

Ref No.: PE/PG/NB2/E-6418/2020/CORRIGENDA/02

Date: 01/05/2020

**CORRIGENDA - 02**

**PROJECT: 3x660 MW NPGCPL NABINAGAR STPP.**

**PACKAGE: AGITATORS**

**TENDER ENQUIRY NO: PE/PG/NB2/E-6418/2020, DATED 07/04/2020**

In reference to the Open Tender Enquiry for "AGITATORS" as per Technical Specification No. **PE- TS- 457- 571- 18000-A001** for 3X660 MW NPGCPL NABINANAGR TPP FGD Project. Following may be noted.

**Please refer next 2 pages for pre-bid clarification issued for above mentioned enquiry.**

**Please ensure the submission of your offer within the due date.**

With Regards,  
For & on behalf of BHEL

AMIT KUMAR  
SR. ENGR/PG-III

**Bidder Query #1**

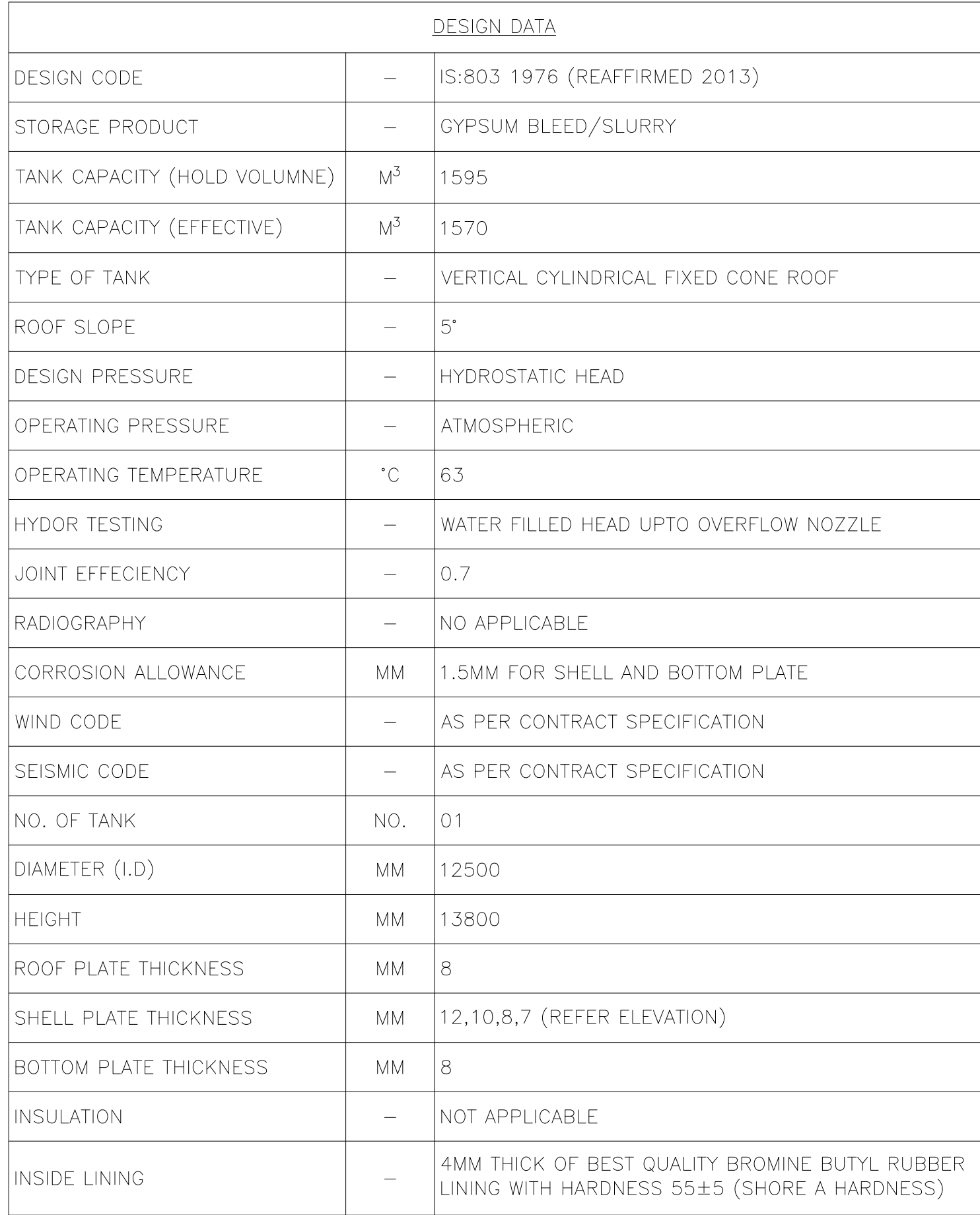
For all the GADs provided in Tender Specs (Page 261 to 267 under Part 3 of 3 Technical Specification), the dimension from Tank Top Roof to the platform is missing for all tanks, kindly please do the needful and provide the same. It is required for design.

BHEL REPLY: Dimension from tank roof to the platform shall be as per the requirement of agitator vendor and shall be decided during detail engineering.

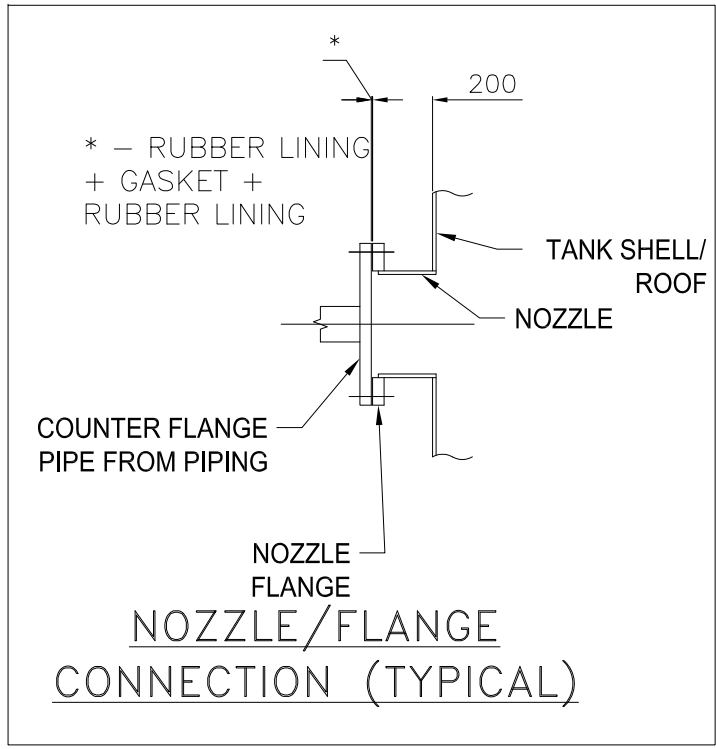
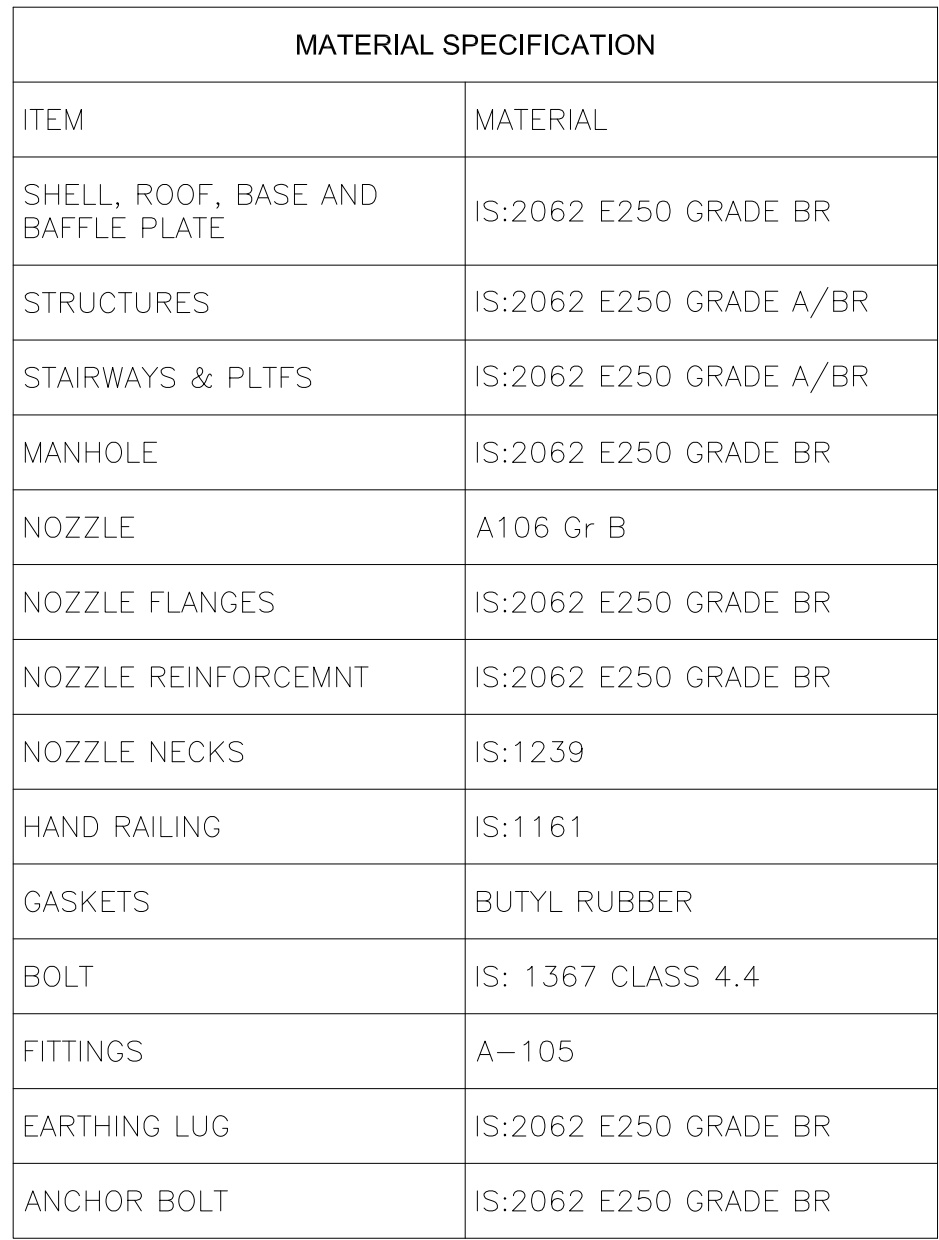
**Bidder Query #2**

In the GAD of Aux Absorbent Tank, it is showing Top Entry Agitator. However, in the Agitator Schedule (Page 338 under Part 3 of 3 Technical Specification) it is requested for side entry agitators. Please clarify which type we should design.

BHEL REPLY: Auxiliary absorbent tank shall be provided with side entry agitators inline with the agitator schedule. The Agitator arrangement shown in the GAD is indicative only. However, the revised GAD of Auxiliary absorbent tank is attached herewith. The arrangement of the side entry agitator in the GAD is indicative, the final arrangement shall be as per the agitator vendor recommendation and shall be decided during detail engineering.



| NOZZLE SCHEDULE |                    |          |     |        |        |            |                   |                               |
|-----------------|--------------------|----------|-----|--------|--------|------------|-------------------|-------------------------------|
| NOZZLE          |                    |          | QTY | FLANGE |        |            | SERVICE           | REMARKS                       |
| MARK            | SIZE               | Sch. No. |     | RATING | FACING | STANDARD   |                   |                               |
| A-1             | —                  | —        | 1   | —      | —      | —          | AGITATOR          |                               |
| MH-1            | NB800              | —        | 1   | —      | SOFF   | PLATE      | MANHOLE           | WITH HINGE                    |
| MH-2            | 1600(H)X<br>600(W) | —        | 1   | PLATE  | SOFF   | —          | MANHOLE           | FOR ENTRY WITH<br>WHEELBARROW |
| N-1A/B/C        | NB250              | —        | 3   | 150    | SOFF   | ANSI B16.5 | LIQUID INLET      |                               |
| N-2A/B/C        | NB250              | —        | 3   | 150    | SOFF   | ANSI B16.5 | LIQUID INLET      |                               |
| N-3A/B/C        | NB350              | —        | 3   | 150    | SOFF   | ANSI B16.5 | LIQUID INLET      |                               |
| LT              | NB150              | —        | 1   | 150    | SOFF   | ANSI B16.5 | LEVEL TRANSMITTER |                               |
| V               | NB80               | —        | 1   | 150    | SOFF   | ANSI B16.5 | VENT              |                               |
| N-4             | NB200              | —        | 1   | 150    | SOFF   | ANSI B16.5 | MINIMUM FLOW      |                               |
| N-5             | NB300              | —        | 1   | 150    | SOFF   | ANSI B16.5 | OVER FLOW         |                               |
| N-6             | NB300              | —        | 1   | 150    | SOFF   | ANSI B16.5 | BOTTOM DRAIN      |                               |
| N-7A/B          | NB200              | —        | 2   | 150    | SOFF   | ANSI B16.5 | PUMP SUCTION      |                               |



- NOTES:
1. ALL DIMENSIONS ARE IN MM, UNLESS SPECIFIED OTHERWISE.
  2. OUTSIDE NOZZLE PROJECTION IS 200MM UNLESS OTHERWISE SPECIFIED.
  3. NOZZLE REINFORCEMENTS SHALL BE AS PER IS:803.
  4. NOZZLE PROJECTIONS ARE MEASURED FROM TANK SHELL INNER TO THE FLANGE FACE AS APPLICABLE.
  5. ALL REINFORCEMENT PADS SHALL BE PROVIDED WITH 6MM TELLTALE HOLE.
  6. NOZZLE AND FLANGE DETAILS SHALL BE AS PER IS803.
  7. ALL BOLT HOLES SHALL STRADDLE VERTICAL CENTERLINES ON SHELL AND RADIAL CENTERLINES ON ROOF.
  8. ALL PROTRUSIONS, SHARP EDGES AND SPATTER, ETC. SHALL BE REMOVED FROM THE SURFACE AND ALL WELDS GROUND SMOOTH WITHOUT ANY CAVITIES AND IMPERFECTION BEFORE LINING.
  9. HYDRO TEST SHALL BE AS PER IS803. LINING SHALL BE CARRIED-OUT AFTER HYDRO TEST.
  10. ALL LONGITUDINAL JOINTS SHALL BE STAGGERED.
  11. BOTTOM PLATE SHALL UNIFORMLY REST ON THE FOUNDATION.
  12. THE MINIMUM SIZE OF WELD SHALL BE EQUAL TO THE THICKNESS OF THINNER MEMBER JOINT UNLESS SPECIFIED OTHERWISE.
  13. EARTHING LUG SHALL BE WELDED TO TANK BODY AT SITE TO SUIT SITE REQUIREMENT.
  14. NO OF AGITATOR SHALL BE IN LINE WITH THE AGITATOR SCHEDULE.

| REV.                                                                         | DATE | ALTD. | CKD.  | APPD. |
|------------------------------------------------------------------------------|------|-------|-------|-------|
| ---                                                                          | ---- | ----- | ----- | ----- |
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| CAUTION: THE DRAWING IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LTD. AND IS NOT TO BE REPRODUCED OR USED TO FURNISH ANY INFORMATION FOR MAKING OF DRAWINGS OF APPARATUS EXCEPT WHERE PROVIDED FOR AGREEMENT WITH SAID COMPANY. | PROJECT:                                                                                          | 3X660MW NABINAGAR STPP<br>(SYSTEM : FLUE GAS DESULPHURIZATION)                           |                                      |        |             |      |
|                                                                                                                                                                                                                                 | CUSTOMER<br> | NTPC LIMITED.<br>(A GOVERNMENT OF INDIA ENTERPRISE)                                      |                                      |        |             |      |
|                                                                                                                                                                                                                                 |              | BHARAT HEAVY ELECTRICALS LIMITED.<br>UNIT: BOILER AUXILIARIES PLANT,<br>RANIPET-632 406. | DEPT<br>CODE<br><br>M<br>CHN<br>APPD | NAME:  | SIGN        | DATE |
|                                                                                                                                                                                                                                 | TITLE: GENERAL ARRANGEMENT AND DATA SHEET OF<br>AUXILIARY ABSORBENT (STORAGE) TANK                |                                                                                          |                                      |        | SCALE : NTS |      |
| DRAWING NO. SKETCH-06                                                                                                                                                                                                           |                                                                                                   | SH 01 OF 02                                                                              |                                      | REV.00 |             |      |

\*\* AGITATOR SHOWN ARE INDICATIVE WILL BE FINALIZED  
 DURING DETAIL ENGINEERING.  
 \*\*\* NOZZLE LOCATION SHOWN IN DRAWING ARE INDICATIVE  
 WILL BE FINALIZED DURING DETAIL ENGINEERING.



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Size A1  
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