



**TRANSFORMERS AND ELECTRICALS KERALA LTD
(A JOINT VENTURE OF GOVT. OF KERALA & NTPC LTD)
ANGAMALY SOUTH PO, ERANAKULAM DIST, KERALA, INDIA. PIN - 683 573**

NOTICE INVITING TENDERS (NIT)

BID DOCUMENT No. : TELK/C AND M/ED/VPD/277/2021

We are pleased to invite competitive tenders in two cover system through Kerala Government e-tender portal <https://etenders.kerala.gov.in> for “**DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT**” strictly as per the Enquiry Letter, Specification No. TELK/VPD/2020R0, Pre-Qualification Requirements (PQR) and Tender Terms & Conditions enclosed.

Bid Synopsis

1. Name and Address of Company/Owner : Transformers and Electricals Kerala Ltd
Angamaly South. P. O, Ernakulam Dist.
Kerala State, India, PIN-683573
2. Scope of Work : Design, Engineering, Manufacturing, Supply,
Erection, Testing & Commissioning of Vapour Phase
Drying Plant complying as per Specification No.
TELK/VPD/2020 R0 & Tender Terms & Conditions.
3. Quantity : 1 SET.
4. Location. : Angamaly, Ernakulam (District), Kerala State, India.
5. Nearest Airport : Cochin International Airport Ltd. (CIAL)
6. Accessibility : Site is accessible by road, rail & air.
7. Tender Fee (non-refundable) : **25,000.00 INR or equivalent foreign currency(*)**
8. EMD : **10,00,000.00 INR or equivalent foreign currency(*)**
9. Performance Bank Guarantee : **Refer clause No. 4.19 of Annexure – 3.**
10. Contractual Delivery Period : 12 months from the date of award of contract.
(Refer Clause No. 4.21 of Annexure-3).
11. Tender documents issuing & receiving authority : Deputy General Manger (C&M),
TELK, Angamaly South P.O.
Ernakulam Dist. Kerala, India, PIN- 683573.

(*)Tender fee and EMD shall be paid in INR by electronic transfer only through the e-tender portal by vendors of Indian origin. An amount of equivalent foreign currency shall be transferred to the specified account of TELK, Angamaly (refer Appendix-1 for the details of the bank account) through swift transfer by vendors of foreign origin. Foreign bidders shall upload the transaction slip of such payments made along with the techno-commercial bid under Cover-1. Payment of tender fee and EMD by any other means of transaction is not acceptable and is liable to be rejected.





12. Last date and time for submission of Bids : 11/02/2022. Time up to 4.00 P.M.
13. Date and Time of Techno-Commercial Bid opening : 14/02/2022. Time at 11.00 A.M.
14. Bid Validity : 180 Days (Refer clause 2.16 of Annexure-3)

Following are the tender documents:

Cover-I

- a. NIT (NOTICE INVITING TENDERS).
- b. Enquiry Letter No. CPTL/21/071 dated 09/12/2021.
- c. Annexure-1: Specification No. TELK/VPD/2020 R0.
- d. Annexure-2 : Pre-Qualification Requirements (PQR) to bid document No. TELK/C AND M/ED/VPD/277/2021.
- e. Annexure – 3 : Tender Terms & Conditions.
- e. Annexure – 4 : Specimen format for Bill of Quantity (BOQ).
- f. Annexure – 5 : Layout drawing.
- g. Appendix-1 : Owner's bank details for swift transfer of EMD & tender fee in foreign currency. This facility is provided only for the foreign bidders. EMD and tender fee in "INR" shall be transferred only through the e-tender portal.
- h. Appendix-2 : Format for Bidders authorization certificate
- i. Appendix-3 : Format for authorization certificate by the Principal company.
- j. Appendix-4 : Format for self declaration.

Cover –II

- a. (BOQ) Bill of Quantity (Price Bid) to bid document No. **TELK/C AND M/ED/VPD/277/2021** (Annexure- 4).

NOTES:

- 1) Basic prices (without taxes, duties etc) shall only be quoted in the BOQ against the appropriate column. Applicable GST in India (in %) may be entered by the bidders of Indian origin wherever applicable. In the case of vendors of foreign origin for supply involving imported goods from foreign countries, the applicable Customs Duty, Surcharges, GST in India, other taxes and levies if any as per the prevailing statutory rules in India will be considered for the financial evaluation of the bids. Considering the above, separate column for Customs Duty & Surcharges were not provided in the BOQ. Bidders may furnish the above details separately along with the un-priced commercial terms & conditions. Please refer to the clause Nos. 2.8, 2.9, 4.20 of the Annexure-3 before quoting. Please ask if in doubt.
- 2) Following options are provided in the BOQ for submitting the quotes by vendors inside India and outside India for supply part and erection, testing & commissioning part separately. Options are given expecting participation from (i) vendors of sole foreign origin for the entire supply part and erection, testing & commissioning part in foreign currency (ii) vendors inside India for the entire supply part and erection, testing & commissioning part in INR (iii) vendors inside India offering supply parts in both foreign currency (parts imported from foreign countries) and INR (parts supplied from India) and erection, testing & commissioning part in INR or in foreign currency as applicable.





2.1) Option 1(a) & 1(b) are intended for vendors of sole foreign origin :

- Option -1(a): Vendors outside India may quote here against Sl.No.1.11 of the BOQ, the lump sum price in Foreign Currency for the supply part (supplied from outside India) of the VPD plant.
- Option -1(b) : Vendors outside India may quote here against Sl.No.1.12 of the BOQ, the lump sum price in Foreign Currency for the erection, testing & commissioning part of the VPD plant.
(The Foreign Currencies available in the e-tender portal are USD/EURO/JPY/CHF/GBP/AUD and vendors shall select the appropriate foreign currency from the portal while quoting the amount).

2.2) Option 2(a) & 2(b) are intended for vendors of sole Indian origin :

- Option -2(a) : Vendors inside India may quote here against Sl.No.1.21 of the BOQ, the lump sum price in INR for the supply part of the VPD plant.
- Option -2(b) : Vendors inside India may quote here against Sl.No.1.22 of the BOQ, the lump sum price in INR for the erection, testing & commissioning part of the VPD plant.

2.3) Option 3(a), 3(b), 3(c) & 3(d) are intended for those vendors who propose to Supply parts from countries outside India as well as from inside India, quote Erection, testing & commissioning price in INR and quote for any other activities (supervision, training, etc) as part of the Erection, Testing & Commissioning in Foreign Currency.

- Option - 3(a) : Vendors inside India may quote here against Sl.No.1.31 of the BOQ, the lump sum price in Foreign Currency for the Supply part of the VPD plant supplied from outside India.
- Option - 3(b) : Vendors inside India may quote here against Sl.No.1.32 of the BOQ, the lump sum price in INR for the Supply part of the VPD plant supplied from inside India.
- Option - 3(c) : Vendors inside India may quote here against Sl.No.1.33 of the BOQ, the lump sum price in INR for the Erection, Testing & Commissioning part of the VPD plant.
- Option - 3(d) : Vendors inside India may quote here against Sl.No.1.34 of the BOQ, the lump sum price in Foreign Currency for those activities of part of the Erection, Testing, & Commissioning, Supervision, Training etc of the VPD plant to be rendered by the foreign agency if any.

3) Sl. Nos. 2.0, 3.0 & 4.0 of the BOQ are mandatory for all the vendors :

Sl.No.2.0 : Vendors may quote here against Sl.No.2.0 of the BOQ, the **lump sum price per year** (service charges only) in INR for the Annual Maintenance Contract of the VPD plant during the three years additional warranty period after the completion of the two years warranty period specified. (AMC is not allowed directly for the foreign parties as per the pre-qualifying requirements of the tender).

The total amount for a period of 3 years (quoted price x 3) will be considered for the financial evaluation of the bid. Vendors may go through the clause Nos. 22.0, 13.0 & 25.0 of the technical specification and clause Nos.4.28 & 4.30 of the tender terms & conditions before quoting.

Sl.No.3.0 : Vendors may quote here against Sl.No.3.0 of the BOQ, the lump sum price towards the cost of recommended spares during the three years additional warranty period. Quote shall be in INR (for vendors inside India) or Foreign Currency (for vendors outside India).



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This amount will not be considered for the financial evaluation of the bid. List of the recommended spares with quantity and individual prices shall be furnished as a separate PDF document and shall be uploaded in the portal along with the techno-commercial bid under Cover-1. Vendors may go through clause Nos. 22.0, 13.0 & 25.0 of the technical specification and clause Nos.4.28 & 4.30 of the tender terms & conditions before quoting.

Sl.No.4.0 : Vendors may quote here against Sl.No.4.0 of the BOQ, the lump sum price for supply of dry vacuum pumps as an optional item as per the clause No. 4.3.2 of the technical specification if applicable. Quote shall be in INR (for vendors inside India) or Foreign Currency (for vendors outside India).

This amount also will not be considered for the financial evaluation of the bid. Quantity and other details of the pumps shall be furnished as a separate PDF document and shall be uploaded in the portal along with the techno-commercial bid under Cover-1.

4) Sl.No.5.0 the BOQ is provided for quoting towards any other items/scope of work which were not included in the above categories or deemed necessary for the fulfillment of the project and may be used only if applicable.

Sl.No.5.0 : Vendors may quote here against Sl.No.5.0 of the BOQ, the lump sum price for other items/scope of work (if any) which were not included in the above category or deemed necessary for the fulfillment of the project. Quote shall be in INR (for vendors inside India) or Foreign Currency (for vendors outside India). Details/list of such items/scope of work shall be furnished as a separate PDF document with necessary bifurcation of prices and shall be uploaded in the portal along with the techno-commercial bid under Cover-1. **This amount will be considered for the financial evaluation of the bid only if the vendor confirms that those items are absolutely essential for the fulfillment of the project.**

- 5) For evaluation of bids in foreign currency, the exchange rates (TT selling rate of State Bank of India) as on the scheduled date of techno-commercial bid opening will be considered.
- 6) Only those bids which qualify the pre-qualifying requirements and techno-commercial evaluation will only be considered for the price bid opening. Refer Clause No. 2.9 of Annexure-3.
- 7) Un-priced commercial terms & conditions shall be furnished as a separate document and may be uploaded along with the technical bid under Cover-1.
- 8) Techno-commercial deviations (if any) from the technical specifications and other terms & conditions shall be furnished as a separate document and shall be uploaded along with the techno-commercial bid under Cover-1.
- 9) Pre-bid discussions, clarifications, factory visit etc if required shall be completed by the bidders well before the due date.

Yours Faithfully,

For Transformers and Electricals Ltd Kerala



Angamaly,
09/12/2021

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DEPUTY GENERAL MANAGER (C&M)

REVIEWED

TRANSFORMERS AND ELECTRICALS KERALA LIMITED
Angamally South P.O
Ernakulam District
Kerala - 683573.

FORM NO. MT-024

Phone : 0484-2510251
Fax : 0484 2458995

ENQUIRY LETTER

Ref. : PUR/CPTL/21/071

Page : 1
Date : 09/12/2021

PR No.: ED/71/Z

Dear Sirs,

Tenders are invited through E-Procurement for supply of following materials.
Please offer your rates for the supply of the same on or before 11/02/2022.

Sl No	Itemcode	Description & Specification	UOM	Quantity Required	Delivery Before	Delivery Quantity
1	860000368	VPD AS PER TELK/VPD/2020R0 DESIGN,SUPPLY,ERECTION & COMMISSIONING OF VPD PLANT AS PER APPROVED SPEC. NO. TELK/VPD/2020R0	NO	1.000	01/10/2022	1.000 *

te. * Shows tentative delivery date/quantity which are likely to vary.

- Prices : Price should be quoted for delivery of materials at our Stores, Angamally / F.O.R. Angamally.
2. Taxes : If any tax has to be paid extra, this and the rate of tax should be specified clearly in your offer.
3. Delivery : Delivery is required as above.
4. Validity : The offer should be valid for minimum period of 180 days from the date of opening of tender.
5. LD : Liquidated Damages will be levied for any delay from the contractual delivery period specified in the purchase order at 0.5% of the total basic order/contract value per week subject to a maximum of 5%.

Note : Rates should be offered in the attached BOQ sheet

Superscribed Tender No. : CPTL/21/071
Due on : 11/02/2022
Offer not furnished in attached BOQ sheet and that received after the due date will be rejected.

Yours faithfully,

DEPUTY GENERAL MANAGER
(MATERIALS)

Note: Copy(ies) of drawing(s)/material standard/sketch is/are enclosed/available with you.


REVIEWED



TRANSFORMERS AND ELECTRICALS KERALA LIMITED
Angamally South P.O
Ernakulam District
Kerala - 683573.

Phone :0484-2510251
Fax :0484-2458995


ANNEXURE TO ENQUIRY LETTER

Ref. : PUR/CPTL/21/071

Page : 1

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- 1) THE FOLLOWING TENDER DOCUMENTS ARE APPLICABLE FOR THE "DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT". THE BIDDERS SHALL THOROUGHLY GO THROUGH ALL THE TENDER DOCUMENTS AND FOOT NOTES IN THE NOTICE INVITING TENDERS BEFORE SUBMITTING THE QUOTE.
 - 1.1) NOTICE INVITING TENDERS (NIT).
 - 1.2) ENQUIRY LETTER NO.CPTL/21/071 DATED 09/12/2021.
 - 1.3) ENQUIRY ANNEXURE.
 - 1.4) TECHNICAL SPECIFICATION NO.TELK/VPD/2020R0 - (ANNEXURE-1).
 - 1.5) PRE-QUALIFICATION REQUIREMENTS (PQR) - (ANNEXURE-2).
 - 1.6) TENDER TERMS & CONDITIONS - (ANNEXURE-3).
 - 1.7) SPECIMEN FORMAT FOR BILL OF QUANTITY (BOQ). THIS IS ONLY FOR THE REFERENCE PURPOSE AND PREPARING THE QUOTE FOR THE TENDER. PRICES SHALL BE QUOTED ONLY THROUGH THE E-TENDER PORTAL.
 - 1.8) LAYOUT DRAWING.
 - 1.9) OWNER'S (TELK) BANK DETAILS FOR SWIFT TRANSFER OF EMD & TENDER FEE IN FOREIGN CURRENCY. THIS FACILITY IS PROVIDED ONLY FOR THE FOREIGN BIDDERS. EMD AND TENDER FEE IN "INR" SHALL BE TRANSFERRED ONLY THROUGH THE E-TENDER PORTAL.
 - 1.10) FORMAT FOR BIDDERS AUTHORIZATION CERTIFICATE.
 - 1.11) FORMAT FOR AUTHORIZATION CERTIFICATE BY THE PRINCIPAL COMPANY.
 - 1.12) FORMAT FOR SELF DECLARATION.
 - 2) THE UN-PRICED TECHNO-COMMERCIAL CHECKLIST ENCLOSED WITH THE TENDER DOCUMENTS MAY ALSO BE FILLED UP AND SUBMITTED FOR OUR REFERENCE.




DEPUTY GENERAL MANAGER (MATERIALS)


REVIEWED

TELK ANGAMALLY		Spec. NO. TELKNVPD/2020 R0		
SPECIFICATION CUM COMPLIANCE CERTIFICATE OF VAPOUR PHASE PLANT				
NOTE				
1	Vendor must submit complete information against clause No. 24 (Qualifying condition). The offer meeting this clause only would be considered for evaluation.			
2	The offer and all documents enclosed with offer should be in English language only / with English translation.			
	NAME & ADDRESS OF THE SUPPLIER			
	TELEPHONE NOS.			
	FAX NOS.			
	E-MAIL ADDRESS			
	SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW			
S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
1.0	SCOPE OF WORK:			
1.1	The scope of work shall include design, engineering, manufacturing, supply, installation, testing and commissioning of Vapour Phase Drying plant in line with the specification given below. The plant / system is to be designed as per the best engineering practices and to the entire satisfaction of TELK. The scope also includes supply of solvent, thermic fluid, lubricants, hydraulic oil etc. for first filling & additional 10% extra.	Vendor to confirm		
1.2	Equipment & components involved, material of manufacturing / fabrication shall be of best quality meeting the relevant international / Indian standards. Method of installation & testing and type of controls shall be in accordance with good engineering practice. The technical specifications given are indicative only and the Vendor should follow best practice and standards to ensure that the plant is complete in all respect with all control & instrumentation, interlocks & protection device etc. The plant shall provide higher level of availability and shall be reliable for continuous operation ensuring best quality of drying in shortest period. All necessary measures to be incorporated towards the safety of operator & plant.	Vendor to confirm		
1.3	The scope of work shall also include all materials, labour, equipment, consumables, tools & tackles and incidental work, whether specifically mentioned or not, but are necessary and customary to make a complete installation, commissioning and reliable operation of the Vapour Phase Drying plant.	Vendor to confirm		
2.0	PURPOSE & WORK PIECE MATERIAL:			
2.1	VPD plant shall be used for heating by hot solvent vapour, vacuum drying & oil impregnation of active parts of Transformer & coils or other parts in an Autoclave by means of solvent vapour condensation.	Vendor to confirm		
2.2	The heating up temperature of solvent vapour shall be 130 +/- 4 °C	Vendor to confirm		



SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW				
S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
2.3	The drying of Transformer active parts / coils / oil impregnated active parts / oil impregnated coils shall be carried out in an Autoclave with latest proven cascade / falling film / vapour jet / beam evaporator using advanced vapour phase drying process sequence i.e. preparation, heating up, intermediate pressure lowering stages (which will be part of heating up), pressure reduction, fine vacuum phase and oil flooding, vacuum breaking and oil draining. If need be, the distillation process also to be carried out during the drying process cycle.	Vendor to confirm		
2.4	VPD plant shall be used for vacuum drying & impregnation of active parts of power Transformer weighing up to 250 tonnes.	Vendor to confirm		
2.5	A 250 Tonnes Transformer which includes 165 tonnes of Iron (140 CRGO + 25 MS), 60 tonnes of paper covered copper, 15 tonnes of insulation material. Mass of oil to be filled in the Autoclave at the end of drying is also to be considered during the design.	Vendor to confirm		
3.0	SPECIFICATION:			
3.1	General:			
3.1.1	Equipment configuration:- The VPD plant shall consist of an Autoclave with a cascade / falling film / vapour jet / beam evaporator of proven technology and other accessories. The evaporator is heated and solvent is circulated via filter system to evaporator where it evaporates. The top loaded Autoclave shall be loaded / unloaded by the over head cranes in the 100 tonne bay of TELK. All sides & the lid of the Autoclave are heated by thermic fluid heating system with limpet coils / suitable arrangement located outside & underneath of the vessel. A vacuum plant is used to create vacuum inside the Autoclave. The plant shall be equipped with computer aided process optimisation arrangement and modem network connection to operate & control the operation. The proven design of the evaporator shall ensure an optimal solvent vapour distribution in the Autoclave. The complete equipment shall be of a "State of Art" latest design & technology. Design of plant shall be such that online and offline distillation can be possible.	Vendor to confirm		
3.1.2	Location of VPD: A layout of TELK factory showing the location of VPD is attached. VPD and its accessories are to be installed in the identified area in 100 tonne bay of TELK. The Bidder shall do the layouting of VPD and its accessories in their scope as per the VPD factory layout with optimal utilisation of space. The Bidder shall supply a split air conditioner of required capacity for the control room. The control room shall be provided with suitable office furniture in consultation with TELK. The layout shall consist of VPD & accessories, vacuum plant, thermopack with chimney, chilled water system, oil storage tank, Control Room etc. Transformer oil storage tank and pipeline up to autoclave shall be under the scope of TELK.	Vendor to confirm		
3.1.3	The layout of the plant shall be such that there should be proper space for dismantling and assembly of parts / equipment during maintenance. Ladders and platforms shall be provided wherever required for operation and maintenance purpose.	Vendor to confirm		



SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW

S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
3.1.4	The layout shall consist of plan, elevation, sectional views giving clear details of the VPD plant including that of underground structures. The loading details to be taken into consideration for the design of the building, various structures (including underground structures), bottom level of Autoclave which is approximately 1.5 to 2 meters from the plant floor level etc. is to be given by the Bidder. All these details are to be submitted within 30 days from the date of award of contract so that TELK can do the detailed engineering of civil structure for its construction. Civil construction including control room is excluded from the scope of supply.	Vendor to confirm		
3.1.5	EOT crane facility is envisaged only in the Autoclave area of VPD. Bidder shall supply chain pulley block / monorail hoist of suitable capacity for maintenance / dismantling of parts at required locations in the VPD plant.	Vendor to confirm		
3.2	Autoclave:			
3.2.1	Top loading Autoclave suitable for overhead crane loading:- It shall be of welded construction of MS plates and beams conforming to IS 2062 and of tested quality. The Autoclave shall be loaded / unloaded by overhead crane. In order to avoid fouling of internal body with the top of Autoclave; the Autoclave shall be placed at a plinth level about 1.5 to 2 M below the plant ground level. All sides of the Autoclave, including top cover shall be heated by thermic fluid heating system with limpet coils / suitable arrangement located at outside of the vessel walls as well as underneath of the Autoclave. Vendor to provide a working platform all around the Autoclave for operation & maintenance personnel to move around. The platform to be around 1.2 Mtrs below the door flange. Width of platform to be minimum 600 mm. It should have a safety railing and toe plate all around. An approach ladder to be provided from factory floor. The material of platform & ladder to be MS & no wood to be used. The Vendor to indicate the weight of Autoclave. Finished Autoclave shall be cleaned from outside and inside for removal of rust & scales by shot / grit blasting. Outside surfaces after cleaning shall be painted with 2 coats of epoxy primer. Inside surface walls & inside face of bottom plate shall be painted with 2 coats of epoxy paint compatible with oil & solvent. The Vendor to submit WPS/PQR and should get those approved from TELK.	Vendor to confirm		
3.2.2	A hydraulically operated top cover / lid with hydraulic door clamping / pressing system operated by power pack. Limit switches shall be provided to control the movement of the door. There shall be two hydraulic cylinders for door opening / closing operation. Lifting capacity of each cylinder to be 110% of door weight; which means in case of failure of one cylinder the other cylinder should be able to sustain full weight of door. Both cylinders to have non-return valves so that in case of open condition even if oil hoses burst, the door will not come down. Vendor shall provide sufficient number of hydraulic door clamps. These will have necessary safety interlocks viz. unless all clamps are released of pressure & open; the door cannot be opened. Vendor will provide hydraulic accumulator or pressure maintaining device in the system when the process is on.	Vendor to confirm		
3.2.3	The dimension of the Autoclave shall be as below:	Vendor to confirm		
	Usable inner length - 10000 mm.	Vendor to confirm		
	Usable inner width - 4500 mm.	Vendor to confirm		



SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW		CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
S.NO.	DESCRIPTION FOR TELK REQUIREMENT			
	Usable inner height (up to cover bottom) - 4600 mm.	Vendor to confirm		
3.2.4	Jacket heating capacity 120 kW / suitable	Vendor to confirm		
3.2.5	Testing vacuum (partial pressure) By vapour Compression Gauge 0.01 Torr / 0.0133 mbar	Vendor to confirm		
3.2.6	Final vacuum at end of fine vacuum phase (total pressure) - < 0.2 mbar	Vendor to confirm		
3.2.7	Leakage rate of Autoclave & system shall be less than 5 mbar-ltr/sec Leakage rate of pipe work to be less than 0.1 mbar-ltr/sec	Vendor to confirm		
3.2.8	Water extraction rate is 15 cc/ton/ hr	Vendor to confirm		
3.2.9	Maximum time limit for drying of Transformer containing insulation to the extent of 6 T / 15 T should not exceed 78 hrs. & 108 hrs. respectively. This shall be verified during acceptance trials when Transformer would be dried. Successful bidder shall furnish the maximum time limit for drying of transformers containing insulation to the extent of 8T, 10T, & 12 T for consideration of the measurable defect in additional warranty.	Vendor to Specify		
3.2.10	Operating wall temperature 130 +/- 4 deg. Celsius. Max. temperature of thermic fluid shall be 180 deg. Celsius. The temperature uniformity on the surface of all walls of Autoclave shall be +/- 5 deg.C. All the walls of the Autoclave shall be properly insulated from outside with thermal insulation of sufficient thickness & cladded from outside by aluminum sheets. The skin temperature on cladding shall not exceed +5 degrees above ambient temperature when process is on.	Vendor to confirm		
3.2.11	All sides of Autoclave & underneath of Autoclave shall be heated by thermic fluid system with limpet coils / suitable arrangement located on the outside wall & underneath.	Vendor to confirm		
3.2.12	The top cover is kept on heated by thermic fluid circulated through limpet coils / suitable arrangement connected by flexible hoses, which shall be connected to the Autoclave heating system.	Vendor to confirm		
3.2.13	A system to be provided to cool down walls of the Autoclave to 100°C in 2 hrs. The system to get activated only after the "set end parameters for drying" have been reached.	Vendor to confirm		
3.2.14	Two / suitable no of blank flanges shall be provided in the Autoclave for connecting instruments apart from regular connecting flanges.	Vendor to confirm		
3.2.15	Autoclave shall be provided with 4 no. vacuum tight terminal boards consisting 3 or 4 terminals each for connecting measuring lead to install temp. sensors for indicating temperature of job to be dried (Transformer) and for connecting leads for tan delta measurements. Further, 4 more vacuum tight hydraulic lead through to make connections for iso-static pressing device.	Vendor to confirm		
3.2.16	Autoclave shall be provided with minimum 4 Nos. of vacuum tight observation glasses (toughened glass) with illumination lamp at suitable places to observe the process inside the Autoclave.	Vendor to confirm		
3.2.17	A suitable switch cabinet shall be provided in the control room for Autoclave top cover open / close operation and door clamping.	Vendor to confirm		
3.2.18	NOTE: Considering the difficulty in transportation of such bigger Autoclave to TELK factory, the Bidder may consider the option of fabrication / assembly of pre-fabricated Autoclave at TELK, Angamally.	Vendor to confirm		



SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW

S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
3.3.0	Evaporator:- The falling film / cascade / vapour jet / beam evaporator shall be of welded construction. The tube shall be seamless of required schedule and made of SS 304. It shall be installed / mounted so as to occupy minimum space. The design and construction of the evaporator shall be based upon the most modern and state of the art technology to achieve maximum possible efficiency.	Vendor to confirm		
3.3.1	Heating capacity 300 kW or suitable (calculation to be provided)	Vendor to confirm		
3.3.2	The evaporator should be equipped with automatic control system.	Vendor to confirm		
3.3.3	All safety & control devices shall be provided with the evaporator. Details shall be furnished with the offer.	Vendor to confirm		
3.3.4	It should be automatically controlled with PLC / computer aided process system to optimise the process.	Vendor to confirm		
3.3.5	The Vendor should indicate the brands / make of recommended solvent with specification and total quantity of solvent required for the process and also the quantity of solvent required for first filling.	Vendor to confirm		
3.3.6	The Indian equivalent of the solvent to be used in the VPD, if available, shall be specified in the offer in case the recommended solvent is imported one.	Vendor to confirm		
3.4.0	Main condenser (mixed vapour): In welded construction made of stainless steel (SS 304) & SS 304 seamless tube of required schedule, complete with piping made of non corrosive material for water cooling. The water and solvent re-condensate in the tank and gets separated by the difference of density. All pipe lines carrying mixture of liquid solvent & water shall be of SS 304.	Vendor to confirm		
3.4.1	Condensation capacity : 225 kW / suitable (calculation to be provided)	Vendor to confirm		
3.4.2	Set of valves and accessories for condensate piping shall be provided.	Vendor to confirm		
3.4.3	A vacuum tight condensate collecting tank (separating vessel) of suitable capacity, in welded construction made of stainless steel (SS 304) shall be provided with all required accessories. Temperature of condensed water & solvent in condensate collecting tank to be < 20 deg. C.	Vendor to confirm		
3.4.4	Total capacity of condensate tank 2000 ltrs / suitable	Vendor to confirm		
3.4.5	Water drainage pump with all accessories like filter, pressure gauge, NRV, isolation valves etc. for collecting tank is to be provided.	Vendor to confirm		
3.4.6	Waste water tank (made of MS - IS 2062) - Usable capacity of tank - 5000 ltrs./ suitable	Vendor to confirm		
3.4.7	Operating temperature - ambient :- 15 to 50 degree Celsius	Vendor to confirm		
3.4.8	Operating pressure atm:- atmosphere	Vendor to confirm		
3.4.9	The gas mixture containing solvent and water as well as leakage air is pumped out and the vapour return to the main condenser where water and solvent re-condensate.	Vendor to confirm		
3.5.0	Solvent storage tank:- made of MS sheet (IS 2062)	Vendor to confirm		
3.5.1	Usable capacity 10000 ltrs. / suitable	Vendor to confirm		
3.5.2	Operating pressure: - atmosphere / vacuum	Vendor to confirm		
3.5.3	Operating temperature : - 15 degree less than ambient to 50 degree Celsius	Vendor to confirm		



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS		
3.5.4	Set of valves & piping, filters, pump, instrumentation device, volume indicator and other accessories as per requirement shall be provided.	Vendor to confirm				
3.6.0	Solvent feeding system:- Comprising condensate pumps, valves, piping; complete with level sensors for dry running protection and temperature survey. All the solvent handling pumps to be appropriately protected from having electrical spark for the purpose of safety as those would be handling solvent at different temperatures. Preferably canned motor pumps to be used. Vendor shall specify the make & capacity of the motor.	Vendor to confirm				
3.6.1	Condensate fine filter - For filtration of the solvent returning to the evaporator; the filter is equipped with disposable filter cartridge and magnetic core. Suitable arrangements shall be provided to bypass fine filter with automatic switch over to a parallel fine filter when large amount of impurities are to be washed out during the drying process.	Vendor to confirm				
3.6.2	Filter fineness 10 micron or better	Vendor to confirm				
3.6.3	Solvent flow meter - For solvent flow control for evaporator	Vendor to confirm				
3.6.4	Coarse filter - For filtration of the solvent flowing back from Autoclave to the solvent feeding pump. Coarse filter to be easily accessible & easy to clean.	Vendor to confirm				
3.7.0	Waste oil Tank:- In welded construction made of MS plate (IS 2062).	Vendor to confirm				
3.7.1	Usable capacity -- 5000 ltrs.	Vendor to confirm				
3.7.2	Operating pressure :- atmosphere	Vendor to confirm				
3.7.3	Operating temperature max :- 130 deg. Celsius	Vendor to confirm				
3.8.0	An air compressor of suitable capacity and reputed make shall be provided with air filter regulator, automatic start / stop with minimum and maximum pressure control, air receiver tank etc. The compressor shall provide water free compressed air of suitable quality / dew Point of 5 degrees C for the operation of pneumatic valves of the VPD plant. All the pipe work carrying compressed air shall be of suitable material to withstand surrounding temperature.	Vendor to confirm				
3.9	Accessories for Autoclave:-					
3.9.1	Double gasket or lip seal of suitable size & shape for top cover. Material to be Viton.	Vendor to confirm				
3.9.2	Complete hydraulic unit for top cover clamping, door opening/closing, pressure maintain device etc.	Vendor to confirm				
3.10	Heating circuit and temperature regulation for Autoclave and evaporator:-					
3.10.1	The Vendor shall provide a thermic fluid heating system of 6 lacs kilo calorie / suitable capacity ensuring that it has a capacity of 20% surplus over and above required, considering thermal efficiency; which would take care of degradation due to aging. It will be a total system with all piping & valves, insulation, instrumentation, pumps, electrical panel and other accessories. The chimney height shall be decided as per performance requirements as well as for statutory requirements. First charge of thermic fluid in the system to be supplied by Vendor. Capacity calculation to be provided.	Vendor to confirm				



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT			
3.10.2	Primary thermic fluid heating circuit for Autoclave and evaporator shall be provided (max temperature of thermic fluid at 170-180 deg C). The make of the thermopack shall be reputed one. Credentials of the Thermopack manufacturer shall be included in the offer with list of clients where the recommended make of thermopack installed, including performance certificate.	Vendor to confirm		
3.10.3	Details with specification, GA drawing of thermic fluid heating system (thermopack), P&I Diagram is to be given by Vendor. The thermic fluid heating system shall be with complete accessories, electrical and control system, safety arrangement and necessary protection and interlocks.	Vendor to confirm		
3.10.4	The thermic fluid heating system shall be provided with multi burner for furnace oil / HSD / LNG.	Vendor to confirm		
3.10.5	Complete Autoclave and related piping shall be provided with proper lagging and cladding with insulation so that outside temperature does not exceed 5 degree C. above ambient.	Vendor to confirm		
3.11	Secondary thermic fluid heating circuits with temperature regulator for Autoclave and evaporator shall be provided by the VPD Supplier. The scope involves complete piping with insulation. The VPD Supplier to take care of necessary instrumentation, safety devices including pumps and three way valves for effective control. The solvent shall be circulated through a filter system and evaporator. An optimal solvent distribution in the Autoclave and thus homogeneous heating up of the Transformer / Its parts etc. by condensation of the solvent under the given temperature and pressure condition shall be obtained.	Vendor to confirm		
4.0	VACUUM PUMPING UNIT:			
	Detailed specification of the vacuum pumping system with interlocks and protections shall be given. Evacuation time of dry, empty & clean Autoclave to 0.1 mbar (total pressure) to be < 120 minutes (prove out test).	Vendor to confirm		
4.1	Roots pumps:- Complete with flange mounted motor; sufficient in numbers. Motors shall have VFD for effective control. Roots pumps shall be air cooled. Vendor to take suitable measures to eliminate harmonic noise signal due to VFD being injected back to the power supply.	Vendor to confirm		
4.1.1	Suction capacity of roots pumps should not be less than 7000 m ³ /hr / suitable	Vendor to confirm		
4.1.2	Make of the pump - Pfeiffer / Orlikon - Leybold only (suitable for VPD).	Vendor to confirm		
4.2	Intermediate Condenser:- Water cooled, in welded construction with automatic draining system. Material of construction to be SS 304. Vendor to indicate surface area of condenser. Vendor to decide number of condensers in vacuum system for effective plant operation.	Vendor to confirm		
4.3	2 nos. / sufficient in numbers, oil sealed / rotary vacuum pumps; capacity - 500 m ³ /hr / suitable, each complete with motor and accessories.	Vendor to confirm		
4.3.1	Make of the Vacuum pumps - Pfeiffer / Orlikon - Leybold / Busch only (suitable for VPD). Vacuum pumps to be air cooled.	Vendor to confirm		
4.3.2	As an optional item the Bidder shall offer 2 Nos. / sufficient in numbers, dry vacuum pumps (screw line type); capacity 630 m ³ /hr / suitable, each complete with motor and accessories.	Vendor to confirm		
4.3.3	Make of the dry pumps - Busch / Orlikon - Leybold Gmbh only (suitable for VPD)	Vendor to confirm		
4.4	Exhaust separator:- Water cooled with suitable water measuring device and drainage system.	Vendor to confirm		



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT					
4.5	Measuring instruments & accessories to be provided.			Vendor to confirm		
4.5.1	Digital vacuum gauge - 0.001 to 100 mbar abs. shall be provided for monitoring process. In addition, sufficient number of capsule vacuum gauges to be provided at appropriate places for ease of operation & maintenance. Water vapour partial pressure measuring device is to be provided. It should have appropriate co-relation / calibration with vacuum pump capacity curve from time to time.			Vendor to confirm		
4.6	Chilled water for intermediate condenser, exhaust condenser, vacuum pump & solvent main condenser is to be provided at required (a) temperature (b) pressure & (c) flow rate.			Vendor to confirm		
5.0	SPECIAL FEATURES: The plant shall be equipped with following special features:-					
5.1.	Computer aided process optimisation - The plant shall be equipped with a system control software for continuously observing the operation of vapour phase drying plant. It shall monitor all relevant process data depending on the actual achieved values and shall allow the automatic selection of the optimal parameters for ongoing drying process.			Vendor to confirm		
5.2	The system should be such that operator sets only general condition and the extended control system shall carry out unattended operation of the plant during the whole drying process. The extended control system shall be capable of carrying out the entire process of drying of a job (Transformer), based upon some general data keyed in by the operator.			Vendor to confirm		
5.3	Process Control:- The control system should be such that it gives most suitable process depending upon input condition. The operator will select the process parameters accordingly. There shall be an extended advance software which ensures that all process phases are started and carried out automatically. Specially, the duration of heating up phase shall be adjusted according to the water extraction measured during the intermediate pressure lowering phases. The oil flooding / vacuum breaking / draining shall also to be taken up automatically. For draining of Transformer oil from Autoclave, additional manual controls to be incorporated.			Vendor to confirm		
5.4	Complete plant operation shall be fully automatic and shall be controlled through a PLC of reputed make. (Siemens / Allen Bradley / Toshiba / ABB)			Vendor to confirm		
5.5	Complete process shall be automatically run with the MMI (Man Machine Interface) software. All process parameters and visualisation of the process shall be displayed on a PC operating on latest Windows programmes.			Vendor to confirm		
5.6	Semi manual / manual selection of the process shall be part of the control system.			Vendor to confirm		
5.7	Provision for remote monitoring with modem is to be provided.			Vendor to confirm		
5.8	A stand by system for process parameters visualisation shall be provided.			Vendor to confirm		
5.9	The water vapour partial pressure measuring device is to be incorporated in the system.			Vendor to confirm		
5.10	The plant shall be equipped with a security system that automatically switches to a safe condition in critical situation with automatic actuation of audio & visual alarm.			Vendor to confirm		
5.11	Process operation with MMI shall include visualisation of actual status, data monitoring & error manager.			Vendor to confirm		



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT			
5.12	Provision shall be made for data logging and saving of logged data on a hard disk.	Vendor to confirm		
5.13	Provision shall be made for printing of data & graphs of recorded values. Provision shall be made for accessing the data of process parameters and its graphical representation through intranet / internet by password entry.	Vendor to confirm		
5.14	There shall be an electronic fine water measuring system for condensate collecting tank.	Vendor to confirm		
5.15	Electronic system for determination and display of the amount of water extracted - This system shall display the total amount of water extracted accurately from Transformer during the entire process.	Vendor to confirm		
5.16	Suitable arrangement shall be provided to bypass fine filter with automatic switch over to a parallel fine filter when large amount of impurities are to be washed out during the drying process. When the working fine filter gets contaminated to a certain degree, the system shall switch over automatically to run the parallel filter. There shall be audio & visual alarm to the operator. This will enable replacement of the clogged filter insert without interrupting the drying process.	Vendor to confirm		
5.17	The system should be provided with on line fault diagnostic; to know the exact fault in case of any breakdown / fault during the process.	Vendor to confirm		
5.18	MODEM:- With the help of modem or network connection, the operator of plant shall be assisted by the manufacturer of the plant directly to analyse the problem. All the status of input and output flags, actual measuring values, parameters, program status are read. It should also be possible to change parameters and update the software. This shall also enable the plant manufacturer, to do remote maintenance in case of any problem / fault with the plant.	Vendor to confirm		
5.19	Provision shall be made, inside Autoclave, for automatic oil flooding & draining after completion of drying. Additional manual control to be provided exclusively for draining of oil. Vendor to take necessary care that this oil will not cause any harm / damage to other parts / components mounted inside Autoclave and in the system of VPD. The bidder shall furnish a specific undertaking in the technical offer that all equipments installed inside the autoclave as well as other components and parts coming in contact with hot Transformer oil will be compatible and made suitable for working in such an environment. All necessary interlocks and safety measures shall be incorporated in the system so that oil will not enter vacuum pumps, roots pumps, condensers etc. Flooding of oil should not have any adverse effect on performance of the plant in subsequent drying cycles.	Vendor to confirm with suitable undertaking		
5.20	Electrical control system:- It shall comprise floor mounted wired control cabinet ready for connection, including potential free contacts for connection of alarm system. TELK will provide main incoming supply for electrical control panel; Supplier has to make all necessary connections to main as well as all interconnecting panels.	Vendor to confirm		
5.21	PC with video terminal for visualisation / touch Screen monitor:- Details to be furnished. Make of PC - IBM / COMPAQ / DELL / ABB	Vendor to confirm		
5.22	Key board for data input and mouse for operation.	Vendor to confirm		
5.23	Colour ink tank printer for graphics and mounted on stand (HP Indian make preferred)	Vendor to confirm		



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT					
6.0	WATER COOLING / CHILLING PLANT					
6.1.	Suitable water chilling plant is required for vapour condensers of vapour phase plant and vacuum pumping system. (Chilling plant shall be of Warner Finlay / Bluestar make). The temperature of the chilled water for processing and capacity of the chilled water system shall be specified in the offer.	Vendor to confirm				
6.2	The chilling plant shall be of suitable capacity and suitable to cater to the need of the complete VPD plant.	Vendor to confirm				
6.3	The chilling plant shall be supplied with all required accessories of reputed make.	Vendor to confirm				
6.4	Necessary safety interlocks & protection with required instrumentation shall be provided for the chilling plant. The chilling plant control panel etc. shall be included in the offer. Equipment and process lay out (P&I Diagram) of the water chilling plant shall be submitted with the offer.	Vendor to confirm				
6.5	Details of make of different components, assemblies, material of construction & rating shall be submitted and shall be approved by TELK. The chilled water storage tank shall be made of SS 304. The chilled water piping shall be corrosion resistant and shall be insulated to prevent temperature loss. The chilled water storage tank shall also be thermally insulated to prevent temperature loss.	Vendor to confirm				
6.6	TELK will provide normal well water for cooling requirement. Quality & quantity of cooling water requirement is to be indicated in the offer.	Vendor to confirm				
7.0	There shall be an automatic system for oil filling of Autoclave after completion of Vapor Phase Drying process for the impregnation of active parts of Transformer being dried. The oil inlet & drain shall be thro' solenoid operated valve which is connected at the bottom most point of Autoclave. Oil draining process shall be controlled by operator. Necessary safety interlocks / devices to be provided such that oil filling can only start after desired wall temperature is achieved; oil shall not enter / damage other components. To safeguard vacuum system equipment; the vacuum port / valve should get closed when oil level in Autoclave is 150 mm below vacuum port opening. The oil filling system shall comprise at least the following: 1. Oil filling valve 2. Flexible hose 3. Oil level sensor 4. Max.oil level sensor 5. Provision for draining of oil 6. Oil filling / draining pump	Vendor to confirm				
8.0	Exhaust water extraction rate from pumping system:- The plant shall have capability to measure exhaust water collection and data should be automatically recorded.	Vendor to confirm				
8.1	Plant shall be able to measure total water collection rate, solvent rate and decide strategy to control solvent feed.	Vendor to confirm				
8.2	Plant shall have capability to control solvent flow rate depending upon requirement in heating phase.	Vendor to confirm				
9.0	ELECTRICAL SYSTEM:-	Vendor to confirm				



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT					
9.1	415 V +/- 10%, 50 hz +/- 3%, 3 phase AC (4 wire system with neutral) power supply source will be provided by TELK at a single point to the electrical panel to be supplied by the Bidder with an isolator. Further connection to the circuit breakers / control panel to provide power supply to different equipment / control cabinets shall be the responsibility of Vendor. Requirement of grounding / earthing with required construction of earth pits are also to be taken care of by the Vendor.	Vendor to confirm				
9.2	Tropicalisation:- All electrical / electronic equipment shall be tropicalised and shall be of reputed make.	Vendor to confirm				
9.3	All electrical & electronic control cabinets & panels should be dust and vermin proof (Degree of protection of each panel should be indicated in the technical bid). If required the panel shall be fitted with suitable panel air conditioners.	Vendor to confirm				
9.4	All electrical components in the cabinets should be mounted on DIN rail.	Vendor to confirm				
9.5	Motor shall conform to IEC or Indian standards. (All motor should be of TELK approved make)	Vendor to confirm				
9.6	Vendor should ensure the proper earthing for the VPD plant and its peripherals.	Vendor to confirm				
9.7	The Bidder shall submit to TELK wiring diagram of all control panel and complete system for approval of TELK.	Vendor to confirm				
9.8	Pressure switch, flow switch, level switch, level indicators, float switches, level sensor, temperature indicators, pressure gauge, view glass etc. shall be provided as per requirement where ever it is to be provided.	Vendor to confirm				
9.9	Required interlocks and protections shall be provided as per the operational logics and details of such logics are to be submitted with the offer.	Vendor to confirm				
10.0	SAFETY ARRANGEMENTS:- Following safety features, in addition to other standard safety features, should be provided on the VPD plant.	Vendor to confirm				
10.1	VPD should have adequate and reliable safety interlocks / devices to avoid damage to the VPD work piece and the operator due to the malfunctioning or mistakes. VPD function should be continuously monitored and alarm / warning indication through lights / alarm number with message (on panels) should be available (Details to be submitted with the offer). In case of power failure / malfunctioning / mistakes in operation; the plant & the Transformer under drying should not have any adverse effect.	Vendor to confirm				
10.2	All the pipes, cables etc. on the VPD should be well supported and protected. All rotating parts shall be given protective guards.	Vendor to confirm				
10.3	All the rotating parts used on VPD should be statically & dynamically balanced to avoid undue vibrations.	Vendor to confirm				
10.4	Emergency switches at suitable locations as per international norms are to be provided.	Vendor to confirm				
10.5	Oil & water pipe lines should not run with electrical cable in the same tray / trench.	Vendor to confirm				
10.6	Safety of Autoclave on over pressure to be provided by providing dead weight safety valve or equivalent. Further to this safety measures incorporated for complete prevention of any possibility for an explosion or fire during the operation or storage is to be described in the offer.	Vendor to confirm				
ENVIRONMENTAL PERFORMANCE OF THE VAPOUR PHASE DRYING PLANT:						



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
	The VPD shall conform to following environmental factors:	Vendor to confirm		
	(a) Maximum noise level shall be 85 dB at normal load condition, with correction factor applied for back ground noise, if necessary. This will be measured as per international standards. Supplier to demonstrate compliance to noise level if so required.	Vendor to confirm		
11.0	(b) There shall only be minimum emission from the vacuum drying plant complying with statutory requirements	Vendor to confirm		
	(c) If any safety / environmental protection enclosure is required; it should be built in the plant by the Vendor.	Vendor to confirm		
	In case any environmental clearance / statutory approval is required the same shall be brought to the knowledge of TELK. The Bidder shall support TELK for obtaining all such clearances / statutory approvals / prior approvals from the concerned authorities like State Pollution Control Board etc.	Vendor to confirm		
12.0	TOOLS FOR ERECTION, OPERATION & MAINTENANCE:			
	All tools and tackles required for erection and commissioning of the plant shall be brought by the Vendor. Cranes required for unloading & erection shall be arranged by the vendor. Necessary tools like torque wrench, spanners, keys, grease guns etc. for operation and maintenance of the plant should be supplied along with the plant. List of such tools should be submitted with the offer.	Vendor to confirm		
13.0	SPARES:			
	a) Mechanical, hydraulic, electrical and electronic spares for the VPD and accessories, in sufficient quantity as per recommendation of Vendor, for 2 years (Warranty period as per Clause 22.1) of trouble free operation on three shifts continuous running basis should be included in the offer. A list of such items and rate of each item shall be submitted along with the technical bid of offer. The vendor supply any other spares required beyond this list during the warranty period also to be at free of cost.	Vendor to confirm		
13.1	b) Rate of Spares (Mechanical, hydraulic, electrical and electronic) recommended for 3 years after the warranty period shall be offered in the price bid (lumpsum) as optional price. The list & rate of each of such items should be included in the technical bid. The price of spares should be valid for 5 years from date of issue of Purchase Order	Vendor to confirm		
13.2	Technical details of all types of spares for total VPD and accessories should be provided so that TELK can procure them. Vendor shall also provide TELK all drawings of parts / details of spares. Address of the suppliers also shall be provided by the successful vendor during the detailed engineering.	Vendor to confirm		
14.0.	DOCUMENTATION:- Two sets of following documents (hard copies + soft copy) in English language should be supplied along with the VPD plant.	Vendor to confirm		
14.1	Operating manuals of VPD & PLC system, thermic fluid heating system, vacuum pumping system, chilled water system etc. to be provided by Vendor.	Vendor to confirm		
14.2	Programming manuals of VPD & PLC system.	Vendor to confirm		



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT					
14.3	Detailed maintenance manual of the plant with all drawings of VPD assemblies / sub-assemblies / parts including electrical / pneumatic / coolant / hydraulic circuit diagrams. The maintenance manual should contain the details of preventive maintenance to be conducted. The manual should also give the lubrication chart with specifications of lubricants to be used with its Indian equivalents, if any.			Vendor to confirm		
14.4	Operation, Maintenance & commissioning manuals.			Vendor to confirm		
14.5	Catalogues, O & M manuals of all bought out items, wherever applicable.			Vendor to confirm		
14.6	Detailed specification of all rubber items and hydraulic / lubricant systems.			Vendor to confirm		
14.7	Operating manuals, maintenance manuals & catalogues for all bought out items shall be supplied. The Supplier shall provide calibration certificates of all measuring instruments.			Vendor to confirm		
15.0.	TRAINING:					
15.1	TELK persons should be trained in respect of operation and maintenance (electrical / electronics / mechanical) of the VPD & other supplied equipments including operation & maintenance of PLC by the engineers / experts of the bidder at free of cost.			Vendor to confirm		
16.0.	ERECTION & COMMISSIONING:					
16.1	Supplier to take full responsibility for carrying out the storage, erection, testing, start up and commissioning of VPD with its control system & all type of other supplied equipment including prove out test etc. Service requirement like power, air & water shall be provided by TELK at only one point. The charges for the power consumed by the vendor will be deducted from their final bill. The Bidder shall indicate supply point for such services in their layout drawings. Plain storage area will be provided by TELK for which requirement shall be furnished in the offer. TELK will load the object to be dried in the Autoclave to be supplied by the Bidder for dry out test of the Transformer active parts.			Vendor to confirm		
16.2	Successful proving out of TELK transformer internal body/ coils by Supplier shall be considered as part of commissioning. All tests, as mentioned at clause 20.2 (VPD ACCEPTANCE) shall form part of the commissioning activity.			Vendor to confirm		
16.3	Tools, tackles, instrumentation and other necessary equipment including laser equipment, if any, required to carry out all above activities should be brought by the Supplier.			Vendor to confirm		
16.4	Any Special equipments / meters / devices required for commissioning of the VPD shall be made available			Vendor to confirm		
16.5	All cover plates / blanking plates required for the VPD and its peripherals, if any, shall be supplied and installed by the Vendor; the same should be sourced from India, if possible.			Vendor to confirm		
16.6	Portion, if any, of the VPD accessories and other supplied items; where paints has rubbed off or peeled off during transit or erection, should be repainted and merged with the original surrounding paints by the Vendor. For this purpose, the Vendor should supply sufficient quantity of touch-up paint of various colours of paints used in the plant.			Vendor to confirm		
16.7	Schedule of erection and commissioning shall be submitted with the offer.			Vendor to confirm		
16.8	Charges, duration, terms & conditions for erection & commissioning should be furnished in detail separately by the Vendor along with offer.			Vendor to confirm		
16.9	TELK will provide power, on chargeable basis, for construction purpose at one point. Further arrangement to take power for construction / fabrication etc. will be in the scope of the Bidder.			Vendor to confirm		



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S.NO.	DESCRIPTION FOR TELK REQUIREMENT			
16.10	Vendor shall clear / clean the site by taking away all his material after handing over the plant to TELK.			
17.0.	ACCURACY TESTS: Complete prove out of components shall be done by the Supplier at TELK works for dimensions, vacuum leak rate (clause 3.2.7), operating temperature (clause 3.2.10) & all major parameters as per clauses 3.0 & 4.0. Material for the prove out of components shall be provided by TELK. Bidder shall be fully responsible for prove out of components as per TELK standards / specifications. Parameters during job dry out test: 1. Average job temperature at the end of heating phase - 125 +/- 3 deg. C 2. Average job temperature at the end of fine vacuum - 117 +/- 3 deg. C 3. Water extraction rate at the end of fine vacuum - 15 cc/T/hr 4. Total pressure at the end of fine vacuum - < 0.2 mbar 5. Time duration of process as committed in clause 3.2.9	Vendor to confirm		
18.0.	AMBIENT CONDITIONS & THERMAL STABILITY:			
18.1	Total VPD Plant, including PLC based systems and all supplied items, should work trouble free and efficiently under following operating conditions and give specified accuracies: Power supply: Voltage - 415 V +/- 10% Frequency - 50 Hz +/- 1.5 Hz No. of phases - 3 Ambient conditions - temperature - 15 ~ 50 deg. C Humidity - 70 ~ 90 %	Vendor to confirm		
18.2	Weather conditions are tropical. Atmosphere may be dust laden during some part of the year. VPD shall be kept in the normal shop floor conditions. Max temperature variation is up to 15 deg Celsius in 24 hours. Bidder should confirm that VPD is suitable for above condition and furnish details during detailed engineering.	Vendor to confirm		
18.3	Thermal stability of the complete VPD keeping in view specified Ambient conditions and accuracy requirements of TELK components and trouble free operation of the VPD should be ensured by the Bidder. Bidder should confirm that VPD is suitable for the above and furnish details during detailed engineering.	Vendor to confirm		
18.4	The VPD plant including attachments and accessories should be suitable continuous operation to its full capacity for 24 hour a day and 7 day a week throughout. Bidder to ensure and confirm the same.	Vendor to confirm		
19.0.	PROVE OUT OF COMPONENTS:			



SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW				
S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
19.1	Complete prove out of components shall be done by the Bidder at TELK works as per (clause 17.0). Material for the prove out of components shall be provided by TELK. The Bidder shall be fully responsible for prove out of components to the full satisfaction of TELK as per drawings and other requirements specified by TELK. Clarifications, if any, required by the Bidder regarding accuracy requirements of the prove out of components, whether specified or not, should be discussed and cleared during initial technical discussions.	Vendor to confirm		
19.2	The Bidder shall be responsible for any deviation / rejection in prove out of component due to wrong process or malfunctioning of the VPD during prove out test of VPD and also for the delay in process due to improper recommended process. The cost of such deviation / rejection if any shall be refunded by the Bidder to TELK.	Vendor to confirm		
20.0.	VPD acceptance:- (Tests / activities to be performed by Vendor)			
20.1	Tests / activities to be carried out at Supplier works on the sub assemblies / modules which will be made ready at Vendor's premises.	Vendor to confirm		
20.1.1	Demonstration of all features of the VPD & PLC systems and all accessories.	Vendor to confirm		
20.2	Tests to be carried out at TELK works while commissioning the VPD	Vendor to confirm		
20.2.1	Accuracy tests as per clause 17.1 and TELK process specifications.	Vendor to confirm		
20.2.2	Full load tests to demonstrate the maximum power capacity of the VPD.	Vendor to confirm		
20.2.3	The VPD should be tested for continuous running of 24x7 hrs till the specified period of drying. If any break down occurs during this test, the test should be repeated from that time.	Vendor to confirm		
20.2.4	Demonstration of all features of the VPD & PLC systems and all accessories to the satisfaction of TELK for their effective use.	Vendor to confirm		
20.2.5	Demonstration by actual use of all supplied attachments and accessories to their full capacity.	Vendor to confirm		
20.2.6	Job prove out: Minimum three jobs trials (of which at least one job with insulation more than 10 Tonnes) will be taken as per TELK process specifications (clause 17.1) within a period of 3 months from the date of readiness for job prove out. Parameters during job dry out test: 1. Average job temperature at the end of heating phase - 125 +/- 3 deg. C 2. Average job temperature at the end of fine vacuum - 117 +/- 3 deg. C 3. Water extraction rate at the end of fine vacuum - 15 cc/T/hr 4. Total pressure at the end of fine vacuum - < 0.2 mbar 5. Time duration of process as committed in clause 3.2.9	Vendor to confirm		
20.2.7	Two weeks supervision by the Bidder of independent operation of VPD by TELK after job prove out.	Vendor to confirm		
20.2.8	Training of TELK operators in operation of complete equipment & accessories etc., by the Supplier's experts / engineers, shall be provided at free of cost.	Vendor to confirm		
21.0	PACKING:			





SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW

S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
21.1	Standard & rigid packing for all items of compete VPD & PLC systems with all accessories and other supplied items to avoid any damage / loss in transit. When VPD is dispatched in containers, all small loose items shall be suitably packed in boxes. Location for slinging to lift the packing shall be clearly indicated. Weights of each packet / boxes / items are to be clearly indicated.	Vendor to confirm		
22.0	WARRANTY:			
22.1	24 months from the date of acceptance as per clause 20.0 or 36 months from the date of completion of erection of VPD plant, whichever is earlier. During this warranty period, the vendor should attend all the service / maintenance of plant without any cost to TELK. Any part / component / accessory found defective should be replaced / repaired immediately to the satisfaction of TELK. Only the cost of consumables that are to be replaced / replenished during normal operation of the plant shall be in the account of TELK. List and details of such consumables and rate of the each item shall be clearly indicated in the technical offer. If such consumables are not readily available in the Indian market, the bidder shall be responsible for arranging the same by them or through their agents on urgent basis to avoid idling of the plant.	Vendor to confirm		
22.2	Additional Warranty : The vendor shall provide an additional Warranty of 36 Months from the date of completion of warranty period as per clause 22.1 for the VPD plant against any measurable defects as detailed below. Any part / Component / accessory found defective that lead to the measurable defect shall be replaced / repaired immediately to the satisfaction of TELK , free of cost. a) Increase in drying time beyond the maximum time limit furnished by the supplier as per Clause 3.2.9 and proportionate limit for insulation weight not specified in Clause 3.2.9 . b) Vacuum at the end of drying process not reaching < 0.2 mbar (Clause 3.2.6) c) Evacuation of dry, empty & clean Autoclave to 0.1 mbar taking more than 120 minutes (Clause 4.0) d) Break down / maloperation of control system during drying process (Clause 5.0)	Vendor to confirm		
23.0	GENERAL:			
23.1	The following information shall be submitted with the offer.			
	1. VPD Model	Vendor to Clarify		
	2. Total connected load (kW)	Vendor to Clarify		
	3. Floor area required (length, width, height) for complete VPD & accessories.	Vendor to Clarify		
	4. Total weight of the VPD	Vendor to Clarify		
	5. Weight of heaviest part of VPD	Vendor to Clarify		
	6. Weight of each subassembly / parts of the VPD	Vendor to Clarify		
	7. Dimensions of largest part / subassembly / assembly of the VPD	Vendor to Clarify		
23.2	Set of valves, instrumentation & accessories for solvent, vapour, drain water, Transformer oil and vacuum piping for oil flooding & draining connected with VPD Plant shall be provided by the Vendor.	Vendor to Clarify		



SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW				DEVIATIONS IF ANY	REMARKS
S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.			
23.3	In case of bought out items (Indian / foreign supplied), the details of such items / components to be sourced from the sub contractor / supplier, complete credentials of the sub-contractor should be submitted during detailed engineering by successful bidder. Final responsibility for quality & performance of such components / items & complete plant shall be of principal Bidder. TELK reserves the right to assess the capability of the sub-contractor in respect of off-loaded components / items. Vendor shall submit the list of brought out items along with the offer. The brought out items shall be of reputed make and needs to be got approved by TELK before placing the order. Material of construction of major and important systems / equipment shall be given. Structural steel and pipe shall be of tested quality and of reputed make (Prior approval shall be obtained from TELK).	Vendor to Clarify			
23.4	First fill of hydraulic oil / lubricants with 10% extra to be provided by the Bidder.	Vendor to confirm			
23.5	If any plant or process or whole system of VPD plant is patented by the Bidder, a copy of all applicable patents must be enclosed along with the techno Commercial part of the offer.	Vendor to confirm			
23.6	Pressure test, hydraulic test etc. in respect of vessels, tubes, heat exchanger, condenser tubes etc. shall be done as per standard practice and the details are to be indicated in the manufacturing, erection & commissioning quality plan. Reports of shop test are to be submitted to TELK for its verification.	Vendor to confirm			
23.7	As per the handling requirement of equipment & parts; those required shall be provided with lifting lugs etc. for easy maintenance purpose. Level indicator, filling & draining facility for lubricants / working fluids, view glasses, inspection man hole as the case may be shall be provided at appropriate places on equipment.	Vendor to confirm			
23.8	All structures/ pipes / equipment shall be applied, after grit blasting / chemical cleaning / suitable method, with two pack zinc epoxy primer of 50 micron DFT followed by 100 micron two pack high build epoxy paint with micaceous iron oxide (MIO). The final coat shall be 25 micron two pack recoatable polyurethane paint. The colour code shall be finalised on discussion with TELK.	Vendor to confirm			
23.9	Data Sheet of all equipment / parts / systems shall be provided with make, ratings, material specification, size, number, capacity etc. for future reference / evaluation of the offered item by TELK. This information is to be submitted during the time of detailed engineering.	Vendor to confirm			
23.10	Lay out of VPD plant including its accessories showing sectional, elevation and plan details are to be submitted with the offer. P & I diagram of complete system with all details is to be submitted with the offer.	Vendor to confirm			
23.11	Quality Plan: The Bidder should submit a draft manufacturing erection & commissioning quality plan along with the offer. Final QAP will be submitted during detailed engineering for the approval of TELK.	Vendor to confirm			
23.12	TELK reserve the right to pre-dispatch inspection. The stage inspection shall be mutually discussed and finalised.	Vendor to confirm			
23.13	Test certificate of all the items used on plant viz. pumps, valves, instruments, chilling plant, thermopack, gauges etc. in line with respective standards / codes shall be submitted to TELK for approval.	Vendor to confirm			



	SCOPE: DESIGN, ENGINEERING, MAINTENANCE, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
S.NO.	DESCRIPTION FOR TELK REQUIREMENT			
23.14	List of exclusions and the inputs to be provided by TELK for the successful commissioning and operation of the VPD system shall be clearly indicated in the offer.	Vendor to confirm		
23.15	There should be suitable redundancy in respect of critical pumps, filters etc. to ensure smooth change over & uninterrupted functioning in case of failure of the working equipment.	Vendor to confirm		
23.16	Party should have PF and ESI registration in respect of employees deployed for erection of VPD at TELK.	Vendor to confirm		
23.17	Operation cost of VPD in hourly / daily basis for drying of Transformer parts may be indicated in the offer including cost of power and other consumables.	Vendor to confirm		
23.18	The Transformer oil storage tank / tanks for full capacity of flooding of Autoclave shall be made available by TELK.			
23.19	Valves shall be of reputed make and material of construction shall be suitable to the working media. It shall be tested at the required pressure as per the standard. The valves shall be of Vass, Klinger, Crane, Gefa (for butterfly valve), L&T Equivalent. The valves operating solvent vapour shall be suitable for 150 deg. C / as per requirement, vacuum of 0.5 mbar / suitable, pressure of 9 kg/sq. cm / suitable.	Vendor to confirm		
24.0	QUALIFYING CONDITION OF VPD			
24.1	The Vendor should have supplied at least THREE VPD plants of similar specification (for dry out of 315 MVA / 400 KV class Transformers or above) and 200 cubic meter or more in the past ten years, out which at least TWO plants to a client in INDIA and such VPD is presently working satisfactorily for more than two years after commissioning on the due date of tender opening of techno commercial bid. The Bidder should have a proven top loading VPD technology. The following information are to be submitted by the Vendor about the companies where similar VPD have been supplied. This is required from all the Vendors for qualification of their offer. In case part supply is made by other Vendors they must have supplied the vacuum vessel and components of similar application in past ten years.	Vendor to Submit		
	1. Name of the customer / company where similar VPD is installed. (copy of purchase order to be furnished)	Vendor to Submit		
	2. Complete postal address of the customer.	Vendor to Submit		
	3. Year of supply / commissioning.	Vendor to Submit		
	4. Size & application for which VPD plant is supplied with details of accuracies achieved on the job.	Vendor to Submit		
	5. Full details of the customer with details of contact person.	Vendor to Submit		
	6. Performance certificate from the customer regarding satisfactory performance of VPD supplied to them in line with the qualifying requirement.	Vendor to Submit		
24.2	The Vendor should be original equipment manufacturer, should have service facility in India and should have experience as indicated above. The Vendor can be a subsidiary / have technical collaboration with / of a reputed foreign firm in the field of design / engineering / manufacturing / erection & commissioning of VPD of specified size / capacity. Credentials to be submitted with the offer.	Vendor to confirm		

SCOPE: DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT COMPLYING AS PER SPECIFICATION BELOW				
S.NO.	DESCRIPTION FOR TELK REQUIREMENT	CONFIRMATION BY THE BIDDER.	DEVIATIONS IF ANY	REMARKS
24.3	The Vendor should have more than 10-years experience in designing, erection, commissioning & providing after sales service of VPD Plant.	Vendor to confirm		
25.0	ANNUAL MAINTENANCE CONTRACT (AMC) :			
25.1	The vendor should quote for an AMC for a period of 3 years after completion of Warranty period (Clause 22.1) . The scope of AMC includes but not limited to the following.	Vendor to confirm		
	a) The AMC shall include any number of complaint calls.			
	b) The vendor should plan and carry out regular preventive maintenance of the plant during the AMC period A detailed proposal shall be included in the technical bid.			
	c) The spares required during the AMC period shall be supplied by the vendor and the cost will be reimbursed as per the rate quoted for the recommended spares (13.1b).			
	d) Any Parts / Components / Accessories that may found defective due to manufacturing defects / faulty selection / bad workmanship, within the additional warranty period shall be replaced or repaired immediately to the satisfaction of TELK.			
	e) Preventive / Routine maintenance shall be planned only after proper prior communication & consent of TELK.			
26.0	OTHER REQUIREMENTS:			
26.1	Vendor to incorporate heat recuperator in the system to conserve the heat energy.	Vendor to confirm		
26.2	All the major components should be in modular form with easy accessibility for maintenance purposes.	Vendor to confirm		
26.3	All measuring devices should have proper calibration certificate and shall be detachable for future calibration / maintenance.			
26.4	All the pipes carrying solvent vapour & thermic fluid shall be seamless tubes	Vendor to confirm		
26.5	Any other equipment not specified above like buffer tank etc. required for smooth & trouble-free running of plant are to be provided by Vendor without extra cost.	Vendor to confirm		



PRE-QUALIFICATION REQUIREMENTS FOR VPD (PQR)

1. The Vendor should have supplied at least THREE VPD plants of similar specification (for dry out of 315 MVA / 400 KV class Transformers or above) and 200 cubic meter or more in the past ten years, out of which at least TWO plants to a client in INDIA and such VPD is presently working satisfactorily for more than two years after commissioning on the due date of tender opening of techno commercial bid. The Bidder should have a proven top loading VPD technology. The following information are to be submitted by the Vendor about the companies where similar VPD have been supplied. This is required from all the Vendors for qualification of their offer. In case part supply is made by other Vendors they must have supplied the vacuum vessel and components of similar application in past ten years.
 - i). Vendor to Submit Name of the customer / company where similar VPD is installed. (copy of purchase order to be furnished)
 - ii). Vendor to Submit Complete postal address of the customer.
 - iii). Year of supply / commissioning.
 - iv). Vendor to Submit Size & application for which VPD plant is supplied with details of accuracies achieved on the job.
 - v). Vendor to Submit Full details of the customer with details of contact person.
 - vi). Vendor to Submit Performance certificate from the customer regarding satisfactory performance of VPD supplied to them in line with the qualifying requirement.
2. The Vendor should be original equipment manufacturer, should have service facility in India and should have experience as indicated above. The Vendor can be a subsidiary / have technical collaboration with /of a reputed foreign firm in the field of design / engineering / manufacturing / erection & commissioning of VPD of specified size / capacity. Credentials to be submitted with the offer.
3. The Vendor should have more than 10-years experience in designing, erection, commissioning & providing after sales services of VPD plant

Authorized Signatory
Transformers & Electricals Kerala Ltd.



A handwritten signature in blue ink, appearing to be "Rajesh".

TENDER TERMS AND CONDITIONS

This document contains 4 parts (1) Definitions (2) Instructions To Bidders (ITB) (3) General Terms and Conditions of Contract (GCC) (4) Special Terms and Conditions of Contract (SCC)

1. DEFINITIONS :

The following words and expressions shall have the meanings hereby assigned to them:

- 1.1 **COMPANY / OWNER :** Shall mean the TRANSFORMERS AND ELECTRICALS KERALA LIMITED, herein after shall be called as TELK, incorporated under the Companies Act 1956 with its registered office at Angamaly, Angamaly South P.O, Ernakulam (District), Kerala State, India and shall include its lawful successors and assigns.
- 1.2 **TENDERER / BIDDER /VENDOR :** Shall mean the person, firm, company or corporation to whom the tender documents have been officially issued by the company and who have duly submitted the same to the company.
- 1.3 **TENDER DOCUMENTS :** Shall mean the comprehensive set of documents issued by the company to the Bidder/ Tenderer comprising of the Notice Inviting Tender (NIT), Tender Terms & Conditions, Technical Specification with scope of work, information and instructions issued by the company from time to time, other documents, drawings, applicable standards etc.
- 1.4 **CONTRACTOR / SUPPLIER :** Shall mean the person or persons, firm or company whose tender has been accepted by the company and with whom the company has entered into an agreement for execution of the work and shall include their executors, successors, administrators and permitted assigns.
- 1.5 **SUBCONTRACTOR :** A person or business which has a contract (as an independent contractor and not an employee) with a contractor to provide some portions of work or services on a project which the contractor has agreed to perform.
- 1.6 **PRINCIPAL BIDDER/SUPPLIER :** A lead entity (which may include firms, agencies, suppliers, organizations, contractor etc.) or person, who has been nominated by all the partners of a consortium/joint venture authorized to incur liabilities, receive instructions and sign the contract agreement with the Client on behalf of any and all partners of the consortium/joint venture and who will also be the Principal Supplier after the signing of the contract agreement for the execution of the entire contract
- 1.7 **CONTRACT / ORDER:** Shall mean the agreement between the company and the contractor for the execution of the work and shall include all the documents such as Notice Inviting Tender, Tender Terms & Conditions, Technical Specification with scope of work, drawings, other documents, etc.
- 1.8 **CONTRACT PRICE / ORDER PRICE :** Shall mean lump sum amount specified in the contract as payable by the company for the work done by the contractor including the amount payable for the agreed deviations if any.
- 1.9 **WORKS :** Shall mean the works to be executed in accordance with the contract and includes all services and activities to be performed by the contractor under the contract.



- 1.10 **SPECIFICATION** : Shall mean the Technical Specifications forming a part of the Contract and such other schedules and drawings as may be mutually agreed upon.
- 1.11 **SITE** : Shall mean and include the land and other places on, into or through which the specified equipments / system are to be erected and commissioned and any adjacent land, path, street which may be allocated by the Company for the performance of the Contract.
- 1.12 **ENGINEER** : Shall mean the officer appointed by the Owner to act as Engineer in charge from time to time for the purpose of the Contract.
- 1.13 **DATE OF CONTRACT** : Shall mean the date on which Purchase Order/Work Order / Letter of Award (LOA) has been issued.

2. INSTRUCTIONS TO BIDDERS (ITB) :

2.1 GENERAL INSTRUCTIONS :

- 2.1.1 The Transformers and Electricals Kerala Limited having its registered office at Angamaly South P.O. Ernakulam District, hereinafter called 'TELK/Owner' will receive bids in respect of equipment to be supplied, erected and commissioned as set-forth in the accompanying Technical Specifications. All bids shall be prepared and submitted in accordance with these instructions.
- 2.1.2 Tenders shall be submitted online through the Government of Kerala e-tender portal <http://etenders.kerala.gov.in>.
- 2.1.3 TELK reserves the right to reject any bid which is not submitted according to the instructions stipulated in the tender documents.
- 2.1.4 The tender shall be submitted with Tender Fee and Interest-free Earnest Money Deposit (EMD) as specified in the NIT. Tender fee & EMD shall be paid by electronic transfer through the e-tender portal by vendors of Indian origin OR an amount of equivalent foreign currency to be transferred to the account of TELK, Angamaly (refer the Appendix-1 for details of the bank account) through swift transfer by vendors of Foreign origin. Bidder shall upload the transaction slip for such payments along with bid document cover-1. Payment of tender fee and EMD by any other mode of transaction is not acceptable and is liable to be rejected.
- 2.1.5 The EMD deposited by the unsuccessful Bidders/Tenderers will be refunded only 21 (twenty one) days after issue of the Letter of Award (LOA) for the work. No interest will be paid on EMD.
- 2.1.6 The successful Bidder's EMD will be returned upon Bidder's accepting the Letter of Award and furnishing the Performance Guarantee or Security Deposit as per SCC, Clause No. 4.19.
- 2.1.7 The EMD may be forfeited :
- (a) If the bidder withdraws their bid during the period of bid validity specified by the bidder on the bid form, or
 - (b) In case of a successful bidder, if the bidder fails:
 - (i) To accept the Letter of Award or
 - (ii) To furnish the Performance Bank Guarantee.
- 2.1.8 TELK shall always be at liberty to reject or accept any bid or bids at its sole discretion and

any such action will not be called into question and the bidder shall have no claim in that regard against TELK.

- 2.1.9 Bid submitted after the time and date fixed for receipt of bids as set out in this instruction to bidders are liable to be rejected.
- 2.1.10 The bidder shall also submit documentary evidence to establish that, the bidder meets the qualification requirements as detailed in clause No. 2.2 of the Instruction to Bidders.
- 2.1.11 The Tenderer shall satisfy TELK that, he possesses the necessary experience and that he has at his disposal suitable and required facilities and experienced employees to ensure that his work is of best quality and workmanship according to the latest proven technology and Engineering practices.
- 2.1.12 The Tenderer shall satisfy TELK that, he is financially sound and is in a position to fulfil contractual obligations offered to be undertaken by him.
- 2.1.13 Tenders submitted incomplete in any respect such as unattested corrections in rates, quantities, units or amounts, figures not expressed in words, totals of amounts not entered etc are liable to rejection. In case of variations in amounts expressed in words and figures, the amount as per words will be taken for evaluation.
- 2.1.14 The "Works" referred herein shall cover the entire scope of the proposal which includes supply and erection of equipment including the successful completion of commissioning and handing over the system for regular operation to TELK. In this regard, the joint protocol may be made between the contracting agency and TELK.
- 2.1.15 The bidder shall complete the bid form inclusive of price schedules, technical data requirements etc to be furnished in the bidding document for the goods to be supplied and services to be rendered, a brief description of goods & services, quantity and prices.

2.2 QUALIFYING REQUIREMENTS OF BIDDERS:

See the attached Annexure-2 Pre-Qualifying requirements for VPD along with the tender document and the PQR document shall be submitted by the vendors duly filled up in the prescribed format.

2.3 SCOPE OF PROPOSAL :

- 2.3.1 The scope of the proposal shall be completeness of the work on the basis of Principal bidder's responsibility, completely covering all the equipment / the system / specified under the accompanying technical specifications. It will include the following:
- Detailed design of the equipment.
 - Complete manufacturing including shop testing.
 - Providing Engineering drawing, data, operation manual etc for the owners approval.
 - Packing and transportation from manufacturers works to the site and transit insurance.
 - Receipt, Storage and Preservation of equipment at the site.
 - Erection, Testing and Successful Commissioning of the equipment under the contract.
 - Training of the concerned persons in TELK for the proper operation, precautions to be taken & maintenance.



2.4 CONTENTS OF TENDER DOCUMENT :

Tender documents provided by the owner in the e-tender site will be a compilation of following documents

Cover 1

- a. Notice Inviting Tender (NIT)
- b. Enquiry Letter
- c. Annexure-1 Specification cum Compliance Certificate for Vapour Phase Plant
(Technical Specifications)
- d. Annexure-2 Pre-Qualifying Requirement for VPD (PQR)
- e. Annexure-3 Tender Terms and Conditions
- f. Annexure-4 Bill of Quantity(BOQ) format
- g. Annexure-5 Layout Drawing
- h. Appendix-1 Owner's Bank details for EMD& tender fee transfer for foreign bidders
- i. Appendix-2 Bidders Authorization certificate
- j. Appendix-3 Authorization certificate by Principal Company
- k. Appendix-4 Self Declaration

Cover 2

- a. Bill of Quantity (BOQ).

All the documents except Priced BOQ shall be the part of Techno commercial bid and the same shall be uploaded in the Techno commercial part (Cover-1). Priced BOQ shall be the only document in the Price bid (Cover-2).

2.5 SUBMISSION OF BID :

The bidder is expected to examine all instructions, forms, terms and specifications in the Bid documents and fully inform himself as to all the conditions and matters which may in any way affect the scope of work or the cost thereof. Failure to furnish all information required by the Bid documents or submission of a bid not substantially responsive to the Bid document in every respect will be at the bidder's risk and may result in rejection of the bid.

The bidders bid submitted in the e-tender site shall contain the following duly signed & stamped

Cover 1

- a. Notice Inviting Tender (NIT)
- b. Enquiry Letter
- c. Annexure-1 Specification cum Compliance Certificate for Vapour Phase Plant
(Technical Specifications)
- d. Annexure-2 Pre-Qualifying Requirements
- e. Annexure-3 Tender Terms and Conditions
- f. Annexure-4 Un priced Bill of Quantity(BOQ) format (indicating "quoted" against appropriate columns))
- g. Bidders Commercial terms & techno-commercial deviations if any

- h. Technical data sheets if any
- i. All supporting documents to be submitted as per the Annexure-1, 2 & 3
- j. Appendix-2,3 & 4(as applicable)
- k. Details of EMD remittance

Cover 2

- a. Bill of Quantity (BOQ) Priced

All the documents except Priced BOQ shall be the part of Techno commercial bid and the same shall be uploaded in the Techno commercial part (Cover-1). Priced BOQ shall be the only document in the Price bid (Cover-2).

- 2.6 BIDS** (Techno-commercial and Price bids) shall be submitted separately in presentable formats (price bids in the BOQ format only) through the e-tendering portal of Government of Kerala. TELK will not assume any responsibility for errors, omissions or misinterpretations resulting from incomplete downloading of bid documents. The bids and documents submitted to TELK shall be in English language. All prices quoted shall be fixed for the entire duration of the contract.

2.7.1 TIME SCHEDULE :

- 2.7.1 The basic consideration and the essence of the Contract shall be in strict adherence to the time schedule for performing the specified works.
- 2.7.2 The Owner's requirements of completion schedule for the works are mentioned in the accompanying section - Special Conditions of Contract (SCC) CI No. 4.21
- 2.7.3 The successful Bidder shall complete the whole work in the agreed completion time.
- 2.7.4 The completion schedule as stated in the Section – SCC CI No. 4.21 shall be one of the major factors in consideration of the bids. TELK reserves the right to request for a change in the work schedule before the issue of the Order or Contract to the successful Bidder.

2.8 BID PRICE :

- 2.8.1 The Tenderer is advised to submit the tender strictly on the terms and conditions and specifications contained in the tender documents including amendments if any issued by TELK prior to submission of tender.
- 2.8.2 The tenderer shall quote his competitive price for supply and services in the BOQ format (Cover-2 Price bid) in the e-tender portal on firm price basis. The offer shall remain fixed, firm and binding and shall not be subject to any escalation/variation on any account.
- 2.8.3 The applicable taxes, duties, levy etc for the supply and services payable on the transaction between the Owner and the Bidder shall be indicated separately. Ref: SCC Clause No.4.20 for details.
- 2.8.4 The charges for transportation up to site, unloading charges at site, comprehensive insurance cover for transit-cum-storage-cum-erection shall be either included in the quoted price or mentioned separately.
- 2.8.5 The charges for erection, testing and commissioning etc shall be shown separately in BOQ.



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- 2.8.6 Income Tax if any shall be borne by the Tenderer. Refer SCC Clause No. 4.20 for details.
- 2.8.7 Tenderer shall submit the un-priced offer indicating the commercial details along with the Technical bid.

2.9 EVALUATION OF BIDS :

Techno-commercial evaluation of the bids will be carried out after the opening of techno-commercial bid and only those bids which are found qualified will be considered for Price bid opening.

Financial evaluation of the bids will be on the basis of 'To-Door Cost at TELK' Angamally (net cash outflow of TELK) and this will be taken into consideration for evaluating the lowest Bidder. For evaluation of bids all items in BOQ except **optional** items will be considered.

Taxes, duties and levies for which TELK has to pay and which are not eligible for availing any input tax credit will also be considered for the financial evaluation of the bids. (prevailing rates at the time of techno-commercial bid opening will be taken for such evaluation).

If vendors insist for any advancement in payment against the specified payment terms and causing additional cost to TELK will have the corresponding loadings on the financial evaluation at the rate of 0.05% per day.

2.10 LANGUAGE OF THE BID :

The bid prepared by the Bidder and all correspondence & documents relating to the bid exchanged by the Bidder and Owner shall be written in the English language. Information in any other language shall be accompanied by its translation in English. Failure to comply with this may disqualify the bid. In the event of any discrepancy in meaning, the English language copy of all documents shall govern.

2.11 SIGNING OF BIDS :

- 2.11.1 The bid must contain the name, residence and place of business of the person or persons or firm furnishing the tender and must be signed and sealed by the bidder with his usual signature. The tender can be signed by the authorized signatory and in that case proof of such authorization should be submitted with the tenders. All documents uploaded in the techno commercial bid shall be signed and sealed by the authorized signatory.
- 2.11.2 Erasures or other changes in the bid documents shall be over the initials of the person signing the bid.
- 2.11.3 Bids not conforming to the above requirements of signing may be disqualified.

2.12 INFORMATION REQUIRED WITH THE PROPOSAL :

- 2.12.1 The bids must clearly indicate the name of the manufacturer, the type of model of each principal item of equipment proposed to be supplied and erected. The bid should contain drawings and description of equipments/materials indicating general dimensions, material from which the parts are manufactured, principles of operation, the extent of pre-assembly involved, method of erection and details of special tools if any for erection of the equipment.
- 2.12.2 The above information shall be provided by the Bidder in the form of separate sheets, drawings, catalogues, etc.
- 2.12.3 Any bid not containing sufficient information to describe accurately the equipment proposed may be treated as incomplete and shall be rejected. Any major departure from

the drawings and descriptions submitted along with the offer will not be permitted during the execution of the Contract without specific written permission of the Engineer.

- 2.12.4 Standard catalogue pages and other documents of the Bidder may be used in the bid to provide additional information and data as deemed necessary by the Bidder.

2.13 LOCAL CONDITIONS :

Bidders are advised to inspect and examine the site and its surroundings and get familiarized and satisfied himself with respect to local conditions, site conditions, the form and nature of site, the means of access to site etc. He may also try to get information like availability of accommodation that may be required and information on all kind of contingencies that may be arranged to get the work executed. It must be understood and agreed that such factors have been properly been investigated and considered while submitting the proposal. Site visit if required shall be completed by the interested bidders well before the due date of the tender. The Owner shall not entertain any request for clarification from bidders, regarding such local conditions.

2.14 UNDERSTANDING OF BID DOCUMENTS :

The bidder is expected to examine all instructions, forms, terms and specifications in the Bid documents and fully inform himself as to all the conditions and matters which may in any way affect the scope of work or the cost thereof. Failure to furnish all information required by the Bid documents or submission of a bid not substantially responsive to the Bid document in every respect will be at the bidder's risk and may result in rejection of the bid.

2.15 CLARIFICATIONS ON BID DOCUMENTS AND SPECIFICATIONS :

- 2.15.1 Contractor shall carefully examine all Bid Documents to his entire satisfaction. If the Bidder finds discrepancies or omissions in specifications and documents or is in doubt as to the true meaning of any parts he shall at once make a request in writing for an interpretation/clarification to the owner. TELK then, will issue interpretation and clarifications as it may think fit in writing. After receipt of such interpretations and clarifications, the Bidder may submit his bid but within the time and date as specified in the NIT. All such interpretations and clarifications shall form a part of the specifications and documents and accompany the Bidder's proposal. A Bidder requiring any clarification on bidding document may notify the owner in writing. The owner will respond in writing to any request for such clarifications of the bidding document which it receives not later than fifteen days (15) prior to the deadline for submission of bids prescribed by the Owner. Written copies of owner's response will be sent to all Bidders who have received the Bidding document.

- 2.15.2 To assist the examination, evaluation and comparison of bids, TELK may ask the bidders for clarification of their bids. The request for clarification and the response shall be by fax or e-mail, but no change in the prices or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by TELK during the evaluation of bids.

- 2.15.3 Verbal clarifications and information given by the Owner or his employee(s) or his representative(s) shall not in any way binding on the Owner.

2.16 PERIOD OF VALIDITY OF BID :

The tender will be considered FIRM for acceptance for a period of **180 (One Hundred and Eighty) days from the date of opening of the tender (Techno-commercial bid opening)**. The Tenderers will not be free to withdraw or modify their tender within this period, except at the risk of forfeiture to the Company of the Earnest Money deposited. If



it is found necessary to keep the tender open for a further period, prior consent of the bidder shall be taken, in writing for every further period.

- 2.17 FORMAT OF BID :** Format of Price bid (BOQ) will be available in the e-tender portal. Bidder's are requested to quote for applicable items in the BOQ.
- 2.18 QUALITY ASSURANCE :**
- 2.18.1 The bidder shall include in his proposal the Quality Assurance Programme containing the overall quality management and procedures which he proposes to follow in the performance of the work during various phases like raw material procurement, procurement of bought out items, manufacturing, erection and testing.
- 2.18.2 At the time of award of contract the detailed Quality Assurance Programme to be followed for the execution of the contract will be mutually discussed and agreed to and such programme shall form a part of the contract.
- 2.19 INSURANCE :**
- The Bidder's insurance liabilities pertaining to the scope of Works are detailed out in the clause titled 'Insurance' in General Conditions of Contract (GCC) Cl No.3.8. Bidder's attention is specifically invited to this clause. Bid price shall include all the cost to fulfil all insurance liabilities under the contract.
- 2.20 PAYMENT TERMS :** As per Special Conditions of Contract (SCC) Clause. 4.18.
- 2.21 RIGHT TO ISSUE AMENDMENT TO TENDER DOCUMENTS :**
- 2.21.1 At any time prior to the dead line for submission of bids, the Owner may, for any reason whether at its own initiative or in response to a clarification requested by a Bidder, modify the bidding documents by amendment(s).
- 2.21.2 The amendments will be notified in the e-tender portal and an email intimation will be sent to all Bidders who have received the Bidding documents. Owner will bear no responsibility or liability arising out of non- receipt of the same or otherwise.
- 2.21.3 In order to afford the bidders reasonable time to take the amendments into account in preparing their bids the owner may at its discretion extend the deadline for submission of bids.
- 2.21.4 Such amendments, clarifications, etc shall be binding on the bidders and due consideration will be given by the bidders while they submit their bid and invariably enclose such documents as a part of the bid. TELK reserves the right to issue any amendment to tender documents and to add or clarify, supplement, delete any of the conditions, clauses or items stated in the tender documents.

3. GENERAL TERMS & CONDITIONS OF CONTRACT (GCC)

3.0 SCOPE OF CONTRACT :

The scope of the Contract shall be the design, manufacture, supply & erection including testing, commissioning and successful handing over of the equipment in accordance with the specifications and other documents forming part of the contract which is detailed in the SCC Cl. No.4.2

3.1 AWARD OF CONTRACT :

3.1.1 If the company desires the intimation of intention to award the contract will be made in writing to the successful Tenderer by the company/Consultant initially in the form of Letter Of Intent which will be formalized by a Purchase Order/Work Order/Letter of Award and an agreement is to be signed by the Tenderer and the company.

3.1.2 The Contract will be awarded to the best qualified and responsive Bidder offering the lowest evaluated bid in conformity with the requirements of the specifications and other documents and TELK shall be the sole judge in this regard and subject to the provisions of Instructions to Bidders and other terms and conditions detailed out in other documents and specifications. A responsive bid is one which accepts all the terms and conditions of the specifications and documents without any major modifications. However, TELK may waive any minor informalities or irregularities in the bid.

3.1.3 The acceptance of the tender rests with the Owner who does not undertake to accept the lowest or any other particular tender or to assign any reason thereof.

3.1.4 The right to award the contract either in conformity with or in a manner entirely different from the terms of the bid document that may be considered most suitable before or subsequent to the receipt of bids due to exigencies, is reserved with TELK.

3.1.5 The contractor on receipt of the Purchase Order /Work Order/Letter of award shall return copy of all the received documents duly signed and stamped in original by the authorized signatory of Contractor and send it to TELK within Fifteen (15) days as a token of acceptance of the Purchase Order/Work Order/Letter of award.

3.1.6 The company after issue of the Purchase Order/Work Order/ Letter of award shall send to the contractor a copy of an agreement for his signature. The agreement shall be signed in the office of TELK at Angamally within 60 (Sixty) days from the date of Work Order/ Letter of award.

3.2 GENERAL OBLIGATION :

3.2.1 The Contractor shall design, manufacture (including associated purchases and/or subcontracting), install and shall execute all work with due care and diligence, following good engineering practices and within the time frame for completion of the work. The Contractor shall also adhere minutely to the approved drawings, specifications and other written instructions relating to the work which may be issued from time to time by the Company or Company's Engineer authorized in this behalf.

3.2.2 The contractor shall also comply with all applicable laws in the execution and performance of the work under the contract.



- 3.2.3 The contractor shall be available at site or shall keep a competent and fully authorized representative available at site and a letter intimating the posting of authorized representative shall be given to the owner. The authorized representative shall also supervise the work under the contract. The orders given by the company to the Contractor's representative shall be considered to have the same effect as if they have been given to the Contractor himself. Such representative shall be authorized to represent the contractor in all matters related to the contract.
- 3.2.4 The works under execution shall always be open to the Inspection and Supervision of the Company's Engineer or its authorized representative.
- 3.2.5 On all questions relating to the meaning of drawings and specifications and to quality of workmanship and materials used on the work, the Company's decision shall be final and conclusive.

3.3 ENGINEER'S DECISION :

- 3.3.1 In respect of all matters which are left to the decision of the Engineer including the granting or with-holding of the certificates, the Engineer shall, if required to do so by the Contractor give in writing a decision thereon.
- 3.3.2 If in the opinion of the Contractor, a decision made by the Engineer is not in accordance with the meaning and Intent of the Contract, the Contractor may file with the Engineer within fifteen (15) days after receipt of the decision, a written objection to the decision. Failure to file an objection within the allotted time will be considered as acceptance of the Engineer's decision and the decision shall become final and binding.

3.4 CONTRACTOR TO INFORM HIMSELF FULLY :

- 3.4.1 The Contractor shall be deemed to have carefully examined all Contract Documents to his entire satisfaction. If there is any doubt in any portion of the Contract Documents which needs any clarification, the bidder may submit those points to TELK in writing and get clarified before submission of tender. TELK will provide such clarifications as may be necessary in writing to the Contractor. Any information otherwise obtained from any source shall not in any way relieve the Contractor of his responsibility to fulfil his obligations under the Contract.
- 3.4.2 By submitting the tender, he is also deemed to have visited site and gathered information so as to submit his valued offer considering the site conditions, local conditions, labour conditions etc and these factors also give an idea of the problems he may face during the execution of the contract. The Owner shall not entertain any request for clarifications from the bidders, regarding such local conditions.

3.5 CO-OPERATION WITH OTHER AGENCIES :

- 3.5.1 Company is getting various other Civil, Structural, Mechanical, Electrical works executed at the same time directly or through other agencies/contractors within its factory campus where the works under this tender also have to be executed. It is the responsibility of the contractor to co-operate with other working agencies / contractors within the campus so that others works are not affected / damaged due to his site activities.

3.6 LIABILITY FOR ACCIDENTS AND DAMAGES TO TELK STRUCTURE :

- 3.6.1 The Contractor shall be responsible for loss or damage to the equipment / system which are under the contract till the equipment/system is taken over by TELK.
- 3.6.2 Contractor should also ensure that, no damage is made to owner's existing structures/equipments due to his site activities. In case, any such damages incurred, same should be rectified at the cost of the contractor.

3.7 DEDUCTIONS FROM CONTRACT PRICE:

All costs, damages or expenses which TELK may have paid, for which under the Contract the Contractor is liable, will be claimed by TELK. All such claims shall be billed by TELK to the Contractor regularly as and when they fall due. Such bills shall be supported by appropriate and certified vouchers or explanations, to enable the Contractor to properly identify such claims. Such claims shall be paid by the Contractor within fifteen (15) days of the receipt of the corresponding bills and if not paid by the Contractor within the period, TELK may then deduct the amount, from any money due or becoming due to the Contractor under the Contract or may be recovered by actions of Law or other-wise, if the Contractor fails to satisfy TELK of such claims.

3.8 INSURANCE :

The contractor shall arrange, secure and maintain an insurance policy as may be necessary and for all such amounts to protect his interest and the interest of TELK, against all risk. The form and the limit of such insurance, as defined herein together with the under-writer thereof in each case shall be acceptable to TELK. However, irrespective of such acceptance, the responsibility to maintain adequate insurance policy coverage on comprehensive all risks basis at all times during the period of Contract shall be that of the Contractor alone. The Contractor's failure in this regard shall not relieve him of any of his contractual responsibilities and obligations.

Any loss or damage to the equipment during handling, transporting, storage and erection till such time the equipment / system is taken over by TELK shall be to the account of Contractor. The Contractor shall arrange, secure and maintain an insurance policy as may be necessary and for all such amounts to protect his interests and the interests of TELK, against the risks that are to be covered under the insurance like fire, lightning, earth quake, flood, pilferage, theft, damage in transit etc.

3.9 CONTRACT AGREEMENT AND CONTRACT PERFORMANCE GUARANTEE :

- 3.9.1 The Contractor shall enter into a Contract Agreement with TELK within **Sixty days (60)** days from the date of Purchase Order/Work Order/Letter of Award. The Performance Bank Guarantee for the proper fulfilment of the Contract shall be furnished by the Contractor in the prescribed form within sixty (60) days from date of Purchase Order/Work Order/Letter of Award. The Performance Guarantee shall be as per terms prescribed in SCC Cl. No. 4.19
- 3.9.2 Single Contract Agreement shall be signed combined by the suppliers in case of multiple order placed on different suppliers. All the work orders shall be included in this contract



agreement and breach of any of the work order shall be considered as breach of the contract agreement.

- 3.9.3 All Bank Guarantees shall be arranged from any nationalized/scheduled banks preferably State Bank of India

3.10 EFFECT AND JURISDICTION OF CONTRACT :

- 3.10.1 The Contract shall be considered as having come into force from the date of the issue of Purchase Order/Work order/Letter of Award.
- 3.10.2 All disputes, differences arising out of or in connection with the contract shall be subject to the exclusive Jurisdiction of the Courts at Ernakulam, Kerala State, India.

3.11 ASSIGNMENT AND SUB-LETTING OF CONTRACT :

The Contractor may, after informing the Engineer and getting his written approval, assign or sub-let the Contract or any part including erection. Such assignment /sub-letting shall not relieve the Contractor from any obligation, duty or responsibility under the Contract. Any assignment as above without prior written approval of Engineer shall be void and shall be construed as a Contracting Default as mentioned in Clause No.3.13.

3.12 PATENT RIGHTS AND ROYALTIES :

Royalties and fees for patents covering materials, articles, apparatus, devices, equipments or processes used in the Works under the contract shall be deemed to have been included in the Contract Price. The Contractor shall satisfy all demands that may be made at any time for such royalties or fees and he alone shall be liable for any damages or claims for patent infringements and shall keep TELK indemnified in that regard. The Contractor shall, defend all suits or proceedings that may be framed for alleged infringement of any patents involved in the equipment/process of the Works under the contract at his own cost and expense. In the event of any equipment/device/process provided by the contractor is in such suit or proceedings of alleged infringement of any patent rights the contractor shall at his own expense, either procure the right to continue the use of such equipment / process or replace it with non-infringing equipment. In case of any suit or other proceedings instituted against TELK, the same shall be defended at the cost and expense of the Contractor who shall also satisfy/comply any decree, order or award made against TELK.

3.13 CONTRACTORS DEFAULT :

- 3.13.1 If the Contractor becomes insolvent, or otherwise becomes unable to carry out the work or if without the written consent of the Company, the Contractor assigns or sublets this contract or if in opinion of the Company the Contractor delays or neglects to finish the work in time or shall refuse to execute the work in time, the Company may give notice in writing to the contractor to make good the failure. In case the contractor fails to comply with the notice in thirty (30) days, it shall be at the liberty of TELK to terminate the contract forthwith and employ any other agency to continue and complete the work at the risk and cost of the Contractor. The Contractor shall have no claim to compensation for any loss that may incur from any materials he may have procured or engagements he may have made into on account of this work.

3.13.2 In the event of termination of contract as mentioned above, the Contractor shall not be entitled to recover or be paid any sum for any work thereto actually performed under this contract unless and until the company shall have certified the performance of such work and the value thereof. The Contractor shall only be entitled to be paid the amount so certified after deducting the value of damages if any caused to the Company.

3.14 FORCE MAJEURE :

3.14.1 Force majeure is herein defined as any cause which is beyond the control of the Contractor or the TELK as the case may be which they could not foresee or with a reasonable amount of diligence could not have foreseen and which substantially affect the performance of the Contract, such as:

- (a) natural phenomena, including but not limited to floods, droughts, earthquakes and epidemics,
- (b) acts of any Government, including but not limited to war, declared or undeclared, priorities, quarantines, embargoes,
- (c) provided either party shall within fifteen (15) days from the occurrence of such a cause notify the other in writing of such causes.

3.14.2 The Contractor or TELK shall not be liable for delays in performing his obligations resulting from any force majeure cause as referred to and/or defined above. The date of completion will, subject to hereinafter provided, be extended by a reasonable time even though such cause may occur after Contractor's performance of his obligations has been delayed for other causes.

3.15 TERMINATION OF CONTRACT ON TELK INITIATIVE :

3.15.1 TELK reserves the right to terminate the Contract either in part or in full due to reasons other than those mentioned under the clause entitled Contractor's Default. TELK shall in such an event give fifteen (15) days' notice in writing to the Contractor of its decision to do so.

3.15.2 The Contractor upon receipt of such notice shall discontinue the work under the contract to the extent specified in the notice with immediate effect. The contractor shall stop all further sub-contracting or purchasing activity related to the work terminated, and assist TELK in maintenance, protection, and disposition of the works acquired under the Contract.

3.15.3 In the event of such a termination, the Contractor shall be paid compensation, equitable and reasonable, dictated by the circumstances prevalent at the time of termination.

3.15.4 If the Contractor is an individual or a proprietary concern and the individual or the proprietor dies and if the Contractor is a partnership concern and one of the partners dies, then unless TELK is satisfied that the legal representatives of the individual Contractor or of the proprietor of the proprietary concern and in the case of partnership, the surviving partners, are capable of carrying out and completing the contract, TELK shall be entitled to cancel the Contract as to its incomplete part without being in any way liable to payment of any compensation to the estate of deceased Contractor and/or to the surviving partners of the Contractor's firm on account of the cancellation of the Contract. The decision of TELK that, the legal representatives of the deceased Contractor or surviving partners of the Contractor's firm cannot carry out and complete the Contract shall be final and binding on the parties. In the event of such cancellation, TELK shall not hold the



estate of the deceased Contractor and/or the surviving partners of the estate of the deceased Contractor and/or the surviving partners of the Contractor's firm liable to damages for not completing the Contract.

3.16 TIME - THE ESSENCE OF CONTRACT :

3.16.1 The time and the date of completion of the Works as stipulated in the Contractor's proposal and accepted by TELK and incorporated in the Letter of Award shall be deemed to be the essence of the Contract. The Contractor shall so organize his resources and perform his work as to complete it not later than the date agreed to. Ref SCC Clause No.4.21 for details

3.17 CHANGE OF QUANTITY :

The Owner reserves the right to change the quantities of items or groups of items to be ordered as specified in the accompanying Technical Specifications, as may be necessary, during the execution of the Contract, but such variations unless otherwise specified in the accompanying Technical Specifications shall be limited to plus or minus twenty percent (20%) of the original quantity ordered.

3.18 MATERIALS BROUGHT BY THE CONTRACTOR :

3.18.1 All materials brought by the contractor for use in the work shall be in good condition and shall be presented for inspection to the Engineer-in-Charge of the company and if rejected for any reason the contractor shall replace it at his cost.

3.18.2 The materials, tools and equipments brought by the contractor to the company's premises shall not be removed without the written consent of the Engineer-in-Charge or any officer authorized for that by the company.

3.18.3 All materials, tools, equipment brought to the Company premises shall be entered as per the guideline of the company and the formalities to be followed are to be collected from the Engineer-in-Charge or the authorized person of the Company.

3.19 REPLACEMENT OF DEFECTIVE PARTS AND MATERIALS :

3.19.1 During the progress of works, if it has been observed by the Engineer that the contractor has manufactured any equipment/plant or part of the plant/equipment in unsound or imperfect manner or has supplied any part of the equipment/system inferior than the quality specified, the contractor on receiving the details of such defects or deficiencies shall at his own expense re-construct or remove such work and furnish fresh equipment to the satisfaction of the Engineer. In case, contractor fails to do the rectifications / replacement, the Engineer will get the deficiencies rectified at the cost of the Contractor after giving seven (7) days notice to the contractor.

3.20 LIABILITY FOR ACCIDENTS AND DAMAGES :

3.20.1 ACCIDENT TO WORKERS :

The Contractor will be liable for payment of all claims of damages, compensation or expenses payable as a result of any accident or injury sustained by workmen employed or used by him for the execution of the contract. The expenses, if any, incurred by the Company for medical expenses to the Contractor's workmen will be realized from him either by way of adjustment in his bills or deduction from the Security Deposit as the Company deems fit. If any accident or injury is sustained by any worker, the Contractor

should immediately inform the Company's Engineer. The contractor shall comply with all labour laws in this regard and any other applicable laws in force.

3.20.2 SAFETY MEASURES :

The contractor has to make his own arrangement to ensure safety of the workers deployed by him. He has to provide all personnel safety appliances like safety helmet, safety belt, safety shoe etc. He has to follow the instructions given by the Safety Officer of Owner.

3.21 LIQUIDATED DAMAGES FOR DELAY IN COMPLETION :

As per SCC Clause No. 4.22.

3.22 DELAYS BY TELK/OWNER OR HIS AUTHORIZED AGENT.

In case the performance of Contractor is delayed due to any act of omission on the part of the Owner or his authorized agents, then the Contractor shall be given due extension of time for the completion of the Works, to the extent such omission on the part of TELK / Owner has caused delay in completing the work awarded to the Contractor by the owner. Regarding reasonability of time extension, the decision of the Engineer shall be final.

3.23 COMPANY / OWNERS OBLIGATION :

3.23.1 **Water and power supply** [each at one point only] for the construction purpose at TELK premises will be provided by the Owner for carrying out the fabrication/erection/testing/commissioning jobs. Electric power will be provided on chargeable basis. The electricity tariff charged will be as per the standard norms of the Owner. The Contractor shall make his own arrangements for taking power from the above point for the construction purpose. All the safety/protection measures shall be provided while availing power from the single connection. Water required for the construction purpose will be provided free of cost. It has to be noted that, this will be entirely at the discretion and convenience of the Company and supply of water/power cannot be claimed by the Contractor as a matter of right.

3.23.2 Company will hand over the site for erection in proper form as per the contract.

3.24 WAGES TO LABOUR.

- a. The contractor shall comply with the provisions of the Minimum Wages Act and the Payment of Wages Act and the Rules framed there under in respect of the employees employed by him in the execution of works under the contract.
- b. The Contractor shall be familiarized himself with the Contract Labour (Regulation and Abolition) Act 1970 and the Rules there under and should obtain the license for engaging the labor as per the above Act before commencing the works.

3.25 COMPLIANCE WITH EMPLOYEES STATE INSURANCE & PROVIDENT FUND LAWS :

3.25.1 If and when the Employees State Insurance Act and the Employees Provident Fund and Miscellaneous Provisions Act is made applicable to the site work, the contractor should accept full responsibility and exclusive liability for compliance with all obligations imposed by the said two Acts from time to time.



3.25.2 If the provisions of Employees State Insurance Act (ESI) and the Employees Provident & Miscellaneous Provisions Act (PF Act) are applicable to the contractor, the contractor shall be liable to arrange the following for his work:

- (a) To register all his workmen under the ESI scheme before starting the work and to submit the attendance particulars and statement of wages, contribution due and paid for the period on or before 5th day of the succeeding month to the ESI section of the Owner.
- (b) To recover PF and PF dues if any (both Employer's and Employees) in accordance with the provisions of the PF Act
- (c) Failure to comply with the above will attract penalty and the Accounts Department of the Owner will recover the due amount from the Contractor's bill without any reference or Notice.
- (d) The contractor shall maintain a register/muster sheet showing clearly the name of workmen, wages paid, PF deduction made etc and submit the same to the Human Resource (HR) Department of the Owner.
- (e) In case the contract is exempted from the provisions of the above mentioned Acts, he shall produce authentic documentary evidence in support of the same and satisfy and convince the concerned officer in the HR Department of the Owner.

3.25.3 The contractor has to comply with the provisions of the Kerala Construction Workers Welfare Fund Contribution (if applicable) and the amount is to be remitted to K.C.W.F at the rate of 1% of erection value and a compliance report to that effect has to be submitted to the concerned officer in the HR Department of the Owner.

3.26 OBJECTION TO CONTRACTORS EMPLOYEES :

The owner shall be at liberty to object to, and require the contractor to remove forthwith from the works, any person employed by the contractor in or about the execution of the work who in the opinion of the Owner, misconducts himself or is incompetent or negligent in the proper performance of his duties or whose employment is otherwise considered undesirable by the Owner.

3.27 PROVISION OF WORKMEN'S COMPENSATION ACT :

In every case in which by virtue of the provisions of the Workmen's Compensation Act, the Owner is obliged to pay compensation to a workman employed by the contractor in the execution of the work, the Owner will be entitled to recover from the contractor the amount of compensation so paid and without prejudice to the right of the Owner under the said Act, the Owner shall be at liberty to recover such amount or any part thereto by deducting it from any other sum payable to the contractor.

3.28 CLEARANCE OF SITE ON COMPLETION OF WORK :

On completion of the work, the contractor shall remove all temporary structures, debris etc from factory premises to the satisfaction of TELK and hand over the site at which he has worked in clean condition.

3.29 LANGUAGE OF THE CONTRACT :

All documents pertaining to the Contract including specifications, schedules, notices, correspondence, operating and maintenance instructions, drawings or any other writing shall be written in English language. Information in any other language shall be

accompanied by its translation in English. The metric system of measurement shall be used exclusively in the Contract.

3.30 DEFENCE OF SUITS :

If any action in Court is brought against TELK or Engineer or an officer or agent, for the failure or neglect on the part of the Contractor to perform any acts, matters, covenants or things under the Contract, or for damage or injury caused by the alleged omission or negligence on the part of the Contractor, his agents, representatives or his sub-contractors, workmen, suppliers or employees, the Contractor shall in all such cases indemnify and keep TELK, and the Engineer and / or his representative, harmless from all losses, damages, expenses or decrees arising of such action.

3.31 PROGRESS REPORTS.

During the various stages of the works in the pursuance of the Contract, the Contractor shall at his own cost submit periodic progress reports as may be reasonably required by the Engineer with such materials as charts, net works, photographs, test certificates, etc. Such progress reports shall be in the form and size as may be required by the Engineer and shall be submitted in at least three (3) copies.

3.32 INSPECTION :

The contractor shall offer the Equipment / Material for inspection before dispatch by the owner/ any agency authorized by owner. The contractor shall submit the manufacturing quality plan for approval by the owner and stage inspection if any shall be finalized after mutual discussion with the successful bidder.

3.33 SPARES :

3.33.1 Mandatory Spares

Mechanical, hydraulic, electrical and electronic spares for the VPD and accessories, in sufficient quantity as per recommendation of Vendor, for the initial 2 years of trouble free operation on three shifts continuous running basis shall be included in the quoted price and to be supplied free of cost. A list of such items with individual rates shall be submitted along with the techno-commercial bid of offer. Any other spares required beyond this list during the Warranty period also to be supplied free of cost

3.33.2 Recommended Spares

The lump sum Rate of spares (Mechanical, hydraulic, electrical and electronic) recommended for next 3 years after the expiry of Warranty period shall be quoted in the BOQ as optional under the head of Recommended Spares in the BOQ. The list of the same shall be included in the techno-commercial bid indicating the rate of each item. The offered price of spares shall be valid for a total 5 years from date of tender opening.

The procurement of recommended spares will be at the sole discretion of TELK.



4. SPECIAL TERMS & CONDITIONS OF CONTRACT (SCC)

4.1 GENERAL :

- 4.1.1 The following special conditions shall be read in conjunction with General Terms & Conditions of Contract (GCC), Instructions To Bidders (ITB) and amendments/corrections thereto. If there are provisions in this special conditions of contract which are at variance with the provisions in the other tender documents, the provisions in the special conditions of contract shall take precedence.
- 4.1.2 For any other item of work not covered in the specification, the same shall be done as per the relevant National/International standards/codes of practice/sound engineering practice as directed by the owner/consultant.

4.2 SCOPE OF WORK :

The scope of supply and services consist of design, manufacture, testing of sub assemblies / accessories at vendor's works, supply, erection, testing, commissioning, handing over and prove out of VPD plant at TELK, Angamaly. The scope of work and services is given in detail in **Technical Specifications Clause No.1.0**. The bidder shall provide all kinds of labour, tools & tackles for the execution of the work under the scope of work. Scope of work of supplier shall be clearly mentioned in the technical bid.

4.3 MATERIALS :

All the materials required for the work shall conform to relevant National/International Specifications. The type test certificates, Routine test certificates and Acceptance test certificates are also to be submitted as per the Specifications/Manufacturing Quality Plan (MQP) approved by the Owner / Consultant.

4.4 STORAGE OF MATERIALS :

- 4.4.1 Contractor has to take full responsibility for carrying out the storage, erection, testing, start up and commissioning of VPD with its control system & all type of other supplied equipment including prove out test etc. Plain storage area will be provided by TELK for which requirement shall be furnished in the offer.
- 4.4.2 The successful Bidder shall bring all tools and tackles required for erection and commissioning of the plant. Cranes required for unloading & erection shall be arranged by the Vendor. Necessary tools like torque wrench, spanners, keys, grease guns etc. for operation and maintenance of the plant shall be supplied along with the plant. List of such tools should be submitted with the offer

4.5 PROCUREMENT OF MATERIALS:

Contractor shall make his own arrangements for the procurement of all materials required for the work.

- 4.6 Whenever National/International standards are referred to particular specifications of equipment, the latest revisions prevalent at the time of tendering shall be followed. Bidder shall ensure the interchangeability of parts wherever possible.

4.7 TENDER/EXECUTION DRAWINGS:

Owner's plant layout drawing will be furnished along with the tender document Annexure.5. Vendor shall prepare their equipment layout drawings in line with our plant layout drawing and to be submitted along with the technical bid. The Contractor shall prepare working drawings necessary for the approval by the Owner / Consultant at the time of execution.

4.8 CONTRACT PRICE :

The lump sum prices quoted by the Contractor in his bid with additions and deletions as may be agreed before signing of the Contract, for the entire scope of the work viz. supply and erection of equipments covered under the specifications and documents shall be treated as the Contract Price. The rates specified in the Letter of Award /-Work order shall be fixed firm and no claim for enhancement / escalation on any ground whatsoever will be entertained and considered.

4.9 CONSTRUCTION OF THE CONTRACT :

4.9.1 Notwithstanding anything stated elsewhere in the bid documents, the Contract to be entered into will be treated as a divisible supply and erection Contract.

Award will be placed on the successful Bidder as follows.

i) First Contract: Supply of all materials, equipments & accessories with door delivery at TELK, Angamally.

If necessary the supply portion may be treated as further divisible if supply of some of the items are in scope of a foreign supplier in foreign currency & rest of the items are in the scope of a domestic supplier in INR & the domestic supplier shall be the authorized agent of the foreign supplier.

ii) Second Contract: For providing erection, testing, satisfactory commissioning and all other services in respect of all the equipment supplied under the first contract

iii) Both these contract will contain interlinking cross – fall breach clause specifying that breach of one contract will constitute breach of the other contract.

iv) Contract for Annual Maintenance Contract (AMC) after the completion of warranty period. This contract shall also be signed along with the above contracts.

4.9.2 In case of divisible supply and erection contract, or where TELK hands over its equipment to the contractor for executing, then the contractor shall at the time of taking over of the equipment is required to give an undertaking in the form acceptable to TELK for keeping the equipment in safe custody and to utilize the same exclusively for the purposes of the said contract.

4.9.3 The Contract shall in all respects be construed and governed according to Indian laws.

4.9.4 It is clearly understood that, the total consideration for the Contract(s) has been broken up into various components only for the convenience of payment of advance under the Contract(s) and for the measurement of deviations or modifications under the Contract(s).

4.10 CONTRACT DOCUMENTS :

The contract documents are confidential and strictly for the contractor's use and for the sole purpose of the contract. During the performance of Contractor Services, Contractor may be exposed to Confidential Information. Without Hiring Party's prior written consent, Contractor will not: (a) disclose Confidential Information to any third



party; (b) make or permit to be made copies or other reproductions of Confidential Information; or (c) make any commercial use of Confidential Information.

4.11 PROGRAMME OF WORK AND PROGRESS OF REPORTS :

After the acceptance of the order, the vendor shall, within ten days, submit a detailed program taking into account the total time period stipulated in the contract.

The program approved by the Owner / Consultant shall be final and binding on the Contractor.

4.12 DETAILED WORKING DRAWINGS & QUALITY PLAN :

The detailed drawings & MQP for execution of work are to be prepared by the vendor as per the relevant National /International specifications and other statutory/regulatory requirements and approval of the same from the Owner / Consultant shall be obtained before starting any manufacturing.

4.13 COORDINATION :

The Contractor shall co-operate and co-ordinate with the people engaged in the normal production of the Owner or any other agencies working in the project area, compare plans, specifications and the time schedules and so arrange his work so that there will be no interference. However, the vendor shall arrange necessary facilities to execute the work simultaneously with other agencies. No claim on this account shall be entertained.

4.14 TESTS :

The Contractor/sub vendor shall conduct all the tests as per the technical spec and shall submit necessary test certificates/reports. All tools, instruments, plants and labour/operating personnel for the tests shall be provided by the Contractor at his own cost.

4.15 PACKING, FORWARDING AND SHIPMENT :

4.15.1 The Contractor, wherever applicable, shall after proper painting, pack all equipment in such a manner as to protect them from deterioration and damages while transporting them to the Sites and its storage at the Sites till the time of erection. The dimension, approximate weight, indication for location of sling for lifting the material/cases and other important instructions to be taken care of while handling of the cases/packets are to be written on them.

4.15.2 Standard & rigid packing for all items of complete VPD & PLC systems with all accessories and other supplied items to avoid any damage / loss in transit. When VPD is dispatched in containers, all small loose items shall be suitably packed in boxes. Location for slinging to lift the packing shall be clearly indicated. Weights of each packet / boxes / items are to be clearly indicated.

4.15.3 All demurrage, wharfage and other expenses incurred due to delayed clearance of the material or any other reason shall be to the account of the Contractor.

4.15.4 Packing list shall be attached on each consignment. Also the purchase order No., Invoice No., package number etc shall be clearly indicated.

4.16 SITE FOR PLANTS/EQUIPMENT, STACKING OF MATERIALS AND LABOUR :

The Contractor shall stack materials at the site of work strictly as per instructions of

Engineer-in-charge keeping in view the safety and smooth progress of the project.

Nothing extra shall be payable for any extra lead involved in stacking the materials at a reasonable distance away from the work place.

4.17 SITE MAINTENANCE DURING CONSTRUCTION :

The Contractor shall from time to time clear and remove all rubbish obstructions from the site and the work area shall be kept clear and unobstructed at all times. Nothing extra shall be paid on this account.

4.18 PAYMENT TERMS : The documents clearly stating the proposed scope of supply, erection, testing and commissioning shall be submitted by the bidders along with the technical bid. Original parts list showing details of entire supply portion with item description, rating/specification, make/source, quantity, etc shall be submitted along with the technical bid. Owner shall be able to verify the list of equipments/accessories/parts in the actual supply list/invoice in comparison with the original parts list for making the payments. The payments will be made after verifying the items in the Invoice with the

approved original parts list.

Any other payment terms having extra cost implication to TELK shall be considered for price evaluation as specified in ITB Clause No. 2.9

The payment terms will be as follows :

4.18.1 Supply Portion :

- i) 15% Advance payment on order acceptance, against proforma invoice and submission of irrevocable Bank Guarantee for an equivalent amount valid upto delivery of material at site. Payment will be through bank transfer.
- ii) 65% through 60 days Letter of Credit (LC).
For Foreign suppliers quoted in foreign currency LC will be opened on readiness of material and is negotiable against despatch/shipping documents. Credit period of 60 days will be reckoned from date of submission of despatch/shipping documents.

For Indian suppliers quoted in INR LC will be opened on readiness of material and is negotiable against receipted Lorry receipt/Delivery chellan. Credit period of 60 days will be reckoned from the date of receipt of material at TELK.

LC opening charges at owner's bank will be to owner's account and supplier's bank to suppliers account.

LC opening charges to owner's account (prevailing rate at the time of techno-commercial bid opening) will be loaded in the quoted rates for evaluation.

Any advancement in the date of negotiation or credit period from the above mentioned terms will be loaded at 0.05% per day of the respective Values.

- iii) 10% Payment against successful completion of entire erection works at TELK and job prove out of at least one job at TELK. Payment will be through bank transfer within 30 days.
- iv) Balance 10% payment after successful commissioning and acceptance of VPD by TELK & on submission of Performance Guarantee for 10% of basic Contract value. Payment will be through bank transfer within 30 days.

4.18.2 Erection Portion :



- i) 50% Payment after successful completion of entire erection works at TELK and job prove out of at least one job at TELK. Payment will be through bank transfer within 30 days.
- ii) Balance 50% Payment after successful commissioning and acceptance of VPD by TELK & on submission of Performance Guarantee for 10% of basic Contract value. Payment will be through bank transfer within 30 days.

4.18.3 Requests for any other advancement from our payment terms (other than LC payment) shall have corresponding loading on their quoted rates. The rates taken will be 0.05% per day for respective values.

4.18.4 Payment terms for recommended Spares: Payment will be done against your invoice after successful completion of work duly certified by concerned department of TELK.

4.19 PERFORMANCE BANK GUARANTEE :

The suppliers shall submit the Contract Performance Bank Guarantee (CPBG) in the format acceptable to TELK for 10% of total basic order value (excluding taxes) towards contract execution within 60 days of award of Purchase Order/Work Order/Letter of Award and shall be valid up to the successful commissioning of the Unit. Contractor shall execute a Performance Bank Guarantee (PBG) either by extending the CPBG or by new BG for same value and shall be submitted before expiry of Contract performance guarantee.

The Performance Bank Guarantee (PBG) will be released only after completion of the Warranty period and the claim period of PBG shall be generally one year from the date of its expiry.

If the bidder to whom the work is awarded fails to furnish the Contract Performance Guarantee to the satisfaction of the Company and accept the Letter of Award, the Company shall have the right at its sole option to forfeit the Earnest Money Deposit without any notice to the bidder.

In case of orders placed on different suppliers/contractors they have to submit separate Bank Guarantee against each order/contract at the above mentioned rate for the total basic value (excluding taxes) of each contract.

The suppliers shall submit the Performance Bank Guarantee in the format acceptable to TELK for 1% of total basic order value of supply portion (excluding taxes) for additional warranty period/ Defect liability period (ref.cl: 4.28.5) before the expiry of Performance Bank Guarantee during Warranty period. In case of order placing on different contractors both have to submit BG at the rate of 1% of their basic order value of supply portion.

4.20 DUTIES AND TAXES :

4.20.1 No claim shall be entertained by TELK in respect of custom duties, Goods & Services Tax, and other levies payable by the Bidders in respect of the transaction between the bidders and their vendors/sub-suppliers in respect of procurement of any parts, sub-assemblies, raw-materials and equipment which shall be included in the price bid itself.

4.20.2 In case of supply by a foreign supplier in foreign currency, customs clearance in Indian ports shall be arranged by the Supplier. Statutory Customs duty, Surcharges & applicable GST shall be paid by TELK. Freight charges from the foreign country up to Indian Port

- & from the Port to TELK site shall be paid by the supplier. Any taxes and duties in foreign country and charges in foreign Ports shall be paid by the supplier themselves.
- 4.20.3 Goods & Services Tax (GST), Duties and other levies in respect of the transaction between the Owner (TELK) and the Contractor under the Contract (if any) shall not be included in the bid price but they shall be indicated separately in the BOQ wherever applicable.
- 4.20.4 Whenever price is quoted exclusive of applicable GST on the transaction between TELK and the Contractor, then the due credit under the ITC (Input Tax Credit) scheme as per the relevant Government policies wherever applicable, shall be taken into account by the Bidder while quoting bid price.
- 4.20.5 With regard to the Income Tax, Surcharge on Income Tax and other Corporate Taxes the Bidder shall be responsible for such payments and the same will be deducted at source and will be remitted to concerned authorities. In the case of supply by import in foreign currency, applicable GST/Income Tax in India will be paid by TELK subject to the below condition in clause 4.20.6.
- 4.20.6 Any taxes, duties, surcharges and levies for which input tax credit/benefit cannot be availed by TELK will be considered as additional cost to TELK and will be loaded on the quoted price at the prevailing rates at the time of price bid opening for the financial evaluation of the bid.
- 4.20.7 Deduction of applicable taxes at source will be made as per GST/Income Tax rules prevailing in India.

4.21 CONTRACTUAL DELIVERY PERIOD :

- 4.21.1 **12 months from the date of Purchase Order/Work Order/Letter of Award issued by TELK.** The date of acceptance of the VPD installation by TELK will be taken as the date of meeting the contractual delivery.
- 4.21.2 The Contractor shall submit a detailed BAR CHART within the time frame agreed as per the Letter of Award consisting of adequate number of activities covering various key phases of the Works such as design, procurement, manufacturing, transport and field erection activities within fifteen (15) days after the date of acceptance of Letter of Award. This network shall also indicate the interface facilities if any, to be provided by TELK and the dates by which such facilities are needed. During the performance of Contract, if in the opinion of the Engineer proper progress is not maintained suitable changes shall be made in the Contractor's operations to ensure proper progress

4.22 PENALTY/LIQUIDATED DAMAGES :

Penalty/LD clause will be applicable on the total basic order value of the entire scope of work for the delay from the contractual delivery period specified in the purchase order. Supply, erection, testing & commissioning and successful handing over the VPD to the owner shall be completed within 12 (twelve) months from the date of Work order/Letter of Award beyond which penalty/LD clause will be applicable. Penalty/LD clause will be applicable based on the actual date of successful handing over of the equipment and its acceptance by TELK. Liquidated Damages will be levied for any delay from the



contractual delivery period specified in the purchase order @ 0.5% of the total basic order/contract value per week subject to a maximum of 5%.

4.23 SUBMISSION OF DOCUMENTS ON COMPLETION OF WORK :

On completion of work, the contractor shall submit "As-built" drawings, manuals & catalogues as specified in technical spec. before the submission of final bill.

4.24 STRUCTURAL ALTERATIONS TO BUILDINGS :

4.24.1. No structural member in the building shall be damaged / altered, without prior approval from the Engineer-in-Charge.

4.24.2. Structural provisions like openings, pipes if any, provided by TELK for the work, shall be used. Where there is a requirement of modifications, such contingent works shall be carried out by the contractor, at his cost after the prior approval of Engineer-in-Charge.

4.24.3. All cuttings made by the contractor in connection with the works shall be filled by him at his cost to the original finish.

4.25 TESTING :

All tests as per approved MQP / Specifications shall be carried out before, during and after installation and the test result shall be submitted to the Engineer-in-charge.

4.26.1 COMMISSIONING ON COMPLETION : After the work is completed, it shall be ensured that, the installation is tested and commissioned. All the test/calibration certificates shall be submitted to the Engineer-in-Charge before handing over the system.

4.27 ELECTRICAL INSPECTORATE APPROVAL :

All the equipment to be supplied and works to be executed should conform to the Kerala State Electrical Inspectorate Standards or other relevant Standards. Contractor shall confirm the same. All the statutory approvals by Kerala Electrical Inspectorate will be arranged by TELK. However, the contractor has to extend assistance and provide the required technical details, drawings etc for obtaining the approval.

4.28 PERFORMANCE WARRANTY :

4.28.1 All the equipments, accessories and installations of VPD shall be guaranteed to be free from defective workmanship or materials for a period of 24 months from the date of acceptance as per clause 20.0 of technical spec or 36 months from the date of completion of erection of VPD plant, whichever is earlier.

4.28.2 During the Warranty period, the vendor shall attend all the service / maintenance of the Plant without any cost to TELK. Any part / component / accessory found defective shall be replaced / repaired immediately to the satisfaction of TELK. Only the cost of consumables that are to be replaced / replenished during normal operation of the plant shall be in the account of TELK. List and details of such consumables shall be clearly indicated in the techno-commercial bid. If such consumables are not readily available in the Indian market, the bidder shall be responsible for arranging the same by themselves or through their agents.

4.28.3 During the Warranty period, the contractor shall without any extra cost carry out all routine and special maintenance of the plant and attend to any difficulties and defects that

may arise in the day to day operation of the system. The bidder shall attend any defect within 24 hours on receipt of intimation from TELK.

4.28.4 Preventive/Routine maintenance shall be planned after giving prior intimation to TELK. The spares/consumables required for routine maintenance shall be made available in advance.

4.28.5 **Defect Liability period/ Additional Warranty** of 36 Months from the date of completion of Warranty period as per clause 22.1 of the technical specification for the VPD plant against any measurable defects specified. Any part / Component / accessory found defective that lead to the measurable defect shall be replaced / repaired immediately to the satisfaction of TELK, free of cost.

4.29 **TRAINING** : The Contractor shall involve the TELK staff during the erection/commissioning and TELK persons should be trained in respect of operation and maintenance of the VPD & other supplied equipments including operation & maintenance of PLC by the engineers / experts of the bidder at free of cost.

4.30 ANNUAL MAINTANCE CONTRACT :

The vendor shall quote in the BOQ the rate for an Annual Maintenance Contract (AMC) for a period of 3 years after the completion of the Warranty period. Annual Maintenance Contract will start immediately after the Warranty period specified as per Clause No. 4.28.1 of SCC.

The scope of AMC includes but not limited to the following.

- a) The AMC shall include any number of complaint calls.
- b) The vendor shall plan and carry out regular preventive maintenance of the plant during the AMC period. A detailed proposal shall be included in the techno-commercial bid.
- c) The spares required during the AMC period shall be supplied by the vendor and the cost will be reimbursed as per the rate quoted for the recommended spares.
- d) Any Parts / Components / Accessories that may be found defective due to manufacturing defects / faulty selection / bad workmanship during the additional warranty period shall be replaced or repaired immediately to the satisfaction of TELK as per Clause No. 4.28.5.
- e) Preventive / Routine maintenance shall be planned only after proper prior intimation to TELK.
- f) Service personnel shall attend the complaint within 24 Hrs from the time of registering the complaint

Vendor shall quote for the lump sum service charges per year for the AMC and total amount for 3 years will be considered for the financial evaluation of the bid. Any defects as per clause No. 4.28.5 of SCC will not be considered in AMC and shall be done free of cost as per the Additional Warranty Clause. TELK reserves the right at its discretion whether to award the AMC after evaluation of bid.

For any delay in attending the complaint beyond one week from the time specified above without any consent from TELK will attract LD at the rate of 0.5% per week up to maximum of 5 % of the AMC contract value and will be deducted from the subsequent



AMC bills.

Payment terms for AMC: Advance payment in four instalments on quarterly basis for each year and against submission of BG for amount equivalent to quarterly AMC amount.

4.31 OTHER IMPORTANT POINTS :

- 4.31.1 The factory of TELK is fully functional and hence minimum completion time of the system with least disturbance to the operations shall be ensured during installation of the system. Work has to be carried out strictly as per the rules and regulations of TELK without causing inconvenience to the day to day operations.
- 4.31.2 The bids will be evaluated based on lowest evaluated cost to TELK. The evaluation of the offer will be strictly based on information submitted by the bidder against TELK requirements given in the Technical Specifications and other tender documents. In view of this, the bidder is requested to go through tender documents carefully and furnish all documents clearly. Missing information may not be asked by TELK before evaluating the offer.
- 4.31.3 For evaluation of bids in foreign currency, the exchange rates (TT selling rate of State Bank of India) as on the scheduled date of tender opening (Techno-commercial bid in the case of two part bid) will be considered.
- 4.31.4 TELK reserves the right to cancel/reject the tender and any or all the tenders without assigning any reason whatsoever at any time/stage.
- 4.31.5 In case of clauses covered under technical specifications also, if there is any discrepancy between GCC, SCC and technical spec, the details/specification mentioned in the technical specifications supersedes the respective clauses/details of GCC/SCC.

4.32 DISCLAIMER :

The information contained in the tender documents or subsequently provided to Bidders, whether verbally or in documentary or any other form by or on behalf of TELK, its consultant or advisers is provided to Bidders on the terms and conditions set out in this tender and such other terms and conditions subject to which such information is provided.

This tender enquiry is not an agreement or an offer by TELK to the prospective Bidders or any other person. This tender documents includes specifications, terms & conditions which reflect various assumptions and assessments arrived at by TELK in relation to procurement of VPD. Such assumptions, assessments and statements do not purport to contain all the information that each bidder may require. This tender may not be appropriate for all bidders and it is not possible for TELK or its consultant or advisers to consider the objectives, technical expertise and particular needs of each party who reads or uses the tender documents. The specification, terms & conditions and other information contained in the tender documents may not be complete, accurate or adequate. Each bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the specification, terms & conditions and other information contained in the tender documents and obtain independent advice from appropriate sources.

Information provided in the tender documents to the Bidders may be on a wide range of matters, some of which may depend upon interpretation of law. The information given is

not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. TELK accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.

TELK, its consultant or advisers make no representation or warranty and shall have no liability to any person including any bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in the tender documents or otherwise, including the accuracy, adequacy, correctness, reliability or completeness of the Documents and any assessment, assumption, statement or information contained therein or deemed to form part of the documents or arising in any way in the tendering process.

TELK also accepts no liability of any nature whether resulting from negligence or otherwise arising from reliance of any bidder upon the statements contained in the documents.

TELK may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the specification and terms & conditions contained in the tender documents.

The publication of this tender does not imply that, TELK is bound to select a bidder or to place the order on the selected bidder, as the case may be, for the procurement of the VPD and TELK reserves the right to reject all or any of the Proposals without assigning any reasons whatsoever.

The bidder shall bear all its costs associated with or relating to the preparation and submission of its Bids including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by TELK or any other costs incurred in connection with or relating to Bids. All such costs and expenses will remain with the bidder and TELK shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a bidder in preparation or submission of the Bids, regardless of the conduct or outcome of the bidding process.

- 4.33 ENGINEER IN CHARGE:** The Engineer in charge will act in all matters pertaining to this contract on behalf of TELK. Further correspondences and communications with regard to the technical clarifications on tender details and execution of contract shall be done with the Engineer in charge. Contact details of the Engineer in charge is given below :

Mr. REJI JOHN

Deputy General Manager (Design/Engineering & Production)

TELK, Angamaly

Email id : mrdt@telk.com

Mob : 9388167227



ANNEXURE 4
 " BOQ FORMAT FOR REFERENCE PURPOSE ONLY page 1/2
 PRICES SHALL BE QUOTED ONLY THROUGH
 THE E-TENDER PORTAL "

Name of Work : DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VAPOUR PHASE DRYING PLANT

Contract No : TELK/C AND MED/VPD/277/2021

Name of the Bidder/ Bidding Firm/ Company :

PRICE SCHEDULE
 (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

Sl. No.	Item Description	Quantity	Unit	Quoted Currency in INR / Other Currency	Basic Lumpsum Price (without any taxes, duties, etc) shall be entered here by the Bidders in appropriate currency.	Applicable GST in India (%)	Packing & Forwarding charges, if any, (Lumpsum amount without taxes)	Freight Charges, if any, (Lumpsum amount without taxes)	Other Charges (if Any) (Lumpsum amount without taxes)	TOTAL AMOUNT WITHOUT TAXES, it will be converted based on coloumn L value
1.00	DESIGN, ENGINEERING, MANUFACTURING, SUPPLY, ERECTION, TESTING & COMMISSIONING OF VPD PLANT AS PER TECHNICAL SPECIFICATION No.TELK/VPD/2020 R0 AND OTHER TERMS & CONDITIONS OF THE TENDER.									
1.11	OPTION - 1(a) : PRICE IN FOREIGN CURRENCY BY VENDORS OUTSIDE INDIA FOR SUPPLY PART INCLUDING MANDATORY SPARES OF THE VPD PLANT TO BE SUPPLIED FROM OUTSIDE INDIA. (Vendors outside India may quote here the lumpsum price in foreign currency for the supply part including mandatory spares of the VPD plant to be supplied from outside India).	1	Lumpsum	EUR		0	0	0	0	0.0000
1.12	OPTION - 1(b) : PRICE IN FOREIGN CURRENCY BY VENDORS OUTSIDE INDIA FOR ERECTION, TESTING & COMMISSIONING PART OF THE VPD PLANT. (Vendors outside India may quote here the lumpsum price in foreign currency for the Erection, testing & commissioning part of the VPD plant)	1	Lumpsum	EUR		0	0	0	0	0.0000
1.21	OPTION - 2(a) : PRICE IN INR BY VENDORS INSIDE INDIA FOR THE SUPPLY PART INCLUDING MANDATORY SPARES OF THE VPD PLANT. (Vendors inside India may quote here the lumpsum price in INR for the supply part including mandatory spares of the VPD plant).	1	Lumpsum	INR		0	0	0	0	0.0000
1.22	OPTION - 2(b) : PRICE IN INR BY VENDORS INSIDE INDIA FOR ERECTION, TESTING & COMMISSIONING PART OF THE VPD PLANT. (Vendors inside India may quote here the lumpsum price in INR for the Erection, testing & commissioning part of the VPD plant).	1	Lumpsum	INR		0	0	0	0	0.0000
1.31	OPTION - 3(a) : PRICE IN FOREIGN CURRENCY BY VENDORS INSIDE INDIA FOR SUPPLY PART INCLUDING MANDATORY SPARES OF THE VPD PLANT TO BE SUPPLIED FROM OUTSIDE INDIA. (Vendors may quote here the lumpsum price in foreign currency for the supply part including mandatory spares of the VPD plant to be supplied from countries outside India).	1	Lumpsum	EUR		0	0	0	0	0.0000
1.32	OPTION - 3 (b) : PRICE IN INR BY VENDORS INSIDE INDIA FOR THE SUPPLY PART INCLUDING MANDATORY SPARES OF VPD PLANT TO BE SUPPLIED FROM INSIDE INDIA. (Vendors may quote here the lumpsum price in INR for the supply part including mandatory spares of the VPD plant to be supplied from inside India).	1	Lumpsum	INR		0	0	0	0	0.0000



1.33	OPTION - 3 (c) : PRICE IN INR BY VENDORS INSIDE INDIA FOR ERECTION, TESTING & COMMISSIONING PART OF THE VPD PLANT. (Vendors may quote here the lumpsum price in INR for the Erection, testing & commissioning part of the VPD plant)	1	Lumpsum	INR		0	0	0	0	0	0.0000
1.34	OPTION - 3(d) : PRICE IN FOREIGN CURRENCY BY VENDORS INSIDE INDIA FOR THOSE ACTIVITIES OF PART OF ERECTION, TESTING & COMMISSIONING, SUPERVISION, TRAINING ETC OF THE VPD PLANT TO BE RENDERED BY THE FOREIGN AGENCIES, IF ANY. (Vendors may quote here the lumpsum price in foreign currency for providing supervision, training, etc to be rendered by the foreign agency if any).	1	Lumpsum	EUR		0	0	0	0	0	0.0000
2.00	LUMP SUM PRICE (SERVICE CHARGES ONLY) PER YEAR IN INR FOR THE ANNUAL MAINTENANCE CONTRACT OF THE VPD PLANT DURING THE THREE YEARS ADDITIONAL WARRANTY PERIOD AFTER THE COMPLETION OF THE TWO YEARS WARRANTY PERIOD SPECIFIED. (The total amount for 3 years will be considered for the financial evaluation of the bid) (Vendors may go through Clause Nos. 22.0, 13.0 & 25.0 of the Technical Specification and Clause Nos. 4.28 & 4.30 of Tender Terms & Conditions).	3	Per Year	INR		0	0	0	0	0	0.0000
3.00	LUMP SUM PRICE IN INR (FOR VENDORS INSIDE INDIA) OR FOREIGN CURRENCY (BY VENDORS OUTSIDE INDIA) TOWARDS THE COST OF RECOMMENDED SPARES DURING THE THREE YEARS ADDITIONAL WARRANTY PERIOD AFTER COMPLETION OF THE TWO YEARS WARRANTY PERIOD SPECIFIED. (This amount will not be considered for the financial evaluation of the bid). (List of the recommended spares with quantity & individual prices shall be furnished as a PDF document and may be uploaded along with the techno-commercial bid) (Vendors may go through Clause Nos. 22.0, 13.0 & 25.0 of the Technical Specification and Clause Nos. 4.28 & 4.30 of Tender Terms & Conditions).	1	Lumpsum	EUR		0	0	0	0	0	0.0000
4.00	LUMP SUM PRICE IN INR (FOR VENDORS INSIDE INDIA) OR FOREIGN CURRENCY (FOR VENDORS OUTSIDE INDIA) FOR SUPPLY OF DRY VACUUM PUMPS AS AN OPTIONAL ITEM AS PER THE CLAUSE 4.3.2 OF THE TECHNICAL SPECIFICATION. (This optional price will not be considered for the financial evaluation of the bid). (Quantity and other details of the offered Pumps shall be furnished as a PDF document and shall be uploaded along with the techno-commercial bid)	1	Lumpsum	EUR		0	0	0	0	0	0.0000
5.00	LUMP SUM PRICE IN INR (FOR VENDORS INSIDE INDIA) OR FOREIGN CURRENCY (FOR VENDORS OUTSIDE INDIA) FOR OTHER ITEMS/SCOPE OF WORK WHICH WERE NOT INCLUDED IN THE ABOVE CATEGORIES IF ANY. (Details/list of such items/quantity/scope of work shall be furnished as a PDF document with necessary bifurcation of prices and may be uploaded along with the techno-commercial bid)	1	Lumpsum	EUR		0	0	0	0	0	0.0000
Rate in Words											



APPENDIX-1

OWNER'S BANK DETAILS FOR SWIFT TRANSFER OF EMD & TENDER FEE FOR FOREIGN BIDDERS

09/12/2021
Date : --/--/----

Account Name	Transformers & Electricals Kerala Limited
Account Number	0219083000000874
Bank Name	The South India Bank Ltd.
Branch	Angamaly
Branch Address	Chenakadan Building, Bank Junction, Aluva Angamaly Road, Angamaly, Ernakulam, Kerala-683572
IFSC Code	SIBL0000219
SWIFT Code	SOININ55

Your's faithfully



Deputy General Manager
Transformers & Electricals Kerala Ltd



APPENDIX-2

Bidder's Authorization Certificate
(to be submitted on the letter head of bidder)

To:

Dy. General Manager (Contracts & Materials)
Transformers and Electricals Kerala Ltd,
Angamally South- 683573

<Bidder's Name> , <Designation>

is hereby authorized to sign relevant documents on behalf of company in dealing with Tender of reference..... (Tender No. and date). He is also authorized to attend meetings and submit technical and commercial information as may be required by you in the course of processing above said Tender.

Yours Sincerely,

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm:

Business Address:

Place:

Date:

Seal:



Amge

APPENDIX-3
Authorization Certificate by the Principal Company
(to be submitted on the letter head of Principal Company)

To:

Dy. General Manager (Contracts & Materials)
Transformers and Electricals Kerala Ltd,
Angamally South- 683573

We here by certify that <Bidders Name & address>

.....
are the authorized agent in India to represent the principal company<name & address of
Principal Company>.....

.....
and they are here by authorized to participate, quote , undertake supply, execution & AMC
upto the mentioned period in the tender and sign relevant documents on behalf of the
principal company in dealing with tender of reference.....
(Tender No & date). They are also authorized to attend meetings and submit technical and
Commercial information as may be required by you in the course of processing above said
tender.

Yours Sincerely,

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm (Principal Company):

Business Address:

Place:

Date:

Seal:



Handwritten signature

APPENDIX-4
Self Declaration
(to be submitted on the letter head of bidder)

To:

Dy. General Manager (Contracts & Materials)
Transformers and Electricals Kerala Ltd,
Angamally South- 683573

In response to the Tender Reference.....
dated..... as an owner/ partner/ Director of.....
..... (Firm)

I/We hereby declare that our Firm.....
.....is having unblemished past
record and has not been declared ineligible for corruption and fraudulent practices
either indefinitely or for a particular period of time.

In case above information are found to be incorrect, our quotation will be rejected and EMD
will be forfeited.

Yours Sincerely,

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm:

Business Address:

Place:

Date:

Seal:



[Handwritten signature]

UN-PRICED TECHNO-COMMERCIAL CHECKLIST FOR THE TENDER		
Sl.No.	Particulars	Reply/Remarks by Bidders
1	Payment of Tender fee	Yes/No
2	Payment of EMD	Yes/No
3	Submission of valid MSME certificate if applicable	Yes/No
4	The Bid shall be valid for 180 days from the date of opening of the techno-commercial bid.	Yes/No
5	Submission of all Tender Documents duly Signed & Stamped by the bidder for its acceptance	Yes/No
6	The offered Warranty period may be confirmed here
7	Confirmation for quoting the AMC charges for 3 years & cost of mandatory spares for 3 years	Yes/No
8	Techno-commercial deviations (if any) shall be prepared as separate PDF documents and may be uploaded along with the technical bid	Yes/No
9	Acceptance of the specified terms & conditions of payment	Yes/No
10	Applicable taxes and duties for supply part and erection part shall be submitted as a separate document and may be uploaded along with the technical bid	Yes/No
11	Readiness for submitting the Contract Agreement and Performance Bank Guarantee as per the specified terms & conditions of the tender in the event of placing the order	Yes/No
12	Maximum delivery schedules required for supply part and erection part shall be clearly mentioned and submitted as a separate document if required.	Yes/No
13	Acceptance of the specified terms & conditions of the jurisdiction of contract (clause No. 3.10 of Annexure-3)	Yes/No
14	Acceptance of the specified terms & conditions of Liquidated Damages (clause Nos. 4.22 & 4.30 of Annexure-3)	Yes/No
15	Any other relevant information :	
16	Contact details of the bidder (Name, postal address, Tel.No. mob. No. email id, etc) :	



Authorized signatory with seal