----------. 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.

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organization "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process 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 during 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.

(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 the Chief Vigilance Officers and in addition can initiate disciplinary actions.

**Section: 2 -Commitments of the Bidder/Contractor**

**(1)** The Bidder commits itself to take all measures necessary to prevent corruption. During his participation in the tender process, the Bidder commits himself to observe the following principles:

(i) The Bidder 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 subsequent contract execution, if awarded.

(ii) The Bidder 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 cartelization in the bidding process.

(iii) The Bidder(s) will not commit any offence under the relevant Anticorruption Laws of India, further, the Bidder(s) 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 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 public/government organization that may impinge on the anti-corruption principle. The date of such transgression, for the purpose of disclosure by the bidders in this regard, would be the date on which cognizance of the said transgression was taken by the competent authority. The period for which such transgressions (s) is/are to be reported by the bidders shall be the last **three years** to be reckoned from date of bid submission. The transgression (s), for which cognizance was taken even before the said period of three years, but are pending conclusion, shall also be reported by the bidders.

(vi) The Bidder(s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder(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 will not instigate third persons to commit offences outlined above or be an accessory to such offences.

**(3)** The Bidder 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, for such reason.

1. If the Bidder 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 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 2 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 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 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.

**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)** The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder can prove and establish that the exclusion of the Bidder from the tender process has caused no damage or less damage than the amount or the liquidated damages, the Bidder 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 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.

**(2)** The Bidder undertake(s) to procure from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder 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**

**(1)** The Principal appoints competent and credible Independent External Monitor (IEM) for this Pact.

**(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 Bidder accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Bidder. The Bidder 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.

**(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 Bidder. The parties offer 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 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 the advice of IEM is non-binding on the Organization. However, as IEMs are invariably persons with rich experience who have retired as senior functionaries of the government, their advice would help in proper implementation of the IP.

**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. 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)** In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact. In case of sub-contracting, the principal contractor shall take the responsibility of the adoption of IP by the sub-contractor. It is to be ensured that all sub-contractors also sign the IP. In case of sub-contractors, the IP will be a tri-partite arrangement to be signed by the Organization, the contractor, and the sub-contractor.

**(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 intensions.

| | |
|---|---|
| **.....**<br>**For the Principal**<br><br>Date :<br><br>Place : | **.....**<br>**For the Bidder/Contractor**<br><br>Witness 1: .....<br><br>Witness 2: ..... |

NAME OF INDEPENDENT EXTERNAL MONITORS:

a. Shri Ram Phal Pawar, IPS (Retd.), Former Director, NCRB, MHA
E-mail: rpawar61@hotmail.com

b. Dr. Tejendra Mohan Bhasin, Former Vigilance Commissioner, CVC
E-mail: tmbhasin@gmail.com

c. Shri Ajit Mohan Sharan, IAS (Retd.), Former Secretary, Ministry of Ayush
E-mail: ams057@gmail.com

**EXHIBIT-I**

## UNDERTAKING FOR WORKS INVOLVING POSSIBILITY OF SUB-CONTRACTING

We, M/s_____, have read the clause regarding restrictions on procurement from a country which shares a land border with India and on sub-contracting to contractors from such-countries, we certify that we are not from such a country/or if from such a country, has been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. We hereby certify that we fulfil all requirements in this regard and is eligible to be considered.

Yours faithfully,

For (type name of the firm here)

Signature of Authorized Signatory

Name:

Designation:

Phone No.

Place:

Date:

(Affix Seal of the Organization here, if applicable)

**EXHIBIT-II**

**UNDERTAKING TOWARDS COMPLIANCE OF PROVISIONS FOR RESTRICTIONS ON PROCUREMENT FROM A BIDDER OF A COUNTRY WHICH SHARES LAND BORDER WITH INDIA**

We, M/s_____, have read the clause regarding restrictions on procurement from a country which shares a land border with India, we certify that we are not from such a country/or if from such a country, has been registered with the Competent Authority. We hereby certify that we fulfil all requirements in this regard and is eligible to be considered. *[wherever applicable, evidence of valid registration by the Competent Authority shall be attached]*

Yours faithfully,

For (type name of the firm here)

Signature of Authorised Signatory

Name:

Designation:

Phone No.

Place:

Date:

(Affix Seal of the Organization here, if applicable)

**EXHIBIT-III**

**ADDITIONAL UNDERTAKING BY BIDDER IN CASES OF SPECIFIED TRANSFER OF TECHNOLOGY (ToT)**

We, M/s_____, have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. We certify that we do not have any ToT arrangement requiring registration with competent authority.

OR

We, M/s_____, have read the clause regarding restrictions on procurement from a bidder having Transfer of Technology (ToT) arrangement. We certify that we have valid registration to participate in this procurement.

Yours faithfully,

For (type name of the firm here)

Signature of Authorised Signatory

Name:

Designation:

Phone No.

Place:

Date:

(Affix Seal of the Organization here, if applicable)

&&&&&&&&&&&

**Annexure-B**

Format for Undertaking by Bidders towards compliance of office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020 (Public Procurement no. 1) issued by Department of Expenditure, Ministry of Finance, Govt. of India

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

**Ref. No_____** **Date _____**

**Tender No._____Dated _____**

OIL INDIA LIMITED

**Dear Sirs,**

*"We have read the clause regarding restrictions on procurement from a bidder or a country which shares a land border with India; We certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. We hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where evidence of valid registration by the Competent Authority shall be attached.]"*

*We also agree that, during any stage of the tender/contract agreement, in case the above information/documents submitted by us are found to be false, Oil India Limited has the right to immediately reject our bid/terminate contract at any stage and carry out further legal action on us in accordance with law.*

Yours faithfully,

For (type name of the firm here)

Signature of Authorized Signatory Name:
Designation:
Phone No.
Place:
Date:
(Affix Seal of the Organization here, if applicable)
Note: This form should be returned along with offer duly signed.

**Annexure-XI**

Format of undertaking by Bidders towards submission of authentic information/documents
(To be typed on the letter head of the bidder)

Ref. No_____ Date _____

**Sub: Undertaking of authenticity of information/documents submitted**

**Ref: Your Tender No. CJI-9017-P26 Dated _____**

To,
**GM (C&P)**
Contracts & Purchase Department
Oil India Ltd., Rajasthan Field
Jodhpur-342005
Rajasthan, India

**Sir,**

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 (type name of the firm here)

Signature of Authorised Signatory
Name :
Designation :
Phone No.
Place :
Date :
(Affix Seal of the Organization here, if applicable)

**********

**Appendix-B**

**Procedure for obtaining Labour License under Contract Labour (R&A) Act, 1970 & Central Rules-1971**

Every Contractor to whom this Act applies shall execute any work through Contract Labour only after obtaining valid license from Licensing Officer. To obtain license contractor is required to submit:

i) Application in Form IV in triplicate duly filled (Name of the Proprietor/Partner or the Directors/Responsible person in case of firm/company, complete postal address including Pin Code number, Telephone Number, Fax Number & E-mail address, if any), correct details of PE and work to be executed etc. correctly against all columns;

ii) In case contractor is registered under the Companies Act and applicant is other than Director then he should be holding valid Power of Attorney.

iii) Original Form-V issued by PE

iv) Demand Draft for license fees and security deposit payable in favour of Regional Labour Commissioner (Central), Ajmer along with duly filled central challan (in TR-6) duly signed by applicant in quadruplicate for each demand draft;

v) Copy of Work Order;

vi Copy of Partnership Deed and in case of Company, the application should be accompanied with Memorandum of Association/Article of Association;

Note: 1. Application form complete in all respect shall be either personally delivered to the Licensing Officer or can be sent by Registered A.D. Post.

2. Contractors, may intimate Dy. Chief Labour Commissioner (Central), Ajmer for expediting/suitable action if they do not receive license nor any communication within a week.

3. Contractors are not required to visit office of Licensing Officer unnecessarily for obtaining license until and unless they have been specifically advised to appear in person. Appearance of contractors in the office of licensing officer for obtaining license by persuasion will be viewed seriously.

.

**Annexure – GST**

**TAXES AND DUTIES CLAUSE - FOR VENDOR/SUPPLIER/CONTRACTOR**
**(For Supplies/ Services during GST Regime)**

In view of GST Implementation from 1st July 2017, provision of Causes related to Tax liability of bid document stands deleted and replaced with the following:

1. "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.

2. The quoted price shall be deemed to be inclusive of all taxes ,duties & levies except "Goods and Services Tax" (hereinafter called GST) (i.e. IGST or CGST and SGST/UTGST applicable in case of interstate supply or intra state supply respectively and GST compensation Cess if applicable).

3. 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 (Oil India Limited)/client. 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 there under, OIL/client shall not be liable to make any payment on account of GST against such invoice.

4. 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.

5. GST payable under reverse charge 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/client.

6. Where OIL/client has the obligation to discharge GST liability under reverse charge mechanism and OIL/client 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/client 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/client to Contractor / Supplier.

7. The Supplier shall always comply with the requirements of applicable laws and provide necessary documents as prescribed under the Rules & Regulations, as applicable from time to time. In particular, if any tax credit, refund or other benefit is denied or delayed to OIL/project owner due to any non-compliance / delayed compliance by the Supplier under the Goods & Service Tax Act (such as failure to upload the details of the sale on the GSTN portal, failure to pay GST to the Government) or due to non-furnishing or furnishing of incorrect or incomplete documents by the Supplier, the Supplier shall be liable to reimburse OIL/project owner for all such losses and other consequences including, but not limited to the tax loss, interest and penalty.

8. 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/client for reasons attributable to Contractor / Vendor, OIL/client 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/client 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/project owner.

9. 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.

10. 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.

11. The contractor will be liable to ensure to have registered with the respective tax authorities 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.

12. In case the bidder is covered under Composition Scheme under GST laws, then bidder should quote the price inclusive of the GST (CGST & SGST/UTGST or IGST). Further, such bidder should mention "Cover under composition system" in column for GST (CGST & SGST/UTGST or IGST) of price schedule.

13. OIL/client will prefer to deal with registered supplier of goods/ services under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet. However, in case any unregistered bidder is submitting their bid, their prices will be loaded with applicable GST while evaluation of bid. Where OIL/client is entitled for input credit of GST, the same will be considered for evaluation of bid as per evaluation methodology of tender document.

**14. GST (GOODS & SERVICE TAX) (TRANSPORTATION CHARGES, SUPERVISION / TRAINING, SITE WORK):**

The quoted Prices towards Transportation, Supervision, Training, Site Work, AMC shall be inclusive of all taxes & duties except Goods & Service Tax (GST).

Goods & Service Tax (GST) as billed by the Supplier shall be payable at actuals by Owner subject to Contractor furnishing proper tax invoice issued in accordance with Goods & Service Tax (GST) rules to enable Owner to take input tax credit as per Govt. Rules 2004 on Goods & Service Tax (GST) paid.

Goods & Service Tax (GST) shall not be payable, if the requirements as specified above are not fulfilled by the Supplier. In case of non-receipt of above, Owner shall withhold the payment of Goods & Service Tax (GST).

In case of Foreign Bidders, where foreign bidder does not have permanent establishment in India, for supervision/training services by foreign supervisor at Project Site, Goods & Service Tax (GST) shall be paid by Owner to tax authorities.

**15. 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 Owner/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;
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 inter-state 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-
a) The original copy being marked as ORIGINAL FOR RECIPIENT;
b) The duplicate copy being marked as DUPLICATE FOR TRANSPORTER and
c) The triplicate copy being marked as TRIPLICATE FOR SUPPLIER.

In case of any advance given against any supplies contract, the supplier of the goods shall issue Receipt Voucher containing the details of details of advance taken along with particulars as mentioned in clause no. 15 (a), (b), (c), (d), (g), (k), (l), (m) & (o) above.

**16. GENERAL REMARKS ON TAXES & DUTIES:**

In view of GST Implementation from 1st July 2017, 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, E1/E2 Forms, and any other form of indirect tax except of GST mentioned in the bidding document shall be ignored..

OIL INDIA LIMITED, RAJASTHAN FIELD's provisional GST ID No. is 08AAACO2352C1ZX.

*******END of GST Annexure**********

**Proforma-L**

**TECHNICAL EVALUATION SHEET FOR BEC/BRC**

| Sl. No. | Clause No of BEC/BRC | Description | Compliance | | Bidder to indicate Relevant Page No. of their Bid to support the remarks/ compliance |
|---|---|---|---|---|---|
| | | | Yes | No | |
| **1** | **BEC Clause No. 1.0 (Technical Criteria)** | Any offer which does not include all the jobs/services mentioned in the Scope of Work and Special conditions of Contract will be considered as incomplete and rejected. | | | |
| **2** | **BEC Clause 1.1 (Technical Criteria)** | The Bidder should have completed at least one **"similar work** during last 7 (seven) years to be reckoned from the original bid closing date in any Public sector/ State Government/ Central Government/ Public limited company. Bidder has to submit documentary evidence in this regard.<br><br>One similar completed works each costing not less than the amount equal to **Rs. 5,37,93,307.53;**<br>**OR**<br>Two similar completed works each costing not less than the amount equal to **Rs. 3,36,20,817.21**;<br>**OR**<br>Three similar completed works each costing not less than the amount equal to **Rs. 2,68,96,653.76**.<br><br>**Notes to BEC Clause 1.1 above: Similar Works' means 'Construction project of Multi-Storied Minimum G+1** | | | |

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| | | **RCC Framed Structure Buildings of either Residential, Educational, Institutional, Assembly, Business or in combination of one or more types'.** | | | |
| **3** | **BEC Clause No. 1.2 (Technical Criteria)** | The Bidder shall have a valid **Electrical Contractor's License** issued by State Electrical Licensing board. However, in case the bidder does not have a valid Electrical Contractor's License, they provide an undertaking that in case of award of contract to the bidder, the bidder shall ensure that all electrical jobs shall be executed by a sub-contractor OR self with valid Electrical Contractor's License | | | |
| **4** | **BEC Clause No. 1.3 (Technical Criteria)** | For proof of requisite Experience (refer Clause No. 1.1 above), the bidder shall upload soft copy of the documentary evidence in the form of **Completion Certificate** (in case of completed works) or **Partial Completion Certificate** (in case of on-going works contract) issued by the employer. The certificate should contain at least following information:<br><br>A. Contract document/Work Order showing details of work.<br><br>AND<br><br>B. Job Completion Certificate(s) or Payment certificate(s) issued by the client(s) for the above contract or any other document(s), which can substantiate the successful execution of work. The submitted document(s) must contain the following:<br><br>i. Gross value of work done<br>ii. Nature of job done and Contract No./Work Order No.<br>iii. Contract start date and completion date<br>iv. Period of Contract | | | |

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| **5** | **BEC Clause No. 1.4 (Technical Criteria)** | In case of OIL contractors, copy of 'Certificate of Completion (COC)' OR 'Certificate of Payment (COP)' OR 'Service Entry Sheet (SES)' of similar jobs successfully executed during the last seven years from the original bid closing date, showing gross value of job done. It may be noted that simply mentioning of OIL Contract Number will be accepted.<br><br>**Note:**<br><br>• If the prospective bidder is executing SIMILAR WORK which is still running and the contract value / quantity executed prior to original bid closing date is equal to or more than the minimum prescribed value in the BEC/BRC, such experience will also be taken into consideration provided that the bidder has submitted copies of contract document or work order/LOA documents showing details of work along with satisfactory service execution certificate issued by end user.<br><br>• Similar Services(s) executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC.<br><br>• Similar works done through Sub-Contracting shall not be considered as valid experience.<br><br>• A bidder can submit only one bid against this tender. In case, any other bid is found to be received from the bidder or through any of its constituent members/ combination of its constituent members, or through any other arrangement by the bidder or its constituent members, then in such cases, all such bids shall be straightaway rejected.<br><br>• Mere award of contract(s) will not be counted towards | | | |

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| | | experience. Successful completion of the awarded contract(s) to the extent of volume & value, as stipulated respectively under Clause Nos. 1.1 will only be treated as acceptable experience.<br>• Only Letter of Intent (LOI)/Letter of Award (LOA), or Work Order(s) are not acceptable as evidence. | | | |
| **6** | **BEC Clause No. 1. (Financial Criteria)** | Annual Financial Turnover of the bidder during **any of preceding three financial / accounting years from the original bid closing date** should be at least **Rs. 1.68 Crores**.<br><br>[Annual Financial Turnover of the bidder from operations shall mean: "Aggregate value of the realisation of amount made from the sale, supply or distribution of goods or on account of services rendered, or both, by the company (bidder) during a financial year" as per the Companies Act, 2013 Section 2 (91).] | | | |
| **7** | **BEC Clause No. 2. (Financial Criteria)** | **Net worth** of bidder must be positive for preceding financial/ accounting year.<br><br>[**Net worth** shall mean: "Share capital + Reserves created out of profits and securities Premium account (excluding revaluation reserves) – deferred expenditure – Miscellaneous Expenditure to the extent not written off and carried forward Loss - Reserves created out of write back of depreciation and amalgamation".] | | | |
| **8** | **BEC Clause No. 3. (Financial Criteria)** | Considering the time required for preparation of Financial Statements, if the last date of preceding financial/accounting year falls within the preceding six months/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) reckoned from the original bid closing date and the Financial Statements of the | | | |

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| | | 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-II.**<br><br>**Notes:**<br>a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:<br><br>i) A certificate issued by a practicing Chartered/Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth. 'UDIN' along with membership and firm registration number of CA issuing the certificate for turnover & net worth of the bidder must be provided as per format prescribed in **ANNEXURE for CA certificate.**<br>OR<br>ii) Audited Balance Sheet along with Profit & Loss account.<br>b) In case the bidder is a 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 to provide documentary evidence for the same. | | | |
| **9** | **BEC Clause No. 1.0(Commercial Criteria)** | Bids shall be submitted under single stage two Bid systems i.e. Technical Bid and Priced Bid separately in the OIL's e- | | | |

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| | | Tender portal. Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the "Technical Attachments" under Rfx Information only. The “TECHNO-COMMERCIAL UNPRICED BID” shall contain all techno-commercial details except the prices. **Please note that no price details should be uploaded in Technical RFx Response otherwise bid will be rejected.** | | | |
| **10** | **BEC Clause No. 2.0(Commercial Criteria)** | Prices/Rates should be quoted in Indian Rupees and must be as per PRICE BID FORMAT uploaded under “Notes and Attachments” Tab. The rates quoted and uploaded in the “PRICE BID FORMAT” under “Notes and Attachments” Tab will only be considered. | | | |
| **11** | **BEC Clause No. 3.0(Commercial Criteria)** | The price quoted by the successful bidder must be firm during the performance of the contract and not subject to variation on any account except as mentioned in the bid document. Any bid submitted with adjustable price quotation other than the above will be treated as non-responsive and rejected. | | | |
| **12** | **BEC Clause No. 4.0(Commercial Criteria)** | Bidders shall furnish “Bid Security” for the amount as specified in Forwarding Letter. **Any bid not accompanied by Bid Security (or requisite documents confirming exemption from bid security submission in case of eligible vendor) will be rejected.** | | | |
| **13** | **BEC Clause No. 5.0(Commercial Criteria)** | Bids received through the e-procurement portal shall only be accepted. Bids received in any other form shall not be accepted. | | | |
| **14** | **BEC Clause No. 6.0(Commercial Criteria)** | Bids received by Company after the bid closing date and time will be rejected. | | | |
| **15** | **BEC Clause No. 7.0(Commercial Criteria)** | Bid documents are non-transferable. Bid can only be submitted in the name of the bidder in whose name the User ID and Password have been issued. Unsolicited bids will not | | | |

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| | | be considered and will be straightway rejected. | | | |
| **16** | **BEC Clause No. 8.0(Commercial Criteria)** | Bids shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by bidder, in which case such corrections shall be initiated by the person(s) signing the bid. However, white fluid should not be used for making corrections. Any bid not meeting this requirement shall be rejected. | | | |
| **17** | **BEC Clause No. 9.0(Commercial Criteria)** | The Bids and all uploaded documents must be digitally signed using "Class 3" digital certificate (encryption enabled) [e-commerce application (Certificate with personal verification and Organization name)] as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. | | | |
| **18** | **BEC Clause No. 10.0(Commercial Criteria)** | The following Clauses with all its sub-clauses should be agreed in to, failing which the bid will be rejected.<br>i. Performance Security Clause<br>ii. Tax Liabilities Clause<br>iii. Insurance Clause<br>iv. Force Majeure Clause<br>v. Termination Clause<br>vi. Arbitration Clause<br>vii. Applicable Law Clause<br>viii. Liquidated damages clause<br>ix. GST clause<br>x. Integrity pact clause | | | |

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| **19** | **BEC Clause No. 11.0(Commercial Criteria)** | **Integrity pact:** OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **Annexure-A1** 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 Un-Priced Techno-Commercial Bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. 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. | | | |
| **20** | **BEC Clause No. 12.0(Commercial Criteria)** | Validity of the bid shall be minimum **120 days**. Bids with lesser validity will be rejected. | | | |
| **21** | **BEC Clause No. 13.0(Commercial Criteria)** | Bidder must comply to clause No. **32.0 (VERIFICATION AND CERTIFICATION OF DOCUMENTS BY INDEPENDENT THIRD- PARTY INSPECTION AGENCIES)** and its sub-clauses under Instruction to Bidders failing which their offer shall be summarily rejected. | | | |
| **22** | **BEC Clause No. 1.0 (General:)** | **Proforma-C:** The Compliance statement must be filled up by bidders and to be submitted along with their bids. In case bidder takes exception to any clause of the bidding document not covered under BEC, 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 BEC. | | | |
| **23** | **BEC Clause No. 2.0 (General:)** | To ascertain the substantial responsiveness of the bids, Company reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarification fulfilling the BEC/BRC clauses in toto must be | | | |

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| | | received on or before the deadline given by the company, failing which the offer will be summarily rejected. | | | |
| **24** | **BEC Clause No. 3.0 (General:)** | If any of the clauses in the BEC contradicts with other clauses of bidding document elsewhere, then the clauses in the BEC shall prevail. | | | |
| **25** | **BEC Clause No. 4.0 (General:)** | The original bid closing date shall be considered by OIL for evaluation of BEC/BRC Criteria even in case of any extension of the original bid closing date. | | | |
| **26** | **BEC Clause No. 5.0 (General:)** | Bid involving a party in any form whose name is appearing in the prevailing list of banned/blacklisted vendors of OIL INDIA LIMITED shall be rejected outright | | | |
| **27** | **BEC Clause No. 6.0 (General:)** | **Goods & Service Tax:** The bidder is to quote the rates/prices inclusive of all statutory liabilities, except the Goods & Service Tax (GST). GST as applicable shall be extra to OIL's account limiting to the rate quoted by the bidder until any statutory change takes place. However, the liability of payment of GST will rest on the Contractor. | | | |
| **28** | **PRICE EVALUATION CRITERIA:** | 1. The evaluation of bids shall be done as per the Price Bid Format provided in the Tender / e-tender portal. Contract shall be awarded to the L1 bidder evaluated as per the price bid format.<br>2. If there is any discrepancy between the unit price and total price, the unit price will prevail and total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amount in words shall prevail and will be adopted for evaluation.<br>3. To ascertain the inter-se-ranking, bid prices shall be converted into Indian Rupees and the comparison of responsive bids shall be made strictly as per online Price bid format, subject to corrections / adjustments, if any.<br>4. Other terms and conditions of the enquiry shall be as | | | |

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| | | per General Terms and Conditions for Local Tender. However, if any of the Clauses of the Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the General Terms & Conditions of Local Tender of the tender and/or elsewhere, those mentioned in this BEC shall prevail.<br>5. The bidders are advised not to offer any discount/rebate separately and to offer their prices in the Price Bid Format after considering discount/rebate, if any.<br>6. Conditional and unsolicited discount will not be considered in evaluation. However, if such bidder happens to be the lowest recommended bidder, unsolicited discount without any condition will be considered for computing the contract price.<br>7. In case of identical overall lowest offered rate by more than 1(one) bidder, the selection will be made by draw of lot between the parties offering the same overall lowest price.<br>8. OIL will prefer to deal with registered bidder under GST. Therefore, bidders are requested to get themselves registered under GST, if not registered yet. However, in case any unregistered bidder is submitting their bid, their prices will be loaded with applicable GST while evaluation of bid. Where OIL is entitled for input credit of GST, the same will be considered for evaluation of bid as per evaluation methodology of tender document.<br>9. Price Bid uploaded without giving any of the details of the taxes (Including rates and amounts) will be considered as inclusive of all taxes including GST. When a bidder mentions taxes as extra without specifying the rates & amount, the offer will be loaded | | | |

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| | | with maximum value towards taxes received against the tender for comparison purposes. If the bidder emerges as lowest bidder after such loading, in the event of order on that bidder, taxes mentioned by OIL on the Purchase Order/Contracts will be binding on the bidder.<br>10. Input Tax Credit on GST (Goods & Service Tax) for this service is NOT available to OIL & the bids will be evaluated based on total price including GST.<br>**Note**:<br>a) It shall be the bidder's responsibility to ensure submission of unambiguous/clear and sufficient documentary evidence in support of the evaluation criteria.<br>b) OIL reserves the right to verify any or all data/document/information provided by the bidder. False statement by Bidder will make it liable for appropriate action.<br>c) For the above purpose, supplementary reinforcing documents submitted by the bidder in response to specific query after bids are opened, may have later date after bid opening date provided that such the certification/letter contents are only historical/confirmatory in nature. | | | |

*********END OF TENDER DOCUMENT****

## PROFORMA OF "INSURANCE SURETY BOND" FOR "BID SECURITY"

(To be stamped in accordance with the Stamp Act)

| | | |
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| **To**<br>**M/s OIL INDIA LIMITED**<br>**GM (C&P)**<br>**Contracts & Purchase Department**<br>**Oil India Ltd.,**<br>**Rajasthan Field**<br>**Jodhpur-342005**<br>**Rajasthan, India** | **Insurance Surety Bond (ISB) No.** | |
| | **Date of ISB** | |
| | **ISB Valid up to (Expiry date)** | |
| | **Claim period up to (indicate date of expiry of claim period which includes minimum three months from the expiry date)** | |
| | **Stamp Sl. No./e-Stamp Certificate No.** | |

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, Jodhpur, Rajasthan, India (hereinafter called the Company's) Tender No. _____ KNOW ALL MEN BY these presents that we (Name & address of the "Insurer") _____ having our registered office at _____ (hereinafter called " Insurer "), its successors and assignees, unconditionally and irrevocably undertake to pay forthwith to the Company an amount of Rs. .....(Rupees ..... only) (hereinafter referred to as the "Surety Bond") as our primary obligation without any demur, reservation, recourse, contest or protest and without reference to the Bidder, if the Bidder shall fail to fulfil or comply with all or any of the conditions mentioned below or referred in the Tender document in this regards.

Any such written demand made by the Company stating that the Bidder is in default of the due and faithful fulfilment and compliance with the aforesaid conditions shall be final, conclusive and binding on the Surety Insurer.

SEALED with the said Insurer 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 suomoto; 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.

NOW, THEREFORE, the Surety Insurer hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Surety Bond shall not be affected by any change in the constitution or winding up of the Bidder or the Surety Insurer or any absorption, merger or amalgamation of the Bidder or the Surely Insurer with any other person.

2. In order to give full effect to this Surety Bond, the Company shall be entitled to treat the Surety Insurer as the principal debtor.

3. The Surety Insurer declares that it has the power to issue this Surety Bond and discharge the obligations contemplated herein, the undersigned is duly authorised and has full power to execute this Surety Bond for and on behalf of the Surety Insurer.

4. Notwithstanding anything contained herein:

   a) The Insurer's liability under this Insurance Surety Bond shall not exceed (currency in figures) . . . . . (currency in words only ) . . . . .

   b) This Insurance Surety Bond shall remain in force upto _____ and any extension(s) thereof; and

   c) The Surety insurer shall be released and discharged from all liability under this Insurance Surety Bond unless a written claim or demand is issued to the insurer on or before the midnight of .....(indicate date of expiry of claim period which includes minimum **three months** from the expiry of this Insurance Surety Bond) and any extension(s) thereof. If a claim has been received by us within the said date, all the rights of Company under this Insurance Surety Bond shall be valid and shall not cease until we have satisfied that claim.

In witness whereof the insurer, through its authorized officer, has set its hand and stamp on this _____day of _____ 20__ at _____.

**Witness:** **Issuing Authority:**

..... .....
(Signature) (Signature of the Authorised Signatory)

..... .....
(Name) (Name)

..... .....
(Designation & official address) (Designation with Insurer Stamp)

Authorised Vide
Power of Attorney No.....
Date.....

**INSTRUCTIONS FOR FURNISHING "BID SECURITY DEPOSIT" BY "INSURANCE SURETY BOND"**

a) The Insurance Surety Bond shall be from an Insurer as per guidelines issued by Insurance Regulatory and Development Authority of India (IRDAI).

b) The Company shall be the Creditor, the Bidder shall be the Principal debtor and the Insurance company/Insurer shall be the Surety in respect of the Insurance Surety Bond to be issued by the Insurer.

c) The Insurance Surety Bond should be on Non-Judicial stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the state(s) where the Insurance Surety Bond is submitted or is to be acted upon or the rate prevailing in State where the Insurance Surety Bond is executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Bidder/Insurer issuing the Insurance Surety Bond.

d) The expiry date and values should be arrived at in accordance with instructions provided in the “Forwarding Letter” of the Tender.

e) The Insurance Surety Bond by bidders will be given from Insurer as specified in the Tender.

f) A letter from the issuing insurer of the requisite Insurance Surety Bond confirming that the said Insurance Surety Bond / all future communication relating to the Insurance Surety Bond shall be forwarded to the Purchaser at its address as mentioned at "ITB".

g) Bidder must indicate the full postal address of the Insurer along with the Insurer 's E-mail / Phone from where the Insurance Surety Bond has been issued.

h) Bidder must indicate Name, Address, Contact number and official Email ID of the Controlling Office of the Surety Issuing Branch or any web portal link, from whom / where the Surety Bond can be got confirmed by the Company.

**PROFORMA-Q**

**PROFORMA OF "INSURANCE SURETY BOND" FOR "PERFORMANCE SECURITY"**

(To be stamped in accordance with the Stamp Act)

| | | |
|---|---|---|
| **To**<br>**M/s OIL INDIA LIMITED,**<br>**GM (C&P)**<br>**Contracts & Purchase Department**<br>**Oil India Ltd., Rajasthan Field**<br>**Jodhpur-342005**<br>**Rajasthan, India** | **Insurance Surety Bond (ISB) No.** | |
| | **Date of ISB** | |
| | **ISB Valid up to (Expiry date)** | |
| | **Claim period up to (indicate date of expiry of claim period which includes minimum three months from the expiry date)** | |
| | **Stamp Sl. No./e-Stamp Certificate No.** | |

WHEREAS, (Name and address of Contractor) _____ (hereinafter called "Contractor") had undertaken, in pursuance of Contact No. _____ to execute (Name of Contract and Brief Description of the Work) _____ (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with an Insurance Surety Bond (ISB) as security for compliance with Contractor's obligations in accordance with the Contract.

AND WHEREAS we (May incorporate the Insurer) have agreed to give the Contractor such an Insurance Surety Bond; NOW THEREFORE we hereby affirm that we are Insurer on behalf of the Contractor, up to a total of (Amount of ISB in figures) _____ (in words_____), such amount being payable in the types and proportions of currencies in which the Contract price is payable, and we, undertake to pay you, upon your first written demand stating the default/breach committed by the Contractor without cavil or arguments, any sum or sums within the limits of guarantee sum as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or the work to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way cease us from any liability under this ISB, and we hereby waive notice of such change, addition or modification.

NOW, THEREFORE, the Surety Insurer hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Surety Bond shall not be affected by any change in the constitution or winding up of the Contractor or the Surety Insurer or any absorption, merger or amalgamation of the Contractor or the Surely Insurer with any other person.

2. In order to give full effect to this Surety Bond, the Company shall be entitled to treat the Surety Insurer as the principal debtor.

3. The Surety Insurer declares that it has the power to issue this Surety Bond and discharge the obligations contemplated herein, the undersigned is duly authorised and has full power to execute this Surety Bond for and on behalf of the Surety Insurer.

4. Notwithstanding anything contained herein:

   a) The Insurer's liability under this Insurance Surety Bond shall not exceed (currency in figures) . . . . . (currency in words only ) . . . . .

   b) This Insurance Surety Bond shall remain in force upto _____ and any extension(s) thereof; and

   c) The Surety insurer shall be released and discharged from all liability under this Insurance Surety Bond unless a written claim or demand is issued to the insurer on or before the midnight of ……(indicate date of expiry of claim period which includes minimum **three months** from the expiry of this Insurance Surety Bond) and any extension(s) thereof. If a claim has been received by us within the said date, all the rights of Company under this Insurance Surety Bond shall be valid and shall not cease until we have satisfied that claim.

In witness whereof the insurer, through its authorized officer, has set its hand and stamp on this _____day of _____ 20__ at _____.

**Witness:** **Issuing Authority:**

| | |
|---|---|
| ..... | ..... |
| (Signature) | (Signature of the Authorised Signatory) |
| ..... | ..... |
| (Name) | (Name) |
| ..... | ..... |
| (Designation & official address) | (Designation with Insurer Stamp) |

Authorised Vide
Power of Attorney No.....
Date.....

**INSTRUCTIONS FOR FURNISHING "PERFORMANCE SECURITY DEPOSIT" BY "INSURANCE SURETY BOND"**

a) The Insurance Surety Bond shall be from an Insurer as per guidelines issued by Insurance Regulatory and Development Authority of India (IRDAI).

b) The Company shall be the Creditor, the Contractor shall be the Principal debtor and the Insurance company/Insurer shall be the Surety in respect of the Insurance Surety Bond to be issued by the Insurer.

c) The Insurance Surety Bond should be on Non-Judicial stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the state(s) where the Insurance Surety Bond is submitted or is to be acted upon or the rate prevailing in State where the Insurance Surety Bond is executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Contractor /Insurer issuing the Insurance Surety Bond.

d) The expiry date and values should be arrived at in accordance with instructions provided in the "Forwarding Letter" of the Tender.

e) The Insurance Surety Bond by Contractors will be given from Insurer as specified in the Tender.

f) A letter from the issuing insurer of the requisite Insurance Surety Bond confirming that the said Insurance Surety Bond / all future communication relating to the Insurance Surety Bond shall be forwarded to the Purchaser at its address as mentioned at "ITB".

g) Contractor must indicate the full postal address of the Insurer along with the Insurer 's E-mail / Phone from where the Insurance Surety Bond has been issued.

h) Contractor must indicate Name, Address, Contact number and official Email ID of the Controlling Office of the Surety Issuing Branch or any web portal link, from whom / where the Surety Bond can be got confirmed by the Company.

DWG No. OIL/RF/2024/BHC/GA - 001

150 m

100 m

ENTRY

Existing Guard Room

Buffer / Green Belt 12 m Wide

Internal Road 6.0 m Wide

Main Gate 8.0m

Side Bern

OutDoor Recreaction (VolleyBall) Cum Future Expansion

Septic Tank Soak Pit

Internal Road 6.0 m Wide

Side Bern

Internal Road 6.0 m Wide

Side Bern

Lawn /Plantation Area

Side Bern

Internal Road 6.0 m Wide

Side Bern

Buffer / Green Belt 12 m Wide

Main Road 7 m Wide

Buffer / Green Belt 12 m Wide

Parking

Parking

Parking

Parking

Entry ( Workman/Operator)

Entry ( Executive/Office)

Side Bern

Side Bern

Internal Road 6.0 m Wide

Emergency Gate 8.0m

ELECTRICAL PANEL / DG ROOM/PUMP ROOM ETC.

Buffer / Green Belt 12 m Wide

Gate

Fire Tender Shed

Area for service provider's setup

Radio Active Room

Existing Logging Truck Shed

## List of Drawing :

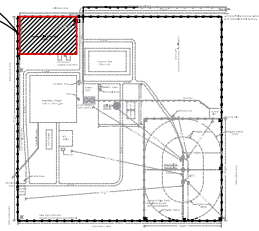
**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General First Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 003 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 004 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

Proposed Baghewala Housing Complex



BGW-6 KEY PLAN

N

W E

S

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | . . . . . | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
Oil India Limited

PROJECT :
**OIL BAGHEWALA HOUSING COMPLEX, JAISALMER**

TITLE :
General Site Layout/Plot Plan - Baghewala Housing Complex

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava, Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Kishan Kr Verma ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan, DGM Civil ( Engg. Services ) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/GA - 001

**Note :**

1. Concrete Grade for RCC shall be **M-25** (1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III, and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :**

(Not Less Than)

- Columns (Main) : 40 mm
- Columns (Stirrups) : 15 mm
- Raft Foundation : 50 mm
- Fdn. Rib Beam : 50 mm
- Beams : 30 mm
- Slabs : 25 mm
- Lintel & Miscl. : 20 mm

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

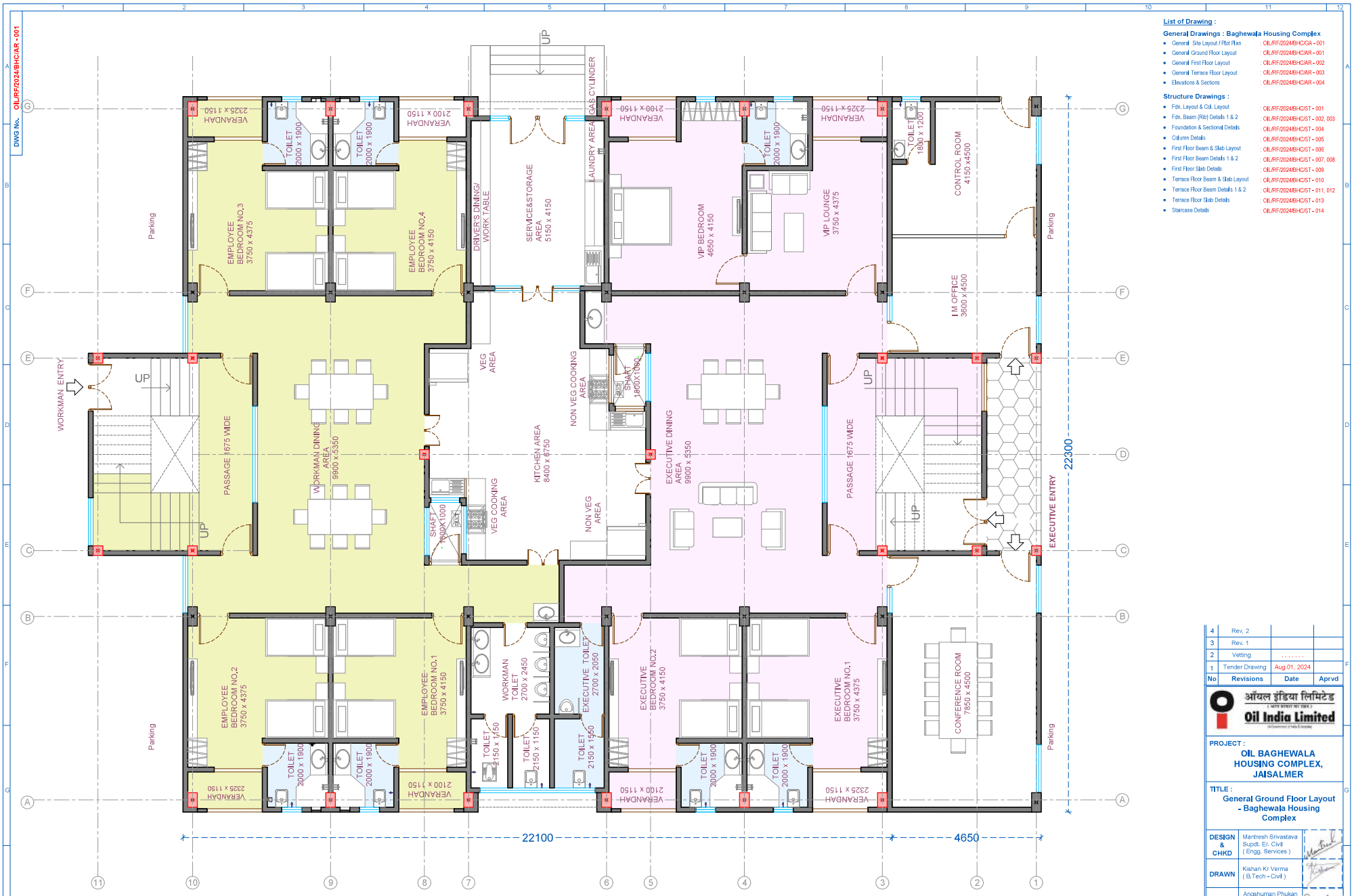
| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.




**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General First Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 003 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 004 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

**Note :**

1. Concrete Grade for RCC shall be **M-25** (1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III, and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | 40 mm | Raft Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Miscl. | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | . . . . . | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
Oil India Limited

**PROJECT :** OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

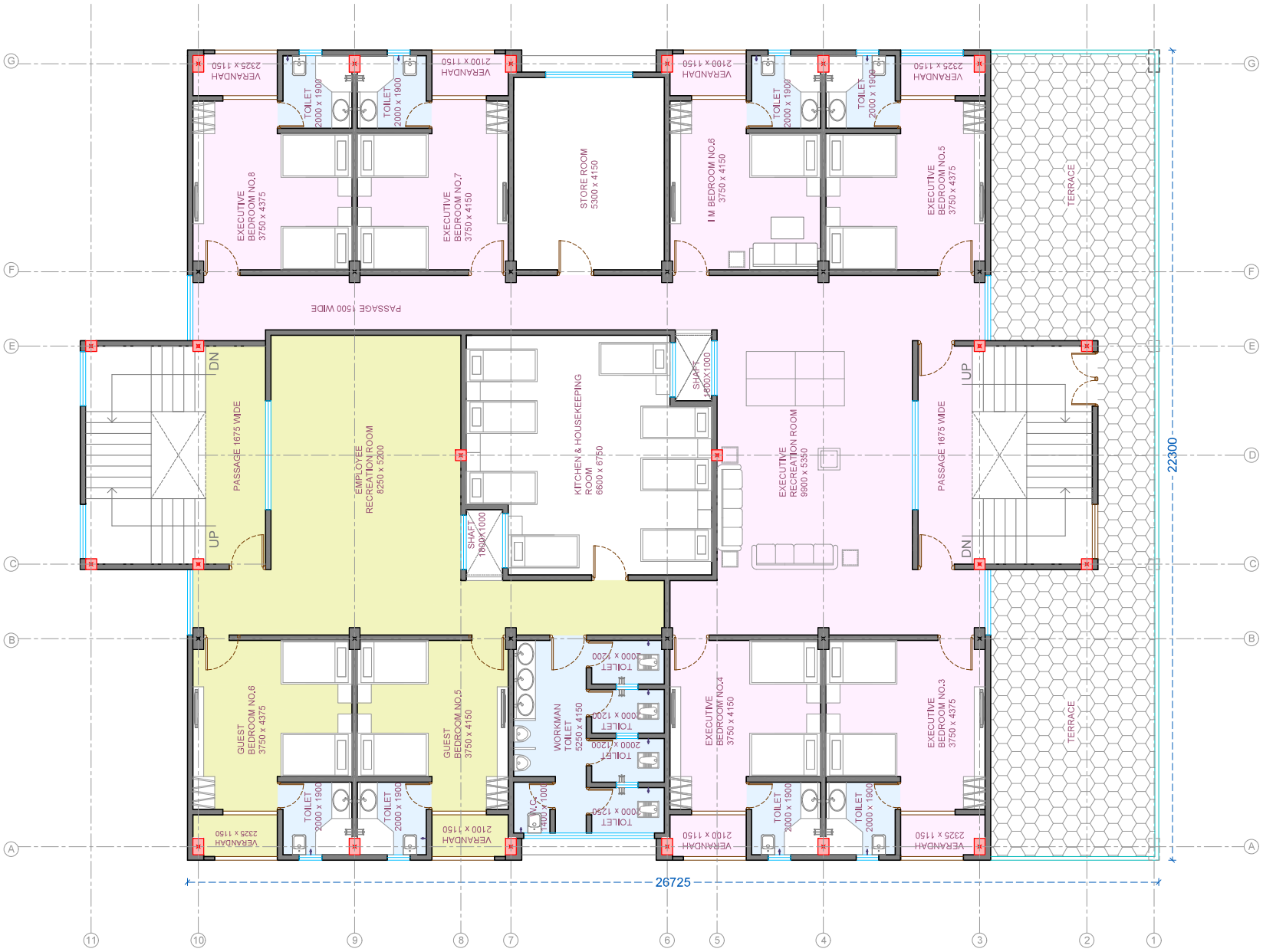
**TITLE :** General Ground Floor Layout - Baghewala Housing Complex

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava | Supdt. Er. Civil ( Engg. Services ) |
| DRAWN | Kishan Kr Verma | ( B.Tech - Civil ) |
| APRVD | Angshuman Phukan | DGM Civil ( Engg. Services ) |

**SCALE** 1 : 75 **REV.** 0

**DWG No.** OIL/RF/2024/BHC/AR - 001

DWG No. OIL/RF/2024/BHC/AR - 002




**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General First Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 003 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 004 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
Oil India Limited

PROJECT :
**OIL BAGHEWALA HOUSING COMPLEX, JAISALMER**

TITLE :
**General First Floor Layout - Baghewala Housing Complex**

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava, Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Kishan Kr Verma ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan, DGM Civil ( Engg. Services ) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/AR - 002

**Note :**

1. Concrete Grade for RCC shall be **M-25** (1 : 1 : 2 Nominal mix). Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III, and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | : 40 mm | Raft Foundation | : 50 mm | Slabs | : 25 mm |
| Columns (Stirrups) | : 15 mm | Fdn. Rib Beam | : 50 mm | Lintel & Miscl. | : 20 mm |
| | | Beams | : 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

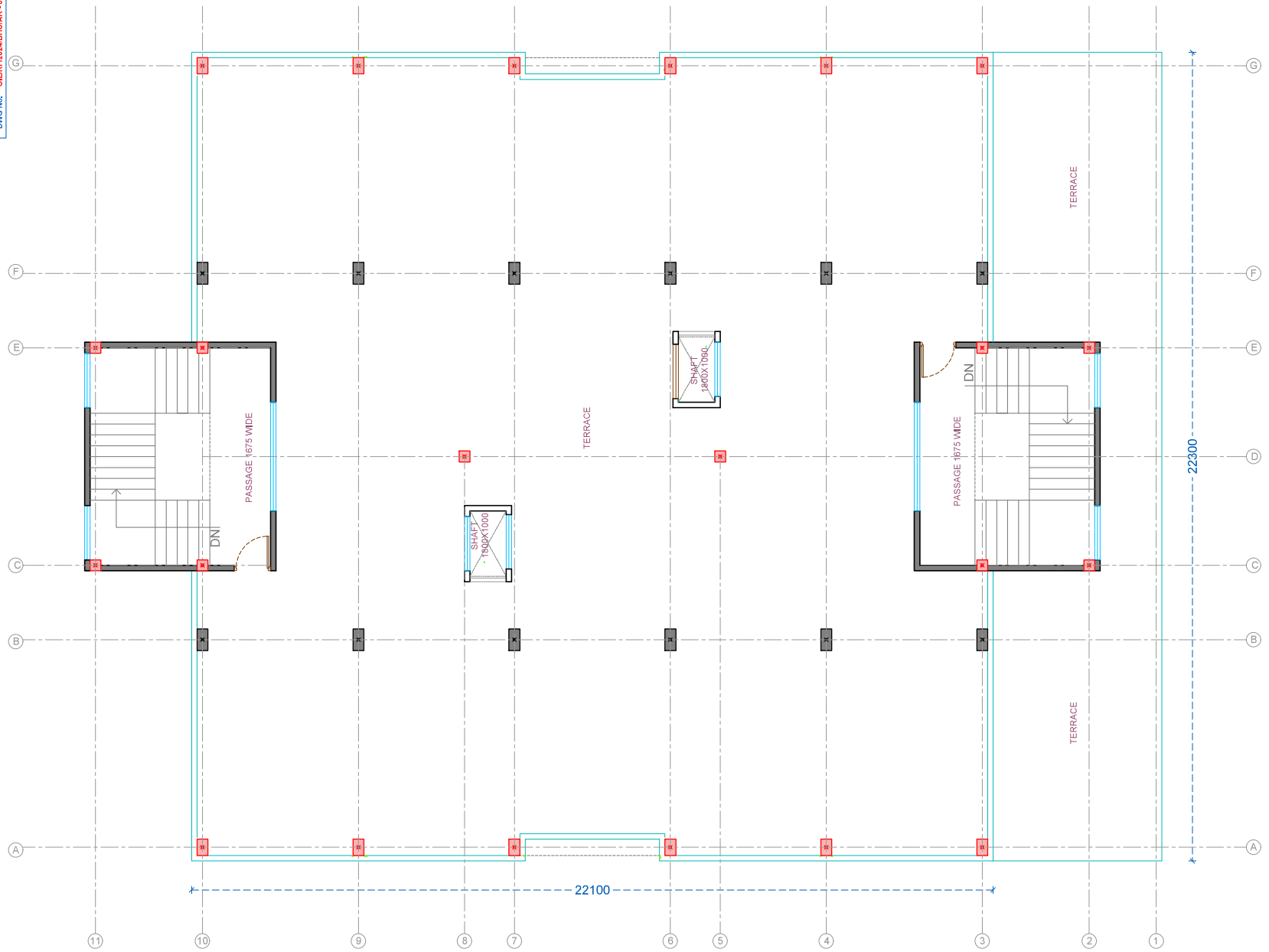
**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

DWG No. OIL/RF/2024/BHC/AR - 003




**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General First Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 003 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 004 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

**Note :**

1. Concrete Grade for RCC shall be **M-25** (1 : 1 : 2 Nominal mix). Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III, and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | : 40 mm | Raft Foundation | : 50 mm | Slabs | : 25 mm |
| Columns (Stirrups) | : 15 mm | Fdn. Rib Beam | : 50 mm | Lintel & Miscl. | : 20 mm |
| | | Beams | : 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | . . . . . | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
Oil India Limited

**PROJECT :**
OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

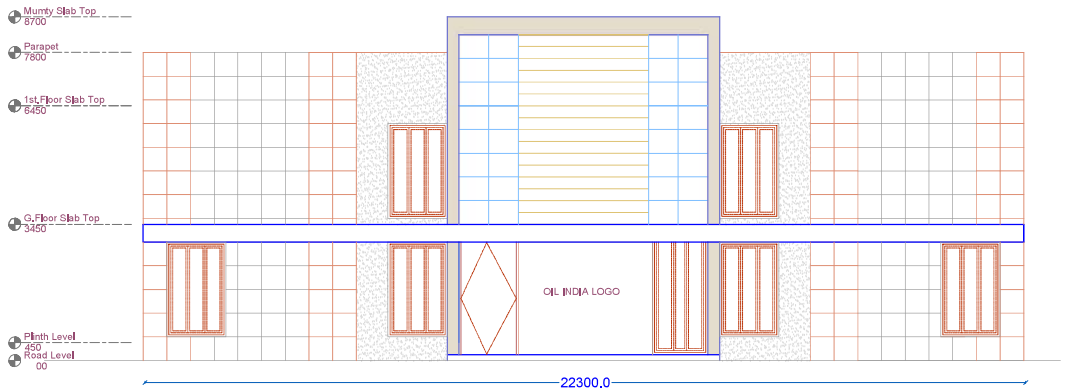
**TITLE :**
General Terrace Floor Layout - Baghewala Housing Complex

| | |
|---|---|
| DESIGN & CHKD | Mantresh Srivastava, Supdt. Er. Civil ( Engg. Services ) |
| DRAWN | Kishan Kr Verma ( B.Tech - Civil ) |
| APRVD | Angshuman Phukan, DGM Civil ( Engg. Services ) |

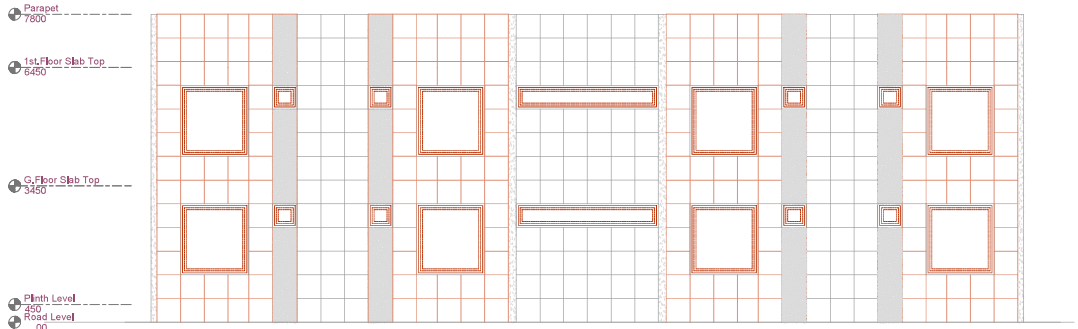
SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/AR - 003

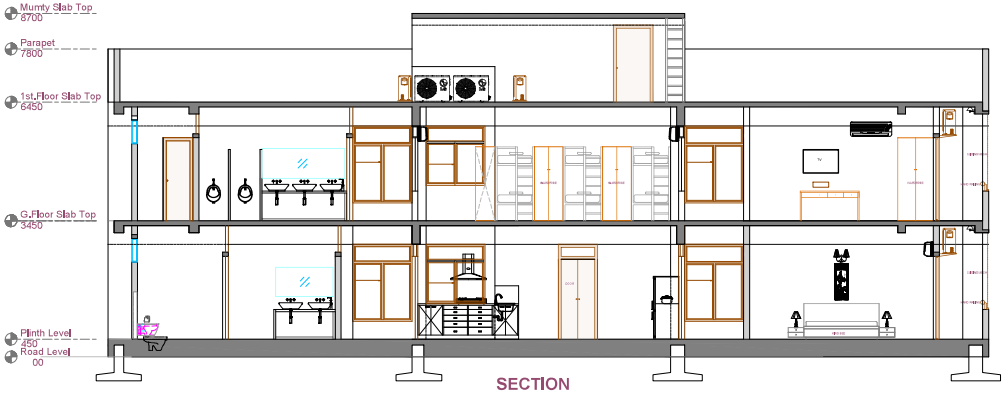
DWG No. OIL/RF/2024/BHC/AR - 004




FRONT & BACK ELEVATION




SIDE ELEVATION (SOUTH)




SECTION

**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General First Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 003 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 004 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

**Note :**

1. Concrete Grade for RCC shall be **M-25** (1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III, and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :**

(Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | : 40 mm | Raft Foundation | : 50 mm | Slabs | : 25 mm |
| Columns (Stirrups) | : 15 mm | Fdn. Rib Beam | : 50 mm | Lintel & Miscl. | : 20 mm |
| | | Beams | : 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | . . . . . | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
Oil India Limited

PROJECT :
**OIL BAGHEWALA HOUSING COMPLEX, JAISALMER**

TITLE :
**Elevation & Section - Baghewala Housing Complex**

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava<br>Supdt. Er. Civil<br>( Engg. Services ) | |
| DRAWN | Kishan Kr Verma<br>( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan<br>DGM Civil<br>( Engg. Services ) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/AR - 004


OIL INDIA
BUILDERS


OIL INDIA
BUILDERS


INDIA
BUILDERS


BUILDERS


BUILDERS


BUILDERS

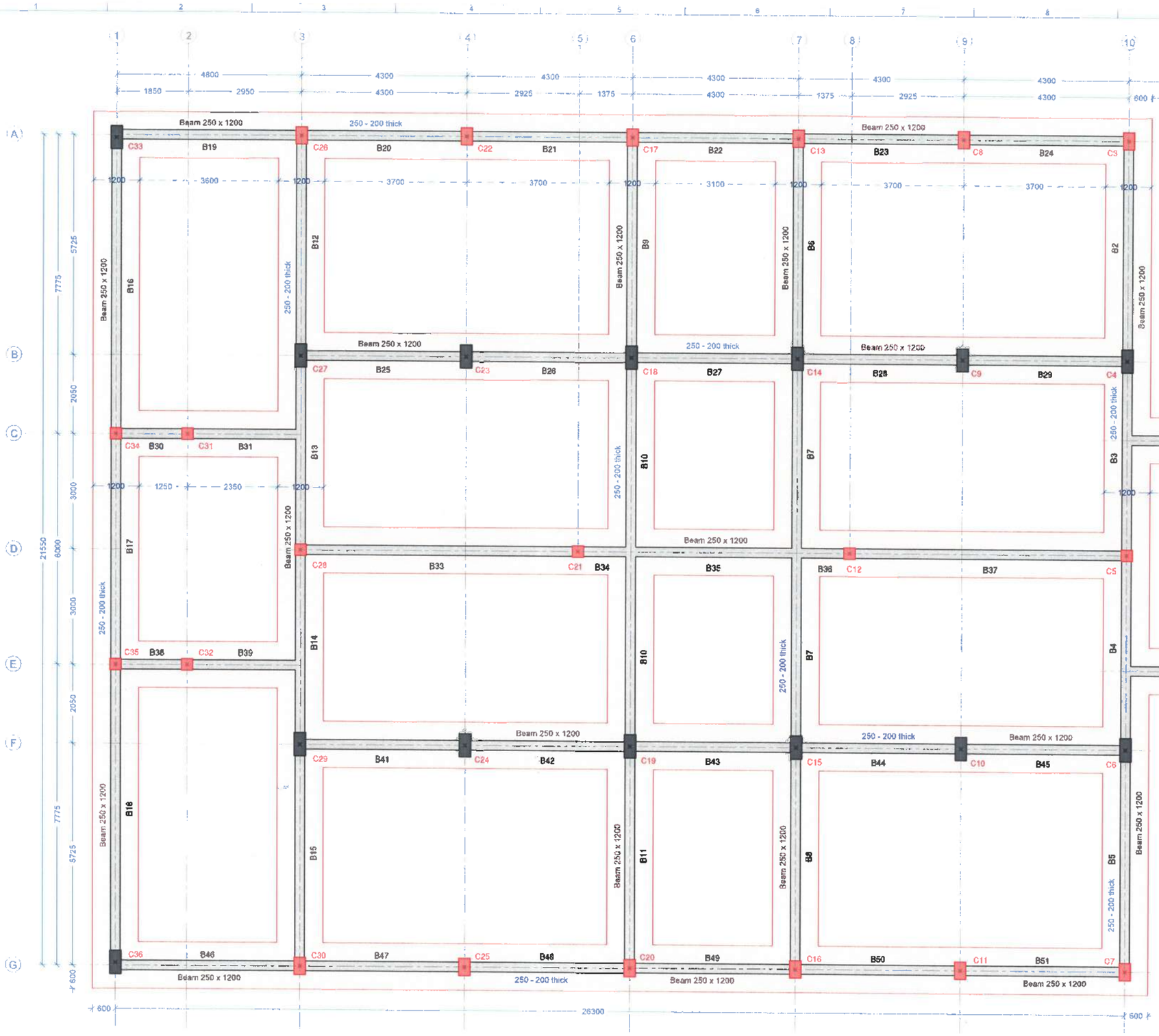

BUILDERS


BUILDERS


BUILDERS


BUILDERS

DWG No. OIL/RF/2024/BHC/ST - 001




**Foundation and Column Layout - Bhagewala Housing Complex**

## List of Drawing :

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 003 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

**Legend :**

- Foundation Beam
- 250 - 200 Thick
- Slab 125mm Thick
- Column 600 x 300
- Column 450 x 300
- Column 300 x 300

अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

OIL INDIA LIMITED ★ BASNI, JODHPUR-342005 ★ 02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
Oil India Limited

PROJECT : OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE : Foundation and Column Layout - Baghewala Housing Complex

| | | |
|---|---|---|
| DESIGN & CHKD | Manitesh Srivastava Supdt. Er. Civil (Engg. Services) | |
| DRAWN | Hari Singh Rathore (B.Tech - Civil) | |
| APRVD | Angshuman Phukan DGM Civil (Engg. Services) | |

SCALE 1 : 75 | REV. 0

DWG No. OIL/RF/2024/BHC/ST - 001

**Note :**

1. Concrete Grade for RCC shall be M-25 (1 : 1 : 2 Nominal mix). Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | 40 mm | Raft Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Miscl. | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

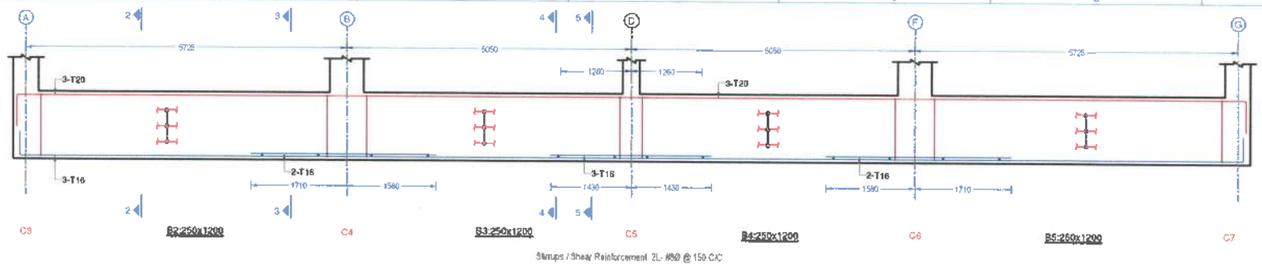
**Development Length** ( for M25 Grade & $F_y$ 550 ) :

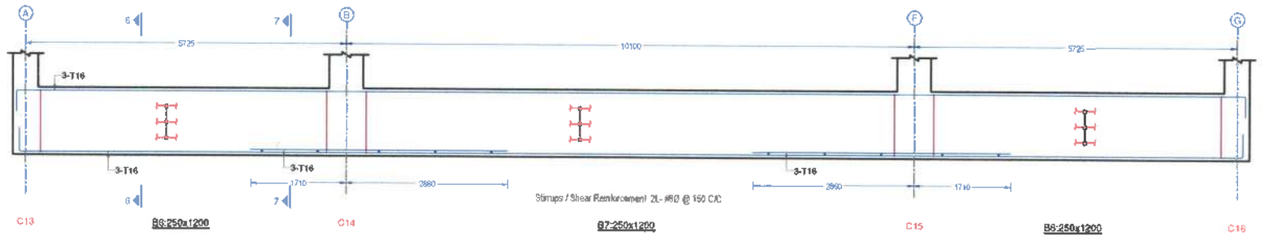
| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
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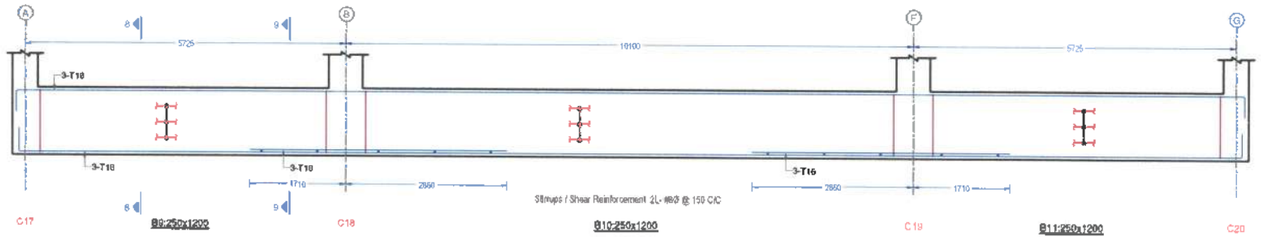
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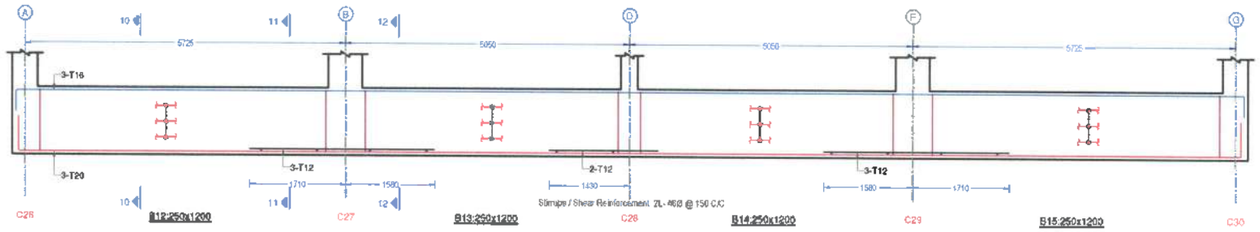
1. All dimensions are in millimeter, unless noted otherwise
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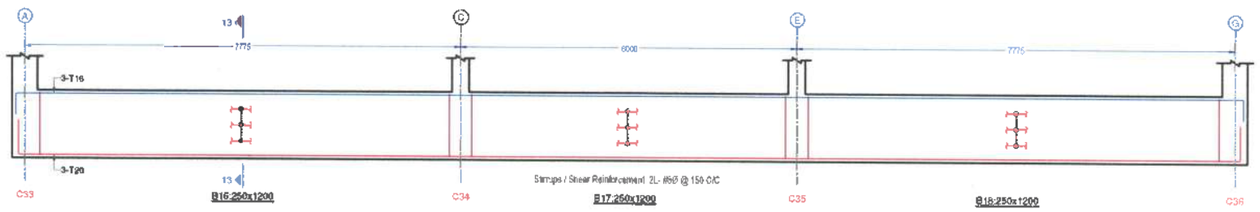
DWG No. OIL/RF/2024/BHC/ST - 002

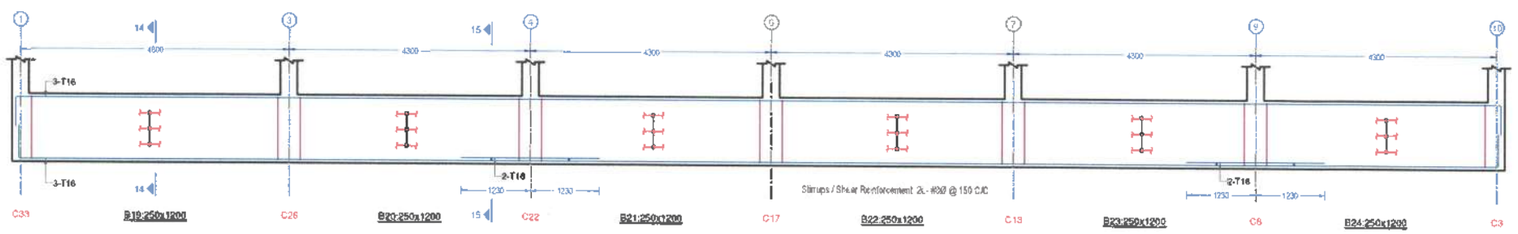


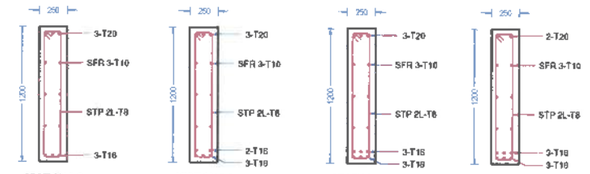



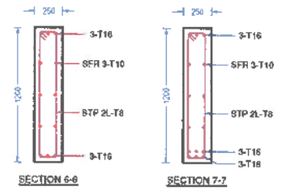



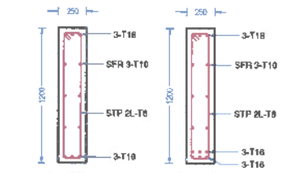



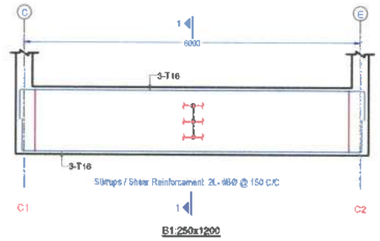



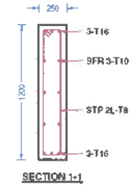



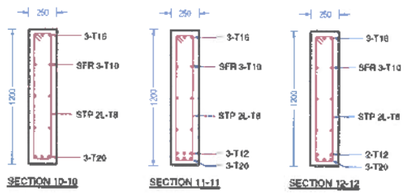



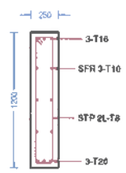



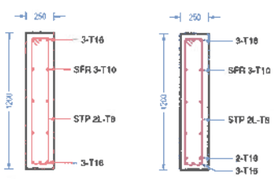




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अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Region, Jodhpur

OIL INDIA LIMITED ★ 02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE ★ BASNI, JODHPUR-342005

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
( भारत सरकार का उद्यम )
Oil India Limited
( A Government of India Enterprise )

PROJECT :
OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE :
Foundation Beam ( Rib ) Details - 1
[ Baghewala Housing Complex ]

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava, Supdt. Gr. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan, DGM Civil ( Engg. Services ) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/ST - 002

**Note :**
1. Concrete Grade for RCC shall be M-25 (1 : 1 : 2 Nominal mix), Course aggregate = 20mm; Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
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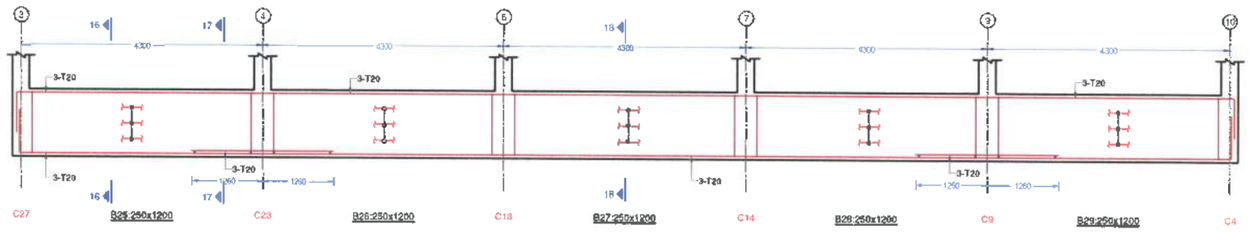
| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
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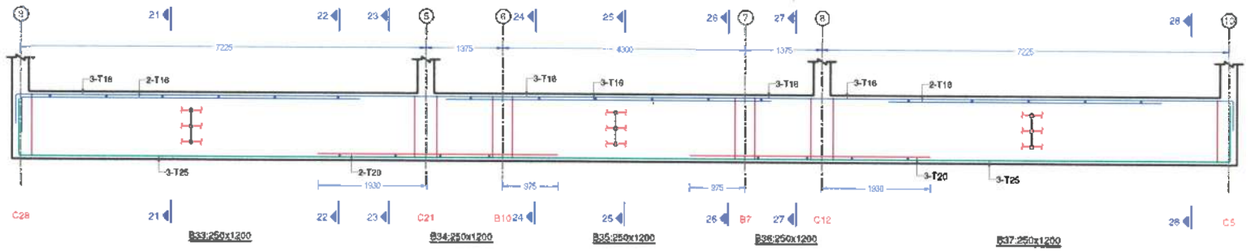
**Development Length** ( for M25 Grade & $F_y$ 550 ) :

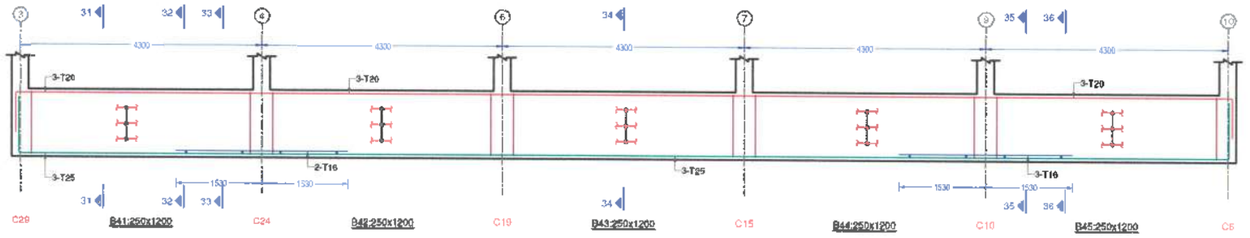
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|---|---|---|---|---|---|---|
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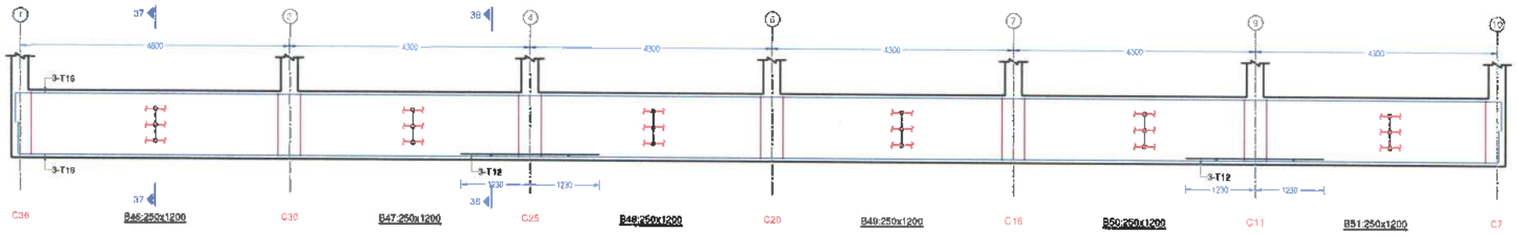
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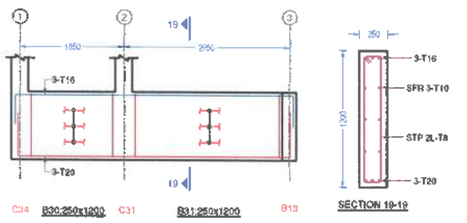
DWG No. OIL/RF/2024/BHC/ST - 003

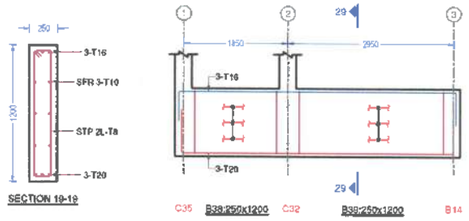


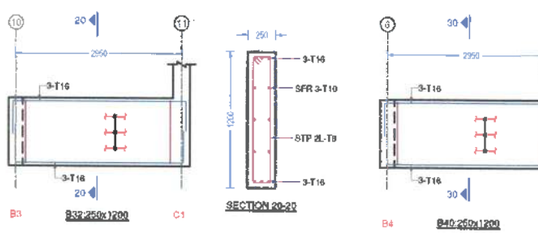



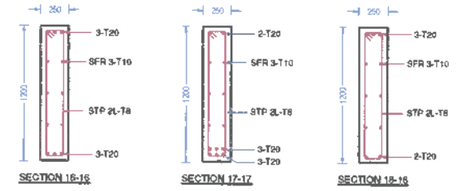

## List of Drawing :

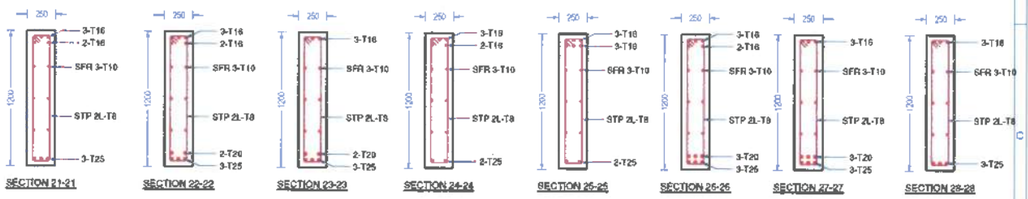
### General Drawings : Baghewala Housing Complex

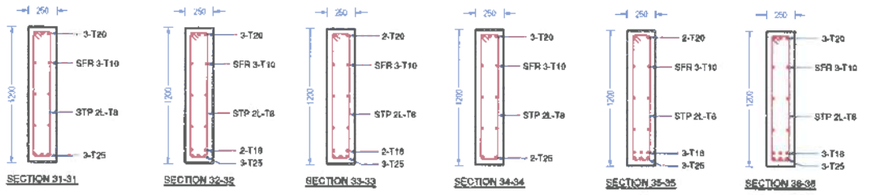
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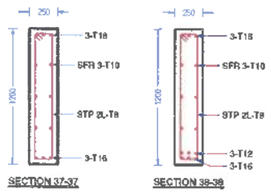
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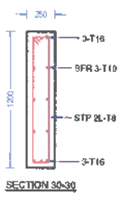










OIL INDIA LIMITED ★ 02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE ★ BASNI, JODHPUR-342005 ★

अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर

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| | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड (भारत सरकार का उद्यम) Oil India Limited (A Government of India Enterprise)

**PROJECT :** OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

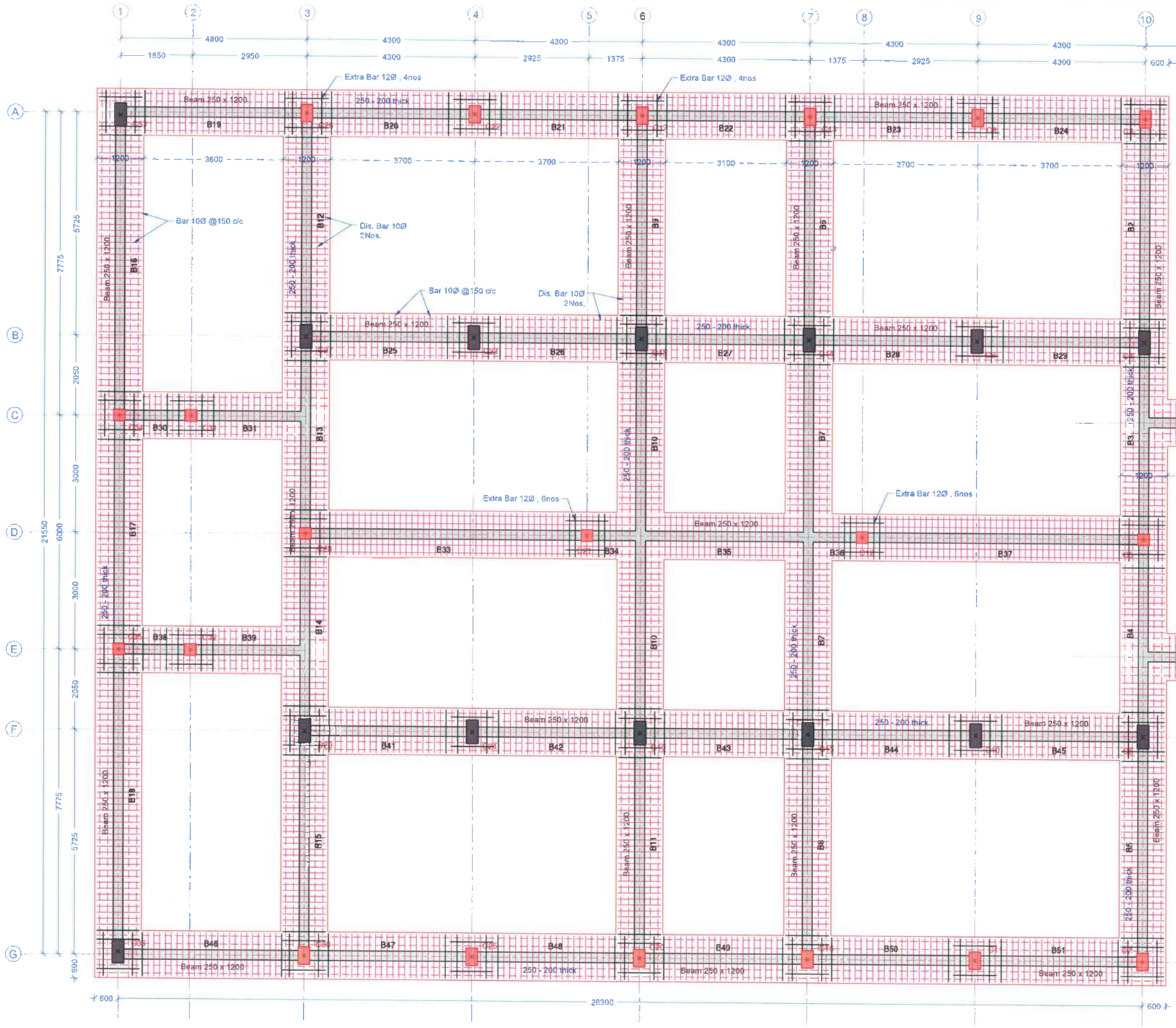
**TITLE :** Foundation Beam ( Rib ) Details - 2 [ Baghewala Housing Complex ]

| | | |
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| DESIGN & CHKD | Mantresh Srivastava, Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
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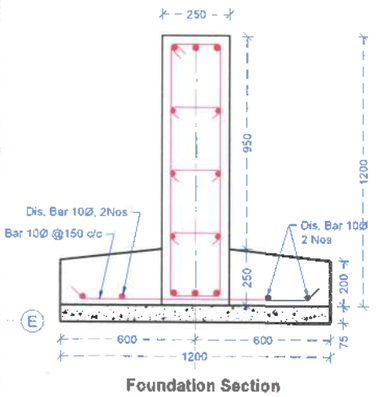
SCALE 1 : 75 | REV. 0

DWG No. OIL/RF/2024/BHC/ST - 003

DWG No. OIL/RF/2024/BHC/ST - 004




**Sectional Foundation Details - Bhagewala Housing Complex**




**Foundation Section**

**List of Drawing :**

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|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

**Legend :**

- Foundation Beam
- 250 - 200 Thick
- Slab 125mm Thick
- Column 600 x 300
- Column 450 x 300
- Column 300 x 300

OIL INDIA LIMITED * 342005 * JODHPUR-3 * BASNI
SARASWATI NAGAR DISTRICT SHOPPING CENTRE

अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड (भारत सरकार का उद्यम)
Oil India Limited (A Government of India Enterprise)

PROJECT : OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE : Foundation and Sectional Details - Baghewala Housing Complex

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan DGM Civil ( Engg. Services ) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/ST - 004

**Note :**

1. Concrete Grade for RCC shall be M-25 ( 1 : 1 . 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :**

(Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | 40 mm | Raft Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Miscl. | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | | | | | | |
|---|---|---|---|---|---|---|
| Bar Dia | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | | | | | | |
|---|---|---|---|---|---|---|
| Bar Dia | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**

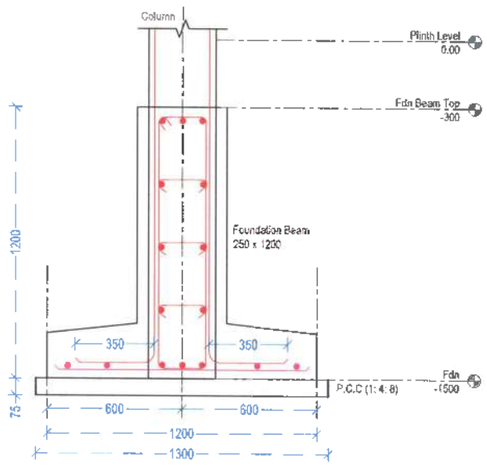
1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

DWG No. OIL/RF/2024/BHC/ST - 005

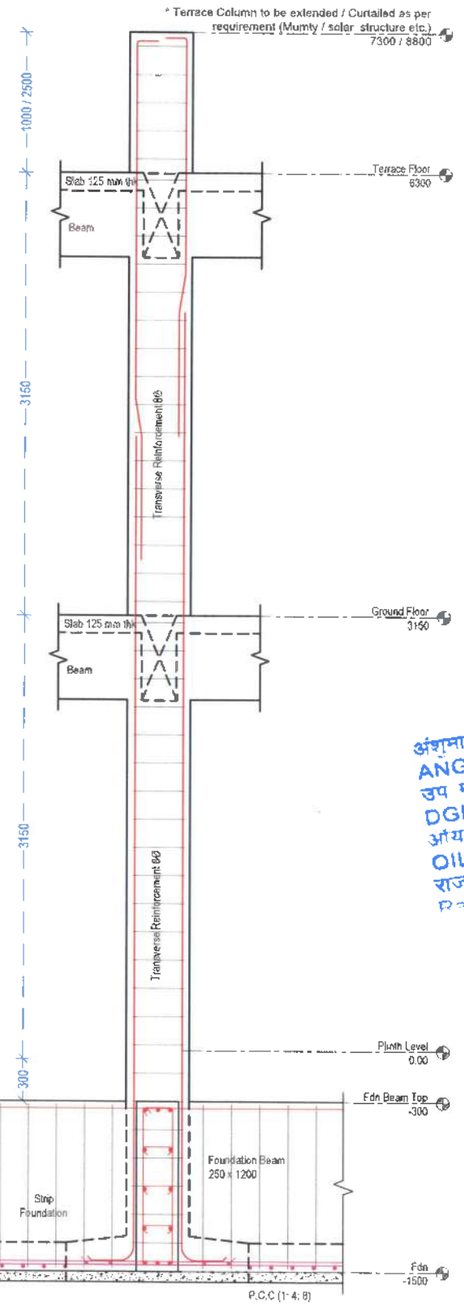
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Terrace Projection or Solar Panel to Terrace Floor | M25 : Fe500 , Cover = 40mm<br>Transverse 8Ø @ 150mm c/c<br>4-T16 | M25 : Fe500 , Cover = 40mm<br>Transverse 8Ø @ 150mm c/c<br>4-T16 | M25 : Fe500 , Cover = 40mm<br>Transverse 8Ø @ 150mm c/c<br>6-T12 | M25 : Fe500 , Cover = 40mm<br>Transverse 8Ø @ 150mm c/c<br>8-T12 | M25 : Fe500 , Cover = 40mm<br>Transverse 8Ø @ 150mm c/c<br>4-T16 | M25 : Fe500 , Cover = 40mm<br>Transverse 8Ø @ 150mm c/c<br>8-T12 | M25 : Fe500 , Cover = 40mm<br>Transverse 8Ø @ 150mm c/c<br>4-T16 |
| Terrace Floor to Ground Floor | Transverse 8Ø @ 150mm c/c<br>4-T20 + 4-T16 | Transverse 8Ø @ 150mm c/c<br>4-T16 + 4-T12 | Transverse 8Ø @ 150mm c/c<br>4-T20 + 2-T16 + 2-T12 | Transverse 8Ø @ 150mm c/c<br>6-T16 + 4-T12 | Transverse 8Ø @ 150mm c/c<br>4-T25 + 4-T20 | Transverse 8Ø @ 150mm c/c<br>4-T16 + 4-T12 | Transverse 8Ø @ 150mm c/c<br>8-T16 |
| Ground Floor to Fdn Beam (1.2m) | Transverse 8Ø @ 150mm c/c<br>4-T20 + 4-T16 | Transverse 8Ø @ 150mm c/c<br>4-T16 + 4-T12 | Transverse 8Ø @ 150mm c/c<br>4-T20 + 2-T16 + 2-T12 | Transverse 8Ø @ 150mm c/c<br>6-T16 + 4-T12 | Transverse 8Ø @ 150mm c/c<br>4-T25 + 4-T20 | Transverse 8Ø @ 150mm c/c<br>4-T16 + 4-T12 | Transverse 8Ø @ 150mm c/c<br>8-T16 |
| Column Marked | C1, C2, C31, C32 | C34, C35 | C3, C7, C26, C30 | C4, C6, C9, C10, C14, C15, C18, C19, C23, C24, C27, C29, | C5, C28 | C8, C11, C13, C16, C17, C20, C22, C25 | C12, C21 |

* Terrace Column to be extended / Curtailed as per requirement (Mumty / solar structure etc.)

| | |
|---|---|
| Terrace Projection 1.2m Height | M25 : Fe500 , Cover = 40mm<br>4-T25 + 2-T20 + 4-T12 |
| Ground Floor to Fdn Beam (1.2m) | Transverse 8Ø @ 150mm c/c<br>4-T25 + 2-T20 + 4-T12 |
| Column Marked | C33, C36 |




DETAIL OF COLUMN
M25, Fy 500, COVER : 40mm




DETAIL OF COLUMN
M25, Fy 500, COVER : 40mm

**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 003 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

OIL INDIA LIMITED ★ PASNI, JODHPUR-342001 ★ 02-A SARASWATI NAGAR DISTRICT SHOPPING CENTRE

अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड (भारत सरकार का उद्यम)
Oil India Limited

PROJECT : OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE : Column Structural Details - ( Baghewala Housing Complex )

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava<br>Supdt. Er. Civil<br>( Engg. Services ) | |
| DRAWN | Hari Singh Rathore<br>( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan<br>DGM Civil<br>( Engg. Services ) | |

SCALE 1 : ... REV. 0

DWG No. OIL/RF/2024/BHC/ST - 005

**Note :**
1. Concrete Grade for RCC shall be M-25 (1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III, and Admixtures as directed by EIC
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | 40 mm | Raft Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Mezzl. | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 360 | 400 | 500 | 625 | 860 | 1000 |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**
1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

DWG No. OIL/RF/2024/BHC/ST - 006

**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

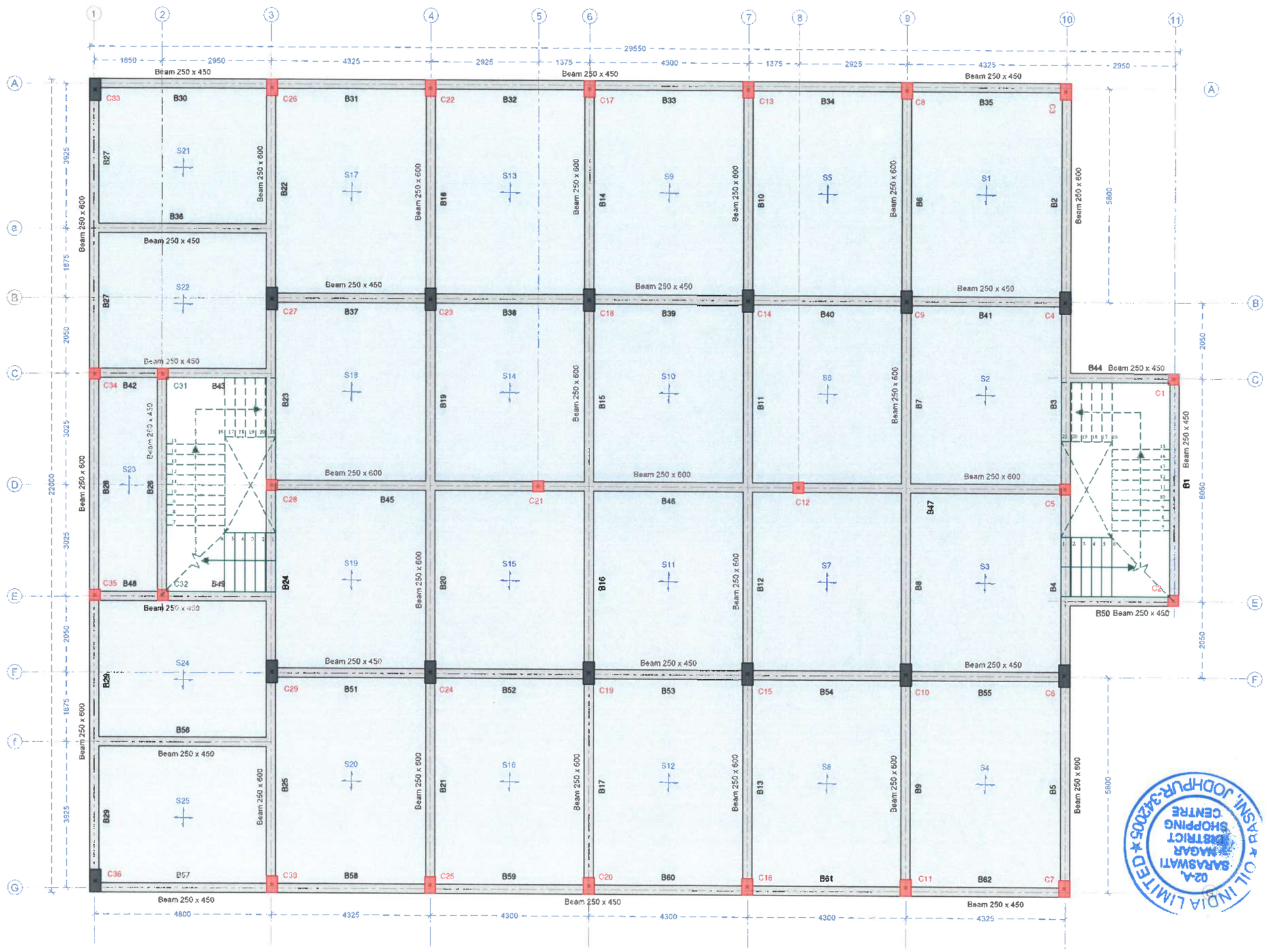
| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 003 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

**Legend :**

- Floor Beam
- Slab 125mm Thick
- Column 600 x 300
- Column 450 x 300
- Column 300 x 300




**First Floor Beam - Slab Layout - Bhagewala Housing Complex**

**Note :**

1. Concrete Grade for RCC shall be M-25 ( 1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm, Fine aggregate (Sand) = Zone - III, and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 250 @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :**

(Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | 40 mm | Raft Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Misc | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
( भारत सरकार का उद्यम )
Oil India Limited
(A Government of India Enterprise)

**PROJECT :**
OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

**TITLE :**
First Floor Beam - Slab Layout - Baghewala Housing Complex

| | | |
|---|---|---|
| DESIGN & CHKD | Mantrash Srivastava Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan DGM Civil ( Engg. Services ) | |

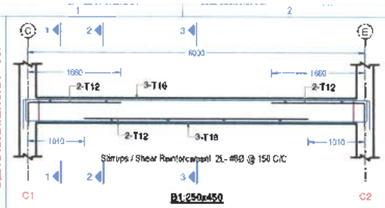
SCALE 1 : 75 REV. 0

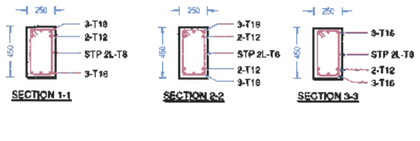
DWG No. OIL/RF/2024/BHC/ST - 006

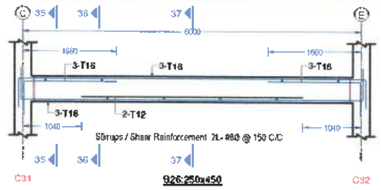
अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

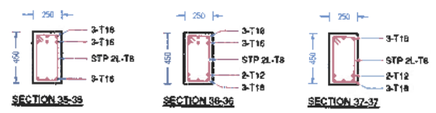
OIL INDIA LIMITED ★ 342005 ★ PAYAL, JODHPUR
02-A, SARASWATI MAGAR DISTRICT SHOPPING CENTRE

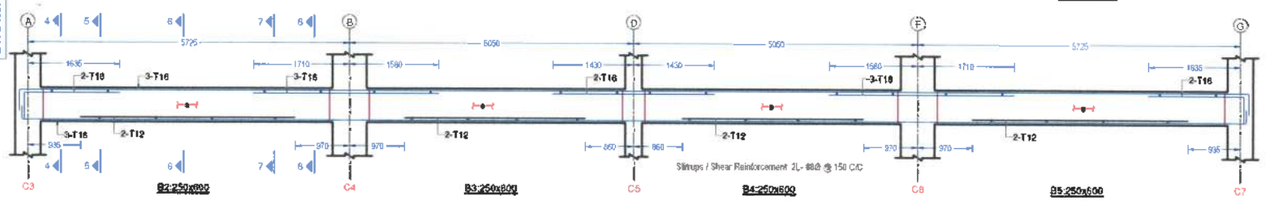
DWG No. OIL/RF/2024/BHC/ST - 007

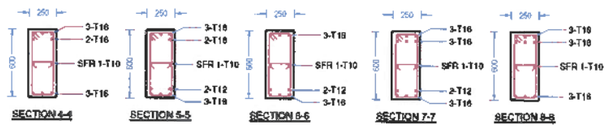


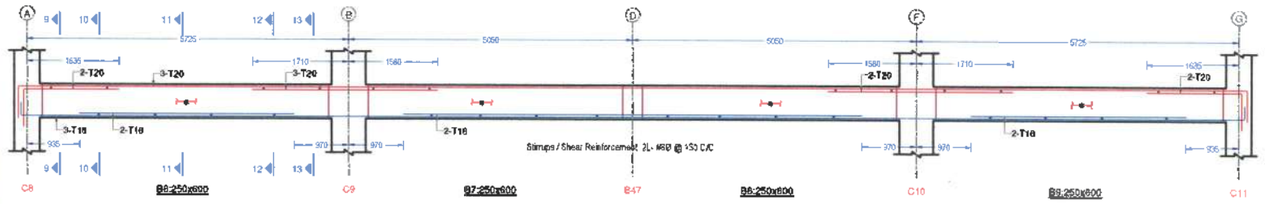



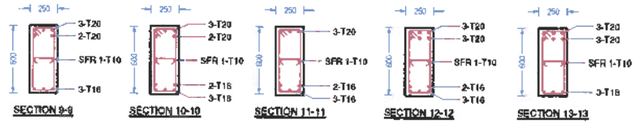



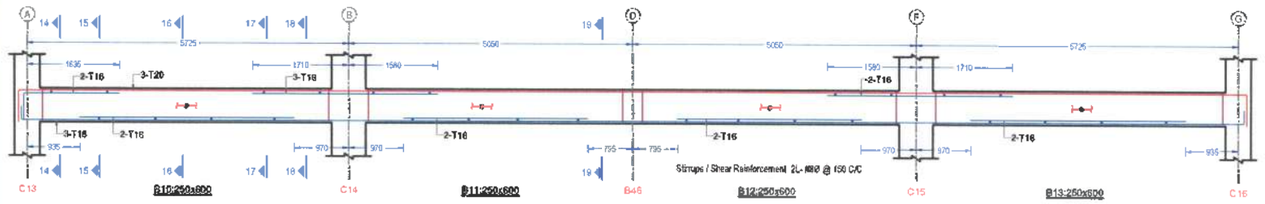



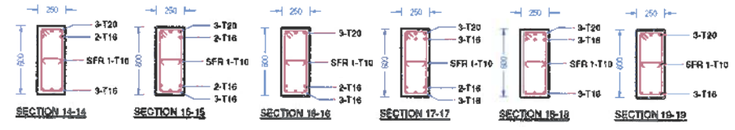



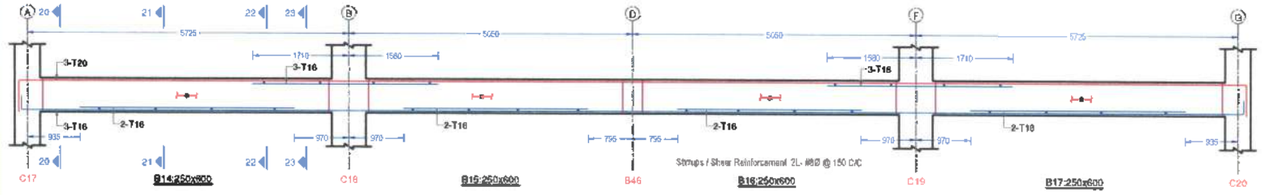



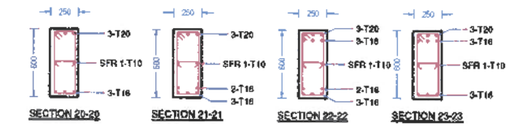



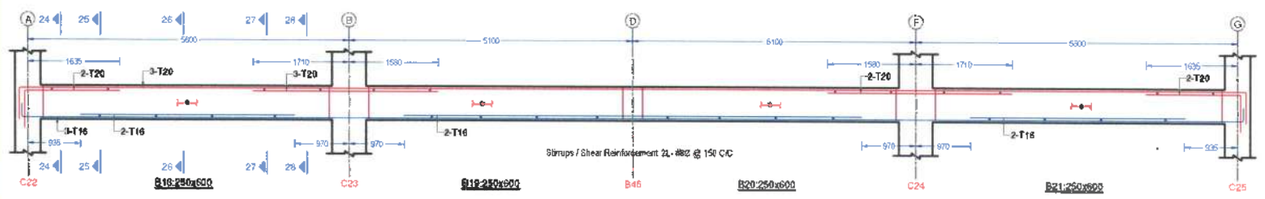



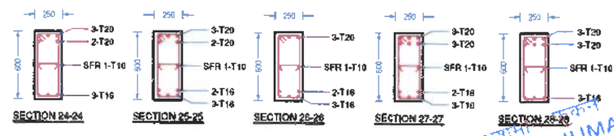



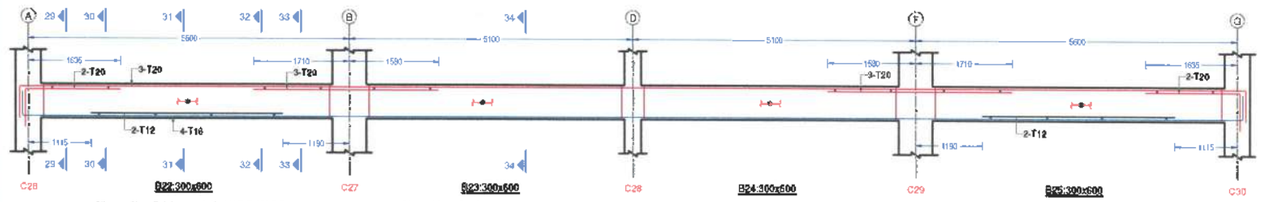



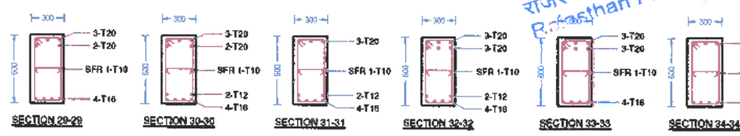



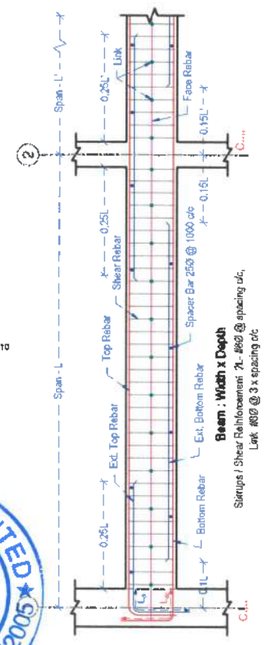




## List of Drawing :

### General Drawings : Baghewala Housing Complex

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 003 |

### Structure Drawings :

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
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| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

OIL INDIA LIMITED ★ BASNI, JODHPUR-342005 ★ 02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE

ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड (भारत सरकार का उद्यम) Oil India Limited (A Government of India Enterprise)

PROJECT : OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE : First Floor Beam Details - 1 [ Baghewala Housing Complex ]

| | | |
|---|---|---|
| DESIGN & CHKD | Mantrash Srivastava Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan DGM Civil ( Engg. Services ) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/ST - 007

**Note :**
1. Concrete Grade for RCC shall be M-25 (1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | |
|---|---|---|---|
| Columns (Main) | 40 mm | Raft Foundation | 50 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm |
| | | Beams | 30 mm |
| Slabs | 25 mm | | |
| Lintel & Misc | 20 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

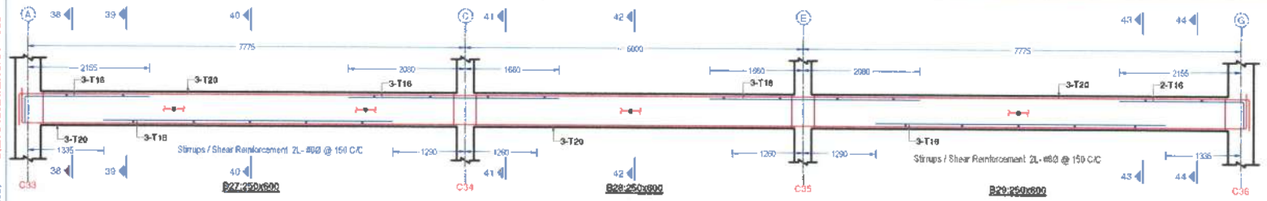
| | | | | | | |
|---|---|---|---|---|---|---|
| Bar Dia | 8@ | 10@ | 12@ | 16@ | 20@ | 25@ |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

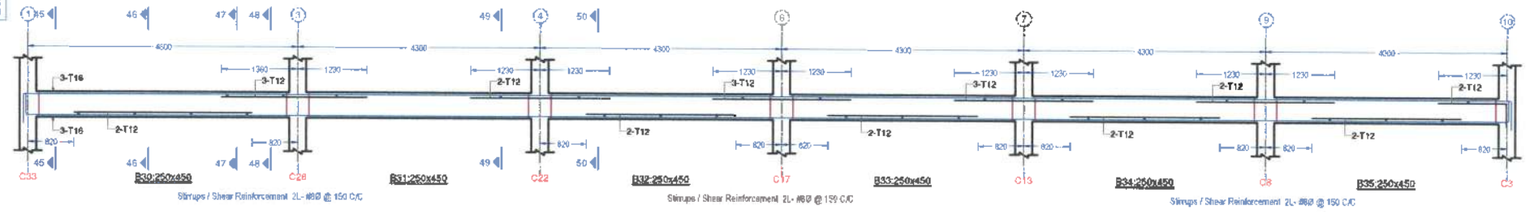
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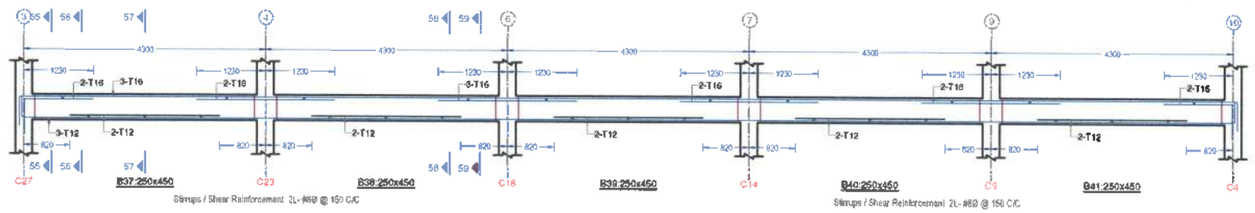
| | | | | | | |
|---|---|---|---|---|---|---|
| Bar Dia | 8@ | 10@ | 12@ | 16@ | 20@ | 25@ |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

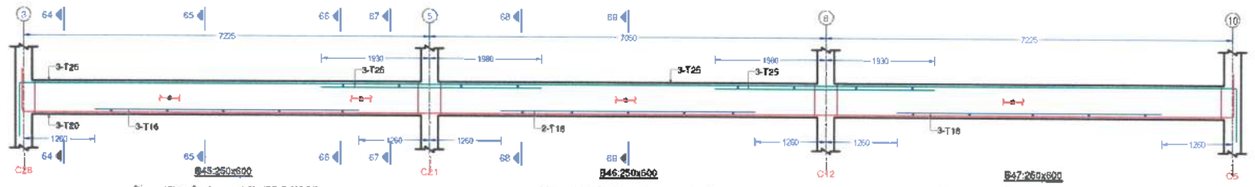
**Notes :**
1. All dimensions are in millimeter, unless noted otherwise
2. Dimensions are not to be scaled from drawings.

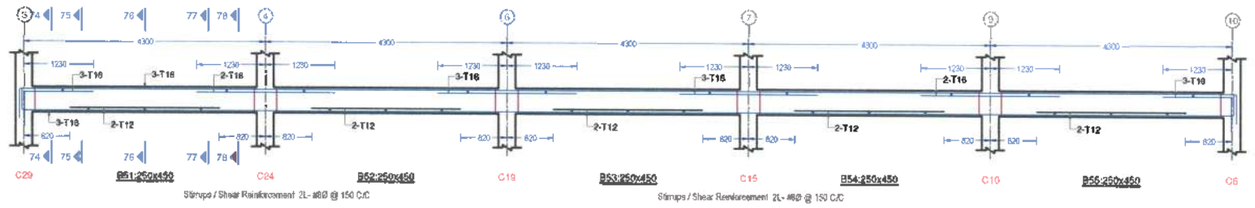
DWG No. OIL/RF/2024/BHC/ST - 008

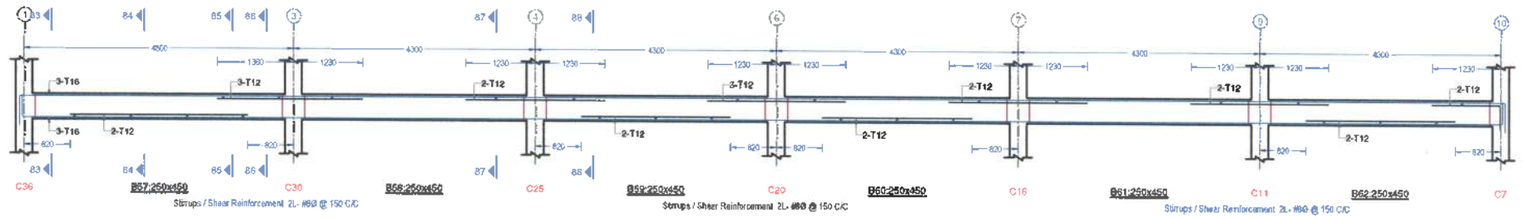


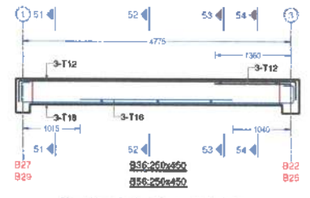



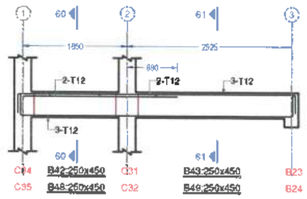



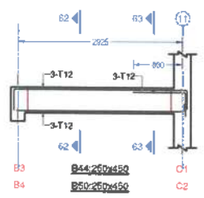



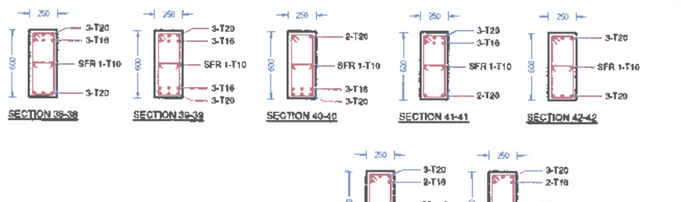



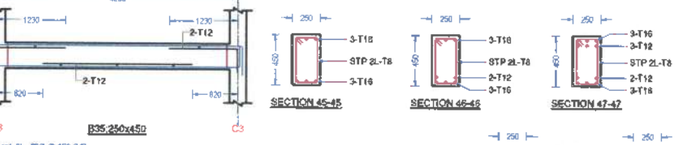



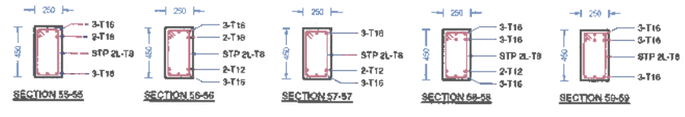



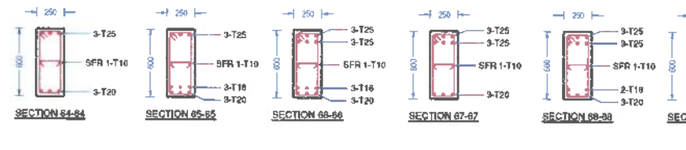



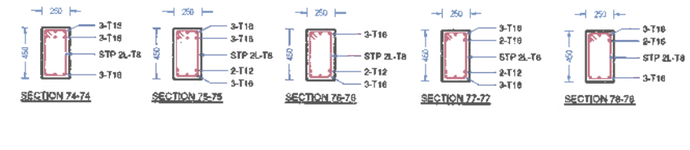



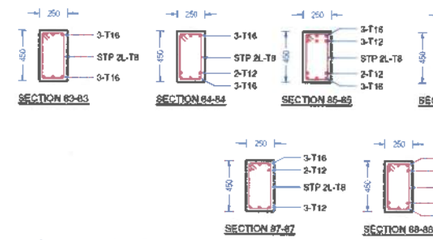



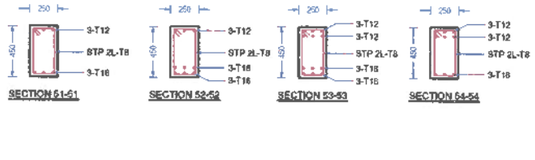



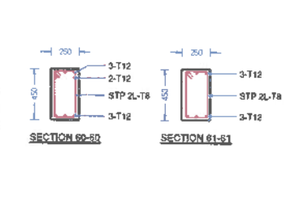



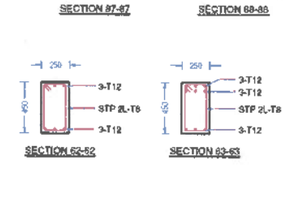




**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 003 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

OIL INDIA LIMITED
02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE
BASNI, JODHPUR-342005

ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

**Note :**

1. Concrete Grade for RCC shall be M-25 ( 1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped of any section.
5. Spacer Bar between layers of beam reinforcement = 250 @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | : 40 mm | Raft Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | : 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Misc. | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
( भारत सरकार का उद्यम )
Oil India Limited
(A Government of India Enterprise)

PROJECT :
OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

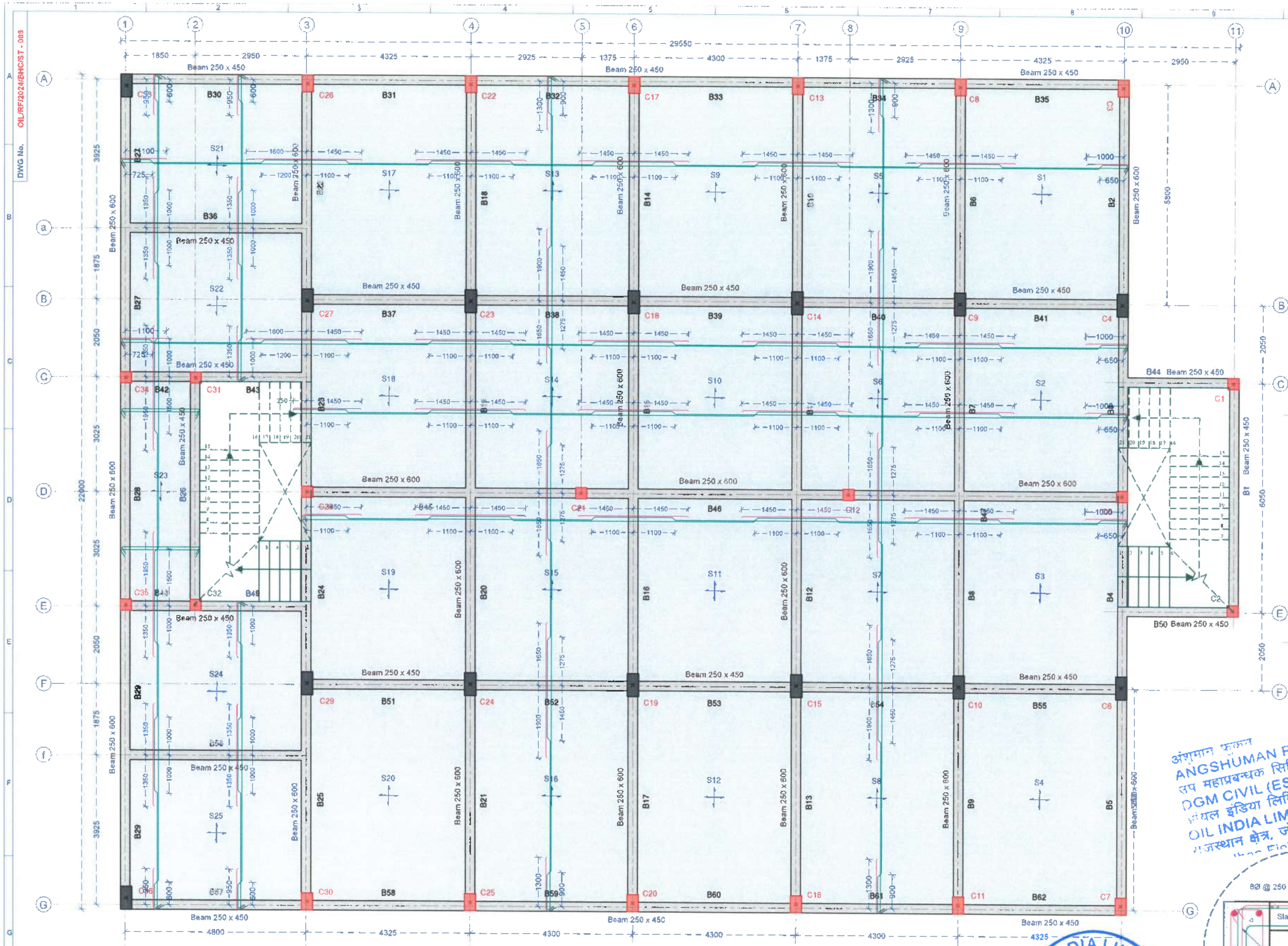
TITLE :
First Floor Beam Details - 2
[ Baghewala Housing Complex ]

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
| APRVD | Angshumen Phukan DGM Civil ( Engg. Services ) | |

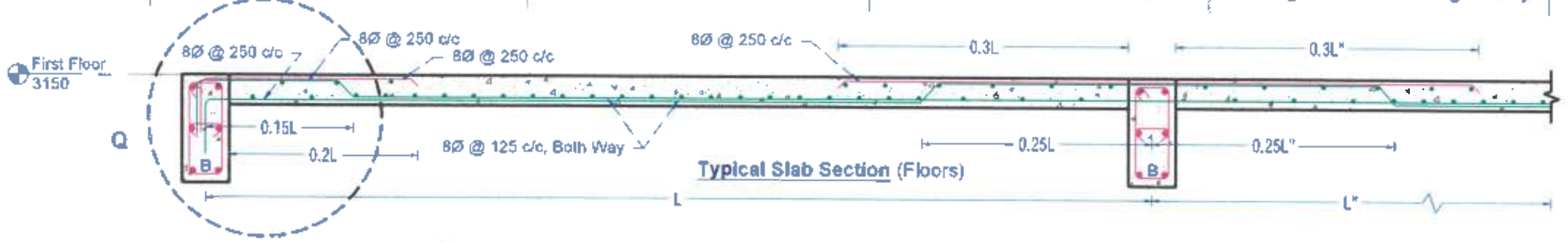
SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/ST - 008

DWG No. OIL/RF/2024/BHC/ST - 009




## First Floor Slab Details - Bhagewala Housing Complex




**Typical Slab Section** (Floors)

**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

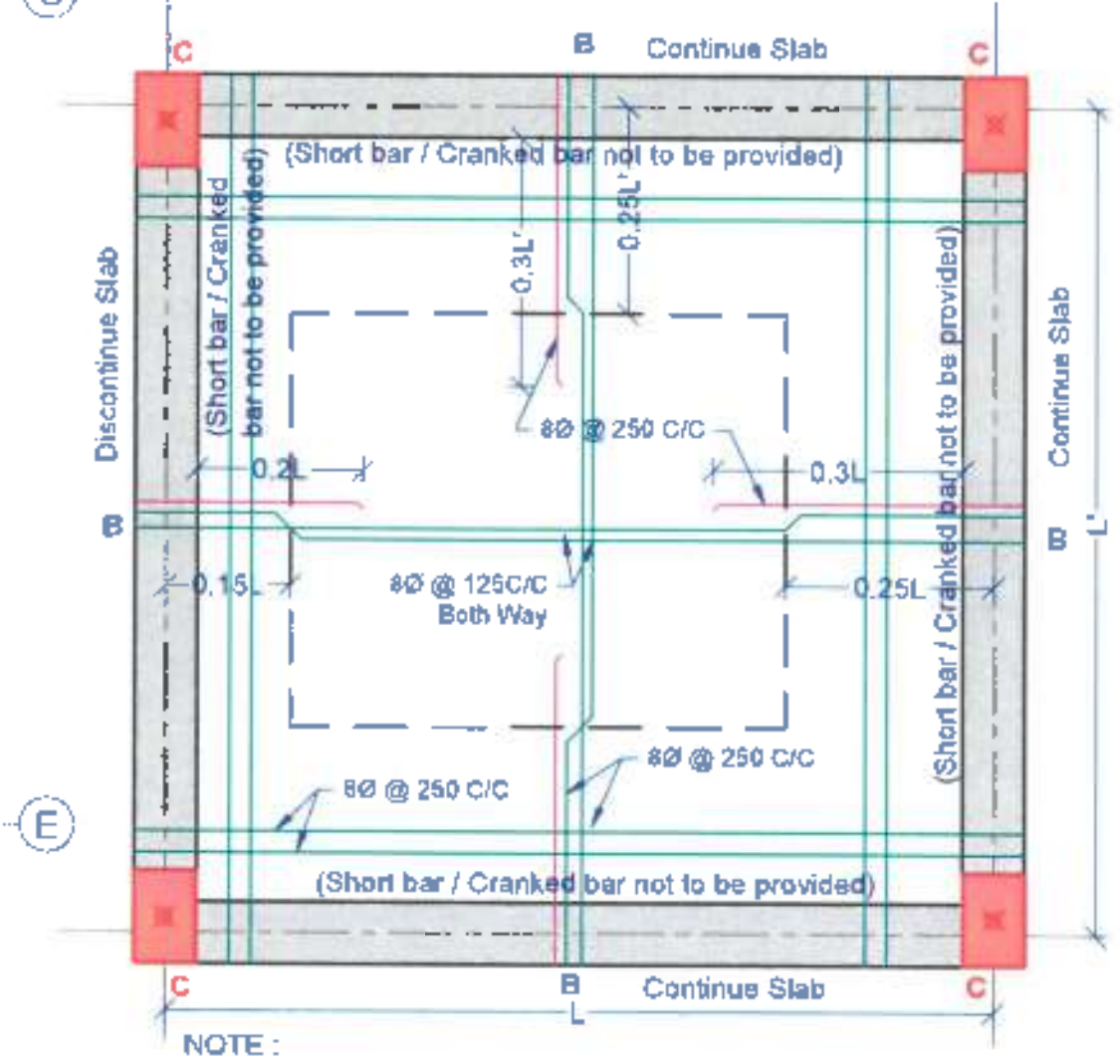
- General Site Layout / Plot Plan — OIL/RF/2024/BHC/GA - 001
- General Ground Floor Layout — OIL/RF/2024/BHC/AR - 001
- General Terrace Floor Layout — OIL/RF/2024/BHC/AR - 002
- Elevations & Sections — OIL/RF/2024/BHC/AR - 003

**Structure Drawings :**

- Fdn. Layout & Col. Layout : OIL/RF/2024/BHC/ST - 001
- Fdn. Beam (Rib) Details 1 & 2 : OIL/RF/2024/BHC/ST - 002, 003
- Foundation & Sectional Details : OIL/RF/2024/BHC/ST - 004
- Column Details : OIL/RF/2024/BHC/ST - 005
- First Floor Beam & Slab Layout : OIL/RF/2024/BHC/ST - 006
- First Floor Beam Details 1 & 2 : OIL/RF/2024/BHC/ST - 007, 008
- First Floor Slab Details : OIL/RF/2024/BHC/ST - 009
- Terrace Floor Beam & Slab Layout : OIL/RF/2024/BHC/ST - 010
- Terrace Floor Beam Details 1 & 2 : OIL/RF/2024/BHC/ST - 011, 012
- Terrace Floor Slab Details : OIL/RF/2024/BHC/ST - 013
- Staircase Details : OIL/RF/2024/BHC/ST - 014

**Legend :**

- Floor Beam
- Slab 125mm Thick
- Column 600 x 300
- Column 450 x 300
- Column 300 x 300

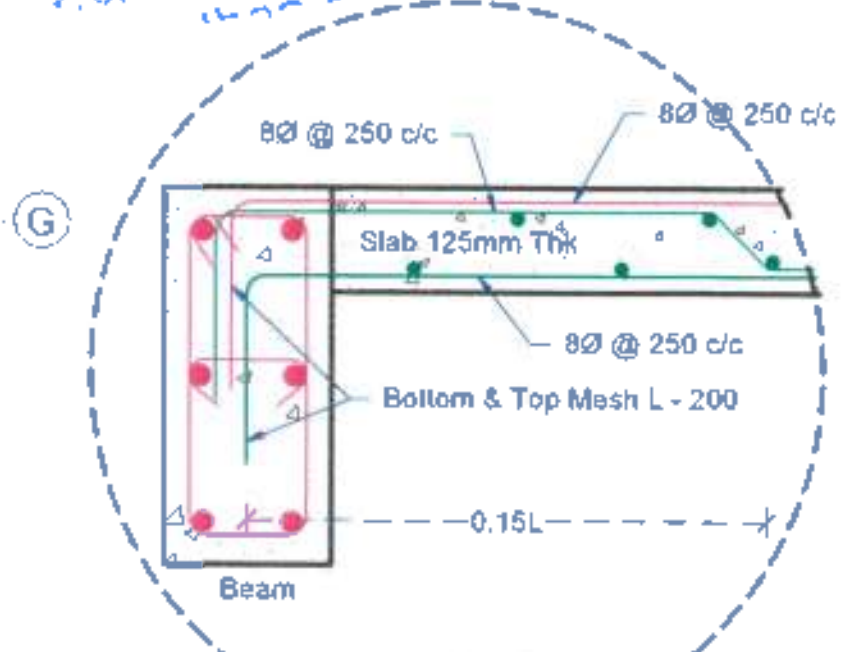



NOTE :
1. Short bar and cranked bar not to be provided to the beam support.
2. Slab Thickness is 125mm.

**Typical Details view of slab reinforcement**

अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

OIL INDIA LIMITED
02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE




**Details - Q**

**Note :**
1. Concrete Grade for RCC shall be M-25 (1 : 1 : 2 Nominal mix): Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III, and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | 40 mm | Raft Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Misc. | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$500 ) :

| Bar Dia | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$550 ) :

| Bar Dia | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**
1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ....... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

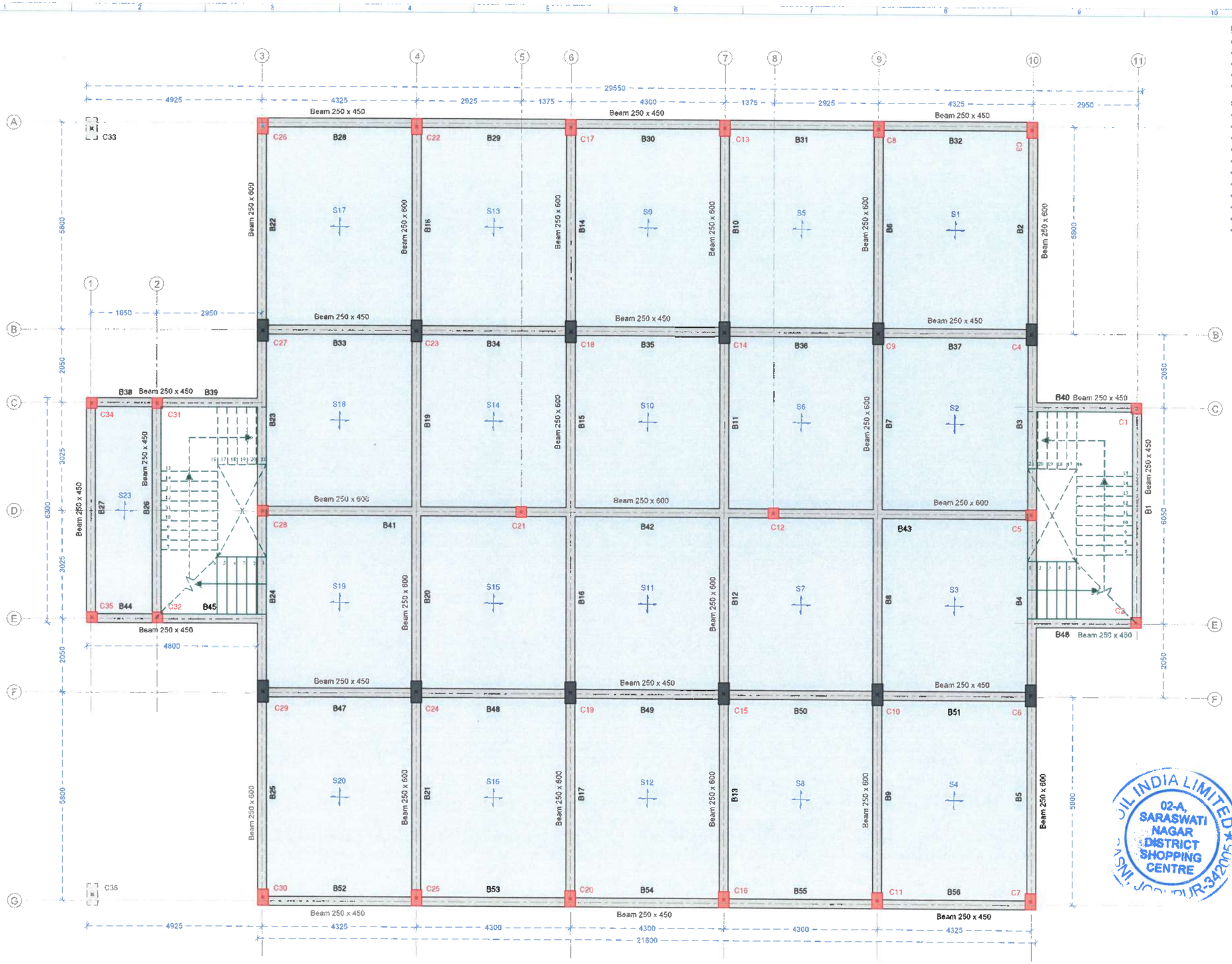
ऑयल इंडिया लिमिटेड
Oil India Limited

PROJECT : OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE : First Floor Slab Details - Baghewala Housing Complex

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava, Supdt. Er. Civil (Engg. Services) | [signature] |
| DRAWN | Hari Singh Rathore (B.Tech - Civil) | [signature] |
| APRVD | Angshuman Phukan, DGM Civil (Engg. Services) | [signature] |
| SCALE | 1 : 75 | REV. 0 |
| DWG No. | OIL/RF/2024/BHC/ST - 009 | |

DWG No. OIL/RF/2024/BHC/ST - 010




Terrace Floor Beam - Slab Layout - Bhagewala Housing Complex

**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 003 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

**Legend :**

- Floor Beam
- Slab 125mm Thick
- Column 600 x 300
- Column 450 x 300
- Column 300 x 300

अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
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Rajasthan Field, Jodhpur

OIL INDIA LIMITED
02-A, SARASWATI NAGAR
DISTRICT SHOPPING CENTRE
JODHPUR-342005

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड (भारत सरकार का उद्यम)
Oil India Limited (A Government of India Enterprise)

PROJECT : OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE : Terrace Floor Beam - Slab Layout - Baghewala Housing Complex

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava, Supdt. Er. Civil (Engg. Services) | |
| DRAWN | Hari Singh Rathore (B.Tech - Civil) | |
| APRVD | Angshuman Phukan, DGM Civil (Engg. Services) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/ST - 010

**Note :**

1. Concrete Grade for RCC shall be M-25 (1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm, Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
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(Not Less Than)

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| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Miscl | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | | | | | | |
|---|---|---|---|---|---|---|
| Bar Dia | 8ϕ | 10ϕ | 12ϕ | 16ϕ | 20ϕ | 25ϕ |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

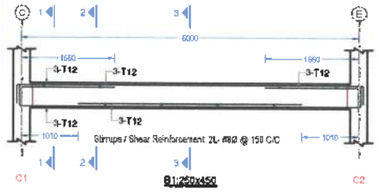
**Development Length** ( for M25 Grade & $F_y$ 550 ) :

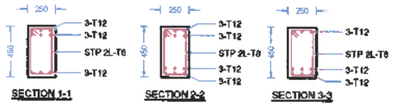
| | | | | | | |
|---|---|---|---|---|---|---|
| Bar Dia | 8ϕ | 10ϕ | 12ϕ | 16ϕ | 20ϕ | 25ϕ |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

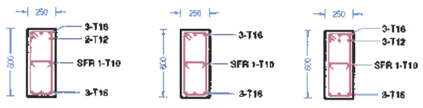
**Notes :**

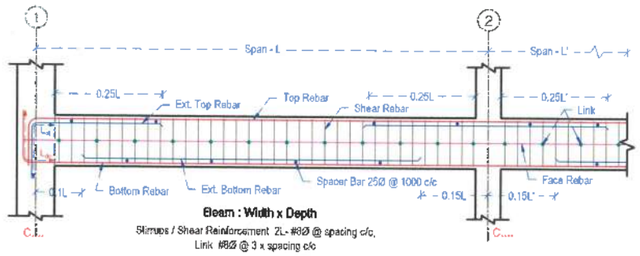
1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

DWG No. OIL/RF/2024/BHC/ST - 011

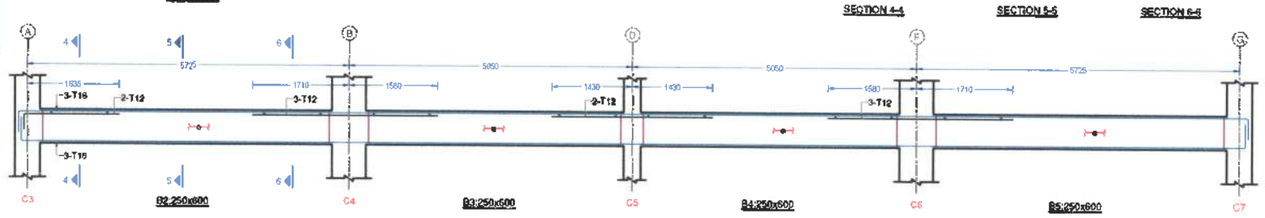


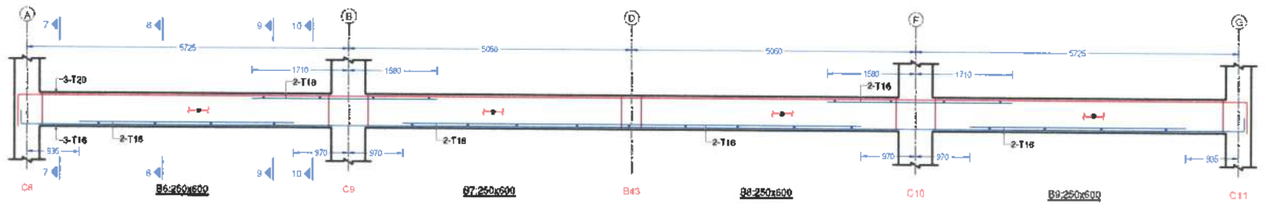



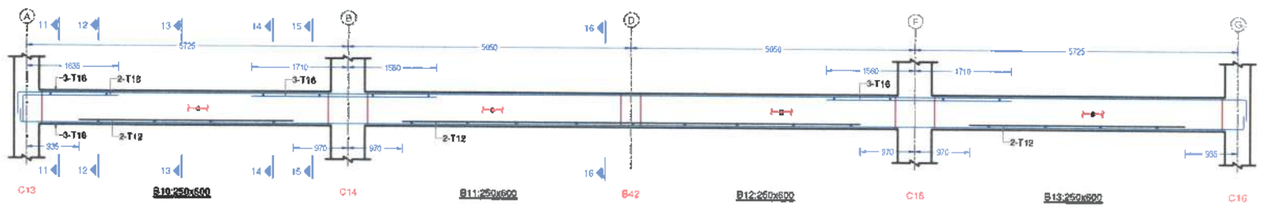



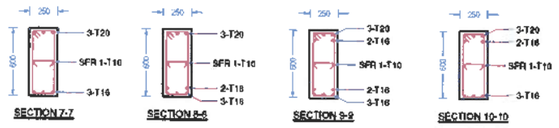



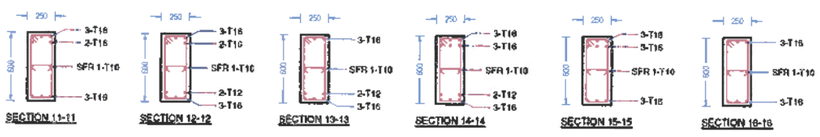

Typical Beam Section

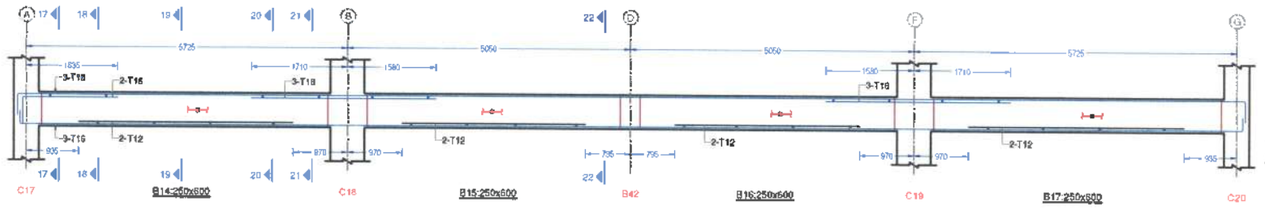


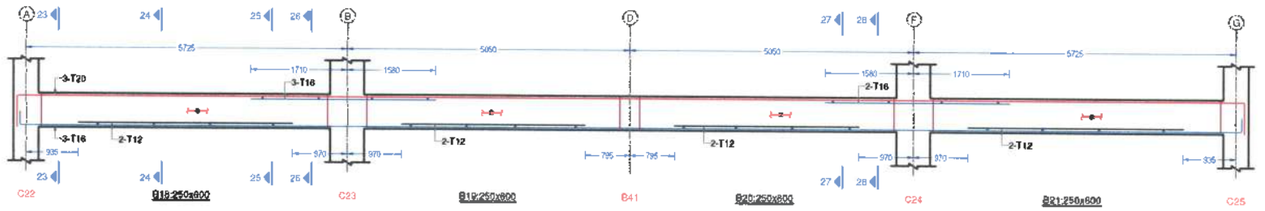



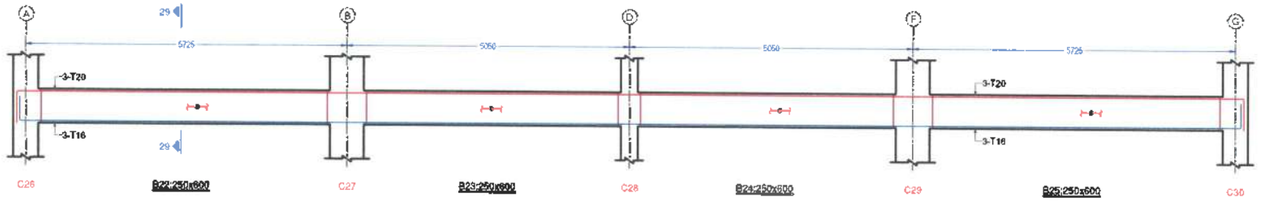



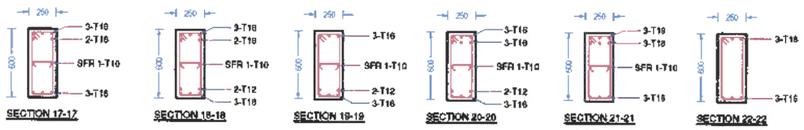



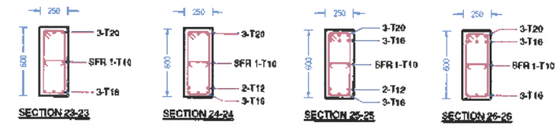



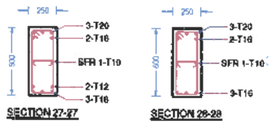



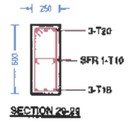




**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 003 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

OIL INDIA LIMITED ★ 02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE ★ BASNI, JODHPUR-342005

ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

**Note :**

1. Concrete Grade for RCC shall be M-25 ( 1 : 1 : 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 2#@ @ 1000 C/C.
6. Chair Bar = 12@ to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :**

(Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | 40 mm | Raft Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Misc. | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8@ | 10@ | 12@ | 16@ | 20@ | 25@ |
|---|---|---|---|---|---|---|
| Bar Dia | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Tension Bar | 300 | 400 | 500 | 625 | 800 | 1000 |
| Compression Bar | | | | | | |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8@ | 10@ | 12@ | 16@ | 20@ | 25@ |
|---|---|---|---|---|---|---|
| Bar Dia | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Tension Bar | 350 | 450 | 500 | 700 | 850 | 1050 |
| Compression Bar | | | | | | |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings.

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड (भारत सरकार का उद्यम) Oil India Limited (A Government of India Enterprise)

PROJECT :
OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

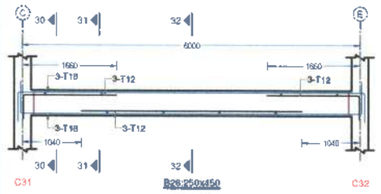
TITLE :
Terrace Floor Beam Details - 1
[ Baghewala Housing Complex ]

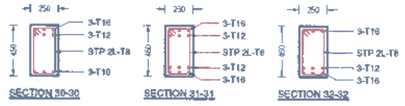
| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava, Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan, DGM Civil ( Engg. Services ) | |

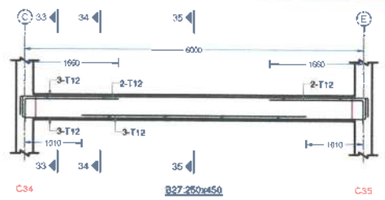
SCALE 1 : 75 REV. 0

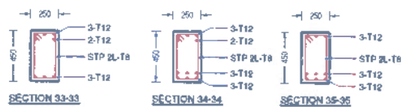
DWG No. OIL/RF/2024/BHC/ST - 011

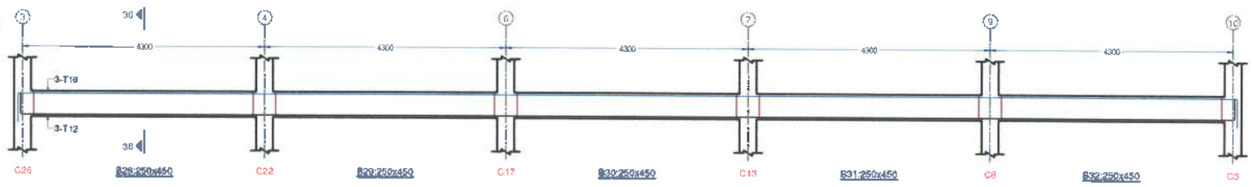
DWG No. OIL/RF/2024/BHC/ST - 012

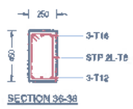


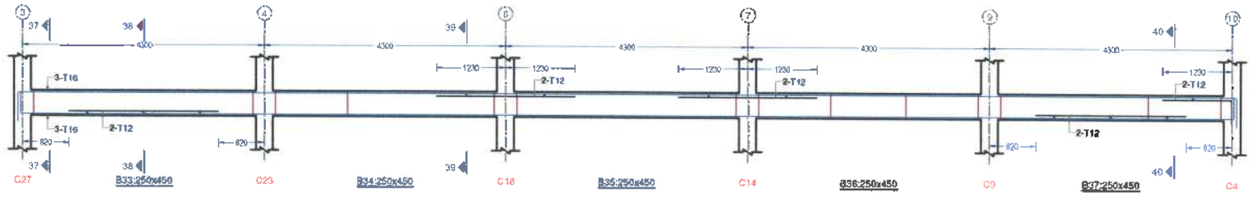



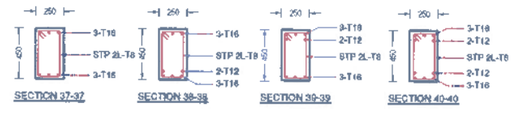



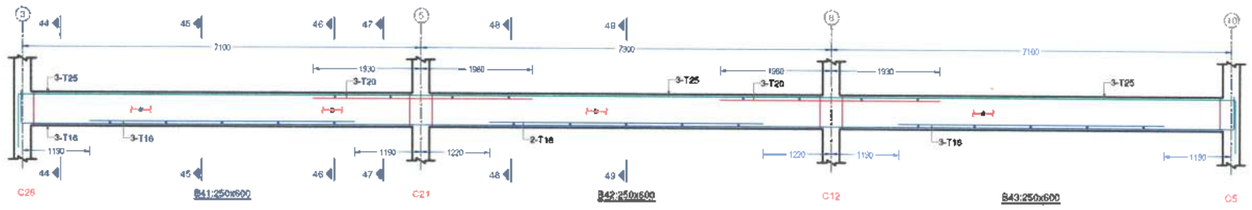



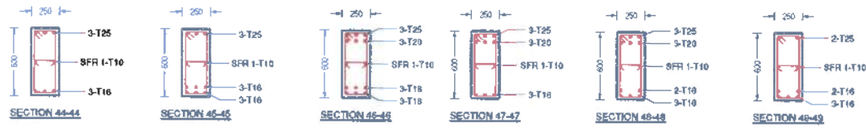



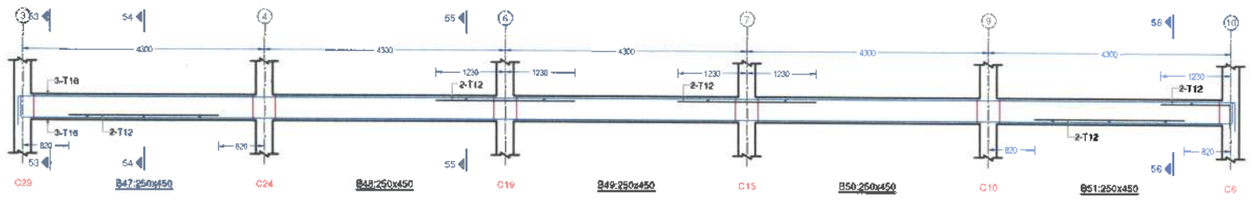



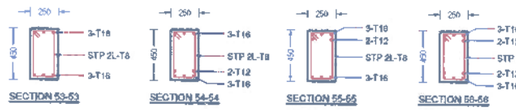



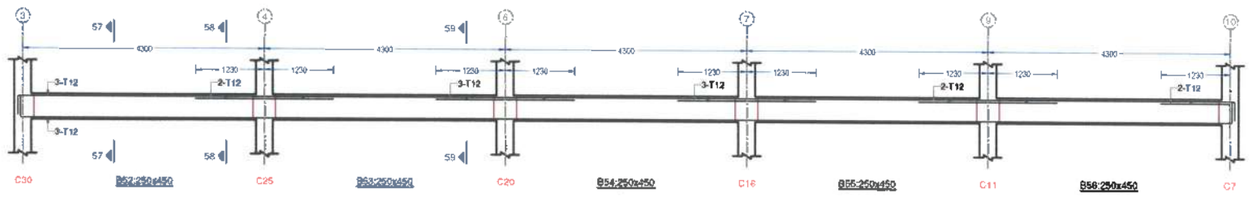



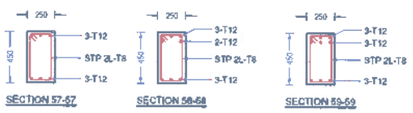



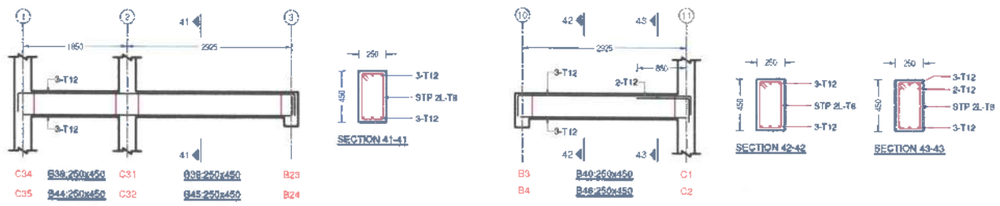



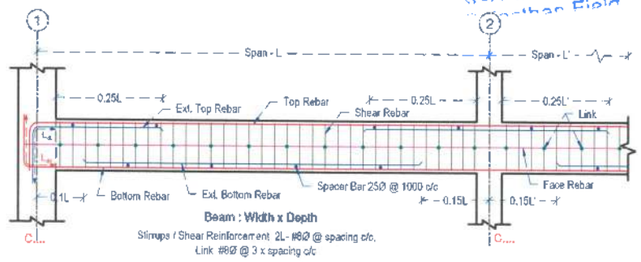




**Typical Beam Section**

**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

| | |
|---|---|
| General Site Layout / Plot Plan | OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | OIL/RF/2024/BHC/AR - 003 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | OIL/RF/2024/BHC/ST - 004 |
| Column Details | OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | OIL/RF/2024/BHC/ST - 014 |

OIL INDIA LIMITED ★ 02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE SM, JODHPUR-342005

अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Jaisalmer Field, Jodhpur

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | ..... | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड (भारत सरकार का उद्यम)
Oil India Limited (A Government of India Enterprise)

PROJECT :
OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE :
Terrace Floor Beam Details - 2
[ Baghewala Housing Complex ]

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan DGM Civil ( Engg. Services ) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/ST - 012

**Note :**

1. Concrete Grade for RCC shall be M-25 (1 : 1 . 2 Nomanal mix); Course aggregate = 20mm; Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar.
4. Not more then 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 25Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | 40 mm | Raft,Foundation | 50 mm | Slabs | 25 mm |
| Columns (Stirrups) | 15 mm | Fdn. Rib Beam | 50 mm | Lintel & Mezt | 20 mm |
| | | Beams | 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| Bar Dia | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Tension Bar | 400 | 500 | 500 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

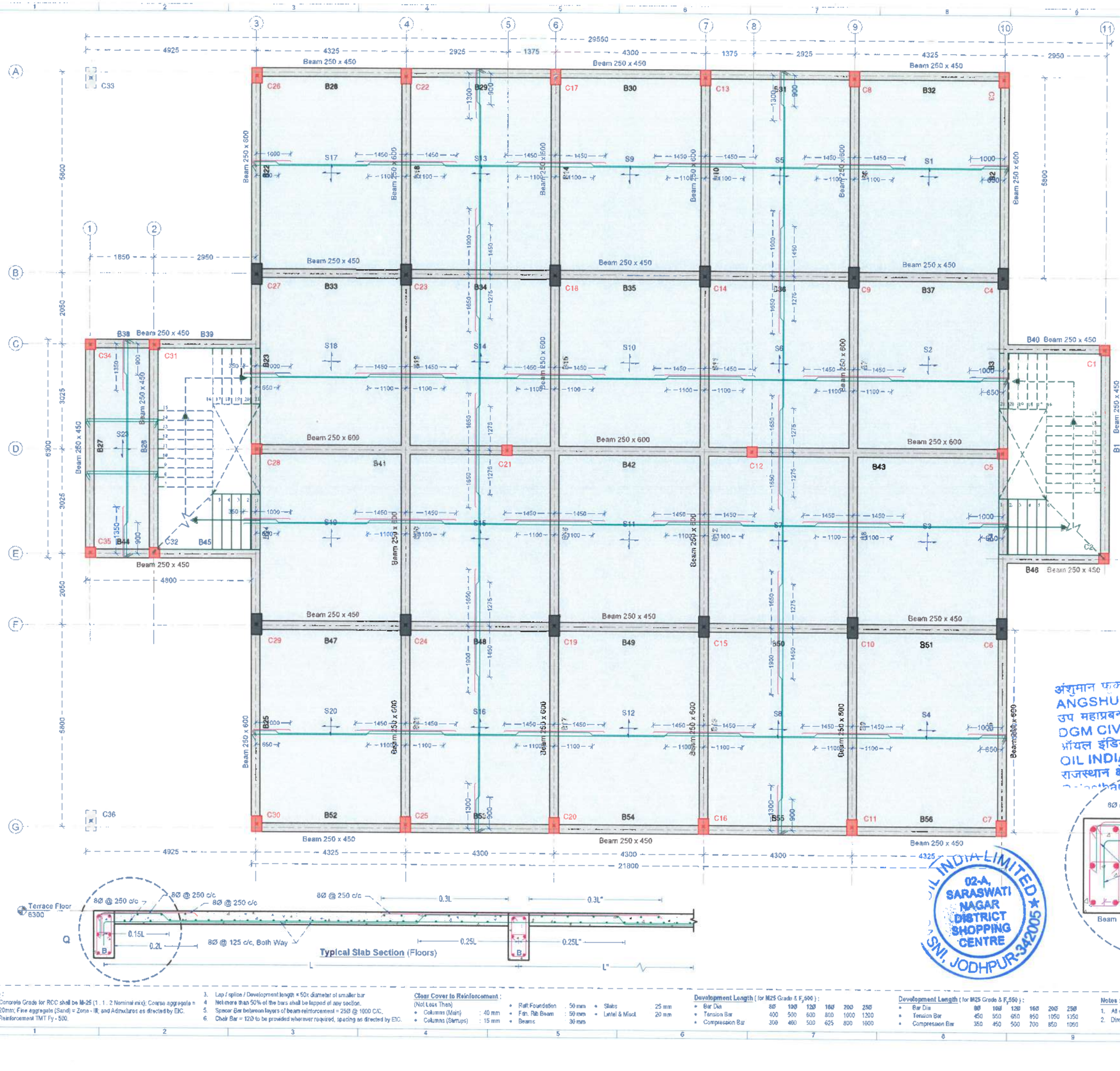
**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| Bar Dia | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 356 | 450 | 560 | 760 | 850 | 1050 |

**Notes :**

1. All dimensions are in millimeter, unless noted otherwise
2. Dimensions are not to be scaled from drawings.

DWG No. OIL/RF/2024/BHC/ST - 013




**List of Drawing :**

**General Drawings : Baghewala Housing Complex**

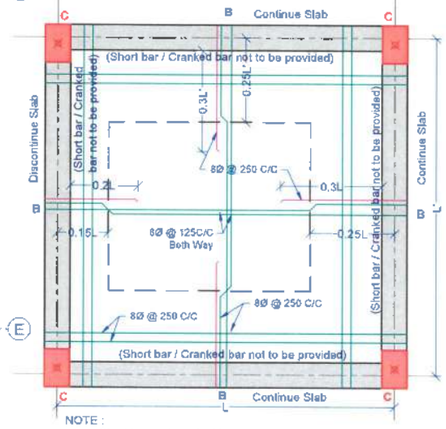
| | |
|---|---|
| General Site Layout / Plot Plan | : OIL/RF/2024/BHC/GA - 001 |
| General Ground Floor Layout | : OIL/RF/2024/BHC/AR - 001 |
| General Terrace Floor Layout | : OIL/RF/2024/BHC/AR - 002 |
| Elevations & Sections | : OIL/RF/2024/BHC/AR - 003 |

**Structure Drawings :**

| | |
|---|---|
| Fdn. Layout & Col. Layout | : OIL/RF/2024/BHC/ST - 001 |
| Fdn. Beam (Rib) Details 1 & 2 | : OIL/RF/2024/BHC/ST - 002, 003 |
| Foundation & Sectional Details | : OIL/RF/2024/BHC/ST - 004 |
| Column Details | : OIL/RF/2024/BHC/ST - 005 |
| First Floor Beam & Slab Layout | : OIL/RF/2024/BHC/ST - 006 |
| First Floor Beam Details 1 & 2 | : OIL/RF/2024/BHC/ST - 007, 008 |
| First Floor Slab Details | : OIL/RF/2024/BHC/ST - 009 |
| Terrace Floor Beam & Slab Layout | : OIL/RF/2024/BHC/ST - 010 |
| Terrace Floor Beam Details 1 & 2 | : OIL/RF/2024/BHC/ST - 011, 012 |
| Terrace Floor Slab Details | : OIL/RF/2024/BHC/ST - 013 |
| Staircase Details | : OIL/RF/2024/BHC/ST - 014 |

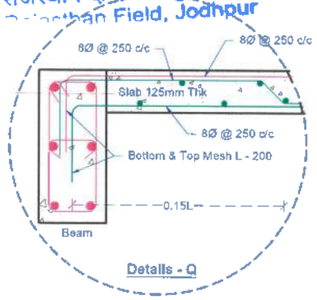
**Legend :**

- Floor Beam
- Slab 125mm Thick
- Column 600 x 300
- Column 450 x 300
- Column 300 x 300




NOTE :
1. Short bar and cranked bar not to be provided to the beam support.
2. Slab Thickness is 125mm.

**Typical Details view of slab reinforcement**




**Details - Q**




**Typical Slab Section (Floors)**

अंशुमान फुकन
ANGSHUMAN PHUKAN
उप महाप्रबन्धक सिविल (अ.से.)
DGM CIVIL (ES)
ऑयल इंडिया लिमिटेड
OIL INDIA LIMITED
राजस्थान क्षेत्र, जोधपुर
Rajasthan Field, Jodhpur

OIL INDIA LIMITED
02-A, SARASWATI NAGAR DISTRICT SHOPPING CENTRE
SNI, JODHPUR-342005

| No | Revisions | Date | Aprvd |
|---|---|---|---|
| 4 | Rev. 2 | | |
| 3 | Rev. 1 | | |
| 2 | Vetting | | |
| 1 | Tender Drawing | Aug 01, 2024 | |

ऑयल इंडिया लिमिटेड
Oil India Limited

PROJECT : OIL BAGHEWALA HOUSING COMPLEX, JAISALMER

TITLE : Terrace Floor Slab Details - Baghewala Housing Complex

| | | |
|---|---|---|
| DESIGN & CHKD | Mantresh Srivastava Supdt. Er. Civil ( Engg. Services ) | |
| DRAWN | Hari Singh Rathore ( B.Tech - Civil ) | |
| APRVD | Angshuman Phukan DGM Civil ( Engg. Services ) | |

SCALE 1 : 75 REV. 0

DWG No. OIL/RF/2024/BHC/ST - 013

**Note :**
1. Concrete Grade for RCC shall be M-25 (1 : 1 . 2 Nominal mix); Coarse aggregate = 20mm; Fine aggregate (Sand) = Zone - III; and Admixtures as directed by EIC.
2. Reinforcement TMT Fy - 500.
3. Lap / splice / Development length = 50x diameter of smaller bar
4. Not more than 50% of the bars shall be lapped at any section.
5. Spacer Bar between layers of beam reinforcement = 2Ø @ 1000 C/C.
6. Chair Bar = 12Ø to be provided wherever required, spacing as directed by EIC.

**Clear Cover to Reinforcement :** (Not Less Than)

| | | | | | |
|---|---|---|---|---|---|
| Columns (Main) | : 40 mm | Raft Foundation | : 50 mm | Slabs | : 25 mm |
| Columns (Stirrups) | : 15 mm | Fdn. Rib Beam | : 50 mm | Lintel & Misc. | : 20 mm |
| | | Beams | : 30 mm | | |

**Development Length** ( for M25 Grade & $F_y$ 500 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 400 | 500 | 600 | 800 | 1000 | 1200 |
| Compression Bar | 300 | 400 | 500 | 625 | 800 | 1000 |

**Development Length** ( for M25 Grade & $F_y$ 550 ) :

| | 8Ø | 10Ø | 12Ø | 16Ø | 20Ø | 25Ø |
|---|---|---|---|---|---|---|
| Bar Dia | | | | | | |
| Tension Bar | 450 | 550 | 650 | 850 | 1050 | 1350 |
| Compression Bar | 350 | 450 | 500 | 700 | 850 | 1050 |

**Notes :**
1. All dimensions are in millimeter, unless noted otherwise.
2. Dimensions are not to be scaled from drawings

**Project: Bhagewala Housing Complex**

# GANTT CHART

**ANNEXURE - I**

| | Months => | 1st | 2nd | 3rd | 4th | 5th | 6th | 7th | 8th | 9th | 10th | 11th | 12th | 13th | 14th | 15th | 16th | 17th | 18th | 19th | 20th | 21st | 22nd | 23rd | 24th |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Block** (Team-1) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Preparatory | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Foundation | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | RCC frame structure | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Masonry | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Chasing (cables/Pipes) | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Testing Roof water | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Internal plaster | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | External Cladding | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Doors Windows | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Paintings | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Elect/Inst Fittings | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Tiles | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Sanitary fittings | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Stair & Railings | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Miscl | | | | | | | | | | | | | | | | | | | | | | | | |
| **Substation/Miscl.** (Team-2) | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | UG tanks, RW etc | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Boundary | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Landscape/Horticulture | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Road | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Ext. Elect DSS | | | | | | | | | | | | | | | | | | | | | | | | |

**NB:** *Refined CPM/Gantt chart shall be prepared by the contractor,and has to be approved by the Engineer In-Charge(OIL)

**Penalty (LD) shall be levied for delay in each individual set of activity/WBS elements on its proportionate values. The penalty shall be refunded if overall works are completed within gross period.

***Minor incompleteness which does not affect the other activities may be exepted (to be assessed and decided by EIC)

**Contractor**

**Oil India Ltd**