शुद्धिपत्र CORRIGENDUM-4
दिनांकित DATED 01-11-2024

निविदा सूचना सं TENDER NOTICE NO: I-I/ET-TPT/24007/24-25
दिनांकित DATED 04-09-2024
(Tender ID: 2024_ITERI_824477_1)

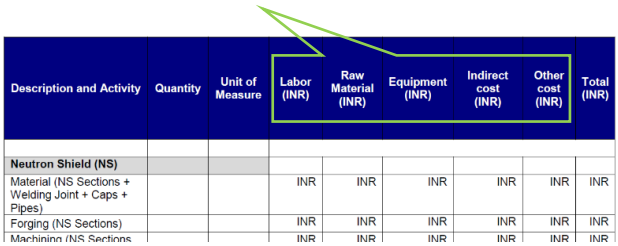
काम / मद का विवरण Work / Item Description: Manufacturing, testing and supply of Duct Liners for ITER Neutral Beam Systems

बोलीदाताओं को सूचित किया जाता है कि उपर्युक्त निविदा के एनआईटी और भाग-A(I) में निम्नलिखित संशोधन किया गया है। बोली-पूर्व स्पष्टीकरण (अनुलग्नक-1) संलग्न है और इसे CPP पोर्टल https://eprocure.gov.in/eprocure/app के साथ-साथ संस्थान की वेबसाइट https://www.iterindia.in/tenders पर भी अपलोड किया गया है।
It is notified to the bidders that the following amendment is made in NIT and Part-A(I) of the above mentioned tender. **Pre-bid Clarifications (Annexure-1)** are attached herewith and the same are also uploaded on CPP Portal https://eprocure.gov.in/eprocure/app as well as on Institute's website https://www.iterindia.in/tenders.

विवरण Description	**निविदा के अनुसार तारीख Date as per Tender**	**विस्तारित तारीख Extended Date**
निविदा जमा करने की अंतिम तारीख **Bid submission closing date**	**05.11.2024 by 1:00 p.m.**	**14.11.2024 by 5:30 p.m.**
भाग-**A** को ऑनलाइन खोलने की तारीख और समय (तकनीकी बोली) **Time and date of online opening of Part-A (Technical Bid)**	**06.11.2024 by 2:30 p.m.**	**18.11.2024 by 2:30 p.m.**

इस शुद्धिपत्र और इससे पहले जारी शुद्धिपत्रों को छोड़कर, सभी आवश्यक पात्रता मानदंड, तकनीकी विनिर्देश, नियम और शर्तें और उपरोक्त निविदा के अन्य विवरण अपरिवर्तित रहेंगे।

Except this corrigendum and corrigendums made earlier, all Technical Specifications, Terms & Conditions and other details of the above mentioned tender shall remain unchanged.

<table>
<tr><th>No.</th><th>Reference</th><th>Clarification</th></tr>
<tr><td>1</td><td>Part_B1_Price_break_up_ET24007</td><td>These are total price for the given qty and not ‘Unit rate’.
 
<table>
<tr><th>Description and Activity</th><th>Quantity</th><th>Unit of Measure</th><th>Labor (INR)</th><th>Raw Material (INR)</th><th>Equipment (INR)</th><th>Indirect cost (INR)</th><th>Other cost (INR)</th><th>Total (INR)</th></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Neutron Shield (NS)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
<tr><td>Material (NS Sections + Welding Joint + Caps + Pipes)</td><td></td><td></td><td>INR</td><td>INR</td><td>INR</td><td>INR</td><td>INR</td><td>INR</td></tr>
<tr><td>Forging (NS Sections)</td><td></td><td></td><td>INR</td><td>INR</td><td>INR</td><td>INR</td><td>INR</td><td>INR</td></tr>
<tr><td>Machining (NS Sections</td><td></td><td></td><td>INR</td><td>INR</td><td>INR</td><td>INR</td><td>INR</td><td>INR</td></tr>
</table></td></tr>
<tr><td>2</td><td>Clarification on the Material of DLM Panels:</td><td>HNB1:

Panels made from CuCrZr:

<table>
<tr><td>HNB1-T1</td><td>HNB1-B1</td><td>HNB1-R2A</td></tr>
<tr><td>HNB1-T2</td><td>HNB1-B2</td><td>HNB1-R2B</td></tr>
<tr><td>HNB1-T3</td><td>HNB1-B3</td><td>HNB1-R3A</td></tr>
<tr><td>HNB1-T4</td><td>HNB1-B4</td><td>HNB1-R3B</td></tr>
</table>
Panels made from SS 316LN + 0.6mm Cu coating:

<table>
<tr><td>HNB1-L1A</td><td>HNB1-L5A</td></tr>
<tr><td>HNB1-L1B</td><td>HNB1-L5B</td></tr>
<tr><td>HNB1-L1C</td><td></td></tr>
<tr><td>HNB1-L1D</td><td></td></tr>
</table>
Panels made from SS 316LN: Remaining all

HNB2/3:

<table>
<tr><td>HNB2-T1</td><td>HNB2-B1</td><td>HNB2-R2A</td><td>HNB2-L1C</td></tr>
<tr><td>HNB2-T2</td><td>HNB2-B2</td><td>HNB2-R2B</td><td></td></tr>
<tr><td>HNB2-T3</td><td>HNB2-B3</td><td>HNB2-R3A</td><td></td></tr>
<tr><td>HNB2-T4</td><td>HNB2-B4</td><td>HNB2-R3B</td><td></td></tr>
</table>
Panels made from SS 316LN + 0.6mm Cu coating: NIL

Panels made from SS 316LN: Remaining all</td></tr>
</table>

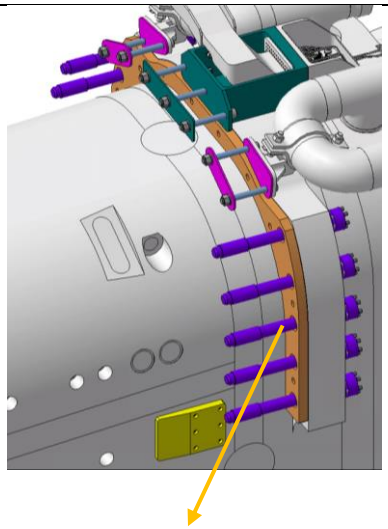
3	Page 38 of 247 of Tech Spec. Footnote of Table 2:	The DL I&C procurement (The feedthrough box and I&C components (thermocouples, connectors, cables) are not included in the scope, although the assembly of the I&C is, as outlined in Table 2. They will be shipped to the DL manufacturer for integration into the DL. the procurement of the DN100 Trunking pipe is within the scope of the procurement.
4	Table-4: For Site Acceptance Test	Scope 'S=provide technical support' is limited to Participation only.
5	CAPTIVE_BOLT_M36_49R WZH_v1	 These are HYTORC Smart-Bolt, mainly made of X6NiCrTiMoVB25-15-2 (A286). Drawing: CT07X-M03604-A28 6AS-292MMOL-DIM.
6	Part_A_I_TQC_Instructions _ET24007	**For the requirement related to:** *Preparation and submission of Manufacturing Readiness Review (including but not limited to MIP, Manufacturing procedure, cleaning*

	Table 1(a) Technical Qualification Criteria for the bidders 2.2 Manufacturing Readiness and Control Points	*procedure, manufacturing drawings and design models, and qualification programs) for approval before commencing production.* **It is clarified to bidders that:** Criteria 2.2's objective is to provide either templates intended for use in this project or examples from similar past projects completed by the manufacturer.
7	7.6.10 Page 63 of 247 of Tech Spec.	Thermal cycling temperature (maximum possible operating temperature) for CuCrZr is upto 325 C and for SS Panel is upto 370 C. Panel wise temperature varies and it depends on the heat flux during the operation. The input related to panel wise temp shall be provided during execution.
8	49.1 Page 230 of 247 of Tech Spec.	**Pl. note following clarifications:** 1. Each DLM at sub-component level- leak tested at min. and max. design temp. (i.e operating temp) 2. Neutron shield assembly- leak test at ambient temperature 3. Assembly of NS and DL- to be baked and then leak tested at ambient temperature. 4. He pressure inside the component during Hot Helium Leak test shall be 40bars.
9	[Annexure REQ 348] The chemical composition shall be within the limits specified in Table 1 (Content in wt. %).	To be read as Table 29.
10	Page 236 of 247 of Tech Spec. [Annexure REQ 927] The Supplier shall define and submit for F4E approval	To be read as 'IO'.

	the acceptance criteria for this requirement during contract implementation.	
11	Positional tolerance of DLM panels	±2mm in the theoretical position of the DLM will be applied.
12	5.1.2 (ITER_D_9GGSM4 - DL Manufacturing report	The manufacturing report, chapter 5.1.2 (ITER_D_9GGSM4 - DL Manufacturing report), proposes machining the NS after welding assembly; however, the manufacturer can assess whether it is necessary, depending on the welding process used. If the overall profile of the Neutron shield is achieved in 'as welded' condition, there is no mandatory requirement of post-assembly machining. (The welding locations would be grounded for smooth transition to the surfaces according to the convexity requirements specified in the code)
13	Page 225 of 247 of Tech Spec. [Annexure REQ 858] Pressure Test shall be done with Deionized Water.	**Clarification:** A pneumatic test is acceptable, provided that all necessary safety precautions are taken.
14	7.6.11 Page 64 of 247 of Tech Spec. [REQ-164] mentions Vacuum Plasma Spray as one of the identified process.	**Clarification:** Air Plasma Spray can be used as an alternative process if it complies with the requirements.
15	7.6.11 Page 64 of 247 of Tech Spec.	Surface finish requirement for coating shall be same as the base material (i.e 6.3 microns Ra, as per IVH).