

SCOPE OF WORK & SPECIAL CONDITIONS OF CONTRACT

1. Scope of work:

A. Contractors Scope of work

- 1) Disconnecting intermittent cables from Drying Chamber and Control Panel / Heaters
- 2) Dismantling of Chamber Panels – 2 sides / Back & Top / Front Door / Connection & Foundation Bolts
- 3) Dismantling of Blowers (5 sets) & existing heating elements.
- 4) Reassembling Existing Drying Chamber at specified location
- 5) Reassembling of Existing Blower Motors
- 6) Replacing of Heating Elements – 8 nos. MS Pipe with Nichrome heating elements with refractory insulator with proper insulation to avoid heat loss
- 7) Providing New Switchgears & Accessories with Instruments & Sensors. Existing Control Panel Box can be utilized to accommodate the components. Please try to provide switchgear accessories with the below specified make : Digital controller of EC96 radix, Sensors of PT 100, Safety controller of Radix, Power contactors of Siemens, Switch fuse unit of L&T, Push button of Siemens & Energy meter of L&T.
- 8) Provision for placing of thermocouple in product.
- 9) Supply and laying of cable between heaters of chamber & control panel should be provided.
- 10) The panel to be fully wired with necessary ferrules/inscription plates.
- 11) Provide the schematic wiring diagram of electrical panel.
- 12) Successful erection & commissioning of relocated chamber.

B. TELK scope of work

- 1) Shifting to specified location in TOTO– crane facility / forklifts / scaffolding / ladders or any other equipments
- 2) Incoming Cables (with tap off box) to the control panel will be provided.
- 3) Existing rail extension and its civil work.

2. Specifications of Drying chamber

Size : L*W*H = 5.6 mtr x 3.1 mtr x 5 mtr

Heating Capacity: 120 KW

Supply Voltage : 440V

Fan Capacity: 2.2 KW x 5 nos.

Existing Connection: delta

Required Connection: Automatic Delta-Star-Off connection.

Relocation of chamber to C shop shall be as per Sketch no.040817-chamber 4 relocation

Relocation of Drying Chamber no. EC/A/04 from 'A' shop to 'C' shop".

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Required temp.: Uniform heating & $120^{\circ}\text{C}\pm 10^{\circ}\text{C}$ temperature to be attained continuously.

Weight of mass to be dried: 15 Ton coil.

3. *Period of Completion:*

Work shall be completed within **1 month** from the date of issue of work order.

4. *Payment Terms:*

No advance payment will be entertained. 100% payment will be released only after

- 1) Successful completion of erection & commissioning of panel and chamber.
- 2) Performance of chamber (i.e. obtaining 110°C temperature on product) for 2 consecutive drying, overall chamber temp $110^{\circ}\text{C}\pm 10^{\circ}\text{C}$.

5. *Contract performance guarantee(CPBG)*

Contract performance guarantee for the contract shall be 5% of Contract Value

- 5.1 The CPBG can be submitted by cash/DD/Bank guarantee. Submission of CPBG and contract agreement shall be completed within 15 days from the date of work order. Non-compliance within this period may attract penalty.
- 5.2 The CPBG amount shall be refunded/ returned to the contractor only after completion of defects liability period. The CPBG amount shall not carry any interest.

6. *Penalty/LD:*

If the contractor fails to complete the work within the specified period of completion the contractor shall pay TELK as penalty an amount equivalent to 0.5% (point five percentage) for every week of delay subject to a maximum of 10% (ten percentage) of the contract value of the work. For penalty, contract value will be considered without taxes & duties. Such amounts may be deducted by TELK from any amount due or that may become due to the contractor.

7. *Guarantee:*

The relocated electric chamber shall be guaranteed for a period of 2 years against any manufacturing defect in the equipment along with the newly supplied items (i.e. 8 nos. MS pipe with heater coil, switchgear components of electrical panel etc.) from the date of

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commissioning. A certificate shall be submitted by the contractor to TELK in this regard. Format for the certificate shall be collected from our Factory Services (Electrical) Dept.

8. Rates:

Contractor is advised to inspect and examine the existing chamber and its accessories before submitting their tenders. Bill of material shall be provided showing the make of each electrical equipment along with the quantity and unit rate. Labour and material cost shall be quoted separately. Please try to provide switchgear accessories with the below specified make : Digital controller of EC96 radix, Sensors of PT 100, Safety controller of Radix, Power contactors of Siemens, Switch fuse unit of L & T, Push button of Siemens & Energy meter of L&T.

9. Qualification Criteria:

Contractors having following valid documents will be technically qualified and considered for opening of their price bid. Vendors shall submit the attached QR document duly filled up. Technically qualified parties have no right to claim for award of the work. TELK reserves the right to cancel or award the work to any party.

- a. The Annual turnover should not be less than Rs. 20 lakhs for the period 2014~'15, 2015~'16, 2016~'17.
- b. Experience and performance certificate from 2 clients.
- c. All the personal employed by the contractor should have valid PF account and ESI registration. Documentary proof shall be produced at the office of TELK.

10. Engineer In Charge:

Engineer in Charge will act in all matters pertaining to this contract on behalf of TELK. Further correspondences and communications with regard to the clarifications on tender details and execution of the contract shall be done with the Engineer in charge. Contact Details of the Engineer in Charge is given below.

Mr. K .V BabuRaj
Senior Manager (FS)
TELK, Angamaly
Email ID: babu@telk.com, fs@telk.com
Mob: 9388167269

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11. Special Conditions:

- 1) Labours & consumables for the work mentioned against 'contractor's scope of work' against Clause No. 1.A will be provided by the contractor.
- 2) Tools required for the above work shall be arranged by contractor.
- 3) The Contractor shall be responsible for the safety of the labour employed by him and he shall be liable to pay the necessary compensation in case of accidents as per Workmen's Compensation Act. The Contractor will be liable for payment of all claims of damages, compensation or expenses payable as result of any accident or injury sustained by workman employed or used by him for the execution of this contract. In case of any accidents /mishap/life loss that may take place to the employees engaged by the contractor in the company premises, the contractor alone is fully responsible /liable to settle the matter amicably with the party as well as with the statutory authorities and TELK will not be a party to the settlement.
- 4) TELK shall extend the canteen facility on chargeable basis to the personnel deputed for this work by the contractor.
- 5) 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 protective equipments like safety helmet, safety belt, safety shoe, safety gloves etc to his labourers.
- 6) Service engineer with workmen shall be provided by contractor.

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Section: SW&SCC

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