



**ASSAM PETRO-CHEMICALS LIMITED
NAMRUP**

NOTICE INVITING TENDER

FOR

**Replacement of Power Supply Arrangement to 430 V PCC Panel of 100 TPD M-II Plant –
Migrations from ASEB & 1000 KVA STG to 11 MW CPP (HT-201, Panel-24)"
AT APL NAMRUP**

TENDER NO: APL/C&P/ ELECT/2026-27/648

HEAD OFFICE:

Namrup, P.O. Parbatpur -786623,

Dist- Dibrugarh, Assam

Tel: (0374) 2500331/212/518

E-mail: contract@assampetrochemicals.co.in

Website: www.assampetrochemicals.co.in

REGD. OFFICE:

4th Floor, ORION Place, Bhangagarh

Srimanta Sankardev Path, Guwahati-781005

Tel: (0361) 2461470/2461471/246

E-mail: contract@assampetrochemicals.co.in

<u>TABLE OF CONTENTS</u>	
SECTION – I	INVITATION FOR BIDS
SECTION – II	SCOPE OF WORK
SECTION – III	INSTRUCTION TO BIDDERS
SECTION – IV	BIDDERS ELIGIBILITY CRITERIA AND BID EVALUATION METHODOLOGY
SECTION – V	SPECIAL CONDITIONS OF CONTRACT
SECTION – VI	SCHEDULE OF RATES (SOR)
SECTION – VII	FORMS AND ANNEXURES

NOTICE INVITING TENDER

Assam Petrochemicals Limited (APL) invites tenders from competent & experienced contractors for the under mentioned job in **Single stage Two bid system** comprising Techno-Commercial Bid & Price Bid.

NAME OF WORK	EARNEST MONEY	TENDER PROCESSING FEES
Replacement of Power Supply Arrangement to 430 V PCC Panel of 100 TPD M-II Plant – Migrations from ASEB & 1000 KVA STG to 11 MW CPP (HT-201, Panel-24)" AT APL NAMRUP	INR 512074	INR 5121

BID DOCUMENT ISSUE PERIOD	From 17:00 Hrs on dt. 16.07.2026 up to 15:00 Hrs on dt. 05.08.2026
LAST DATE OF BID SUBMISSION	Up to 15:00 Hrs on dt. 05.08.2026
BID OPENING DATE	At 15:00 Hrs on dt. 06.08.2026
BID SUBMISSION	In e-tendering portal https://assamtenders.gov.in/nicgep/app
PRE-BID MEETING	Pre-Bid Meeting 24.07.2026 at 2.30 pm Venue-APL Namrup
AVAILABILITY OF TENDER DOCUMENTS	1. https://assamtenders.gov.in/nicgep/app 2. www.assampetrochemicals.co.in

Sd/-
Managing Director

1.0 The brief details of Tender are as under

Sl. No	Description	Remarks
a)	Bid type	Single stage Two bid
b)	Bid Documents Issue Period	From 17:00 Hrs on dt. 16.07.2026 up to 15:00 Hrs on dt. 05.08.2026
c)	Last Date and time for submission of Bids (DUE DATE)	Up to 15:00 Hrs on dt. 05.08.2026
d)	Place of Submission of Hard Copy of Techno-Commercial Bid excluding Price Bid	General Manager – TS & C&P (i/C) Mob. No. +91-94351 39178 Email-borah.nb@assampetrochemicals.co.in Assam Petrochemicals Limited P.O. Parbatpur, Namrup Dist. Dibrugarh, Pin – 786623, Assam (India)
e)	Opening of Bid.	At 15:00 Hrs on dt. 06.08.2026
f)	Contact Person with details for any clarifications	Nava Bikash Borah General Manager – TS & C&P (i/C) Mob. No. +91-94351 39178 Email- borah.nb@assampetrochemicals.co.in contract@assampetrochemicals.co.in And B.C Deka DGM (Elect.) Mob. No. +91-9394053200 Email- bdeka@assampetrochemicals.co.in
g)	Bid Validity	180 days from the DUE DATE or EXTENDED DUE DATE
h)	Earnest Money Deposit (EMD)	INR. 512074

i)	Pre-Bid Meeting	Pre-Bid Meeting 24.07.2026 at 2.30 pm Address-Conference Hall Assam Petrochemicals Limited P.O. Parbatpur, Namrup Dist. Dibrugarh, Pin – 786623, Assam (India) Note-Bidders can attend the pre-bid meeting through VC mode also.
j)	Tender Processing Fees	INR 5121
k)	Bid Submission	Online in e-tendering portal https://assamtenders.gov.in/nicgep/app
l)	Availability of Tender Documents	1. https://assamtenders.gov.in/nicgep/app 2. www.assampetrochemicals.co.in

1.1 ONLINE SUBMISSION : Files containing documents to be uploaded in e-tendering portal are as under:

Cover No. 1	1. EMD + Integrity Pact	PDF File
	2. Un-priced Bid	PDF File
Cover No. 2	1. Price Bid	Microsoft Excel File

1.2 OFFLINE SUBMISSION : Hard copies of to be submitted are as under:

Envelope No	Contains	Marking
Envelope No. 1	Envelope No. 2 + Envelope No. 3	Marked on the top of the Envelope with Tender No & Work Description
Envelope No. 2	EMD + Integrity Pact	- do -
Envelope No. 3	Un-priced Bid	- do -

Note: Price Bid or Price related information should not be submitted along with documents submitted in hard copy. If submitted the Bid will be rejected.

1.3 The hard copies of the bids is required to be submitted within 07(Seven) days from the Bid due date and send to the address given below:

To
The General Manager – TS & C&P (i/C)

**Assam Petrochemicals Limited,
Namrup, P.O. Parbatpur
Dibrugarh, Assam, Pin 786623**

1.4 Bidder shall strictly follow above mentioned bid submission procedure, failing which may lead to rejection of bids.

1.0 BACKGROUND:

Assam Petrochemicals Limited (APL) was set up to utilize the huge reserve of Natural Gas in the Upper Assam oil fields and also to meet the requirement of increasing national demand for Methanol and Formalin. Incorporated in 1971, the company was a pioneer in the field as it was the first to manufacture petrochemicals in India using natural gas as feedstock. Its Petrochemical plant was set up in Namrup, Dibrugarh Dist. of Assam.

Assam Petro-Chemicals Ltd. is now implementing a mega project of 500 TPD Methanol and 200 TPD Formaldehyde plant as an expansion project of the company at a total cost of Rs. 1709 crores. The Hon'ble Prime Minister of India, Shri Narendra Modi virtually dedicated the 500 TPD Methanol Plant of the Company in service to the Nation on 14.04.2023. In addition to this, the project work of 200 TPD Formalin Plant in Boitamari of Bongaigaon district has started its production. Government of Assam, Oil India Limited and Assam Gas Company Limited are investing in equity capital for implementation of 500 TPD Methanol and 200 TPD Formalin project. Government of Assam along with Assam Gas Co. Ltd and AIDC Ltd. holds 51% of shares and Oil India Ltd. holds 49% of the equity capital of the company.

1.1. The site for the New Plant:

The new 500 TPD Methanol Plant is set up in the land area adjacent to existing location of APL factory at Namrup.

1.2. Approach to site:

The APL factory is situated at Namrup in the district of Dibrugarh, Assam, India. Namrup is connected with Dibrugarh by national Highway NH-37 and is at a distance of around 70 KM from Dibrugarh and around 65 KM from Dibrugarh Air Port. The nearest railway Station is Namrup Station and is at a distance of 9 KM. The Station has siding facilities suitable for handling Project equipments. The Railway Track is Broad Gauge.

1.3. The Plot area has an existing Natural ground level of 124.4 m from the MSL.

2.0 DETAILED SCOPE OF WORK:

The Scope of Work is broadly defined as: "Supply, Installation, Fixing, Testing & Commissioning of a complete power supply scheme from HT-201, Panel-24 to the 430 V PCC Panel, including isolation transformer, power distribution panels with VCBs, and supply cum laying of power supply cables as per the proposed SLD and detailed in the Schedule of Rates (SOR)".

2.01 Scope of work is to supply, pack, forward, load, un-load at site, store, preserve, inspect at vendor's works, install, test & commission the following electrical equipment / systems.

2.02 Transformer Supply , Installation, Testing and Commissioning.

- Design, Supply, Installation, Fixing, Testing and commissioning of **1 No. 4 MVA, 6.6 kV / 3.3 kV, ONAN, Dyn11** outdoor isolation transformer with ON-LOAD TAP

CHANGER (OLTC). The transformer must comply with IS 2026 and be filled with high-quality transformer oil such as "APAR" Power Oil. It shall include all necessary protections (Buchholz, OTI, WTI, PRV, OLTC Buchholz, etc.) and accessories .

- The scope includes the construction of a suitable civil foundation (Pad Mounted) of a minimum height of 560 mm from FGL, complete with a rain shed and fencing barrication.
- Transformer must be 4-star rated, BIS Level-2, and Copper Wound. Make should be from a reputed OEM like Schneider Electric, VOLTAMP, Crompton Greaves.

2.03 6.6 kV HT Panel Supply, Installation, Testing and Commissioning

- Supply, Installation, Fixing, Testing and commissioning of **1 No. indoor 6.6 kV ICOG HT Floor Mounted, Cubicle Type Transformer Feeder Panel (Panel-1)**.
- The panel shall include a **1250 A, 6.6 kV VCB** with a motorized spring-charged mechanism.
- The Panel shall be supplied as per Annexure-A

2.04 3.3 kV HT Panel Supply, Installation, Testing and Commissioning

- Supply, Installation, Fixing, Testing and commissioning of **1 No. indoor 3.3 kV Floor Mounted Cubicle Type HT Switchgear Panel (Panel-2)**.
- The panel will house:
 - **02 No. 2000 A VCB** as Incomer.
 - **01 No. 2000 A VCB** as Bus-Coupler
 - **02 Nos. 3.3 kV, 1250 A VCB** panels for Outgoing Transformer Feeders.
- All VCBs shall be equipped with motorized spring-charged mechanisms and REF615 or equivalent relays.
- The Panel shall be supplied as per Annexure-A

2.05 HV Cable Supply Supply, Installation, Testing and Commissioning

Supply and laying of 6.6 kV and 3.3 kV XLPE insulated, armoured aluminium conductor cables as per the quantities and specifications in the SOR .

- **6.6 kV Cable:** 3 Runs × 1C × 630 sqmm, 6.6 kV (UE) XLPE, Aluminium Armoured Cable. Make: "KEI" / "POLYCAB".
- **3.3 kV Cable:** 2 Runs × 3C × 300 sqmm, 3.3 kV(UE) XLPE insulated Aluminium Armoured Cable. Make: "KEI" / "POLYCAB" .
- The scope includes all associated excavation, laying in cable trenches with sand and brick protection, providing SS pipes for road crossings, termination (with heat shrink kits), glanding, lugging, and applying fireproofing paint .

2.06 Control Cable Supply Supply, Installation, Testing and Commissioning

Supply and laying of XLPE insulated, armoured LT control cables for the power and control circuits. This includes cables of sizes 12C X 1.5 sqmm, 5C X 1.5 sqmm, and 2C X 1.5 sqmm (FRLS) as specified in the SOR .

2.07 Earthing System:

- Supply, installation, and testing of a complete earthing system as per the SOR. This includes providing GI earth stations (40mm dia pipe, 4.5m long), laying of 50mm x 6mm GI earthing strips, and 6 SWG GI wire for the neutral earthing of the transformer and panels .

2.08 Cable Management:

- Supply and installation of perforated Hot-dipped Galvanised Iron (HDGI) cable trays (300 mm width x 50 mm depth x 1.6 mm thickness) and necessary supports .

2.09 Civil and Enabling Works:

- The contractor's scope covers all civil works required for the successful installation of the transformer, panels, and cable routes, including the construction of transformer foundations, cable trenches, and Earth pits excluding the construction of fire wall and new HT Control room. All materials, labour, tools, and tackle are under the contractor's scope .
- The contractor shall be responsible for dismantling any existing structures, brickwork, or PCC flooring that may impede the new installation and reconstructing them to specifications.
- All steel work and metal work, after preparation and priming shall be painted with one coat zinc chromate primer, one coat of phenolic based under coating and two coats of micaceous iron oxide paint to an overall thickness of 200 microns to hard gloss finishing Light Grey Shade No. 697 of relevant IS. Each successive coat of paint shall be of slightly different shade to enable inspection. The finished surface shall present a pleasing appearance free from dents or unevenness surfaces.
- It is the responsibility of the supplier to ensure that the quality of paints used shall withstand the tropical heat and extremes of weather conditions. The paint shall not peel-off, wrinkle, be removed by wind, storm and handling on site and the surface finish shall neither rust nor fade during the service life of the equipment.
- After erection at site, all surfaces of steel works and metal works shall be thoroughly washed down and examined. Any deteriorated or otherwise faulty paint work shall be removed down to bare metal and made good to the full specification described above, then painted one further coat of phenolic based under coating and one coat phenolic based hard gloss finishing paint to provide an overall minimum paint film thickness of 200 microns.
- All paint work shall be left clean and perfect on completion of the site works.
- Any working space required for storing of construction materials, equipment, tools and tackles shall be arranged by Contractor, at his own cost and time. All the materials, tools and tackles required for successful completion and installation of the works shall be in the scope of Contractor.

3.1. INSTRUCTION TO BIDDERS

- 3.2 Bidder to submit duly filled, stamped & signed copy of Integrity Pact along with the offer as per format provided in **Annexure-IV**.

3.3 Earnest Money Deposit (EMD):

Rs. 512074 (Rupees Five Lakh Twelve Thousand Seventy Four) only in Online Mode by Net banking/RTGS/NEFT or in Demand Draft or Bank Guarantee in favour of ASSAM PETRO-CHEMICALS LTD payable at NAMRUP as earnest money along with their offer. **Bank Guarantee Format** is provided in **Annexure-III**. After acceptance of order by Vendor / Bidder (successful bidder), APL shall return the EMD to all unsuccessful bidders. EMD shall bear no interest. EMD of successful Bidder can be adjusted with SECURITY DEPOSIT.

Bank Details: Beneficiary Name- M/s Assam Petrochemicals Ltd

Account Number-777705781005

IFSC Code- ICIC0002455

Bank – Christian Basty, Guwahati

3.4 EMD validity (For BG Only):

EMD shall initially be valid for 06 (Six) months from the due date for bid submission. Bidder shall extend EMD Validity on its expiry as per requirement of APL till the order is not placed on Vendor / Contractor (Successful Bidder); failing to provide Extension in EMD Validity shall lead to rejection of bid.

Exceptions:

Exceptions: The following categories of tenderers are exempted from EMD having the.

- i) Micro and Small Enterprises (MSEs) who are holding valid Udyam Registration and are manufacturer of the offered Product or Service (Primary Product / Service - in case of bunch bid with total value wise evaluation) and give specific confirmation to this effect at the time of bid submission and claim EMD exemption and whose credentials are validated online through Udyam Registration website of Ministry of MSME and also through supporting document uploaded during bidding process and validated by the Buyer. State Government Buyers may, however, choose to exempt only MSEs from the State of Bid Inviting Authority by specifying the same in ATC of the Bid. In case no such ATC is included, eligible MSEs of all states are exempted.
- ii) Having annual turnover of INR 500 Crore or more, at least in one of the past three completed financial year(s).

3.5 Refund of EMD:

After acceptance of Work Order by Agency/ Contractor (successful bidder), APL shall return the EMD to all unsuccessful bidders. EMD shall be returned to the Agency/ Contractor (successful bidder) after its submission of the security deposit of required amount within stipulated time.

3.6 BID Processing Fees– 5121**3.7 Performance Bank Guarantee(PBG):**

The contract performance security shall be **10% of Total Order / Contract Value** (exclusive of GST) towards faithful performance of the contractual obligations and must be valid for **03 months** beyond the defect liability period/warranty period. For the purpose of Contract Performance Security, Contract/order value shall be exclusive of taxes and duties as per ITB of tender document.

The successful BIDDER shall furnish, within 15 days from date of issue of the Work Order, Security Deposit equal to 10% of the total accepted tender value for proper fulfilment of the CONTRACT in form of **Bank guarantee as per Format** covered in **ANNEXURE-II** of this document.

a) On submission of Contract Performance Bank Guarantee (CPBG) by the successful bidder, EMD amount will be refunded after receipt of confirmation of CPBG from the issuing bank. The CPBG will be returned to the successful bidder after completion of work certificate by Officer-in-Charge, if there are no dues to be recovered by APL.

b) The security deposit amount if deducted along with EMD amount shall be refunded after completion of contract period certificate by Officer-in-Charge after deductions if any due to APL. The security deposit shall not bear any interest.

c) The LOA shall be issued to successful bidder for acceptance of the terms and conditions. The Work Order will only be issued after the submission of the Contract Performance Bank guarantee and the formal acceptance of this LOI by the successful bidder. The CPBG and acceptance of LOI shall be addressed to the following:

General Manager-TS & C&P (i/C)

Assam Petro-Chemicals Limited

P.O. Parbatpur, Namrup

Pin – 786623, Assam

3.8 BIDDING DOCUMENTS

The bidder is expected to examine the bidding documents, including all instructions, forms, General Conditions of Contract, Technical Specifications, Drawings and other ENQUIRY documents and to fully familiarize itself with the requirements of the bidding documents. Failure to furnish all the information required by the Bidding Documents or the submission of a bid not substantially responsive to the Bidding Documents in every respect may result in the rejection of the Bid.

3.9 MODIFICATION & WITHDRAWAL OF BIDS

1. The bidder may resubmit his bid more than once but the e-tendering system will consider the latest submitted bid.
2. The e-tendering system will give acknowledgement on valid submission of Bid.
3. At any time prior to the deadline for submission of bids as well as up to priced bid opening, APL may, for any reason whether at its own initiative or in response to a clarification or modification requested by any prospective Bidder(s), modify the Bidding documents.
4. The modifications/amendment will be notified through Addendum / Corrigendum to bidders. Bidders shall confirm the inclusion of Addendum / Corrigendum in their bid and shall follow the instructions issued along with addendum / corrigendum.
5. Bidders shall examine the Bidding documents thoroughly and inform APL of any apparent conflict, discrepancy or error, so that APL may issue appropriate clarification(s) or amendment(s), if required.

3.10 BID VALIDITY

1. Bids shall remain valid for 06 (six) months from the date of Un-priced Bid Opening.
2. Notwithstanding the above, APL may solicit the bidder's consent to an extension of the period of bid validity. The request and the responses thereto shall be made in writing (by fax/ email).

3.11 BID EVALUATION CRITERIA

1. Bid Evaluation Criteria is covered under Section - IV - "Bid Evaluation Criteria & Price Evaluation".

3.12 BID REJECTION CRITERIA

Prior to detailed bid evaluation, APL will determine the substantial responsiveness of each bid with respect to the bidding documents. A substantially responsive bid is one which conforms to the terms, conditions and specification of the Bidding Documents without material deviation. A material deviation is one which affects in any substantial way the scope, quality or

performance of the works, or which limits in any substantial way, inconsistent with the bidding documents, the APLs rights or the bidder's obligations as envisaged in the bidding documents, and the rectification of which deviation or reservation would affect unfairly the competitive position of other bidders presenting substantially responsive bids. Further examination of only such bids as are determined to be substantially responsive shall be taken up, unless otherwise determined by APL.

The bidders shall adhere to the following provisions of the Bidding Document without taking any deviations, failing which the Bid shall be considered to be non-responsive and may be rejected.

- (a) Non Meeting Pre-Qualification criteria
- (b) Non-Submission of EMD, if applicable
- (c) Non-Submission of Integrity Pact, if applicable along with the un-priced offer / on or before the bid due date & time as instructed in this Enquiry
- (d) Non-submission of Pre-filled agreed terms and conditions along with the un-priced offer / on or before bid due date & time.
- (e) Submission of prices with erasures or corrections or using white fluids.
- (f) Submission of Prices / rates in SOQ / SOR in un-priced bid.
- (g) Rejection note as mentioned under various clauses of this ENQUIRY document

3.13 IMPORTANT DOCUMENTS TO BE SUBMITTED WITH THE BID:

- 1. EMD of required amount or MSME Certificate.
- 2. Work orders & completion certificates to comply the Bidder's qualification criteria.
- 3. The Income Tax Return for the last 3 (three) financial years.
- 4. Average Annual Turnover report duly certified by CA for the last 3 (three) financial years.
- 5. Copy of PAN card and GST registration.

3.14 CLARIFICATIONS ON BID

- 1. Clarifications that the Bidder needs to have on the ENQUIRY specification can be sought from APL in writing within one week from the date of issue of this enquiry.
- 2. Bidders requesting clarifications beyond one week from the date of issue of this enquiry will not be entertained. Non-receipt of clarifications from APL for queries raised beyond one week will not be considered for extension of time to submit the bid.

3. All such correspondence shall be routed to the address mentioned in Sl. No. 1.0 (j) of IFB (i.e. Invitation for Bid) highlighting in Subject "Clarifications for Tender No. **APL/C&P/ ELECT/2026-27/648** "
4. Written queries only shall be replied.

3.15 AMENDMENT OF BIDDING DOCUMENTS

1. At any time prior to the deadline for submission of bids as well as up to priced bid opening, APL may, for any reason whether at its own initiative or in response to a clarification or modification requested by any prospective Bidder(s), modify the Bidding documents.
3. The modifications/amendment will be notified through Addendum / Corrigendum in e-tendering portal <https://assamtenders.gov.in/nicgep/app/> & APL's website www.assampetrochemicals.co.in. Bidders shall confirm the inclusion of Addendum / Corrigendum in their bid and shall follow the instructions issued along with addendum / corrigendum.
2. Bidders shall examine the Bidding documents thoroughly and inform APL of any apparent conflict, discrepancy or error, so that APL may issue appropriate clarification(s) or amendment(s), if required.

3.16 SITE LOCATION / SITE VISIT

The bidder may at its own discretion can examine the site of works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into the Contract. Claims of any kind due to variation or ignorance of site conditions and environmental conditions will not be eligible in any circumstances.

3.17 BIDDING DOCUMENTS AND DEVIATIONS

It is expected that bidders will submit bids strictly based on the terms and conditions and specifications contained in the bidding documents and will not stipulate any deviations. Bidders have to submit declaration in their Letter Head for “**No Deviation**” **Confirmation as per Annexure – VII.**

3.18 PRICE BID / Schedule of Rates

1. The item wise Bid prices (if applicable) shall be filled in the "Format for Submitting Prices".
2. Bidders shall quote indicating basic cost (inclusive of all taxes, transportation charges & exclusive of GST) in price bid. GST% shall be quoted separately in Un-priced bid.

3. This part shall not contain any condition whatsoever failing which the Bids shall be liable to be rejected.
4. The prices quoted by the bidder shall remain firm and fixed and shall be valid until completion of the Contract and shall not be subject to variation/escalation on any account except as otherwise specifically provided in the Contract documents.
5. A Counter trade proposals shall not be considered in the evaluation of Bids or otherwise.
6. It shall be the duty of the supplier to duly observe and perform all laws, rules, regulations, royalties, orders and formalities applicable to Goods & Service tax (GST) on the import, manufacture, sale and/or supply of any material to APL and performance of the works under the Contract. The supplier/contractor shall keep APL indemnified from and against any and all claims, demands, prosecutions, actions, royalties, proceedings, penalties, damages, demurrages and/or other levies whatsoever made or levied by any Court, Tribunal or the Customs or other Authorities with respect to any alleged breach, evasion or infraction of such duties, taxes, royalties, charges or levies or any breach or infraction of any applicable laws, rules, regulations, orders or formalities concerning the same and from the consequence thereof.
7. In case of unsolicited price implication, such offer of Bidder shall not be considered for evaluation and ordering

3.19 SIGNATURE

All documents of Un-priced Bid and Price Bid uploaded in e-tendering portal should be stamped and signed.

3.20 APL'S RIGHT TO ACCEPT/REJECT BIDS

1. APL reserves the right to accept or reject any bid 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(s) or any obligation to inform the affected bidder(s) of the ground of APL's action.
2. APL shall not be obliged to award the Order / Contract to the lowest evaluated bidder if AP apprehends that it will not be in the interest of APL to award the Order / Contract at the lowest evaluated price or to the lowest evaluated bidder.

3.21. INCOME TAX AND GST

1. Income tax at the prevailing rate shall be deducted from the BIDDER's bills as per Income Tax Act. OWNER shall issue necessary TDS Certificate to the BIDDER.
2. **The quoted price shall be deemed to be inclusive of all taxes and duties except "Goods and Service Tax" (hereinafter called GST) (i.e. IGST or CGST and**

- SGST / UTGST applicable in case of interstate supply or intra state supply respectively.)
3. Bidder /vendor shall be required to issue tax invoices in accordance with GST Rules so that input credit can be availed by OWNER / APL. In the event that the bidder / vendor fails to provide the invoice in the form and manner prescribed under the GST Act read with GST Invoicing Rules there under, OWNER / APL shall not be liable to make any payment against such invoice.
 4. GST shall be paid against receipt of tax invoice and proof of payment of GST to government in India or upon the same being reflected in the GST portal of the APL to the satisfaction of APL. In case of non- receipt of tax invoice or non-payment of GST by the bidder / vendor, OWNER / APL shall withhold the payment of GST.
 5. GST payable under reverse charge , if any shall not be paid to the bidder /vendor but will be directly deposited to the government of India.
 6. Notwithstanding anything contained anywhere in the Agreement, in the event that the input tax credit of the GST charged by the Bidder/ Vendor is denied by the tax authorities to OWNER / APL due to reasons attributable to Bidder/Vendor, OWNER / APL shall be entitled to recover such amount from the Bidder/Vendor by way of adjustment from the next invoice or from Bank Guarantee . In addition to the amount of GST, OWNER / APL shall also be entitled to recover interest at the rate of 24% and penalty. In case any penalty is imposed by the tax authorities on OWNER / APL.
 7. TDS under GST, if applicable, shall be made from bidder's /Vendor's bill at applicable rate and a certificate as per rules for tax so deducted shall be provided to the bidder /Vendor.
 8. No variation on account of taxes and duties, statutory or otherwise, shall be payable by Client to bidder/vendor except for GST. However, any statutory variation for GST shall be payable up to contractual date of completion against documentary evidence. Any reduction in taxes and duties included in the price shall be passed on to OWNER / APL.
 9. Any new taxes, duties, cess, levies notified or imposed after the submission of last/ final price bid but before the contractual date of completion of work shall be to OWNER / APL's Account. However, in case of delay in completion period beyond the contractual date, for reasons attributable to bidder, any increase in these rates shall be borne by the bidder, whereas any decrease shall be passed on to the owner. OWNER shall take CENVAT benefit as applicable.
 10. Any other provisions in the GST not mentioned above will be sou-motto applicable.

3.22 SUBMISSION OF BIDS

1. Bidder(s) will be required to submit the bids online in e-tendering portal <https://assamtenders.gov.in/nicgep/app>. The original copies of the Un-price bids is required to be submitted within 07(Seven) days from the Bid due date and time to the address given in Sl. No. 1.0 (f) of IFB.

2. Cover containing documents as per clause no. 3.36 and “Checklist for online Submission of Bid”:

a) Cover No. 1 : **“Fee/PreQual/Technical”**

1. File 1 - EMD + Integrity Pact (**Annexure – IV**)
2. File 2 – **“TECHNO-COMMERCIAL/UN-PRICED BID”** shall contain the following:
 - a. 'Covering Letter on Bidder's Letter head clearly specifying the enclosed contents with EMD details.
 - b. 'Bidder's General Information' as per '**Annexure - V**'.
 - c. As a confirmation that the prices are quoted in requisite format complying with the requirements copy of Schedule of Rate (SOR: Part – I) with prices blanked out mentioning **quoted / not quoted** (as applicable) written against each item.
 - d. 'No Deviation Confirmation as per' **Annexure - VII**
 - e. 'Agreed Terms and Conditions as per' **Annexure -VI** '
 - f. 'Letter of Authority 'on the Letter Head as per '**Annexure - X**'
 - g. Dully attested document signed in accordance with the "BID EVALUATION CRITERIA [BEC]" establishing the qualification.
 - h. Power of Attorney for authorized signatory in non-judicial stamp paper / copy of Board Resolution, the authorized signatory shall be signing the bid and any consequence resulting due to such signing shall be binding on the bidder.
 - i. Any other information / details required as per Bidding Document
 - j. All forms and Formats including Annexures.
 - k. Tender Document duly signed / digitally signed by the Authorized Signatory.
 - l. Copy of Power of Attorney.

b) Cover No.2: **“Price Bid”**

1. Price Bid containing Schedule of Rates & Quantities with duly filled prices in Original to be uploaded online in Microsoft Excel File as per format provided.
 2. The bidders shall ensure submission of prices without any errors.
 3. Pricing information shall NOT be included in the “Fee/Pre-Qual/Technical” part of the Tender. Bidders shall ensure that no pricing information of any type is shown in their “Fee/Pre-Qual/Technical”. The inclusion of pricing information in any place other than the price Bid will result in rejection of the Tender.
3. Bidder shall indicate Taxes and duties in Annexure- **VI** “Agreed Terms & Conditions”.
 4. Bidder shall strictly follow above mentioned bid submission procedure, failing to which may lead to rejection of bids.

3.39 OTHER DOCUMENTS & REQUIREMENTS

The Bid, as submitted will consist of the following:

- Complete Set of TENDER documents duly filled in, signed and stamped by the bidder as prescribed in different clauses of TENDER documents.
- Power of Attorney or a true copy thereof duly attested by Gazetted Officer in case a representative that has signed the TENDER is a person not competent / authorized and bind the bidder.

1. **INSOLVENCY OR IN ABILITY TO PERFORM THE CONTRACT SATISFACTORILY:**

If the contractor's performance of any portion of it or his subsequent rate of progress is unsatisfactory, the Company shall have the power to declare the contract to an end. In case, the contractor shall be liable for any expenses or damage, which the Company may incur in connection with contractor's default will be recovered from the Contractor and security deposit shall stand forfeited.

2. **FORCE MAJEURE:**

- i. Neither the contractor nor the company shall be considered in default of its obligation hereunder, if such performance is prevented or delayed of war, hostilities, revolution, flood, earthquake. Civil commotion or because of any law and order proclamation or ordinance of the Govt. Or of any other cause beyond the reasonable control of the party effected.
- ii. Should one or both parties be prevented for fulfilling contractual obligation by a state or force lasting continuously for a period of six months the two parties shall consult together regarding the future execution of the agreement.

3. **ASSIGNMENT OF SUB-LETTING OF CONTRACT:**

The contractor shall not assign or sub-let the contract or any part thereof or allow any person interested therein, in any manner, whatsoever. Any breach of this condition shall entitle to take such steps as may be necessary and also terminate the contract. However the contractor can assign / depute his authorized representative to look after the job including billing, receipt and payment to his worker already engaged for the job.

4. **APPLICABILITY OF LAW AND JURISDICTION:** The contract shall be governed and interpreted in accordance with applicable laws of India as well as the state of Assam. Any suit or proceedings to enforce the rights of either of the parties hereto under this contract will be instituted in and tried by the courts of Dibrugarh only in the state of Assam and by no other courts and both the parties hereto hereby expressly agree to submit to the jurisdiction of such courts.

5. **LIQUIDATED DAMAGES (LD)**

In case the job is delayed beyond the stipulated completion period (mentioned in Work order) due to negligence, poor workmanship, deployment of unskilled manpower or any other reason whatsoever on contractor's part, a penalty at the rate of 1% of work order value per week, limited to maximum of 10%, shall be recovered from the contractors bill.

6. **AGREEMENT**

On acceptance of the tender, the contractor has to execute an agreement on Non Judicial stamp paper of Rs. 100.00 (Hundred) only at his own cost within 10 (Ten) days from the date of receipt of the order.

7. **TERMINATION OF CONTRACT:**

If Contractor shall neglect to execute work with due diligence or expedition, or shall refuse or neglect to comply any reasonable order given to it in writing / or oral by Management of APL in connection of work, or shall contravene any of the provisions of the contract, Company / Management may give notice in writing to contractor calling upon it to make good the failure, neglect or contravention complained of, within a period of 30 (Thirty) days. If contractor defaults to comply with any such notice, the Management may without prejudice terminate the contract.

12. The owner reserves the right not to execute the work at all or to split the work between two or more bidder, if necessary. Such a step shall not constitute a breach of the contract. APL reserves the sole right to terminate the contract at any point of time and deploy other party / parties to complete the job. In such case payment would be given to the newly deployed party / parties. APL reserves the right to accept or reject any of the proposals received at its sole discretion without assigning any reasons whatsoever. Incomplete bids and bids submitted after due date will be rejected.

13. APL shall not provide any site facility like transportation, accommodation for workers, tools and tackles, electricity, water etc if required for execution of the work the same will have to be arranged by the bidder.

14. APL reserves the right not to execute the work at all or to split the work between two or more bidder, if necessary. Such a step shall not constitute a breach of the contract. APL reserves the right to accept or reject any of the proposals received at its sole discretion without assigning any reasons whatsoever. Incomplete bids submitted after due date will be rejected.

15. Guarantee certificate for all the items supplied and workmanship must be supplied to APL against the replaced spare parts.

16. **LIMITATION OF LIABILITY:** Notwithstanding anything contrary contained herein, the aggregate total liability of Service Provider to Employer under the Contract shall not exceed the Total Contract Value, except that this clause shall not limit the liability of the Service provider for following:

(a) In the event of breach of any Applicable Law;

(b) In the event of fraud, wilful misconduct or illegal or unlawful acts, or gross Negligence of the Service Provider or any person acting on behalf of the Service Provider; or

(c) In the event of acts or omissions of the Service Provider which are contrary to the most elementary rules of diligence which a conscientious Service Provider would have followed in similar circumstances; or

(d) In the event of any claim or loss or damage arising out of infringement of Intellectual Property; or

(e) For any damage to any third party, including death or injury of any third party caused by the Service Provider or any person or firm acting on behalf of the Service Provider in executing the Works/Services. However, neither party shall be liable to the other Party for any neither indirect nor consequential loss or damage like loss of use, loss of profit, loss of production or business interruption which is connected with any claim arising under the Contract.

17. **REQUIREMENTS OF E-TENDERING**

1. The subject tender is an e-tender and owner has hoisted the complete tender documents on website [https:// https://assamtenders.gov.in/nicgep/app](https://assamtenders.gov.in/nicgep/app) and has ensured its availability for downloading the full set comprising of the above. The bidder is expected to download the complete tender documents **including all addendum/corrigendum** only from the above mentioned website i.e. <https://assamtenders.gov.in/nicgep/app>, as per the index of the tender, fully read and understood the same and submit their acceptance to all tender terms and conditions except deviations, if any. Bidder may note that Schedule of rates attached with the tender documents is to be filled in the BOQ (Financial Price Bid Part – II).
2. The tenderer is expected to examine the tendering documents, including all instructions, specifications/drawings (if any) including all addendum/corrigendum in the tendering document. Failure to furnish all the information required by the tendering documents or submission of tender not substantially responsive to the tendering document in every respect shall result in the rejection of the tender.
3. The bidding documents are and shall remain the exclusive property of APL without any right of the Bidder to use them for any purpose except bidding and for use by successful Bidder with reference to the work.
4. Any person/ bidder downloading the tender document from Owner's web site or purchasing shall do so in strict confidence and shall not part with possession thereof or copy or disclose the provision thereof or any of them or disclose or take copies or tracings of any drawings, plans or routes forming part thereof, it being understood that the information therein are confidential and that the tender documents have been downloaded by the eligible bidder solely for the purpose of bidding.
5. Bidders are requested to read the document (Special Instruction to Bidders for Participating in e-tender) SITB available on the moving scroll of the website

<https://assamtenders.gov.in/nicgep/app> and a copy of the same is also provided along with tender document. Moreover bidders are requested to follow the instructions under “Bid Submission process” under “**Bidders manual Kit**” section available in the homepage at the website.

6. The bidder shall submit their offer through e-tendering site as mentioned above, following the steps in the e-tendering portal. Physical hard copies of Techno commercial bids (Part 1) along with the EMD may be send to the under noted address on or before the Bid closing date & time.
7. The Owner shall not be responsible for delayed submission of offers or non-submission of offers due to any reason whatsoever. The responsibility of ensuring online & on-time submission of their offers lies entirely with the bidders. The bidders are requested to submit the bid online much before date and time of submission, failing which APL shall not be responsible for any such technical problem.
8. In order to bid for APL e-tenders, all the agencies are required to REGISTER in Assam Tender Portal & obtain a legally valid Class-II & above Digital Signature Certificate (DSC) for their user who is authorized to submit bids on-line from the licensed Certifying Authority (CA). Bidders already possessing the digital signature issued from authorized CAs can use the same in this tender. Further, the bidder should ensure that the email address given in the Registration Form is valid & active as all the communications will be made through this e-mail. For any problem on e-tendering process kindly contact as per details given in Special Instructions to Bidders (SITB) for e-tendering.
9. On no account will any person to whom bidding documents are furnished, part with possession thereof or copy or disclose the provisions thereof or any of them or disclose or take copies of tracings or of any drawing, plan or route forming part thereof, it being understood that the information therein is confidential, and that the bidding documents are therefore being furnished only to bidders in strictest confidence.
10. The details as called for in the bidding documents shall be filled and completed by the Bidders in all respect and shall be submitted with requisite information and Appendixes/ Annexure.
11. If the space in any Performa of bidding document is insufficient, additional pages shall be separately added. These shall be page numbered and shall also carry the bidding document number and shall be signed by the Bidder and entered in the Index for Bid.
12. Bidder shall clearly indicate their legal constitution and the person signing the bid shall state his capacity as also the source of his ability to bind the Bidder. The Power of Attorney or Authorization or other document constituting adequate proof of the ability of the signatory to bind the Bidder, shall be annexed to the bid. APL may reject outright any bid unsupported by adequate proof of the signatory’s authority.
13. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the process & steps. **Users may also note that the incomplete bids will not be saved by the system and are not available for processing and evaluation.**
14. Agencies are advised to digitally sign the documents that are uploaded and encrypt the file data before submitting to the e-tendering portal of Assam Government e-procurement portal by following the given procedure on-line mentioned in the e-portal site. The bid shall be digitally signed by someone legally authorized to enter into

commitment on behalf of the Bidder. Bidder shall upload among other documents, Power of Attorney in favour of the person who is authorized to enter into commitments on behalf of the Bidder.

15. APL will not be bound by any Power of Attorney granted by the Bidder or changes in the constitution of the firm made subsequent to submission of the bid or after the award of the contract. APL may, however, recognize such Power of Attorney and changes after obtaining proper legal advice, the cost of which will be borne by the Bidder.
16. The cancellation of any document such as Power of Attorney, Partnership Deed, etc. should be communicated by the Bidder to APL in writing well in time, failing which APL shall have no responsibility or liability for any action taken by APL on the strength of the said documents.
17. Should the Bidder have a relative or relatives in APL or one or more of its shareholders are employed in a superior capacity in APL, the relevant authority inviting bids shall be informed of the facts at the time of submission of the bid, failing which the bid may be disqualified or if such fact subsequently comes to light, APL reserves the right to take any other action as it deems fit in accordance with any applicable law, Rules, Regulations of the like in force.
18. Bidders/Agencies shall ensure submission of complete information/documentations in the first instance itself. APL reserves the right to complete the evaluation based on the details furnished by the agencies without seeking any subsequent additional information. Bids not in compliance with Bidding Document or with incomplete information documents are liable for rejection.
19. Canvassing in any form by the Bidder or by any other agency on their behalf may lead to disqualification of their Bid.
20. Unsolicited clarifications to the offer and / or change in the prices during the validity period would render the bid liable for rejection.

1. **BIDDERS ELIGIBILITY CRITERIA**

A. **TECHNICAL CRITERIA**

1) Bidder / OEM must have work experience of successfully completing (Work order and completion certificate must include) (supplied, erected, tested and commissioned) in PSUs / Central Government / State Government Organization / Public Limited Company/Nationalised Banks in India ,.

2) Experience of having successfully completed “**similar works**” during last 7 years reckoned from the original bid closing date and should be either of the following:-

One similar job having executed value of not less than **Rs.20482942/-**

Or

Two similar jobs, each having executed value not less than **Rs.12801839/-**

Or

Three similar jobs, each having executed value not less than **Rs. 10241471/-**

3). Bidder shall not be an employee in Government/Quasi Government/Public Sector Undertaking and/or dependant of an employee of Assam Petro-chemicals Limited in service.

4). The Contractors/ Agencies should be in possession of necessary manpower, tools, plants, equipment's & machineries required for carrying out the Job. APL would not provide any materials for the execution of the Job.

5). The bidder must be Authorized Business partner/Authorized dealer of OEM. If the bidder is Authorized Business partner/Authorized dealer of OEM, such bidders shall submit a Manufacturers Authorization Form issued by the OEM authorising them to participate in the Tender. Any bid not meeting this requirement shall be liable for rejection.

6).It is understood that Bidder have entered into Contract Agreement with any OEM after proper market research. Bidder will have to submit proper documentation (MAF)

(**Manufacturer’s Authorization Form**) with only one OEM for the purpose of bidding and after award Bidder will install the AIS Panels & Transformer from that same OEM. One OEM can extend support to multiple bidders, providing MAF as intended above.

7). Further, the completed “**similar work**” shall be running successfully/satisfactorily for duration of two (2) years from the date of commissioning at the Customer(s)/End user Premises. A proof in this regard shall be submitted in the official letter head of the customer/end user (signed & sealed by the customer/end user representative only) quoting the submitted contract number/purchase order number along with commissioning date of the “**similar work**” completed.

8). ‘**Similar Work meaning**”

a) Supply, Installation, Fixing, Testing, and commissioning of Transformers (Oil Filled) with voltage levels of 6.6kV or 3.3kV and capacity equal to or greater than **4 MVA**. Experience with transformers of similar rating (e.g., 1000 KVA or higher as mentioned in the technical bid) is also relevant. .

b) Supply, Installation, Fixing, Testing, and commissioning of 6.6kV and 3.3kV Indoor HT Switchgear Panels with VCBs and numerical relays.

c) Supply and Laying, Termination, Clamping, Testing, and Commissioning of XLPE Insulated, Armoured HV Cables of size not less than **630 sqmm** (6.6kV) and **300 sqmm** (3.3kV).

9. BIDDERS WHO CAN BID

9.1 Bidders shall comply with the eligibility and affiliation clauses as defined in the main tender document. Only one affiliate may submit a bid, and parties are liable for disqualification if more than one affiliate submits a bid.

9.2 The Bidder shall possess a valid electrical contractor's license of the appropriate class from the statutory authorities governing the work area, along with a valid Electrical Supervisor License in Form-B.

FINANCIAL CRITERIA

1. To be eligible, the contractor should have a sound financial background and average annual turnover for the last three financial years, ending 31st March viz. 2024-2025, 2023-2024 and 2022-2023 should not be less than **Rs.7681103/-**
2. The Income Tax Return of the last 3 (three) financial years must be submitted along with the Bid documents.
3. The bidder shall have earned a net positive profit for the last three consecutive years.
4. The bidder must be registered with income tax department. Self-attested copy of original PAN card stating the number issued by Income tax Department of India is required to be submitted.
5. The bidder must be registered for Goods and Service Tax (GST). Self-attested copy of the GST registration certificate with code number issued by Government of India is required to be submitted.

2. BID EVALUATION METHODOLOGY

- a) APL will evaluate and compare the Price bids of the techno-commercially qualified bidders whose bids are previously determined to be substantially responsive
- b) For the purpose of evaluation of bid, and arriving at the L1 bidder, the total value of SOR (Schedule of Rates) shall be considered .L1 bidder will be the one who has quoted the lowest amount.
- c) In case of a tie at the lowest bid (L1) position between two or more bidders, then LOA / Order shall be placed on the bidder who has higher / highest average turnover in last 3 audited financial years.

SPECIAL CONDITION OF CONTRACT

1. GENERAL

- 1.1 The Special Condition of Contract shall be read in conjunction with the General Conditions of Contract, Schedule of rates, specifications, drawings and any other documents forming part of contract, wherever the context so requires. Notwithstanding the sub-division of the documents into these separate sections and volumes, every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.
- 1.2 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to override the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.
- 1.3 Wherever it is mentioned in the specifications that the BIDDER shall perform certain WORK or provide certain facilities, it is understood that the BIDDER shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.
- 1.4 The materials, design, and workmanship shall satisfy the relevant INDIAN STANDARDS, the JOB SPECIFICATIONS contained herein and CODES referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.
- 1.5 The proposed work (as detailed in scope of work) is to be executed at APL Namrup Distt.-Dibrugarh, Assam-786623, situated about 70 KM from Dibrugarh.
- 1.6 It is understood that before quoting the rates, the bidder has visited the work site and has acquainted himself fully and with the nature and quantum of the job to be carried out by him. Ignorance of this will not be considered after award of work. The bidder will be responsible to complete the entire job in all respects and any of the work necessary to complete the job though specifically not covered in the scope of work.
- 1.7 The contract shall be executed by the party to whom the contract has been awarded and no sub-contractor is allowed to execute the activities.

- 1.8 The bidder shall be responsible to complete the entire work in all respects including the work though specifically not covered/mentioned in the scope of work, but is necessary to complete the job, as above.
- 1.9 If job from the selected L1 bidder is found to be unsatisfied, APL has the right to discontinue the service/ contract with the party.
- 1.10 Failure to furnish all the information required by the bidding documents or the submission of a bid not substantially responsive to the bidding document in every respect may result in the rejection of the bid.
- 1.11 No advance shall be paid for this work.
- 1.12 All site test reports in a specified format maintained by the VENDOR, duly approved by CONSULTANT/OWNER shall be handed over to the APL after completion of job.
- 1.13 All supply and installation items shall have an warranty period of 01(one) year from the date of commissioning.
- 1.14 All hardware i.e. screws, bolts, fastener, for all equipment's shall be of G. I. Cadmium plated.
- 1.15 Bidder shall arrange through Engineer-in-charge for the coordination of his works with those of other trades and shall arrange his works to avoid interference with or interruption to the general construction program.
- 1.16 The BIDDER will be required to carry out the erection side-by-side with other erection being executed by the other BIDDERS. The BIDDER shall extend all co – operation as may be required to other BIDDER in carrying out their work.
- 1.17 BIDDER shall work round the clock if site requirement calls for without any additional cost without compromising quality and safety. In this case BIDDER shall meet all the requirement of statutory bodies, local legal bodies and safety rules of OWNER.
- 1.18 During the progress of work, Engineer-in-charge will have the power to order verbally or in writing from time to time, the dismantling / removal and proper re – execution of any work in respect of workmanship, if the same in his opinion is not in accordance with the specifications, standard engineering practice or the existing rules and regulations as given in the contract. The electrical BIDDER shall carry out such orders at own cost.
- 1.19 Bidder shall keep the site of work in a clean and sanitary condition. All scrap material generated while working shall be collected from site and shall be deposited to OWNER Scrapyard /dustbins from time to time. All the packing material used for various electrical equipments like, cable drums, thermocols, carbouys, wooden pallets etc shall be deposited at OWNER Scrapyard. Acid Carbouys shall be washed before deposition to the store.
- 1.20 Bidder shall be responsible for regular cleaning and maintenance of all electrical equipments till the commissioned equipment is finally accepted by OWNER.
- 1.21 In case the cleaning is not to the OWNER satisfaction, he will have the right to carry out the cleaning operations and any expenditure incurred by the OWNER in this regard will be to the BIDDER's account.
- 1.22 All site test reports in a specified format maintained by the BIDDER, duly approved by the site Electrical in charge shall be handed over to the OWNER after completion of job.

- 1.23 After the completion of entire work, the BIDDER should arrange to remove all the temporary structures, surplus materials, dirt, debris, etc. from the site and finished work shall be handed over to the Owner in a clean and complete state.
- 1.24 The Contractor's scope of work shall cover furnishing all materials, handling of material, equipment, plant, labour, transport, approach roads, tools and all other services necessary for the complete execution of works, including all surveying and setting out necessary for the works including transfer of levels from existing available bench mark and clean up of working areas after completion of the works. All statutory labour laws must be complied
- 1.25 The works are to be carried out at the location as directed by the Engineer-in-charge. Any activity not specifically mentioned in the tender but necessary in the opinion of engineer in charge of work must be carried out for successful completion of the job .
- 1.26 The bidders shall note that no deviations from the technical specifications or commercial conditions with this bid are acceptable & it will be presumed that the bidder agrees entirely with the specifications & general terms & conditions of the contract
- 1.27 Contractor may store all construction materials, equipment, tools and tackles at site at his own risk and cost. All the materials, tools and tackles required for successful completion and installation of the works shall be in the scope of Contractor.
- 1.28 All panel Drawings & Transformer must validated by Engineer-in Charge.
- 1.29 Insulation mats must be provided in front of the panel.
- 1.30 Danger sign as relevant standard must be provided for all Panels and transformers.
- 1.31 Earth-pits must with be Numbered with Earth pit value and date
- 1.32 The Contractor is required to strictly follow all the rules and regulations of Government of India and State of Assam and all local rules and bye-laws, etc.
- 1.33 Bidder shall provide necessary barricading while carrying out the construction works if required.
- 1.34 The labour colony shall be provided by the Contractor outside the plot premises at his own cost.
- 1.35 All works shall be carried out in accordance with the technical specifications of this document and as directed by Engineer in charge
- 1.36 Construction power and Construction water shall be arranged by the contractor at his own cost. If Contractor has to set up a DG (Diesel Generator); it has to be as per the Local Statutory Norms.
- 1.37 Price shall be submitted for all items and the quoted price shall be firm. The price shall include all materials, handling of material, plants, machineries and equipment, labour, tools, & services, royalty, transport, supervision, but exclusive of GST.
- 1.38 There is no free issue material to the contractor.
- 1.39 Contractor shall ensure local participation to the extent possible for execution of works.
- 1.40 Owner reserves the right to split the contract; however the rates/ prices shall remain valid.
- 1.41 Handing over the site to the complete satisfaction of the Engineer in charge/Owner.
- 1.42 The bidders shall note that no deviations from the technical specifications or commercial conditions with this bid are acceptable & it will be presumed that the bidder agrees entirely with the specifications & general terms & conditions of the contract.

- 1.43 During the execution of the work if it is found that the work is not progressing as per the Scheduled Progress Program, approved by the Corporation & planned by the Contractor, due to the reasons attributable to the Contractor; suitable action shall be taken as per relevant clauses mentioned in General Conditions of Contract.
- 1.44 The notice inviting tender, general instructions to the contractors & all documents of this tender shall form part of the contract.
- 1.45 The Contractor shall take all requisite & necessary care to observe that no damage is occurred to the Existing structures, if any. For any damage to the Existing Structures of APL, the Contractor shall be held responsible.
- 1.46 All hardware i.e. screws, bolts, fastener, for all equipments shall be of G. I. Cadmium plated.
- 1.47 Bidder shall arrange through Engineer-in-charge for the coordination of his works with those of other trades and shall arrange his works to avoid interference with or interruption to the general construction program.
- 1.48 BIDDER shall work round the clock if site requirement calls for without any additional cost without compromising quality and safety. In this case BIDDER shall meet all the requirement of statutory bodies, local legal bodies and safety rules of OWNER.
- 1.49 During the progress of work, Engineer-in-charge will have the power to order verbally or in writing from time to time, the dismantling / removal and proper re – execution of any work in respect of workmanship, if the same in his opinion is not in accordance with the specifications, standard engineering practice or the existing rules and regulations as given in the contract. The electrical BIDDER shall carry out such orders at own cost.
- 1.50 Bidder shall keep the site of work in a clean and sanitary condition. All scrap material generated while working shall be collected from site and shall be deposited to OWNER Scrapyard /dustbins from time to time. All the packing material used for various electrical equipments like, cable drums, thermocols, carbouys, wooden pallets etc shall be deposited at OWNER Scrapyard. Acid Carbouys shall be washed before deposition to the store.
- 1.51 Bidder shall be responsible for regular cleaning and maintenance of all electrical equipments till the commissioned equipment is finally accepted by CONSULTANT/OWNER.
- 1.52 In case the cleaning is not to the CONSULTANT/OWNER satisfaction, he will have the right to carry out the cleaning operations and any expenditure incurred by the CONSULTANT/OWNER in this regard will be to the BIDDER's account.
- 1.53 All site test reports in a specified format maintained by the BIDDER, duly approved by the site Electrical incharge shall be handed over to the CONSULTANT/OWNER after completion of job.
- 1.54 After the completion of entire work, the BIDDER should arrange to remove all the temporary structures, surplus materials, dirt, debris, etc. from the site and finished work shall be handed over to the Owner in a clean and complete state.
- 1.55 The BIDDER is required to submit the list of sub-vendors for the equipment he is supplying. This list will be subject to the approval of CONSULTANT/OWNER.

- 1.56 Within 10 days of receipt of Letter of Intent (LOI) the Contractor shall submit a detailed methodology for carrying out all works as per the scope of the tender, details of main equipments, procurement specifications for all materials to be procured which shall be approved by the Engineer in charge before placement of order. These submittals shall be consistent with the general information submitted by the Contractor with his Tender and with modifications, if any, subsequently agreed to by the Engineer-in-Charge and the Contractor.
- 1.57 The Contractor shall take into account the peak demand on materials according to the approved construction schedule.
- 1.58 Contractor shall ensure that latest versions of all relevant IS codes in hard copies are available at Site office for ready reference.
- 1.59 Contractor shall ensure that all necessary construction tolerances shall be adhered during construction as specified in the drawing/Technical specifications or as per relevant IS standards and/or as directed by the Engineer in charge.
- 1.60 Contractor shall submit necessary material consumption calculations to achieve the desired quality as per relevant IS codes which shall be approved by engineer in charge before commencement of work. 1.6. Contractor to ensure that all concrete properties are achieved as specified in IS code. And also acceptance criteria of concrete shall be based on IS 456 and other relevant IS codes.
- 1.61 All masonry works shall be carried out with cement mortar mix prepared using Design Mix using mechanical mixers.
- 1.62 Bidders shall be deemed to be fully conversant with the Specifications including technical specifications, drawings, general conditions, instructions to bidders, etc and all terms and conditions of the Invitation to Bid. The Bid shall be prepared and submitted strictly in accordance with the requirements of this bid document. No deviations with Specifications, general conditions, etc, are allowed.
- 1.63 **BIDDER'S PROPOSAL**
- A. The bidder's proposal must be comprehensive and include detailed technical data sheets for all offered equipment (Transformer, 6.6kV & 3.3kV Panels, VCBs, Protection Relays, Cables, etc.), clearly demonstrating compliance with the technical specifications.
- B. Bidders must indicate all deviations, if any, in a separate 'Schedule of Deviations'. In the absence of such a schedule, it will be presumed that the offer is in full compliance with the tender specifications. For example, confirmation of compliance with specifications from documents such as Annexure-2 (Technical_Specification_for_6.6___3.3KV_AIS.docx for switchgear and Annexure-1 Specification_4_MVA_6.6-3.3_kV_-_Mineral_Oil_Assam_Petrotech.docx for the transformer must be provided.
- C. Bidders are advised to quote for the complete scope of work. Partial responses or quotes for only a portion of the scope will not be entertained.
- D. It is the bidder's responsibility to visit the site to understand the existing conditions, logistics, and assess the amount of work. Ignorance of the site shall not be accepted as a basis for any claim for compensation.

- E. The bidder is required to furnish a Project Execution Plan (PEP) including a detailed work schedule (Bar Chart/PERT) showing the sequence of activities, from order placement to commissioning.

1.64 CONTRACTOR SHALL COMPLY WITH THE FOLLOWING TECHNICAL REQUIREMENTS

- A. The BIDDER shall possess valid electrical BIDDER's license of appropriate Class from the concerned statutory authorities governing the area of work place. **Electrical Supervisor License in Form – B with name of the supervisor endorsed in the Electrical License by the Competent Authority. The validity for both the document must be up dated** The BIDDER shall comply with the relevant statutory rules and regulations. In addition to this all the supervisors / electricians employed to carry out the erection at site shall hold the statutory certificates of competency for the nature of work entrusted and shall fully meet the requirements of the local electrical inspectorate prior to commencement of the work.
- B. The bidders shall note that no deviations from the technical specifications or commercial conditions with this bid are acceptable & it will be presumed that the bidder agrees entirely with the specifications & general terms & conditions of the contract.
- C. Unless otherwise specified in the schedule of quantities, the rate of all items of work shall be considered as inclusive of pumping out or bailing out of water from all depth if required for which no extra payment shall be made. This will include encountered from any source, such as rain, flood, high sub-soil water table, seepage whatsoever etc.
- D. All panels and transformers must be validated and approved by the Engineer-in-Charge before order placement.
- E. Insulation mats must be provided in front of all panels
- F. Danger signs as per relevant standards must be provided for all Panels and transformers.
- G. Earth-pits must be numbered with the earth pit value and date of testing.
- H. Engage Electrical Inspectorate (CEI, Assam) for early-stage consultation and getting statutory approvals in parallel with procurement is in the scope of Bidder.
- I. The contractor shall ensure that all necessary construction tolerances are adhered to during construction as specified in the drawings/Technical specifications or as per relevant IS standards.
- J. All hardware such as screws, bolts, and fasteners shall be of G.I. or cadmium-plated.
- K. All site test reports in a specified format, duly approved by the Engineer-in-charge, shall be handed over to APL after completion of the job.
- L. The Contractor shall strictly follow all safety rules, regulations, and HSE guidelines laid down by the government authorities and the Owner.

1.65 PROJECT EXECUTION PLAN (PEP) AND SCHEDULE

The applicant is required to furnish Project Execution Plan (PEP). A brief but clear PEP is required describing planning and programming of the works.

- A. Project Strategy: Outline statement of the organization and methods to be employed by the applicant to undertake the work.

- B. Organization chart : Preliminary organization chart indicating relationship between the head / branch office, different departments/companies which are assigned specific areas of responsibility, the site management, the on site direct works operations, suppliers and the supervising PMC/Consulting Engineer.
- C. Responsibilities of Key Personnel: Identify all key personnel with management responsibilities by activity or section of work.
- D. Management System: Outline the management techniques used to identify, evaluate and control the technical elements and schedule of the work.
- E. Quality Management System: Provide a description of the Quality Assurance/Quality Control System; Organization and Procedures in use and identify the accreditation authority.
- F. Project Safety Plan: Provide a statement outlining the Health and Safety plan operated by the company. g. Contractor shall indicate any permanently established groups within the organization which would provide specific functions in the execution of the contract.
- G. Program/Bar chart showing major activities.

1.66 Specification of 4 MVA 6.6KV/3.3KV Transformer :

- 01. Rating of Trafo. : 4MVA
- 02. No Load Voltage Ratio : 6.6/3.3 KV
- 03. Quantity : 1 No.
- 04. Cooling : ONAN
- 05. Vector Group : : Dyn11 (6.6kV – Delta / 3.3KV – Star)
- 06. Winding : Copper
- 07. Tapping Range : +5 % to -15 % in steps of 1.25 %
- 08. Class of Insulation : A
- 09. Tap – Changer : ON Load Tap Changer + AVR + RTCC
- 10. Steps : 16 Steps /17 Positions
- 11. Temp. Rise (Oil/Wdg.) : 50/55 degree C
- 12. No Load Loss at rated voltage & frequency : 4.5 KW (IS Tol.)
- 13. Full Load Loss at Principal Tap at 75° C : 40 KW (IS Tol.)
- 14. Impedance at 75 ° C : 6.25% (IS Tol.)
- 15. Insulation Level : HV (KVp/KVrms) : 60/20 LV (KVp/KVrms) : 40/10
- 16. Termination H.V side /L.V side /Orientation : 6.6KV – Cable Box / 3.3KV- Cable Box
- 17. Painting : RAL 7032
- 18. Fittings & Accessories As per SL. NO 12

Make: Schneider Electric,VOLTAMP, Crompton Greaves.

The TRANSFORMER shall be manufactured at OEM's factory ONLY

Electrical System - Transformer

1. Installation Location

This specification covers design, manufacturing, testing and delivery of the oil immersed, outdoor type, (3) three phase, 50 Hz Transformers with ON LOAD Tap Changer (OLTC)

The equipment offered shall be complete with all parts necessary for their effective and trouble-free operation. Such parts will be deemed to be within the scope of the supply irrespective of whether they are specifically indicated in the commercial order or not.

It is not the intent to specify herein complete details of design and construction. The equipment offered shall conform to the relevant standards and be of high quality, sturdy, robust and of good design and workmanship complete in all respects and capable to perform continuous and satisfactory operations in the actual service conditions at site and shall have sufficiently long life in service as per statutory requirements. The design and constructional aspects, including materials and dimensions, will be subject to good engineering practice in conformity with the required quality of the product, and to such tolerances, allowances and requirements for clearances etc. as are necessary by virtue of various stipulations in that respect in the relevant Indian Standards, IEC standards, I.E. Rules, I.E. Act and other statutory provisions.

Tolerances: Tolerances on all the dimensions shall be in accordance with provisions made in the relevant Indian/IEC standards and in these specifications. Otherwise, the same will be governed by good engineering practice in conformity with required quality.

The transformer shall be installed outdoors.

2. Standards Applicable

Indian Standards

- IS 1271 Transformer Classification of insulating materials.
- IS 2026 (Part – I) Power Transformer – General
- IS 2026 (Part – II) Power Transformer – Temperature rise
- IS 2026 Power Transformer – Insulation level and (Part III) dielectric tests
- IS 2099 High Voltage Porcelain bushing screen
- IS 2705 (Part I & III) Current Transformers
- IS 3202 Core of practice for climate proofing
- IS 3639 Power transformer fittings and accessories
- IS 6600 Guide for loading of oil immersed transformer
- CBIP Guidelines

3. Type of Insulating Oil

Mineral Oil Immersed Transformer

Transformer Oil “APAR”(Power Oil) strictly conforming to IS335:1983 with latest amendment 1&2 having dielectric strength 50/60 KV at the time of filling by the refinery, packed in steel hermetically seal and non-returnable barrel each containing 209 Ltrs. bearing IS mark & isopropyl alcohol treated, EHV grade.

1. The quality of the oil, supplied with the transformer shall conform to relevant standards with latest amendment, if any. No oil shall be supplied or used at any stage of manufacture or test without a certificate, acceptable to the Purchaser that it has a PCB content of less than 2 mg/kg. No inhibitors shall be used in the oil. The oil samples will be drawn as follows:- (i) Prior to filling. (ii) Before and after heat run test. (iii) Before energising. All tests as per relevant IEC & ISS shall be conducted on all samples.

2. Sufficient quantity of oil, necessary for first filling of all tanks, coolers and radiators at the proper level along with 10% extra oil for topping up shall be supplied in non-returnable containers, suitable for outdoor storage.

3. The supplier shall despatch the transformer, filled with oil or in an atmosphere of Nitrogen. In the former case, the Bidder shall take care of the weight limitation on transport and handling facility at site. In the latter case, necessary arrangement shall be ensured by the supplier to take care of pressure drop of nitrogen during transit and storage till completion of oil filling during erection. A gas pressure testing valve with necessary pressure gauge and adapter valve shall be provided. The transformer shall also be fitted with an impact recorder during transportation. This impact recorder is on returnable basis.

4. Windings

Winding shall be made with 99.9% pure electrolytic grade copper, insulated with high grade paper Insulation class A Kraft paper. The winding should be able withstand thermal and mechanical stress in the event of short circuit. Winding shall be done in an in-house dust free, temperature-controlled section.

The Purchaser shall witness built up winding for its quality, weight of copper, insulation and over all weight of coil assembly. The size of conductor used for different windings shall also be checked during stage inspection to check the current density viz-a-viz guaranteed values.

Calculation of weight of copper by following two methods and comparison with respect to the value furnished during offer stage:

i) Weight measurement of per unit length of copper sample taken from windings. Verification of no. of turns and inner/ outer diameter of windings. Calculation of bare copper weight by using these parameters.

ii) Cross section area of conductor is already measured. Verification of no. of turns and inner/outer diameter of windings. Calculation of bare copper weight by using these parameters.

5. Core

6. Transformer shall be double wound core type with low loss, non-ageing, high permeability PRIME GRADE, CRGO with HIB Grade or Better, perfectly insulated and clamped to minimize noise and vibrations. Followings should be Mandatory for any Manufacturer: -

1. Transformer shall be of Boltless, step lap core design.
2. Core shall be purchased Directly from Manufacturer or from their accredited Marketing organization of Repute & not through any agent. Bidder has to submit manufacturer's name during bidding having sufficient credential & Core has to be purchased from the approved manufacturer.
3. Stage inspection of the core shall be done at manufacturer's premises & inspection call shall be given with following Documents:
 - o Invoice of the supplier
 - o Mill's test certificate

- Packing list
 - Bill of landing & Bill of Entry certificate by customs
4. Transformer manufacturer should have in-house core cutting facilities for proper control & monitoring of quality & to avoid mixing of Prime core with Second grade /defective core materials. Transformer Manufacturer should have in-house slitting Machine so as, core is cut to width & stacked with minimum air gap thus ensuring Burr level less than 10 Microns.
 5. Core shall be procured from one of these reputed Manufacturers – Posco/ Nippon/ Novex/ Ak Steels / NLMK / Vizsteel / JFE.
 6. The insulation structure for the core to frame and core to clamp plates shall be such as to withstand a voltage of 2000V for one minute.
 7. **Core & Coil Assembly**
The completed core and coil assembly shall be dried in vacuum and shall be immediately impregnated with oil after the autoclave drying process to ensure elimination of air and moisture within the insulation.
 8. **Power Rating**
The power rating of the transformer shall be 4 MVA ONAN
 9. **Voltage Rating & Vector Group**
Voltage ratio for the Power Transformer shall be 6.6/3.3 KV based on system requirement.
Vector Group should be DYn11
 10. **Cooling Method & Temperature Rise**
Cooling shall be via Mineral Oil Naturally circulated, Air Naturally circulated i.e. ONAN
Temperature rise of oil/winding over design ambient temperature of 50(deg. C): 45/50 (deg. C)
Hot spot temperature over a maximum yearly weighted average ambient temperature of 32 deg. C: 98 deg. C
 11. **Loss Levels & Impedance**
The Transformer No load & full load losses values shall be as per mutually agreed between Buyer & supplier or a Loss Capitalization rate in INR will be provided. Impedance Z% should be above 8% at 4 MVA base (IS Tolerance applicable) or as per mutual agreement.
 12. **Tank**
Conventional tank with Detachable radiators
The exterior of tank and other steel surfaces exposed to the weather shall be thoroughly cleaned and have a priming coat of zinc chromate applied. The second coat shall be of an oil and weather-resistant nature, preferably of distinct colour from the prime and finish coats. The final coat shall be of a glossy, oil and weather resisting non-fading paint of specified shade. The interior of the tank shall be cleaned by shot blasting and painting with two coats of heat resistant and oil insoluble paint.
Steel bolts and nuts exposed to the atmosphere shall be galvanized.

Unless otherwise stated, the tank together with radiators, conservator, bushings and other fittings shall be designed to withstand without permanent distortion the following conditions:

1. Vacuum withstand shall be as per CBIP Guideline.
2. Internal gas pressure of 0.35 Kg/cm² (5 lbs/sq.in) with oil at operating level.

The tank cover shall be suitably sloped so that it does not retain rainwater.

The material used for gaskets shall be cork neoprene or approved equivalent

.12. Fittings & Accessories

Conventional tank with detachable radiators

For oil immersed type transformers, following fittings shall be provided:

- 01) 1 No. - Rating & Diagram Plate.
- 02) 2 Nos. - Earthing Terminals.
- 03) 4 Nos. - Lifting Lugs.
- 04) 1 No. - Oil Level Indicator with minimum level marking
- 05) 2 Nos. - Thermometer Pockets.
- 06) 1 No. - Conservator with oil filling hole with cap and drain plug.
- 07) 1 No. - Air Release Plug.
- 08) 1 No. - Silica gel breather.
- 09) 1 No. – On Load Tap Changer + AVR + RTCC
- 10) 4 Nos. - Bi-directional Rollers.
- 11) Jacking Pads
- 12) Radiators. (Epoxy Painted only)
- 13) First Filling of Oil. (As per IS: 335)
- 14) Epoxy Paint shade # RAL 7032
- 15) Pressure Relief Valve with trip contact.
- 16) Bottom drain-cum Filter Valve.
- 17) Top Filter Valve.
- 18) Cable Box at HV Side (6.6KV)
- 19) Cable Box at LV Side (3.3KV)
- 20) Bushing Terminals complete with connectors for the Purchaser's external conductors or cable boxes, as specified in Specification.
- 21) Neutral bushing terminal complete with connector for earth conductor specified in Specification.
- 22) Inspection cover (for transformers 1000 KVA and above).
- 23) Rating and terminal marking plates.
- 24) Two Earthing terminals.
- 25) Lifting lugs for Lifting complete transformer with oil and for Lifting core and coils
- 26) Drain cum sampling valve with plug or cover plate.
- 27) Dehydrating breather (for transformers 25 KVA and above for rated voltage 11 KV and below and all ratings above 11 KV).
- 28) Oil level Indicator with minimum marking.
- 29) Thermometer pocket.

30) Oil filling hole with cap (for transformers without conservator)

31) Conservator (for transformers 50 KVA and above for rated voltage 11 KV and below, and all rating above 11 KV with oil filling hole with cap and a drain plug.)

32) Air cell in Conservator

33) Air Release Device (for all transformers fitted with conservators).

i. Jacking Lugs (Transformers weighing above 3000 Kg)

ii. Filter Valve (for all transformers above 1000 KVA)

iii. Pressure relief valve (for transformers 50 KVA and above). The device shall be rain-proof after operation. For transformers 500 KVA and above an equalizer pipe connecting the pressure relief device to the conservator shall be supplied.

iv. The under base provided with channels for fixing on a platform or plinth.

13. Termination Options

Suitable bare Porcelain Bushing on HV side and suitable Porcelain bushing on LV side along with Air Insulated Cable Box arrangement with DCC. Suitable for termination of 3 Runs $\times$ 1C $\times$ 630 sqmm, 6.6 kV (UE) XLPE Aluminium Armoured in 6.6 KV HV Side and 2 Runs $\times$ 3C $\times$ 300 sqmm, 3.3 kV(UE) XLPE insulated Al Cable in 3.3 KV LV Side.

14. INSPECTION & TESTING

- All routine and type tests shall be done in NABL accredited lab.
- Purchaser reserves the right to inspect/test the transformers by sending engineers of his own or from third party testing authority or both. Purchaser may appoint recognized testing authority like CPRI /ERDA with their instruments & engineer's team and measure no load loss, load loss and percentage impedance of the transformer at supplier's works. Bidder shall agree and give them full co-operation during their stay & testing at shop floor. The losses & impedance values so obtained will be considered as final.
- The bidder shall agree to the results. At his discretion, purchaser may also decide to take any transformer to third party labs like CPRI or ERDA for measurement of no load loss, load loss and percentage impedance of the transformer. The losses & impedance values so obtained will be considered as final. The bidder shall agree to the results.
- Pre-core loss measurement test should be conducted on 1 no. unit each lot.
- Tan delta measurement value should be less than 0.5.
- Detail Loss calculation shall be submitted during Tendering and Execution of the project. Minimum stray loss should be 15% of I²R loss at 75 Degree.

15. STAGE INSPECTION; -

Stage inspection of built up core (in horizontal/vertical position), windings, tank and radiators shall be carried-out as detailed below :-

Core :

i) Measurement of flux Density.

ii) Tests of CRGO sample taken from the core shall be carried-out for Carlite test (Resistance Measurement), Watt Loss Test, Lamination Thickness & Aging Tests.

iii) Physical inspection for quality of workmanship.

iv) Slitting/Cutting of core at manufactures works or in customer representative presence

b) Windings:

Measurement of Cross-sectional area for current density. The measurement of weight of bare copper/cover copper by Resistance Method, ID/OD method, per unit length methods.

Tests may be carried out on sample of copper for assessing its quality.

c) Tank:

i) Vacuum Test.

ii) Pressure Test.

ix) DP Test

x) Peel-off Test.

xi) Test on welded joints such as X-Ray testing shall be carried out on minimum one unit.

Note: For permissible deflection as per CBIP for pressure and vacuum test, Horizontal width shall be taken between nearest stiffeners.

d) Radiators:

Radiator shall be routine/type tests at sub-supplier works as per relevant standards. Process report to be recorded.

Core-coil assembly – Weighing of core-coil assembly will be done as stage inspection & weight should not be less than approved drawings

16. TESTS

The first seven tests listed below shall be carried out and shall be deemed to be included in the BIDDERS scope. Bidder shall quote extra unit prices for carrying out type tests as specified:

ROUTINE TESTS as per IS 2026 – The manufacturer should have NABL accredited test lab.

1. Measurement of winding resistance
2. Measurement of voltage ratio and check of voltage vector relationship
3. Measurement of impedance of voltage (principal tapping), short circuit impedance and load loss
4. Measurement of no-load loss and current
5. Separate source voltage withstand test
6. Induced overvoltage withstand test
7. 2kV withstand test for all wiring
8. Magnetic Balance Test

TYPE TESTS:

Optional price shall be quoted by bidder for carrying out Type tests as per IS 2026. All the type tests shall be carried out in NABL accredited test lab.

1. Lightning impulse test - Test certificate of similar design shall be furnished.
2. Temperature rise test - To be done on the transformer at third party or NABL accredited lab.

3. Zero phase sequence impedance test - Test certificate of similar design shall be furnished.
4. Pressure & vacuum Test as per CBIP guidelines on tank.
5. Measurement of Acoustic Noise level of transformer.
6. Measurement of Capacitance & Tan Delta of winding.

17. REJECTION

PURCHASER may reject any transformer if during tests or service any of the following conditions arise:

- No load loss exceeds the guaranteed value by 20% or more
- Load loss exceeds the guaranteed value by 20% or more
- Impedance value differs the guaranteed value by + 10% or more
- Winding temperature rise exceeds the specified value by 5°C
- Transformer fails on impulse test
- Transformer fails on power frequency voltage withstand test
- Transformer is proved to have been manufactured not in accordance with the agreed specification.
- The PURCHASER reserves the right to retain the rejected transformer and take it into service until the SELLER replaces, at no extra cost to PURCHASE, the defective transformer by a new acceptable transformer.

1.67 Specification of 6.6 KV& 3.3 KV AIS Panel:

This specification covers the requirements of metal enclosed switchgear (VCB) rated for 12 kV.

1. Technical Criteria:

(Make of Panel – SCHNEIDER/ABB/SIEMENS)

The panel shall be manufactured in OEM's factory ONLY.

Details of Scope:

Supply, Installation, Testing and Commissioning of

[a] 01 no 6.6KV, 3-phase, 50Hz, 1250Amps, 25KA, 3sec.ICOG Indoor VCB Panel Board &

[b] 01 no 3.3KV, 3-phase, 50Hz, 2000A Indoor VCB Panel Board [02 No 2000 Amp, 25KA, 3sec as Incomer and 01 No 2000 Amp, 25KA, 3sec Bus-Coupler & 02 Nos O/G Feeder (02 nos. 1250 Amp, 25KA, 3sec

HT Indoor Vacuum Circuit Breaker Panel confirming to the IEC: 62271-100 / IEC:62271-200, IAC-AFLR - 25KA for 0.1 sec PM LSC-2B comprising of the following equipment: -

(Make of Panel – SCHNEIDER/ABB/SIEMENS)

A) 6.6KV, 3-phase, 50Hz 1250A ICOG Indoor VCB Panel Board:

- (a) 1250Amps Bus Bar material shall be of high conductivity electrolytic copper only. All Bus Bars shall be insulated with heat shrinkable PVC sleeves. Phase identification shall be made at the end by coloured tapes. Bus bars shall be mounted on integral seal off bushings all inter connection shall be of electrolytic grade copper only with joints tin / silver plated.
- (b) Motorised Spring charged Mechanism.
- (c) Cast Resin Current Transformer as per IEC:61869 - Part 1 & 2, 11KV, 600/1A+1A Amps, Class 1.0; 10VA, Class 5P20; 15VA - 03Nos.
- (d) Cast Resin Three phase potential Transformer as per IEC:61869 - Part 1 & 3, 11KV/ $\sqrt{3}$ -110V/ $\sqrt{3}$, 50VA, Class 1.0 - 03Nos.
- (e) Accessories like Local-Remote Selector Switch, Breaker Control Switch (TNC), Space Heater with Thermostat, DC & AC Control Ckt. through MCB, indicating LED lamps for RYB Phases, Spring Charged, Breaker ON/OFF, Breaker in Service, Breaker in Test position.
- (f) 1-No. Ammeter with Selector Switch
- (g) 1-No. Voltmeter with Selector Switch
- (h) 1-No. Multifunction meter, Digital type (Displaying A, V, PF, Hz, KVA, KW, KVAR, KWh, KVARh etc) Class 1.0 with RS 485 port for communication of Modbus protocol Make: L&T (ER300P) / Secure (Premier 300) / Schneider (EM6400).
- (i) 1-No. Communicable Feeder Protection Relay with Three (3) element Over Current, one (1) element Earth Fault, Three (3) element Under / Over Voltage, Reverse Power, Voltage controlled Over Current, Frequency protections, Fault record, event record, Disturbance Record on Modbus Protocol – Schneider (P3) or ABB (REF615) or Siemens (7SJ63)
- (j) Master Trip Relay (VAJH13 or equivalent) – 1No.
- (k) The panel also have inrush detection, non directional earth fault (high & low stage), non directional overcurrent (high & low stage), Buchholz trip/alarm, OTI/WTI trip/alarm, PRV alarm/trip, OLTC Buchholz, oil level low alarm
- (l) Trip Circuit Supervision Relay - VAX31 or In-Built in main protection relay
- (m) Air Insulated rear and bottom Entry Cable Box suitable for termination of 1-Run 3-Core 400-Sq. mm. XLPE Cables.
- (n) O/G Cable termination Box shall be provided.
- (o) Panel Must have additional features: -
 - (i) Manual spring charging, closing & tripping of the CB with compartment door closed.
 - (ii) Fully internal Arc tested for 25KA for 0.1 Sec.
 - (iii) Short time rating for 3 seconds as per IEC 62271-100.
 - (iv) Mechanical endurance test - M2.
 - (v) Horizontally mounted Vacuum interrupter in VCB shall not be acceptable.

- (vi) Busbars, Droppers & Inter-connections shall be of rectangular cross-section only. Round / Triangular or “D” shaped Busbars, Droppers & Inter-connections are not acceptable.
- (vii) Current Transformers shall be as per IEC:61869-Part 1 & 2
- (viii) Potential Transformers shall be as per IEC:61869-Part 1 & 3
- (p) Manufacturer of Panel must be same as Vacuum Interrupter, VCB, Main Protection Relay & Meter.
- (q) Auxiliary Supply Voltage for the Relay / Closing Coil / Trip Coil will be 240V AC/110 V DC;

(Make of Panel – SCHNEIDER/ABB/SIEMENS)

(a) Additional Features in ICOG Panel

- i. inrush detection, non directional earth fault (high & low stage), non directional overcurrent (high & low stage), Buchholz trip/alarm, OTI/WTI trip/alarm, PRV alarm/trip, OLTC Buchholz, oil level low alarm

B) 3.3KV, 3-phase, 50Hz 2000A Indoor VCB Panel Board [with 02 No 2000 Amp VCB Panel as I/C, 01 No 2000 Amp VCB Panel as Bus-Coupler and 02 Nos 1250 Amp VCB O/G Transformer Feeder

General Arrangement of Panel Board

2000 Ampere Incomer- 1(CPP)	1250 Ampere Transformer O/G Feeder	1250 Ampere Transformer O/G Feeder	2000 Ampere Bus-Coupler	2000 Ampere Incomer- 2(GRID)
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2000 Amps continuous Bus Bar material shall be of high conductivity electrolytic copper only. All Bus Bars shall be insulated with heat shrinkable PVC sleeves and joints shall be covered with Shrouds / HT tapes. Phase identification shall be made at the end by coloured tape. Bus bars shall be mounted on integral seal off bushings all inter connection shall be of electrolytic grade copper only with joints tin / silver plated.

- (b) Motorised Spring charged Mechanism
- (c) For I/C Panel - Cast Resin Current Transformer as per IEC:61869 - Part 1 & 2, 11KV, 2000/1A+1A+1A, Class 1.0; 15VA, Class 5P20; 15VA; Class PS - 06Nos.
- (d) For Bus-Coupler Panel - Cast Resin Current Transformer as per IEC:61869 - Part 1 & 2, 11KV, 2000/1A+1A+1A, Class 1.0; 15VA, Class 5P20; 15VA; Class PS - 03Nos.
- (e) For the incomer Panel Auto-manual selector for breaker copen/close

- (f) For O/G Panel - Cast Resin Current Transformer as per IEC:61869 - Part 1 & 2, 11KV, 200/1A+1A, Class 1.0; 15VA, Class 5P20; 15VA; Class PS - 06Nos.
- (g) Accessories like Local-Remote Selector Switch, Breaker Control Switch (TNC), Space Heater with Thermostat, DC & AC Control Ckt. through MCB, indicating LED lamps for RYB Phases, Spring Charged, Breaker ON/OFF, Breaker in Service, Breaker in Test position.

(h) The following must be included in each panel

- i. Ammeter with Selector Switch (Only in I/C Panel), Multifunction meter, Digital type (Displaying A, V, PF, Hz, KVA, KW, KVAR, KWh, KVARh etc) Class 1.0 with RS 485 port for communication of Modbus protocol Make : L&T (ER300P) / Secure (Premier 300) / Schneider (EM6400).
- ii. Communicable Feeder Protection Relay with Three (3) element Over Current, One (1) element Earth Fault, Fault record, event record, Disturbance Record on Modbus Protocol – Schneider (P3) or ABB (REF615) or Siemens (7SJ63)
- iii. Master Trip Relay (VAJH13 or equivalent)
- iv. Air Insulated rear and bottom Entry Cable Box suitable for termination of 3-Run 3-Core 400-Sq. mm. XLPE Cables. (for I/C) & 02-Run 3-Core 400-Sq. mm. XLPE Cables. (For O/G Feeders)

(i) Additional Features in O/G Transformer feeder

- ii. inrush detection, non directional earth fault (high & low stage), non directional overcurrent (high & low stage), Buchholz trip/alarm, OTI/WTI trip/alarm, PRV alarm/trip, OLTC Buchholz, oil level low alarm
- (j) Panel Must have additional features:-
- (i) Manual spring charging, closing & tripping of the CB with compartment door closed.
 - (ii) Fully internal Arc tested for 25KA for 0.1 Sec.
 - (iii) Short time rating for 3 seconds as per IEC 62271-100.
 - (iv) Mechanical endurance test - M2.
 - (v) Horizontally mounted Vacuum interrupter in VCB shall not be acceptable.
 - (vi) Busbars, Droppers & Inter-connections shall be of rectangular cross-section only. Round / Triangular or “D” shaped Busbars, Droppers & Inter-connections are not acceptable.
 - (vii) Current Transformers shall be as per IEC:61869-Part 1 & 2

- (k) Manufacturer of Panel must be same as Vacuum Interrupter, VCB, Main Protection Relay & Meter.
- (l) Auxiliary Supply Voltage for the Relay / Closing Coil / Trip Coil will be 240V AC/110 V DC (External supply);

CODES AND STANDARDS

The Panels shall be Type tested as IEC-62271-100 & 200

CONSTRUCTIONAL FEATURES & DESIGN CRITERIA

1. Vacuum Interrupter, VCB, Numerical Relay & AIS panel shall be of the same make. The switchgear shall be indoor, metal clad with separate metal enclosed compartments for
 - (a) control, metering and relaying devices
 - (b) circuit breaker/ disconnecting switch
 - (c) busbars
 - (d) voltage transformers and
 - (e) power cable terminations & current transformers.

Doors with locking facility shall be provided for all compartments except for busbar compartment.

2. Separate removable gland plates shall be provided for power and control cables. The gland plate for the power cables shall be of non-magnetic material for single core cables.
3. All sheet steel work shall be thoroughly cleaned of rust, scale, oil, grease, dirt and swarf by pickling, emulsion cleaning etc. The sheet steel shall be phosphate and then painted with two coats of zinc rich primer paint.
4. The circuit breaker be fully draw out type and re- strike free. The circuit breaker shall have distinct service and test positions. In the test position the circuit breakers /disconnecting switch shall be capable of being tested for operation without energizing the power circuits. Four normally open auxiliary contacts shall be provided for each of the service and test limit position switches.
5. The switchgear shall fully house the breaker both in the service position as well as in the test position.
6. The current transformer shall be placed in the cable chamber in such a way that its secondary terminals can be accessible without dismantling of current transformers & cable terminations.
7. The voltage transformers shall be draw out type & shall be mounted in such a way that it shall permit easy access, operation and maintenance. Line PT shall be housed in separate dedicated compartment and withdrawable from front

only.

8. The cable compartment shall house all power cable connections along with associated cable terminations. Wherever CBCT's are provided for earth fault protection, these shall also be located inside the cable compartment. Inspection window shall be provided to facilitate viewing cable terminations.
9. The cubicles shall have an internal arc classification as defined by IEC 62271-200 of 25kA 0.1s A-FLR, the structure of the switchgear must be fabricated using CRCA sheets
10. The switchgear shall be used to supply power to HV motors, transformers and other loads for various plants.
11. The switchgear shall be located in a clean but hot, humid and tropical atmosphere.
12. For continuous operation at specified ratings, temperature rise of the various switchgear components shall be limited to the permissible values stipulated in the relevant standards and/or this specification.
13. The Switchgear and components thereof shall be capable of withstanding the mechanical forces and thermal stresses of the short circuit current without any damage or deterioration of material.
14. Circuit breaker shall not produce any harmful over-voltage during switching off induction motors, unloaded lines and unloaded transformers. If required, surge protective device shall be considered in the scope of supply to limit over-voltage.
15. Switchgear cubicle shall be so sized as to permit closing of the front access door when the breaker is pulled out to TEST position. The operating height of the switchgear shall be restricted within 750 mm to 1950 mm from floor level.

SAFETY INTERLOCKS AND FEATURES

1. Withdrawal or engagement of circuit breakers or disconnecting switch shall not be possible unless it is in the open position.
2. There shall be operational interlock between Incomer-I, Incomer-II and Bus-Coupler such like a) Only one Incomer Breaker is energized at a time. b) Bus-Coupler can't be energized when CPP Breaker is ON
(c) The CPP breaker can't be energized when Bus-Coupler Breaker is ON
3. Operation of circuit breaker or disconnecting switch shall not be possible unless it is fully in service position, or in test position or in fully drawn-out position. The interlock shall prevent the closing of the circuit-breaker, switch or contactor in the service position unless any auxiliary circuits associated with the automatic opening of these devices are connected.
4. Operation of a disconnecting switch shall not be possible unless the associated circuit breaker is open.

5. Circuit breaker / disconnecting switch cubicles shall be provided with safety shutters operated automatically by the movement of the circuit breaker / disconnecting switch carriage to cover the exposed live parts when the breaker is withdrawn.
6. Caution name plate with inscription "Caution - Live Terminals" shall be provided at all points where the terminals are likely to remain live and isolation is possible only at remote end, e.g., incoming terminals of main circuit breaker/disconnecting switch.
7. A draw-out breaker / disconnection switch of given rating shall be prevented from engaging with a stationery element of higher rating.
8. The Circuit breaker / disconnecter carriage shall be earthed before the carriage reaches test position from fully withdrawn position. Further while racking out, earthing shall get disconnected only after test position. The earthing busbar & the contact shall be designed for full fault current with minimum contact resistance.
9. Emergency trip push button shall be provided for mechanical tripping of breaker with door closed condition and manual charging of closing spring to cater to emergency condition.

MAIN BUS BARS

1. 2000 Amps continuous Bus Bar material shall be of high conductivity electrolytic copper only. All Bus Bars shall be insulated with heat shrinkable PVC sleeves.
2. If required busbars shall be supported on insulators capable of withstanding dynamic stresses due to short circuit.

Vacuum CIRCUIT BREAKERS

1. Trolley mounted Circuit breakers shall be Vacuum type, horizontally withdrawable type & Isolation inside vacuum interrupter should happen in the vertical position. The breaker arms should be uniform in design for busbar & cable side connection.
2. The Breaker should be mounted minimum 400mm above the floor for ease of operation. The top and bottom shutters of the circuit breaker compartment shall not be dependent on each other. It should only be possible to rack in or rack out the switching devices with the door closed
3. The circuit breaker type shall be VCB suitable for the switching duty as applicable to the type of loads being fed from the switchgear & over voltages shall be within limits for the type of loads connected.
4. Mechanical trip and close functions with pad locking facility shall be provided

for circuit breaker operations during auxiliary supply failures conditions.

5. All VCB of same rating shall be interchangeable. Closing coil shall be operable with control supply voltage variation in the range of 85-110% and tripping coil shall be operable in the range of 70-110%.

Switchgear Condition Monitoring

A. QR CODE

Only by scanning this QR code, which is pasted on switchgear, the authorized person can get the access of OEM's safe repository where the below documents are uploaded, related to the switchgear supplied from works.

- Single Line Diagram
- Routine Test Certificates
- General Arrangement Drawings
- Catalogue
- Operation and Maintenance manual

This will help to access all the above required documents any time without having hard copies available

B. Condition Monitoring System for Switchgear:

A comprehensive condition monitoring solution encompassing thermal monitoring & environmental monitoring to be provided for Switchgear. The proposed solution shall monitor 24 x 7 all the critical health parameters of the Switchgear w.r.t temperature.

The Condition Monitoring System shall have provision to get integrated with on premise SCADA / Power Management system. The condition monitoring system shall also be open to integrate any third-party SCADA.

MV Switchgear shall be equipped with Intelligent sensors monitoring environment in the cubicles and hotspots at joints / cable connections as per tested design. The system shall allow 2 configurable thresholds (pre-alarm and alarm).

C. Thermal Monitoring:

One (1) no. wireless Temperature sensor per phase shall be mounted close to the cable joints / connections at cable chamber of the Panels as per tested design. It is not applicable for connections without power cable termination. The sensors shall be self-powered, requiring neither an auxiliary wired source of power nor replacement of battery. Energy for functioning of sensors shall be harvested from the mains circuit.

Temperature data from sensors shall be communicated on wireless Zigbee

communication protocol at 2.4GHz conforming to IEEE 802.15 to a smart device to facilitate accurate real time thermal monitoring of these critical joints.

D. Environment Monitoring:

One (1) no. Ambient sensor shall be installed preferably inside cable chamber for continuous monitoring of humidity, and ambient temperature. The sensors should have a built-in battery for 10-years life.

The environment sensor shall communicate on wireless Zigbee communication protocol at 2.4GHz conforming to IEEE 802.15 to a smart device which shall have required algorithms to determine presence of condensation and calculate degree of environmental safety based on measurements and pollution level inputs according to IEC 62271-30.

11. TESTING, COMMISSIONING AND HANDING OVER

11.1 The Bidder, at no extra cost, shall arrange all instruments and accessories, tools and tackles, scaffolding, testing equipment required for testing and commissioning of the items specified for the required duration of test .

11.2 The Bidder shall make available the following minimum Testing and Commissioning equipment for testing and commissioning of various equipment in the plant as applicable :

- 500V and 1000V meggers, 5000V/2500V motor operated meggers
- Earth resistivity testing equipment
- Phase sequence indicators, Frequency meters
- High potential testing sets suitable for testing cables up to 6.6 kV grade
- Clip-on ammeters, voltmeters, multi-meters, power factor-meters, time interval meters, variacs
- Primary and Secondary injection equipment
- Insulating oil breakdown test set with accessories
- Transformer oil filtration equipment
- Relay test kits
- Breaker timing device for Circuit breaker opening/closing time measurement

- CT & VT testing apparatus
- Laptop for programming of numerical relays

11.3 Bidder shall ensure the use of calibrated test equipment having valid calibrated test certificates traceable to national standards.

11.4 All pre-commissioning and commissioning tests at site shall be carried out as per manufacturer's recommendations and the direction of the Engineer-in-charge .

11.5 All commissioning tests shall be carried out in the presence of the Engineer-in-charge. The Bidder shall record all test values and furnish the required accepted signed copies of the test data to the Engineer-in-charge. Test reports shall be jointly signed by the BIDDER and the Manufacturer .

11.6 The Bidder shall bear all the cost of all tests & rejected supply material. The Bidder without any time / cost implications shall replace the rejected material .

11.7 Here is a comprehensive list of **site tests** to be carried out on the transformers (T-1, T-2, T-3) and the associated **Panel-1** (new 6.6 kV HT 201 Transformer Feeder Panel) & **Panel-2** (new 3.3 kV panel) before commissioning.

These tests ensure the equipment was not damaged during transport/installation, all connections are correct, insulation is healthy, protection schemes function, and the system is safe to energize.

12. Common Pre-Commissioning Checks (Applicable to Transformers + Panels)

- **Visual and Mechanical Inspection:**
 - Check for physical damage, oil leaks, proper alignment, tightness of all bolts/connections, and correct labeling.
 - Verify nameplate details match the drawing (ratings, vector group, impedance, etc.).
 - Confirm oil level in main tank, conservator, and bushings; check silica gel breather condition/color.
 - Inspect all gaskets, valves, radiators, and accessories.
 - Verify earthing connections (transformer body, neutral, panels) and measure earth resistance ($<1 \Omega$ typical for stations).

- **Cable Tests** (all 6.6 kV and 3.3 kV XLPE cables shown in the diagram):
 - Insulation Resistance (IR) test (5 kV or 10 kV Megger) — phase-to-phase, phase-to-earth.
 - High Voltage (Hi-Pot) test (DC or AC, as per cable rating and standards).
 - Continuity and phasing check.

12.1. Tests on Transformers (T-1: 4 MVA 6.6/3.3 kV, T-2: 1 MVA 3.3/0.433 kV, T-3: 4 MVA 6.6/3.3 kV)

Perform these after oil filling, hot oil circulation (if applicable), and settling time.
Compare results with factory test reports where available.

Pre-Energization Checks & Tests:

- **Insulation Resistance (IR) / Megger Test** — HV to LV, HV to Earth, LV to Earth, and Polarization Index (PI) or Dielectric Absorption Ratio (DAR). Use 5 kV Megger for HV side. Values should be very high (typically $>1000 \text{ M}\Omega$ at 30°C , corrected for temperature).
- **Winding Resistance Measurement** (using micro-ohmmeter or Kelvin bridge) — on all taps. Compare with factory values (temperature-corrected).
- **Turns Ratio / Voltage Ratio Test** (TTR kit) — on all taps. Tolerance usually $\pm 0.5\%$.
- **Vector Group and Polarity Check** — Confirm Dyn11 (or as per nameplate) and correct phasing.
- **Magnetic Balance Test** (or Magnetizing Current Test) — to detect core/winding issues.
- **Tan Delta (Dissipation Factor) / Capacitance Measurement** — for windings and bushings (if kit available; important for $>1 \text{ MVA}$ units).
- **Transformer Oil Tests** (BDV, moisture content, acidity, dielectric strength, DGA if required) — Sample from main tank and OLTC (if any).
- **Core Insulation Test** (if accessible) or Core-to-Earth IR.
- **Operational Checks on Protections and Accessories** (as listed on the drawing for Transformer Protection):

- Buchholz relay (alarm & trip) — functional test by injecting air/gas.
- Oil Temperature Indicator (OTI), Winding Temperature Indicator (WTI), PRV (Pressure Relief Valve), OLTC Buchholz (if applicable), oil level alarms.
- Marshaling box wiring and contact operations.
- Fan/pump operation (if forced cooling is provided; though these appear ONAN).
- **Tap Changer Operation** (manual and remote, if OLTC) — check limit switches, interlocks, and continuity.
- **Short-Circuit Impedance / Reactance Check** (optional, if required by utility).

Note: T-2 is a step-down to 433 V (PCC panel side), while T-1 and T-3 step down to 3.3 kV. Ensure correct vector group matching for parallel operation or phasing with existing system.

12.2. Tests on Panel-1 (6.6 kV HT 201 Transformer Feeder Panel — NEW)

This is the incomer/transformer feeder panel at 6.6 kV with 1250 A breaker and associated protections/relays (REF 615 mentioned).

- **Visual & Mechanical:**
 - Busbar clearance, tightness of joints, shutter operation, interlocks, earthing switch (if any).
 - Control wiring verification, ferrule checking, terminal tightness.
- **Insulation Resistance Test:**
 - Busbar (phase-to-phase, phase-to-earth) with 5 kV Megger.
 - Breaker (open & closed positions), CT/PT (if present), control circuits.
- **Circuit Breaker Tests:**
 - Timing test (close/open, trip time).
 - Contact resistance (micro-ohm).
 - Operation counter, spring charge mechanism, anti-pumping, trip-free operation.
 - Mechanical/electrical interlocks.

- **Protection Relay Testing** (as listed: 3 Ph IDMT/non-directional overcurrent, earth fault, differential if applicable, REF 615 feeder protection relay, etc.):
 - Secondary injection test for all relays (pickup, timing, directionality).
 - Primary injection test (for CT polarity, ratio, and overall scheme).
 - Trip circuit supervision and healthy check.
 - Functional test of all alarms/trips (Buchholz, OTI, WTI, PRV, etc.) to panel.
- **CT & PT Tests** (if equipped):
 - Ratio, polarity, knee point voltage (for protection CTs), burden, magnetizing curve.
- **Functional & Scheme Checks:**
 - Control supply (DC) health, annunciation, metering.
 - Synchrocheck (if applicable for incomer).
 - Simulated trip from transformer protections to breaker.
 - Earthing and touch potential.

12.3. Tests on Panel-2 (3.3 kV Panel — NEW)

This appears to be the 3.3 kV distribution panel receiving from T-1/T-3, with outgoing feeders (including to PCC and spare).

Similar tests as Panel-1, but at 3.3 kV level:

- Visual/mechanical inspection, busbar checks.
- IR test on busbars, breakers (1250 A and 630 A VCBs).
- Breaker timing, contact resistance, interlocks.
- Protection relay testing (overcurrent, earth fault, etc., per scheme).
- CT/PT verification.
- Functional tests for outgoing feeders to PCC panel and spare feeder.
- Phasing check between transformers and panel (important for T-1 and T-3 paralleling possibility).
- Control and interlock verification with downstream PCC panel.

12.4. System-Level Tests Before Final Energization

- **Phasing Out / Phase Sequence Check** — Ensure correct phase matching across all transformers and panels (critical before closing breakers).
- **Stability Test for Differential Protection** (if REF or differential is implemented).
- **Overall Trip Circuit Verification** — From transformer protections to upstream/downstream breakers.
- **Load Simulation / No-Load Energization Plan** (step-by-step: first charge transformer at no-load, check voltages, currents, noise, temperature rise, then gradually load).

Additional Recommendations

- All tests should be witnessed by the owner/engineer (e.g., CPP/ASEB representative).
- Record all results in a pre-commissioning checklist/protocols and compare with factory acceptance test (FAT) values.
- Safety: Follow lock-out/tag-out, PTW (Permit to Work), and use calibrated instruments.
- For oil-filled transformers, ensure proper drying/vacuum if moisture is suspected.
- Protection settings must be coordinated and approved before energization.

If any specific protection scheme details, relay make (e.g., REF615), or client standards are available, the list can be further customized. These tests typically take several days depending on the team and equipment availability.

18.0 INSPECTION OF EQUIPMENT

18.1 All materials supplied by the BIDDER must be new, of a specified quality and shall be as per the specifications and drawings attached along with this tender.

18.2 The inspection of equipment listed in supply item will be carried out in the presence of OWNER or Third Party appointed by APL.

18.3 OWNER shall have the right to either inspect the material at manufacturers work or waive off the inspection for despatch and inspect at site. Even after this inspection, the party shall be responsible for the performance of the equipment at site after installation.

18.4 Acceptance and routine tests for all supply equipment/component parts shall be carried out as per the relevant standards for the respective equipment before dispatch to ensure compliance with the relevant specifications & agreed quality assurance/testing plan. These test reports and manufacturer's type test reports shall be submitted to Owner before dispatch of the equipment.

18.5 Bidder shall provide Type test certificate issued in the name of OEM only (for which the offer is submitted) and shall be issued by NABL/BIS/CPRI/ILAC accredited laboratories/ STL/central govt. approved laboratories along with the bid.

A) The following type test certificate(s) of the offered make, model and rating of the 6.6KV / 11KV AIS SWITCH GEAR, issued in the name of OEM only (for which the offer is submitted)

and not older than ten (5) years from original bid closing date shall be submitted along with the bid.

- i) Temperature rise test
- ii) Dielectric test
- iii) Internal arc classification tests for cable chamber and busbar chamber.
- iv) Short circuit withstand test

B) The following type test certificate(s) of the offered make and rating of the 4 MVA POWER TRANSFORMER, issued in the name of OEM only (for which the offer is submitted) and not older than five (05) years from original bid closing date shall be submitted along with the bid.

- i) Temperature rise test
- ii) Lightning impulse test
- iii) Power frequency withstand test
- iv) Short circuit withstand test

2. SCOPE OF WORK OF THE BIDDER

- a. In general the scope of work consists of activities, as per the requirements detailed in tender document and to be completed as per instruction of Engineer-in-Charge. Any other work not specifically mentioned above or in the scope of work but required to complete the work as per instruction of Engineer-in-Charge, shall also be responsibility of the bidder.
- b. Rates quoted should be inclusive of transportation, mobilization, demobilization, site clearance Operation Cum Maintenance / Servicing charges etc
- c. To and fro transportation cost for AMC visit shall be in contractor scope.
- d. Accommodation and local conveyance facilities will be arranged by the bidder. Accommodation and canteen facility in APL, if provided (as per availability), the same will be on chargeable basis.
- e. Free open space shall be provided by OWNER as may be available within the work site for storage of BIDDER's tools and office at site. No space for accommodation of workers of bidder will be provided either at site or outside the site. Bidder shall make his own arrangements for the same. Similarly, canteen facility will not be given to the Bidder's workers.
- f. The Bidder should ensure that all material supplied by him as well free issued material are stored indoor/ Under shade. However, if the material is temporarily stored outdoor, he should ensure storage area is dry, hard and well drained and material is covered with PVC sheets for protection against rains.
- g. The Bidder shall provide the necessary security services at his own cost to safeguard the material which are brought by him. The owners shall not be responsible for any loss or damage of such material. However, in case of any theft the same shall be notified in writing to the security department for information and without any obligation whatsoever from Owners end.
- h. Drinking water will be available free of cost at one common point. 17.5 At the end of the contract, space shall be leveled, cleaned, dispose of all the temporary works erected and return to satisfaction of Owner/ Engineer Incharge.

3. SCOPE OF APL UTILITY SUPPLY

- a) During plant hours, bidder may use APL canteen facility for meal in principle with paid basis.

4. TIME OF COMPLETION/CONTRACT PERIOD

The total duration for the completion of the works shall be [**One Hundred Eighty (180)**] days from the date of issue of the Letter of Intent (LOI) / Work Order.

5. PAYMENT TERMS AND CONDITIONS

Payment Schedule is as below:

A. Billing Format

Description of Items	Billable (%)
On issuance of sub-order and submission of BG	5%
After receipt and acceptance of material at site	60%
After erection/installation	20%
After testing and acceptance	10%
After completion of all works in all respects	5%

B. Payment Terms

- 90% (Ninety percent) of CONTRACT PRICE as monthly running bills (RA) certified by Owner's Engineer-In-Charge.
- 10% (Ten percent) of CONTRACT PRICE as retention money within a month after completion of '**Guarantee/Defects Liability Period**' or within a month after completion of job as per contract against a bank guarantee for the '**Guarantee/Defects Liability**'.
- Maximum 05(five) including final bill can be raise.
- No any kind of advance shall be paid to the contractor.
- Payment will be made on actual quantity of job done within the total value of contract & not on the basis of total value of contract

Note: Progressive / milestone Payment is not applicable

- The final bill shall be submitted by the Contractor within one month of the date of completion of the work fully and completely in all respects. If the Contractor fails to submit the final bill accordingly Engineer-in-Charge / Site-in-Charge may make the measurement and determine the total amount payable for the work carried out by the Contractor and such a certification shall be final and binding on the Contractor.
- The Owner/Engineer- in-Charge/Site-in-Charge may take the assistance of an outside party for taking the measurement, the expenses of which shall be payable by the Contractor
- Payment of final bill shall be made within 30 days from the date of receipt of the certified bill by the Disbursement Section of the owner.
- OWNER may direct CONTRACTOR in writing to suspend all or any part of WORK for such period of time as may be determined by OWNER to be necessary or desirable for the convenience of OWNER. On receipt of such notice, CONTRACTOR shall take immediate action to wind up the WORK in such a manner that it will cause least damage to OWNER
- If such suspension delays the progress of WORK and causes additional expense or cost to CONTRACTOR, the increased costs due to such suspension shall be compensated by the OWNER as may be mutually agreed upon by the OWNER and CONTRACTOR in writing. All

mobilization & demobilization charges of CONTRACTOR's personnel from site shall be borne by OWNER

6. OWNER shall advise CONTRACTOR of the period such suspension is likely to cover. CONTRACTOR shall remobilize his personnel and resume WORK as expeditiously as possible on receipt of instruction from OWNER to resume the WORK

6. SCHEDULE OF RATES:

6.2 No escalation of whatsoever nature shall be paid to the bidder for the entire Contract Period.

7. ADHERENCE TO SAFETY REGULATIONS:

All the Safety rules and regulations and all safety precautions to be followed at all the times during the execution of the job.

1. The bidder shall be solely responsible for compliance of safety rules and regulation as per Factory Act as applicable.

2. Safety Appliances/ PPEs required at the time of execution of the jobs shall be made available by Bidder to his workmen.

3. If any statutory clearance for manpower deployment/Erection/Installation/Annual Maintenance, it is under the scope of the Contractor. However, APL will assist if any assistance required.

4. Any injuries or accidents to your team members shall be taken care by you at your own risk and cost and shall comply with all safety rules and regulations.

5. The CONTRACTOR shall ensure compliance with all statutes, laws, rules and regulations of the Central or State Government or any other authority such as the Workmen's Compensation Act 1923, Payment of Wages Act, Minimum Wages Act 1948, Employees State Insurance Act, Employees Provident Fund Act, etc. and any and all statutory modifications thereof in connection with employees engaged by him or his sub-contractors in the work including proper insurance coverage.

6. All safety norms to be maintained during execution of the work. All safety equipment required including PPE is in the scope of the contractor. APL is not liable for any compensation in this regard.

7. All supplied items/tools & tackles/manpower/Attendance Register with challan must be properly recorded at specified designated location. Any mismatch would lead to deduction in the bill amount.

8. Relevant IS codes as applicable in the entire works and commodities supplied shall be strictly applicable. Non-compliance would lead to rejection of the executed job or the commodity supplied.

9. The bidder may at its own discretion can examine the site of works and its surrounding and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into the contract. Claims of any kind due to variation or ignorance of site conditions and environmental conditions will not be eligible in any circumstances.

10. The bidder may at its own discretion can examine the site of works and its surrounding and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into the contract. Claims of any kind due to variation or ignorance of site conditions and environment conditions will not be eligible in any circumstances.

8. SPECIFIC INSTRUCTION TO CARRY OUT JOBS

8.1 In case the bidder leaves any job incomplete or fails to complete it in stipulated time or not up to the satisfaction of Engineer-in-Charge then that job will be done through any other agency at the cost of the bidder.

8.2 Bidder shall provide proper identification card for his employees to be deputed by him for the work, duly signed by the bidder or any authorized person on behalf of the bidder. Also the bidder should obtain entry passes from office reception through Engineer-in-Charge for his employees.

8.3 The personnel to be deputed by the bidder should also meet the following requirement:

- ☐ Should be medically fit to work at site.
- ☐ Should possess good conduct and discipline

8.4 The bidder shall be solely responsible and indemnify APL against all charges dues, claim etc. arising out of the disputes relating to the dues and employment of personnel, if any, deployed by him.

8.5 While confirming to any of these conditions, the bidder should ensure that no law of state regarding labor, their welfare, conduct etc. is violated. The bidder shall indemnify APL for any action brought against him for violation, non-compliance of any act, rules & regulation of center / state / local authorities.

8.11 All the jobs have to be carried out without compromising or disturbing the plant Operation, process and safety.



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ASSAM PETRO-CHEMICALS LIMITED

(A Government of Assam Undertaking) | An ISO 9001:2015 Certified Company
CIN- U24116AS1971SGC001339, GSTN: 18AABCA6913A1Z6

Head Office

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SCHEDULE OF RATES

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures Including Tax To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes
1.0	Supply, Installation, Fixing, Testing and commissioning of 4 MVA, 6.6 kV / 3.3 kV, ONAN, Dyn11, with OLTC, complete with all protections (Buchholz, OTI, WTI, PRV, OLTC Buchholz, oil level low alarm, etc.) type with Tap Changing Fascility Isolation Transformer (4 Star Category, BIS Level-2, Copper Wound) with Transformer Pad / Foundation @ min. height 480 mm from FGL for CPP power supply to PCC Panel of M-II plant with proper lug, complete earthing with sufficient quantities of 3 Meter Length CI/GI Earth Pipe & Copper Earth Strip and Neutral earthing with GI strip of size: 50 x 6mm with the proper Standard Size of Transformer Foundation (Pad Mounted) with making of Zero Step Potential and having Rain Shed and Fencing barrication over the Transformer. Make: Schneider Electric, VOLTAMP, Crompton Greaves. Civil foundation/Base frame @ minimum height of 560 mm from FGL as reqd is in the scope of Contractor. All materials are under the scope of the contractor. The transformer shall be first filled by following brand: Transformer Oil “APAR” (Power Oil) strictly conforming to IS335:1983 with latest amendment 1&2 having dielectric strength 50/60 KV at the time of filling by the refinery, packed in steel hermetically seal and non-returnable barrel each containing 209 Ltrs. bearing IS mark & isopropyl alcohol treated, EHV grade. The TRANSFORMER shall be manufactured OEM's factory ONLY. The Transformer shall be manufactured as per the specification mentioned in Tender	1	No.	Quoted	Quoted
2.0	Supply, Installation, Fixing, Testing and commissioning of outdoor type NGR of following rating Rated Voltage: 3.3 / $\sqrt{3}$, Rated Short Time Current/Duration : 100A for 30 Sec, Current 100 Amp, Resistance : 9.05 Ω	1	No.	Quoted	Quoted



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3.0	Supply, Installation, Fixing, Testing and commissioning (as list attached) of indoor 6.6 kV ICOG HT Floor Mounted, Cubicle Type Transformer Feeder Panel(Panel-1), epoxy powder coated, enclosed with spacious sheet steel enclosure with 01 No. 1250 A VCB, with REF615 relay configured for: inrush detection, non directional earth fault (high & low stage), non directional overcurrent (high & low stage), Buchholz trip/alarm, OTI/WTI trip/alarm, PRV alarm/trip, OLTC Buchholz, oil level low alarm. There should be DC Power Pack in the Panel board to supply DC Supply to the Tripping as well as Closing Circuit including relay as and when required, since no DC source is available in the area. Panel Board should be CPRI Approved having Alluminium Bus Bar as per the rated current, made out of 2 mm (14SWG) good quality Sheet Steel Enclosure along with 7 tank facility powder coated paint of Siemens Grey Colour, the board should be of cubicle pedestal type and mounted on base frame on cable trench. All base frame work is in the scope of Vendor. The panel shall be as per proper IS Standard as directed and as per the instruction of Engineer In-Charge. 1. The panel shall be manufactured such that Vacuum Interrupter, VCB, Numerical Relay & AIS panel shall be of the same make : ABB, Schneider or Siemens. The panel shall be manufactured in OEM's factory ONLY. The panel shall be manufactured as per the specification mentioned in Tender	1	No.	Quoted	Quoted
4.0	Supply, Installation, Fixing, Testing and commissioning (as list attached) of indoor 3.3 kV Floor Mounted Cubicle Type HT Switchgear Panel with 02 Nos. 2000 Amp VCB Panel as I/C, 01 No 2000 Amp VCB Panel as Bus-Coupler and 02 Nos 1250 Amp VCB O/G Transformer Feeder (Panel-2) as per Annexure-I. The panel shall be manufactured such that Vacuum Interrupter, VCB, Numerical Relay & AIS panel shall be of the same make : ABB, Schneider or Siemens. The panel shall be manufactured in OEM's factory ONLY. The panel shall be manufactured as per the specification mentioned in Tender	1	No.	Quoted	Quoted



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5.0	Supply,Laying , Termination, Clamping, Testing and Commissioning (as list attached) of the following size 6.6 KV(UE), XLPE Insulated, Armoured "KEI"/"POLYCAB" Brand stranded compact circular Alluminium Conductor, Conductor Screen with extruded semi conducting Compound, XLPE insulated, Insulation screening with extruded semi compounding compound in combination with copper tape(0.18 kA for 1 Sec), Al round strip Armoured and Overall PVC sheathed CableConforming to IS 7098/ Part-II 1985 with latest amendments with the excavation of the Cable Trenchs and caution it by sand & brick and laying the cable through it from different panels and IsolationTransformers,Termination/Energization/Jointing of Cable For Power Supply to different panels, Isolation Transformers for CPP Power Supply to the 100 TPD M-II including supply and fixing of stainless steel pipe in the road crossing / alluminium/ lead strip number tags for each Cable, supply and applying of fireproofing paint to meet the OISD requirement (for 01 meter length near termination), supply and fixing of GI saddles and saddle bar if required, including transportation from store / yard to site at the place of installation, unpacking including labour and materials as per the approved drawings and directions of the Engineer In-Charge. All materials are in the scope of contractor.				
6.0	Specification: 1C × 630 sqmm, 6.6 kV (UE) XLPE Aluminium Armoured Cable				
7.0	Supply of 1ore HT XLPE 630 sqmm 6.6kV(UE) Al Armoured Cable	1700	mtr	Quoted	Quoted
8.0	Laying of 1ore HT XLPE 630 sqmm 6.6kV(UE) Al Armoured Cable	1700	mtr	Quoted	Quoted
9.0	Supply and Installation End Termination Kit (Heat Shrink)	12	Nos	Quoted	Quoted
10.0	Glanding & Lugging	12	Nos	Quoted	Quoted
11.0	6.6kV(UE) Cable Straight Through Joint Kit(Optional)	4	Nos	Quoted	Quoted
12.0	Specification: 3C × 300 sqmm, 3.3 kV(UE) XLPE insulated Al Cable.				
13.0	Supply of 3C x 300 sqmm 3.3kV Cable	650	mtr	Quoted	Quoted



অসম পেট্র’-কেমিকেলচ লিমিটেড

ASSAM PETRO-CHEMICALS LIMITED

(A Government of Assam Undertaking) | An ISO 9001:2015 Certified Company
CIN- U24116AS1971SGC001339, GSTN: 18AABCA6913A1Z6

Head Office

Namrup, P.O. Parbatpur
District: Dibrugarh, Assam-786623, India

(0374) 2500331/2500217

Email: admin_apl@assampetrochemicals.co.in
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14.0	Laying of 3C x 300 sqmm 3.3kV Cable	650	mtr	Quoted	Quoted
15.0	Supply and Installation End Termination Kit (Heat Shrink)	12	Nos	Quoted	Quoted
16.0	Glanding & Lugging	12	Nos	Quoted	Quoted
17.0	3.3 kV(UE) Cable Straight Through Joint Kit(Optional)	4	Nos	Quoted	Quoted
18.0	Control Cables: Supply, Laying , Termination, Clamping, Testing and Commissioning of "KEI"/"POLYCAB" the following size XLPE Insulated, Armoured LT Alluminium Conductor Main Power Supply Cable 650/1100 Volt Grade as per the IS Standard of latest Amendment with the excavation of the Cable Trenchs and caution it by sand & brick and laying the cable through it from different panels and Isolation Transformers, Termination/Energization/Jointing of Cable For Power Supply to different panels, Isolation Transformers for CPP Power Supply to the APL Township including supply and fixing of stainless steel pipe in the road crossing / alluminium/ lead strip number tags for each Cable, supply and applying of fireproofing paint to meet the OISD requirement (for 01 meter length near termination), supply and fixing of GI saddles and saddle bar if required, including transportation from store / yard to site at the place of installation, unpacking including labour and materials as per the approved drawings and directions of the Engineer In-Charge.				
19.0	Specification: 1.5 sqmm / 2.5 sqmm multi-core FRLS				
20.0	Supply of Control Cable 12 C X 1.5 sqmm	250	mtr	Quoted	Quoted
21.0	Laying (underground/ tray/duct)	250	mtr	Quoted	Quoted
22.0	Termination & Ferruling	1	Lot	Quoted	Quoted
23.0	Supply of Control Cable 5 C X 1.5 sqmm	250	mtr	Quoted	Quoted



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24.0	Laying (underground/ tray/duct)	250	mtr	Quoted	Quoted
25.0	Termination & Ferruling	1	Lot	Quoted	Quoted
26.0	Supply of Control Cable 2 C X 1.5 sqmm	250	mtr	Quoted	Quoted
27.0	Laying (underground/ tray/duct)	250	mtr	Quoted	Quoted
28.0	Termination & Ferruling	1	Lot	Quoted	Quoted
29.0	Cable Tray & Supports Supply and Installing of following size of perforated Hot dipped Galvanised Iron Cable Tray (Galvanised thickness not less than 50 micron) with perforation not more than 17.5%, in convenient sections, joined with connectors over the ground @ minimum height of 01 feet from the ground, along with the wall, suspended from the ceiling with G.I suspenders, including bolts and nuts, painting suspenders as required etc.All the materials including Cable Tray bends,M.S angle,M.S bracket, nut bolt for installing the cable trays are in the scope of vendor.All the materials including supports and clamp are under the scope of the contractor.				
30.0	300 mm width X 50 mm depth X 1.6 mm thickness.	300	mtr	Quoted	Quoted
31.0	Earthing System				
32.0	Supply, installation & testing of G.I. earth station with perforated 40 mm dia and 4.50 Metre long heady duty G.I. pipe with necessary 40 mm dia. G.I. Fittings locking arrangement 300 mmx300 mmx6 mm hinged cover C.I. earth plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall,watering pipe etc. charcoal/coke and salt as required and as specified and directed by the depts . All the materials are under the scope of the contractor.	8	No.	Quoted	Quoted
33.0	Providing and fixing of 50 mm X 5 mm GI strip in 40 mm dia GI pipe from earth electrode including connection with GI nut, bolt, spring washer, excavation and re-filling etc. as required.All the materials are under the scope of the contractor.	150	mtr	Quoted	Quoted



অসম পেট্র’-কেমিকেলচ্ লিমিটেড

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34.0	Supplying and laying of 6 SWG GI wire at 0.5 mtr below ground level for conductor earth electrode, including connection termination with GI thimble etc as required. All the materials are under the scope of the contractor.	200	mtr	Quoted	Quoted
35.0	Providing, Laying and installation of non pressure NP2 class (light duty) RCC Pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete 300 mm dia R.C.C pipe (for cable crossing). All the materials are under the scope of the contractor.	50	Meter	Quoted	Quoted
Total in Figures		Quoted			
Quoted Rate in Words excluding GST		Quoted			

NOTES:

1. Applicable rate of GST to be mentioned by the Bidders

a. IGST _____%

b. CGST _____%

c. SGST _____%

2. Bidder has to submit the above SOR along with Un-Priced Bid specifying in the Rate & Amount column as “QUOTED”. No Price related information is to be submitted in Un-Priced Bid.

Note: 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 above column for GST (CGST & SGST/UTGST or IGST) under such circumstances, bidders price will not be loaded with GST

I. No claim shall be entertained from contractor if the actual quantities or items of work differ from those indicated in SOQ.

II. The quantities of work actually carried out against each item will be measured jointly by APL and authorized person of contractor or contractor himself and paid at the rates quoted in the Schedule of Quantities.

III. The quantities of work actually carried out against each item will be measured jointly by APL and authorized person of contractor or contractor himself and paid at the rates quoted in the Schedule of Quantities.



ANNEXURE-I

PROFORMA FOR CONTRACT AGREEMENT

(To be executed on non judicial stamp paper of value mentioned in the Tender document)

This AGREEMENT is made on the ____ day of _____ Month of ____ Year

BETWEEN

Assam Petro-chemicals Ltd, a company registered under companies Act,1956 have its registered office at Orion Place ,Mahapurush Srimanta sankardev Path, Guwahati and principal place of business at P.O. Parbatpur, Namrup in the District of Dibrugarh, Assam (herein referred to as owner/APL) ", which expression shall unless excluded by or repugnant to the context or meaning thereof be deemed to include its successors and assigns) on the **ONE PART**

AND

_____ hereinafter referred to as "BIDDER", which expression shall unless excluded by or repugnant to the context or meaning thereof be deemed to include its successors and assigns) on the **OTHER PART**.

WITNESSETH THAT

WHEREAS OWNER /APL desires to have works from the aforesaid BIDDER on terms & conditions mentioned in this CONTRACT:

AND WHEREAS BIDDER who has their own know how with resources for Performing such jobs has agreed to sign on works agreement and to render the services as per requirement of APL on Terms and conditions mentioned in this CONTRACT.

NOW Therefore Parties Agree That:

1) The following annexed hereto shall form an integral part of this CONTRACT:

- (i) Work Order No: _____
- (ii) Terms & Conditions of enquiry document.
- (iii) Name of the work _____
- (iv) Work order amount _____
- (v) Scope of work for BIDDER as per CONTRACT.

2) For the scope of WORK as mentioned in the CONTRACT, APL shall pay to

BIDDER lump sum of Rs. _____ (Rupees _____).

3) For the purpose of this CONTRACT address of Parties will be as follows and all correspondence and notices in relation to present agreement sent to PARTIES at the addresses below shall be



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deemed to be sufficient for serving notices on the PARTIES. All Such notices as well as bills, reports, documents etc, shall be addressed to the PARTIES at such addresses.

Notice to One Part/ Owner:

M/s Assam Petro-chemicals Ltd, Orion Place ,Mahapurush
Srimanta , sankardev Path, Guwahati, Pin 781006 Assam

Notice to Other Part/ Bidder:

In WITENESS whereof the PARTIES have executed this CONTRACT through their Representatives duly authorized in this behalf:

Signed for and on behalf of

Assam Petrochemicals Ltd.

SIGNATURE

NAME

DESIGNATION:

PLACE:

DATE:

WITNESS:

Signed for and on behalf of

Bidder

SIGNATURE

NAME

DESIGNATION:

PLACE:

DATE:

WITNESS:



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ANNEXURE-II

BANK GUARANTEE FOR SECURITY / PERFORMANCE GUARANTEE / DEFECT LIABILITY OF THE OBLIGATIONS OF VENDOR / CONTRACTOR

(On non-judicial stamp paper of appropriate value)

To,

ASSAM PETROCHEMICAL LTD.

Orion Place, G.S Road, Bhangagorah,

Guwahati 781005, India

IN CONSIDERATION OF THE ASSAM PETRO-CHEMICAL LTD. a Company registered under the Companies Act 1956, having its registered office at Orion Place, Mahapurush Srimanta Sankardev Path, Bhangagorah, Guwahati 781005, India (hereinafter called "the Corporation" which expression shall include its successors and assigns) having awarded to M/s _____ a partnership firm/sole proprietor business/a company registered under the Companies Act, 1956 having its office at _____ (hereinafter referred to as "the Vendor" which expression shall wherever the subject or context so permits includes its successors and assigns) a supply contract in terms inter alia, of "the Corporation's" Order No. _____ dated _____ and the General purchase conditions of "the Corporation" and upon the condition of "Vendor's" furnishing security for the performance of "the Vendor's" obligations and/or discharge of "the Vendor's" liability under and/or in connection with the said supply contract upto a sum of R _____ (Rupees _____) amounting to 10% (ten percent) of the total order / contract value.

We, _____ (hereinafter called "the Bank" which expression shall include its successors and assigns) hereby jointly and severally undertake and guarantee to pay to "the Corporation" in rupees forthwith on demand in writing and without protest or demur of



অসম পেট্র’-কেমিকেলচ্ লিমিটেড

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any and all moneys anywise payable by "the Vendor" to "the Corporation" under, in respect of or in connection with the said supply contract inclusive of all the Corporation's losses and damage and costs, (inclusive between attorney and client) charges, and expenses and other moneys anywise payable in respect of the above as specified in any notice of demand made by "the Corporation" to the Bank with reference to this Guarantee upto and aggregate limit of R _____ (Rupees _____) and "the Bank" hereby agrees with "the Corporation" that:

1. This Guarantee/Undertaking shall be a continuing Guarantee / Undertaking and shall remain valid and irrecoverable for all claims of "the Corporation" and liabilities of "the Vendor" arising upto and until midnight of _____
2. This Guarantee/Undertaking shall be in addition to any other guarantee or security whatsoever that "the Corporation" may now or any time anywise have in relation to "the Vendor's obligation/liabilities under and/or connection with the said supply contract, and "the Corporation" shall have full authority to take recourse to or enforce this security in preference to the other security(ies) at its sole discretion and no failure on the part of "the Corporation" to enforcing or requiring enforcement to any other security shall have the effect of releasing "the Bank" from its full liability hereunder.
3. "The Corporation" shall be at liberty without reference to "the Bank" and without affecting the full liability of "the Bank" hereunder to take any other security in respect of "the Vendor's" obligation and/or liabilities under or in connection with the said supply contract and to vary the term vis-a-vis "the Vendor" of the said supply contract or to grant time and/or indulgence to "the Vendor" or to reduce or to increase or otherwise vary the prices of the total contract value or to release or to forebear from enforcement of all or any of the obligations of "the Vendor" under the said supply contract and/or the remedies of "the Corporation" under any other security(ies) now or hereafter held by "the Corporation" and no such dealing(s), variation(s) or other indulgence(s) or agreement(s) with "the Vendor" or release of forbearance whatsoever shall have the effect of releasing "the Bank" from its full liability to "the Corporation" hereunder or of prejudicing rights of "the Corporation" against "the Bank".
4. This Guarantee/Undertaking shall not be determined or affected by the liquidation or winding up, dissolution or change of constitution or insolvency of "the Vendor" but shall in



অসম পেট্র’-কেমিকেলচ্ লিমিটেড

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all respects and for all purposes be binding and operative until payment of all moneys payable to "the Corporation" in terms hereof.

5. "The Bank" hereby waives all rights at any time inconsistent with the terms of this Guarantee/Undertaking and the obligations of "the Bank" in terms hereof shall not be anyway affected or suspended by reason of any dispute having been raised by "the Vendors" (whether or not pending before any arbitrator, officer, tribunal or court) or any denial of liability by "the Vendor" or any other order of communication whatsoever by "the Vendor" stopping or preventing or purporting to stop or prevent any payment by "the Bank" to "the Corporation" in terms hereof.

6. The amount stated in any notice of demand addressed by "the Corporation" to "the Bank" as liable to be paid to "the Corporation" by "the Vendor" or as suffered or incurred by "the Corporation" on account of any losses or damages or costs, charges/and/or expenses shall be as between "the Bank" and "the Corporation" be conclusive of the amount so liable to be paid to "the Corporation" or suffered or incurred by "the Corporation", as the case may be, and payable by "the Bank" to "the Corporation", in terms hereof.

7. Notwithstanding anything contained herein above: i) Our liability under this guarantee shall not exceed Rs..... ii) This Bank Guarantee shall be valid upto and including; and iii) 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 the expiry of 30 days from the date of expiry of this guarantee.

8. "The Bank" has power to issue this guarantee in favour of "the Corporation" in terms of the documents and/or the agreement/contract or MOU entered into between "the Vendor" and "the Bank" in this regard.

IN WITNESS Where of _____ Bank, has executed this document at _____ on _____ Bank

(by its constituted attorney)

(signature of a person authorized to sign on behalf of "the Bank.



Annexure III

PROFORMA FOR EMD

In consideration of Assam Petrochemicals Limited, having its Registered Office at Orion Place, 4th floor, G.S. Road, Guwahati-5, Assam, India (hereinafter called ‘ the Owner’ which expression shall unless repugnant to the subject or context includes its successors and assigns) having agreed to exempt M/s (Hereinafter called ‘the said Tenderer(s)’ which expression shall unless repugnant to the subject or context includes his successors and assigns) from the demand under the terms and conditions of tender no. for hereinafter called ‘the said Tender’ of such earnest money deposit for the due fulfillment by the said Tenderer(s) of the terms and conditions contained in the said tender..... foron production of bank guarantee for an amount of Rs. only.

We Bank hereinafter referred to as ‘the bank’ do hereby undertake to pay to the owner and amount not exceeding Rs. only against any loss or damage caused to or suffered or would be caused to or suffered by the said owner by reason of any breach by the said Tenderer(s) of any of the terms and conditions contained in the said tender (the decision of the owner as to any such breach having been committed and loss suffered shall be binding on us).

1.We..... Bank do hereby undertake to pay the amounts due and payable under this guarantee without any demur merely on a demand from the owner stating that the amount claimed is due by way of loss or damage caused to or would cause to or suffered by the owner by reason of any breach by the said Tenderer(s) of any of the terms and conditions contained in the said tender or by reason of the said Tenderer’s failure to keep the tender open. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. only.

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অসম পেট্র’-কেমিকেলচ্ লিমিটেড

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2. We..... Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the finalization of the said tender and that it shall continue to be enforceable till the said tender is finally decided and order placed on the successful tenderer(s) and/or till all the dues of the owner under/or by virtue of the said tender have been fully paid and its claims satisfied or discharged or till a duly authorised officer, of the owner certifies that the terms and conditions of the said tender have been fully and properly carried out by the said Tenderer(s) and accordingly discharges the guarantee. Above provisions are applicable subject to validity mentioned in para 4 (b).

3. We _____ Bank undertake not to revoke this guarantee during the currency except with the previous consent of the Owner in writing. Upon expiration of this Guarantee, this document is to be returned to the Bank for cancellation.

4. NOTWITHSTANDING anything contained hereinabove,

a. Our liability under this guarantee shall be restricted to an amount of Rs. only.

b. This guarantee shall be valid upto _____.

c. The Bank shall be released and discharged from all liability under this guarantee unless a written claim or demand is received by the Bank on or before _____.

The Bank hereby declares that it has the power to issue this guarantee and the undersigned has fully power to do so.

dated..... day of..... 20.....

Corporate seal for bank



ANNEXURE-IV

INTEGRITY PACT

BETWEEN

**Assam Petro-Chemicals Ltd., hereinafter referred to as "The Principal",
AND**

**..... hereinafter referred to as "The
Bidder / 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 and Bidder/s.

In order to achieve these goals, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 -Commitments of the Principal

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

- a) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
- b) The Principal will, during the tender process treat all Bidders- with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential / additional information through which the Bidder could obtain an advantage in relation to the tender process or the tender execution.
- c) 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 IPC / PC Act, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder / Bidder



অসম পেট্র’-কেমিকেলচ্ লিমিটেড

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

a) The Bidder / 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 the execution of the contract.

b) The Bidder / 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.

c) The Bidder / Bidder will not commit any offence under the IPC / PC Act; further the Bidder / Contactor 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

d) The Bidder / 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.

(2) The Bidder / Bidder will not instigate third persons to commit offences outlined above or be an accessory to such offences.

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

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

(1) If the Bidder / Bidder have 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 / 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 transgressors within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.

(2) The Bidder accepts and undertakes to respect and uphold the Principal's absolute right to resort to and impose such exclusion



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- (3) Apart from the above, the Principal may take action for banning of business dealings / holiday listing of the Bidder as deemed fit by the Principal.
- (4) If the Bidder / 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.
- (5) A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.

Section 4 - Compensation for Damages

1) Without prejudice to any rights that may be available to the Principal under law or the Contract or its established policies and laid down procedures, the Principal / Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder/ Bidders): Forfeiture of EMD / Security Deposit: If the Principal has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated the Contract or has accrued the right to terminate the Contract according to Section 3, the Principal apart from exercising any legal rights that may have accrued to the Principal, may in its considered opinion forfeit the Earnest Money Deposit / Bid-Security amount of the Bidder / Bidder.

(2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Bidder liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit / Performance Bank Guarantee, whichever is higher.

(3) The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder / Bidder can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount of the liquidated damages, the Bidder / 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 transgressions occurred in the last 3 years with any other Company in any country conforming to or with any other Public Section Enterprise in India that could justify his exclusion from the tender process.

(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can" be terminated for such reason.

(3) If the Bidder / Bidder can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal may, at its own discretion as per laid down organizational procedures, revoke the exclusion prematurely.

Section 6 - Equal treatment of all Bidders / Bidders / Sub-Bidders

(1) The Bidder / Bidder undertake to demand from all sub bidders a commitment in conformity with this Integrity Pact. The Bidder / Bidder shall be responsible for any violation(s) of the principles laid down in this agreement / Pact by any of its Sub bidders / Sub-vendors.



- (2) The Principal will enter into agreements with identical conditions as this one with all Bidders and Bidders.
- (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 / Bidders / Sub- Bidders

If the Principal obtains knowledge of conduct of a Bidder, Bidder or Sub-Bidder or of an employee or a representative or an associate of a Bidder, Bidder or Sub-Bidder which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will report to appropriate authority in this regards.

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

(1) The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

(2) The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently.

(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 Sub-bidders. The Monitor is under contractual obligation to treat the information and documents of the Bidder / Bidder / Sub-contractor with confidentiality.

(4) In case of tenders having an estimated value of Rs.100 Crore, 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.

(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 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.

(6) The Monitor will submit a written report to the CEO of the Principal within 2 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 CEO of the Principal substantiated suspicion of an offence under the IPC / PC Act and the CEO has not, within reasonable time, taken visible



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CIN- U24116AS1971SGC001339, GSTN: 18AABCA6913A1Z6

Head Office

Namrup, P.O. Parbatpur
District: Dibrugarh, Assam-786623, India

(0374) 2500331/2500217

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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.

Section 9 – Pact Duration

This Pact begins when both the parties have legally signed it. It expires for the Bidder / Bidder 12 months after the completion of work under Contract or till the continuation of guarantee period, whichever is more and for all other bidders, till the contract is awarded.

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

Section 10 - Other Provisions

1) This agreement is subject to Indian as well as state of Assam local laws. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. Guwahati.

2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

3) If the Bidder is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

4) Should one or several provision of this agreement turn out to be invalid the remainder of this agreement remains valid. In this the parties will strive to come to an agreement to their original intentions.

FOR THE PRINCIPAL

FOR THE BIDDER/BIDDER

WITNESS 1

WITNESS 2

Place : _____

Date : _____



PROPOSAL EXHIBITS

TABLE OF CONTENTS

1. BIDDER’S GENERAL INFORMATION
2. AGREED TERMS AND CONDITIONS
3. NO DEVIATION CONFIRMATION
4. UNDERTAKING
5. CHECKLIST
6. LETTER OF AUTHORITY

Note: 1. **All proposal exhibits must be duly filled & signed by the contractor without exception in token of acceptance and must bear his seal. Separate pages may be appended if necessary and should be documented / listed in the enclosed proposal exhibits. Necessary testimonials and documents in support of the proposal exhibits should be enclosed wherever necessary.**



Annexure V

BIDDER'S GENERAL INFORMATION

To

M/s ASSAM PETROCHEMICALS LIMITED

Tender Title- “Replacement of Power Supply Arrangement to 430 V PCC Panel of 100 TPD M-II Plant – Migrations from ASEB & 1000 KVA STG to 11 MW CPP (HT-201, Panel-24)” AT APL NAMRUP

TENDER NO: APL/C&P/ ELECT/2026-27/648

1	Bidder Name (With Contact Person Name &Details)	
2	Status of Firm	Proprietorship Firm / Partnership firm / Limited / Others If Others Specify: _____ [Enclose
3	Name of Proprietor / Partners / Directors of the firm / company	
4	Number of Years in Operation	
5	Address of Registered Office: *In case of Partnership firm, enclose letter mentioning current address of the firm and the full names and current addresses of all the partners of the firm.	City: District: State: PIN/ZIP:
6	Operation Address (if different from above)	City: District: State: PIN/ZIP:
8	Telephone Number [Mobile & Landline]	(Country Code) (AreaCode) (TelephoneNo.)
9	E-mail address	



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Head Office

Namrup, P.O. Parbatpur
District: Dibrugarh, Assam-786623, India

(0374) 2500331/2500217

Email: admin_apl@assampetrochemicals.co.in
Web: www.assampetrochemicals.co.in

10	Website	
11	Fax Number:	(Country Code) (AreaCode) (TelephoneNo.)
12	ISO Certification, if any	{If yes, please furnish details}
13	Bid Currency	
14	Banker’sName	
15	Branch	
17	Bank account number	
18	PAN No.	[Enclose copy of PAN Card]
19	GSTNo.	[Enclose copy of GST Registration Certificate]
20	We (Bidder) are cover under the definition of section 2 (n) of the MSMED Act	Yes/No (If the response to the above is ‘Yes’, Bidder to provide Purchaser a copy of the Entrepreneurs Memorandum (EM) filled with the authority specified by the respective State Government.)
21	Whether Micro / Small Enterprise	(Bidder to submit documents as specified in ITB)
22	Type of Micro / Small Enterprise	General / SC / ST (Bidder will submit documentary evidence for the same).
23	Type of Entity	Corporate / Non-Corporate (As per Service tax Act). (In case of Non-Corporate Entity, bidder will submit documentary evidence for same).

Place

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:



Annexure VI

AGREED TERMS & CONDITIONS

To

M/s ASSAM PETROCHEMICALS LIMITED

Tender Title- “Replacement of Power Supply Arrangement to 430 V PCC Panel of 100 TPD M-II Plant – Migrations from ASEB & 1000 KVA STG to 11 MW CPP (HT-201, Panel-24)” AT APL NAMRUP

TENDER NO: APL/C&P/ ELECT/2026-27/648

This Questionnaire duly filled in, signed & stamped must form part of Bidder’s Bid and should be returned along with Un-priced Bid. Clauses confirmed hereunder need not be repeated in the Bid.

Sl.	DESCRIPTION	BIDDER’S CONFIRMATION
1	Bidder's name and address	
2.	Please confirm the currency of quoted prices is in Indian Rupees.	
3.	Confirm quoted prices will remain firm and fixed till complete execution of the order.	
4	Rate of applicable GST	
a	Applicable GST is	CGST+SGST/IGST (Please tick as applicable)
b	CGST+SGST	% age
c	IGST	



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d	Cess (if any)	% age
e	Service Accounting Codes (SAC) has been submitted and mentioned in un-priced SOR	
5.	i) Confirm acceptance of relevant Terms of Payment specified in the Bid Document. ii) In case of delay, the bills shall be submitted after deducting the price reduction due to delay.	
6.	Confirm that Contract Performance Bank Guarantee will be furnished as per Bid Document.	
7.	Confirm that Contract Performance Bank Guarantee shall be from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve bank of India as scheduled foreign bank. However, in case of bank guarantees from banks other than the Nationalized Indian banks, the bank must be a commercial bank having net worth in excess of Rs.100 crores and a declaration to this effect shall be made by such commercial bank either in the Bank Guarantee itself or separately on its letter head.	
8.	Confirm compliance to Completion Schedule as specified in Bid document. Confirm contract period shall be reckoned from the date of Fax of Intent / Letter of Intent.	
9.	Confirm acceptance of Price Reduction Schedule for delay in completion schedule specified in Bid document.	
10.	a) Confirm acceptance of all terms and conditions of Bid Document (all sections). b) Confirm that printed terms and conditions of bidder are not applicable.	
11.	Confirm your offer is valid for 06 months from Final / Extended due date of opening of Techno-commercial Bids.	
12.	Please furnish EMD / Bid Security details: a) EMD/Bid Security No. & date b) Value c) Validity	



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13.	Confirm acceptance to all provisions of ITB read in conjunction with Bid Data Sheet (BDS).	
14.	Confirm that Annual Reports for the last three financial years are furnished along with the Un-priced Bid.	
15.	Confirm that, in case of contradiction between the confirmations provided in this format and terms & conditions mentioned else where in the offer, the confirmations given in this format shall prevail.	
16.	Confirm that none of Directors of bidder is a relative of any Director of Owner or the bidder is a firm in which any Director of Owner/ APL or his relative is a partner.	
17.	All correspondence must be in ENGLISH language only.	
18.	Owner reserves the right to make any change in the terms & conditions of the TENDER/BIDDING DOCUMENT and to reject any or all bids.	
19.	Confirm that all Bank charges associated with Bidder’s Bank shall be borne by Bidder.	
20.	Confirm acceptance of Anti profiteering clause no.171of GST Act.	
21.	a) Whether bidder falls under MSE Act.	

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal



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Annexure VII

“NO DEVIATION” CONFIRMATION

To

M/s ASSAM PETROCHEMICALS LIMITED

Tender Title- “Replacement of Power Supply Arrangement to 430 V PCC Panel of 100 TPD M-II Plant – Migrations from ASEB & 1000 KVA STG to 11 MW CPP (HT-201, Panel-24)” AT APL NAMRUP

TENDER NO: APL/C&P/ ELECT/2026-27/648

Dear Sir,

We understand that any 'deviation / exception' in any form may result in rejection of Bid. We therefore, certify that we have not taken any 'exception/deviation' anywhere in the Bid and we agree that if any' deviation/exception 'is mentioned or noticed, our Bid may be rejected.

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal



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Annexure VIII

UNDERTAKING (IN LETTER HEAD)

Tender Title- “Replacement of Power Supply Arrangement to 430 V PCC Panel of 100 TPD M-II Plant – Migrations from ASEB & 1000 KVA STG to 11 MW CPP (HT-201, Panel-24)” AT APL NAMRUP

TENDER NO: APL/C&P/ ELECT/2026-27/648

We solemnly declare that we have never initiated or filed any case/ litigation for any reason against M/s Assam Petro-Chemicals Limited/ Management/ Officials and if so we would be barred from participating in the tender process of the company.

1. We understand that we are fully responsible for the contents of this undertaking and its truthfulness.
2. The above statements have been made by us voluntarily which are true to the best of knowledge and belief. We hereby put our signature with full sound mind and without any force or coercion upon us on the date month and year mentioned herein before.

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal



Annexure IX

CHECKLIST of Documents required to be submitted with Technical (Un-priced) Bid

Please tick (✓) in the CHECK BOX

SL. NO.	DESCRIPTION	CHECK BOX
1.	Signed Tender Documents	
2.	EMD of required amount / MSME certificate	
3.	Work orders & completion certificates to comply the Bidder’s qualification criteria.	
4.	Copy of PAN card, GST registration, EPF registration	
5.	Cancelled Bank Cheque	
6.	Filled up Proposal Exhibits	
7.	Applicable Rate of GST in SOR (Annexure – IV)	
8.	Copies of Audited Balance Sheet and Profit & Loss Account for FY 2024-25 , 2023-24 & 2022-2023.	
9.	Copies of Income Tax Return for FY 2024-25, 2023-24 & 2022-2023.	

SEAL OF BIDDER

SIGNATURE OF BIDDER



Annexure - X

LETTER OF AUTHORITY

[Pro forma for Letter of Authority for Attending Subsequent 'Negotiations' / 'Pre-Bid Meetings'/'Un-priced Bid Opening'/'Price Bid Opening']

Ref:

Date:

To

M/s ASSAM PETROCHEMICALS LIMITED

Tender Title- "Replacement of Power Supply Arrangement to 430 V PCC Panel of 100 TPD M-II Plant – Migrations from ASEB & 1000 KVA STG to 11 MW CPP (HT-201, Panel-24)" AT APL NAMRUP

TENDER NO: APL/C&P/ ELECT/2026-27/648

Dear Sir,

I/We, _____ hereby authorize the following representative(s) for attending any 'Negotiations' / 'Meetings [Pre-Bid Meeting]', 'Un-priced Bid Opening', 'Price Bid Opening' and for any subsequent correspondence / communication against the above Bidding Documents:

(1) Name & Designation _____ Signature _____

Phone / Cell:

Fax:

E-mail: @.....

(2) Name & Designation _____ Signature _____

Phone / Cell:

Fax:

E-mail: @.....

We confirm that we shall be bound by all commitments made by aforementioned authorised representative(s).

Place:

[Signature of Authorized Signatory of Bidder]

Date:

Name:

Designation:

Seal:

Note: This "**Letter of Authority**" should be on the "**letterhead**" of the Firm / Bidder and should be signed by a person competent and having the '**Power of Attorney**' to bind the Bidder. Not more than 'two [02] persons per Bidder' are permitted to attend "Techno-commercial / Un-priced" & "Price Bid" Openings. Bidders authorized representative is required to carry a copy of this authority letter while attending the un-priced and priced bid opening, the same shall be submitted to APL.



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