

CLARIFICATION NO: 01

AGAINST TENDER ENQUIRY NO: PROC-SERVICES/CB/P&P-4388/2019

**HIRING TECHNICAL SERVICES FOR EXECUTION OF ANNUAL TURN AROUND (ATA) 2019 JOBS
OF KPD-TAY PLANT**

With reference to subject mentioned tender enquiry and further to clarifications sought by few of our prospective bidders the following clarification is hereby communicated to all prospective bidders for their review and preparation of bid accordingly.

GENERAL

1. Consumable like Electrode, Filler Wire, Cutting Discs, Grinding Discs, and Argon/Oxy/DA Gases will be provided by OGDCL or Contractor?
OGDCL Reply: Job compatible tools and consumables for the execution of each job is contractor's responsibility, as already mentioned in the TOR & Scope of work.
2. Consumable like Electrode/Filler Wire for Valves' Seat Build-up will be provided by OGDCL or Contractor?
OGDCL Reply: Job compatible tools and consumables for the execution of each job is contractor's responsibility.
3. Accommodation Space for Workers' Tenting inside plant premises will be provided by OGDCL?
OGDCL Reply: Only plan Area will be provided by OGDCL as already elaborated in TOR clause 3.3 & 4.2.
4. Drinking Water inside Worker's Camp will be provided by OGDCL?
OGDCL Reply: Contractor will arrange as already elaborated in TOR clause 4.2.
5. Plant Air for ventilation of Vessels / Columns / Instrument Activities will be provided by OGDCL?
OGDCL Reply: As per TOR Clause 4.59 & 3.6
6. Water for Hydrotest & hydrojetting will be provided by OGDCL?
OGDCL Reply: OGDCL will provide de-mineralized / RO water. (Ref. TOR #3.5)
7. Which type of Chemical is required for Chemical Cleaning (4.6)

OGDCL Reply: 3rd party services company normally provide their own chemical (blends) for industrial equipment cleaning purpose. Any chemical suitable for the industrial equipment cleaning shall be arranged by Contractor.

8. Elaborate Point # 4.13 about Chemical Expert Services. Is there any recommendation of 3rd party by OGDCL?

4.13 Job compatible tools and consumables for the execution of each job is contractor's responsibility including the chemicals, (Cleaners and Neutralizers compatible with metallurgy) required for internal cleaning of columns, vessels, heat exchangers and external cleaning of fins and tubes of fin-fan coolers. Contractor will be responsible for supply of chemical expert services and supervision during chemical cleaning.

OGDCL Reply: OGDCL assume that bidder should have its own expertise for said job. However if bidder have no expertise of column, vessel and heat exchanger cleaning, bidder may hire (sublet) the companies having expertise of column, vessel and heat exchanger cleaning at their own. If bidder found any ambiguity, it may be further discussed in pre-bid visit of plant or kick off meeting after award of contract.

9. Point # 4.22 - which type of Gaskets required for pressure testing / bench test (temporary or non-asbestos)? Also specify quantity.

OGDCL Reply: Klinger gasket (Non-Asbestos) will be required for pressure testing / bench test. Quantity will depend on the number of tests required for final clearance. Please calculate the quantity where hydro testing is applicable (Quantity of each valve is already given in the scope.)

10. Point # 4.34 - 110V Tools can be used inside confined space instead of Pneumatic tools?

OGDCL Reply: Pneumatic tools for confined spaces (Vessel, Columns). (Ref. TOR 4.34)

11. Point # 4.35 – what would be maximum capacity / range for Hydraulic Torqueing Tool?

OGDCL Reply: The Hydraulic Torqueing Tool range: 359 Nm to 8955 Nm. However bidder may arrange to accommodate date torque up to 10,000 Nm.

12. Point # 4.36 – Provide Hydrotest Pressure for each equipment

OGDCL Reply: The maximum test pressure is 1500 Psi, for detail bidder may visit KPD-TAY Plant.

MECHANICAL WORKS

1. N2 Pumper Connection will be done by OGDCL or Contractor?

OGDCL Reply: N2 Pumper Connection will be done by Contractor.

2. Water / Chemical Flushing will be done by OGDCL or Contractor?
OGDCL Reply: Water / Chemical Flushing will be done by Contractor.
3. Provide Blind List of Battery Limit including size, rating & quantity.
OGDCL Reply: Blind List of Battery Limit including size, rating & quantity will be provided before pre-shutdown activities. However bidder may visit KPD-TAY Plant for understanding of job.
4. Blinds to be provided by OGDCL or Contractor?
OGDCL Reply: Please refer TOR Clause 3.1.
5. **Columns:** Trays & Distributor to be removed / dismantled for cleaning or in-situ cleaning shall be performed?
OGDCL Reply: In place chemical cleaning will be performed. However, if any tray found damaged during inspection it will be dismantled for repairing and will be reinstalled.
6. Please provide drawings of columns.
OGDCL Reply: Please see note below.
7. Air for ventilation to be provided by OGDCL or Contractor?
OGDCL Reply: As per TOR Clause 4.59 & 3.6
8. Mechanical cleaning of shell internal required or power brushing?
OGDCL Reply: Mechanical cleaning of shell internal will be required.
9. All the trays to be removed from columns or tray's manways to be opened insitu for cleaning.
OGDCL Reply: In place chemical cleaning will be performed. However, if any tray found damaged during inspection it will be dismantled for repairing and will be reinstalled.
10. Internal scaffolding required in columns?
OGDCL Reply: It will be required in column for entry purpose and cleaning of bottom only.
11. **Vessels:** Internals removal (i.e Demister Pads) required or not?
OGDCL Reply: Demister Pads will be removed and reinstalled for cleaning and repairing if required.
12. Internal cleaning to be done by scrapper or power brushing is required?
OGDCL Reply: Mechanical cleaning will be carried out. However power brushing will be required based on on-ground situation.
13. Internal scaffolding required or not?

OGDCL Reply: Internal scaffolding is not mandatory requirement, bidder may arrange ladder or any other portable stand for dismantling of demister pad & internal cleaning if required for approach.

14. Air for ventilation to be provided by OGDCL or Contractor?

OGDCL Reply: As per TOR Clause 4.59 & 3.6.

15. What is the Quantum of internal repair of vessels? How will the price be adjusted in Contractor's price?

OGDCL Reply: This is first ATA of KPD-TAY Plant, scope will be clear after dismantling of man ways & internal inspection. However only minor repair / cracks built up will be done by contractor for which no additional payment will be made, any major repair / replacement will be arranged by OGDCL.

16. **Exchangers:** Test rings to be provided by OGDCL or Contractor?

OGDCL Reply: Pressure test ring for heat exchangers (where ever required) will be provided by OGDCL, please refer TOR Clause 3.1.

17. What is the required hydro jetting pressure for tubes cleaning?

OGDCL Reply: Bidder shall arrange Water jetting machines with all accessories up to 15000 psig operating pressure for hydro-jetting of heat exchangers etc. as job scope requirement. Please refer TOR Clause 4.23.

18. The cleaning of shell to be done by manual cleaning/ hydro jetting/ water washing?

OGDCL Reply: The cleaning of shell to be done by manual cleaning/ hydro jetting/ water washing depending on the requirement.

19. What are the hydro test pressures of all heat exchangers?

OGDCL Reply: The maximum test pressure is 1500 Psi, for detail bidder may visit KPD-TAY Plant.

20. Please provide the Number of plates of plate type heat exchangers.

OGDCL Reply: The in place cleaning of plate type heat exchanger will be carried out. For further detail bidder may visit KPD-TAY Plant.

21. Loose water cleaning of tubes and fins from external side is required or jetting to be done in Fin Fan coolers?

OGDCL Reply: Jetting to be done in Fin Fan coolers.

22. **Reboiler (Early facility train1):** Provide detailed drawing of Reboiler.

OGDCL Reply: Please see Note below.

23. Reboiler shell cleaning to be performed by power brushing/scrapper/blasting?

OGDCL Reply: Reboiler shell cleaning to be performed by power brushing/scrapper/blasting based on on-ground condition

24. Paint to be provided by OGDCL or Contractor?

OGDCL Reply: Paint will be provided by OGDCL.

25. Painting specs to be provided by OGDCL?

OGDCL Reply: Painting specs will be provided by OGDCL.

26. Provide drawings of stacks to determine surface area.

OGDCL Reply: Please see Note below.

27. High temperature aluminum paint to be provided by OGDCL or Contractor?

OGDCL Reply: High temperature aluminum paint will be provided by OGDCL.

28. Chemical for chemical cleaning to be OGDCL or Contractor?

OGDCL Reply: Chemical will be provided by contractor, refer TOR Clause 4.13.

29. **Modification Jobs:** Provide of IFC Drawings for piping jobs.

OGDCL Reply: Please see note below.

30. Provide segregation of jobs train wise.

OGDCL Reply: Modification job are not only related to specific train shut down, some job will be carried out during complete shutdown & some in partial shutdown bidder may visit plant for more clarity (if required). However complete welding scope is given in tender for bidding purpose.

OGDCL Note:

Due to huge data, drawings, isometric, specifications etc. cannot be shared through website, bidders are requested to visit KPD-TAY plant to understand the scope of work as already stated in TOR as below.

All interested parties / bidders are requested to visit KPD-TAY site to clarify / understand the scope of work if deem necessary. It will also be helpful to understand the scope, to avoid unnecessary clarification & submit the bid well in time.