



Numaligarh Refinery Limited
Commercial Department

CORRIGENDUM NO. 2 TO NOTICE INVITING TENDER

Date: May 18, 2018

Name of Work: Procurement of Welded Plate Type Air Preheater along with required services- dismantling, erection & commissioning etc.

Tender no. : OC43000151/JIN dated 19.04.2018

- ❖ Some minor changes have been done in the technical tender document as below. Bidders are requested to consider the same during submission of bid.

General requirement for mechanical design: Design operating flue gas temperature at inlet shall be 407 deg. C instead of 350 Deg. C. Subsequent section shall be designed based on derived maximum subjected temperature in each section.

1. Data sheet tag no. 01-FD-001 new:

1. Design operating Air inlet temperature shall be considered as 15/38 (Min/Max) as provided in the tender, however normal operating air inlet temperature shall be considered as 30 DegC.
2. Outlet air temperature shall be derived temperature based on heat balance considering maximum permissible heat loss of 1% and in congruence with clause 2.1.2-34 page 9 of 25 of document no. NRL/MM/DOC/APH/PLTE i.e. With maximum leak rate of 0.1% of Normal flow per standard requirement.
3. FG inlet temperature for operating process design purpose shall be 407 deg. C.
4. Provided temperature of 350 Deg. C for FG inlet is an operating temperature in normal operation.
5. In Flue gas composition stated in the datasheet, the components values are of wt% and not mole%.

2. Bid evaluation criteria point no. 1.2

Obligation shall necessarily cover the following terms:

Making availability of his technical representative & necessary execution team to establish due performance of the supplied equipment as per requisite design/operation condition **at each start-up of the plant during corporate guarantee period**. Performance establishment activities shall necessary cover each & every activity to ensure desired/requisite mechanical & thermal performance of the equipment per operating/design conditions like:

- a. Necessary inspection/health assessment for checking mechanical and thermal integrity of the equipment in each shutdown/RTA as per NRL discretion.
- b. Preparing assessment report, finalizing action plan in consultation with NRL to restore, repair, replace the damaged parts/components as per assessment report.
- c. Mobilizations of necessary resources- men, materials, spare as the case may be, to execute the planned restoration/repair job within limited time frame decided by NRL.
- d. Vendor shall be carrying out all jobs, as per plan, with all necessary industrial practice & safety & as per instructions of NRL and without any financial implication to NRL.
- e. No boarding & lodging will be provided by NRL for this purpose.

- 3. Clause No. 2.1.2-17 page 7 of 25 document no. NRL/MM/DOC/APH/PLTE shall be read as:** Any relevant modification in design parameters within end conditions deemed to be necessary for improvement or getting desired performance as per TPI/NRL during design stage shall be suitably incorporated without any commercial implication. Any subsequent changes desired by supplier owing to changes in material construction/fabrication details shall have prior approval of TPI/NRL.

4. Clause no. 4.17 page 18-19 of 25 of document no. NRL/MM/DOC/APH/PLTE i.e. Guarantee Test Run (GTR)

Point no. 3 & 4 of this clause shall be considered omitted with following statement: " PGTR (Performance Guarantee Test Run) shall be established based on actual conditions measured vis a vis to condition under heat balance situation achieved considering maximum 0.1% of leakage & maximum 1% of heat loss.

- ❖ Due date and time of offer submission online for the subject tender has been extended as under:

Bid submission end date & time:	Before 11.00 AM on 30.05.2018
Bid opening date (Technical Bid):	After 11.00 AM on 31.05.2018

- ❖ Bidders (if any) who have already submitted their bids online, may if they wish, revise their bids during this extended period.

All other terms and conditions of the Tender Document remain unchanged.

CGM (Commercial & Legal)
Numaligarh Refinery Limited