

Corrigendum-I

| | |
|-------------------------|--|
| GeM Bid Number | GEM/2025/B/6199838 Dated 05/05/2025 |
| Item Description | Oil Module & It's Mandatory Spares |
| Project | Raigarh PH-II, Raipur PH-II, Mirzapur PH-I, Kawai PH-II, Korba PH-III & Mahan PH-III |

Please find attached the following revised documents (attached along with Buyer Uploaded ATC document), applicable for this tender enquiry: -

1. PQR 411939J8810 Rev01
2. 411939J3500 Rev07 Main Product Document
3. 10880-ENGG-N001 Rev02 PAINTING SCHEME FOR TURBINE INTEGRAL PIPING & AUXILIARIES

Please ensure compliance of above revised documents.

Rest of the Terms & Conditions shall remain same as per original GeM bid only.



**PREQUALIFICATION REQUIREMENT
OF OIL MODULE SKID (INCLUDING TANK,
PUMPS, FILTERS, PIPING ETC.)**

Doc. NO.: 4-11939-J8810

Rev 01

Date of Issue: 07.06.25

1. SCOPE OF THE DOCUMENT:

This document states the pre-qualification requirements (PQR) of Oil Module. Vendors desirous of supplying the Oil Module equipment to BHEL are advised to read this document carefully and furnish required documentation. Overview of Oil Module is given in document 4-11939-S5811.

SECTION 1 (MECHANICAL)

2. ACCEPTANCE CRITERIA OF VENDOR

1. Vendor/vendor's principal should have experience of design, manufacturing, testing, supply and successful running of atleast two Oil Modules supplied to Turbine OEM⁵; meeting all of the following conditions: -
 - a. Where size of Lube Oil Tank $\geq 16m^3$;
 - b. Where oil flow ≥ 10 lps;
 - c. Where tank is a steel tank (CS or SS);
 - d. Where pumps (MOP, EOP) are mounted on top of tank;
 - e. Where Oil Module was used to supply oil to bearings of steam/nuclear/gas turbine;
 - f. Where vendor is Turbine OEM approved for supply of Oil Module;
 - g. Where experience of successful running is atleast 2 years for 2 Oil Modules. i.e. Date of commissioning shall be two years or more before date of enquiry.

⁵Turbine OEM means OEM of Turbine of Steam, Nuclear and Gas Power Plants $\geq 200MW$ like Siemens, GE/Alstom/Arabelle/PSIPL, etc.

3. SUBMISSION OF DOCUMENTS CONFORMING TO CLAUSE NO. 2 ALONGWITH OFFER

For any two Purchase Orders conforming to Clause 2, vendor shall furnish the following documents: -

- A. Vendor to furnish, minimum two nos. unpriced POs or one PO with multiple Oil Modules; executed for BHEL Haridwar / BHEL Haridwar Collaborator (Siemens/GE).

OR

- 3.A.1 Vendor shall furnish a certificate/letter/email from Turbine OEM mentioning that the structural design and static calculation of Lube Oil Tank has been done by Oil Module vendor or Turbine OEM approved tank calculation.
- 3.A.2 Vendor shall furnish valid document from Turbine OEM mentioning the date of commissioning. Alternately, other documents like commissioning report, MoM of commissioning etc may also be furnished as documentary evidence of date of commissioning.
- 3.A.3 Vendor shall furnish letter/email from Turbine OEM/End User mentioning that the Oil Module is satisfactorily functioning.
- 3.A.4 Vendor shall furnish Turbine OEM approval letter or any other Turbine OEM document from which it is clear that vendor is Turbine OEM approved vendor for supply of Oil Module.
- 3.A.5 Vendor shall furnish valid document from Turbine OEM/End User mentioning that there is no lube oil pump driven by shaft of turbine i.e. the pump/pumps mounted on top of tank have 24X7 operation.
- 3.A.6 Vendor to furnish minimum two nos. unpriced POs.

| | | |
|-----------|---------------------|---------------------------|
| Worked by | HS DOGRA/SM-STE(TL) | Gurpreet Kaur/Mgr-STE(TL) |
| Checked | A JAIN/SDGM-STE(TL) | Satish Kumar/SDGM-CIE |
| Approved | A JAIN/SDGM-STE(TL) | Vinod Kumar/AGM-CIE |
| | STE-TL | CIE |



**PREQUALIFICATION REQUIREMENT
OF OIL MODULE SKID (INCLUDING TANK,
PUMPS, FILTERS, PIPING ETC.)**

Doc. NO.: 4-11939-J8810

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B. All vendors shall also furnish the following documents/information:

3.B.1 reference list/experience list of projects executed by vendor;

3.B.2 Documents showing Oil Module and its major dimensions (eg. General Arrangement drgs., datasheets, P&IDs etc.). Photos of executed orders are also acceptable, incase vendor is bound by non-disclosure agreement with other end-customer. However, details such as dimensions of Oil Tank, name of project, flow rate, tank size etc need to be marked in photos;

3.B.3 Unpriced dispatch related documents (inspection report/minutes, delivery challan, tax invoice, LR etc).

TABLE-1: TO BE SUBMITTED FILLED BY VENDOR ALONGWITH OFFER

| Sl. no. | Description | Acceptance Criteria | Vendors response for Project 1 Tick correct box. | Vendors response for Project 2 Tick correct box. | Does vendor meet PQR (Vendor to tick Yes or No) |
|---------|--|---|--|--|---|
| 1 | Project name and project rating | | | | |
| 2 | Purchase Order No. and PO Date | | | | |
| 3 | Whether design, manufacturing, testing, supply was done by vendor. | Yes | Yes <input type="checkbox"/> No <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 4 | Whether size of Oil Module Tank >= 16m3 | Yes | Tank size =m3 (Vendor to fill) | Tank size =m3 (Vendor to fill) | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 5 | Whether Flow of Oil Module >= 10 lps | Yes | Flow =lps (Vendor to fill) | Flow =lps (Vendor to fill) | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 6 | whether tank is a steel tank (CS or SS) | Yes | CS <input type="checkbox"/> SS <input type="checkbox"/> | CS <input type="checkbox"/> SS <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 7 | Whether pumps (MOP, EOP etc) are mounted on top of tank | Yes | Yes <input type="checkbox"/> No <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 8 | Whether Oil Module was used to supply oil to bearings of steam/nuclear/gas turbine | Yes | Steam <input type="checkbox"/> Nuclear <input type="checkbox"/> Gas <input type="checkbox"/> | Steam <input type="checkbox"/> Nuclear <input type="checkbox"/> Gas <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 9 | Whether vendor is Turbine OEM approved for supply of Oil Module | Yes | Yes <input type="checkbox"/> No <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 10 | Date of Commissioning of Oil Module. | 2 years or more before date of enquiry. | Date..... | Date..... | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| 12 | Contact details, Telephone no's & Email id of End user | | | | |

SECTION 2 (ELECTRICAL)

4. The vendor to confirm they have previously supplied and commissioned the required instrumentation i.e Transmitter, switches, gauges compatible with oil module applications of Steam/Nuclear/Gas Turbines.

| | | |
|-----------|---------------------|---------------------------|
| Worked by | HS DOGRA/SM-STE(TL) | Gurpreet Kaur/Mgr-STE(TL) |
| Checked | A JAIN/SDGM-STE(TL) | Satish Kumar/SDGM-CIE |
| Approved | A JAIN/SDGM-STE(TL) | Vinod Kumar/AGM-CIE |
| | STE TL | CIE |



**PREQUALIFICATION REQUIREMENT
OF OIL MODULE SKID (INCLUDING TANK,
PUMPS, FILTERS, PIPING ETC.)**

Doc. NO.: 4-11939-J8810

Rev 01

Date of Issue: 07.06.25

SECTION 3 (GENERAL)

5. Note:-

- A. BHEL reserves the right to ask for more information / documents/ clarifications. Vendor's offer shall not be considered if vendor fails to furnish the document / information / clarifications as mentioned above or vendor doesn't meet the acceptance criteria as mentioned above. Vendor shall provide the information to BHEL in a timely manner so that project schedule doesn't hamper.
- B. In case of information / data furnished by the vendor found false/incorrect, BHEL reserves the right to reject their offer for the above item. Submission of fake/fraudulent information shall be taken seriously and shall invite legal action.
- C. BHEL may visit the power plants where the items are supplied & installed by vendor. Cost shall be borne by BHEL for these visits. Vendor shall facilitate with end-customer.

Revision History

1. Rev01 / 07.06.25: Clause 3A revised.

| | | | | |
|-----------|---------------------|---------------------|---------------------------|---------------------------------|
| Worked by | HS DOGRA/SM-STE(TL) | <i>hough</i> 7/6/25 | Gurpreet Kaur/Mgr-STE(TL) | <i>Gurpreet Kaur</i> 07/06/2025 |
| Checked | A JAIN/SDGM-STE(TL) | <i>Jain</i> | Satish Kumar/SDGM-CIE | <i>Satish</i> 07/06/25 |
| Approved | A JAIN/SDGM-STE(TL) | <i>Jain</i> | Vinod Kumar/AGM-CIE | <i>Vinod</i> 07/06/25 |
| | STE-TL | | CIE | |



**OIL MODULE UNIT
MAIN PRODUCT DOCUMENT**

**DOCUMENT No.
4-11939-J3500
Rev 07**

PROJECT NAME: **800MW ADANI - RAIGARH, RAIPUR, KAWAI-II, KORBA-III,
MIRZAPUR, MAHAN-III**

A. SCOPE OF THE DOCUMENT:

This document states technical/ contractual requirements of Bharat Heavy Electricals Limited (hereafter referred to as BHEL), for the vendors to adhere to.

B. DRAWINGS/ DOCUMENTS

The following drgs / documents are applicable to execute this project -

| S. No. | Drawing Title | Drawing no | | Rev No. |
|--------|---|---|----------------------------|---------|
| M1 | Project CRS | DPPPG-70137923 | 981505/003 | A |
| M2 | Addendum | 4-11939-J3600 | | 05 |
| M3 | Temperature control valve | DSPPG-0009174 | 4200928 | E |
| M4 | Oil Mist Separator | DSPPG-0013289 or 4200929 (FRANKE) 4498726 (HYDAC) | | G 0 |
| M5 | Oil Pumps Allweiler | DSPPG-0013295 | 4200932 | D |
| M6 | Collecting Manifold NG 32 Two fold | DSPPG-0013351 | 4200925 | F |
| M7 | Motor-Pump-Unit-LOP | DSPPG-0013457 | 4200931 | C |
| M8 | Module Tank | DWG_DPPPG-70149402 | A-000966-981505/617 | A |
| M9 | Line list | DSPPG-0163725 | D00000-980000/882 | A |
| M10 | Valve list | DSPPG-0163724 | D00000-980000/883 | A |
| M11 | List of components | DSPPG-0163726 | D00000-980000/884 | A |
| M12 | Final inspection report | DSPPG-0037096 | D31000-981505/900 | E |
| M13 | Gen. CRS - Lube Oil supply Module 2 | DSPPG-0066852 | D31001-981505 | P |
| M14 | Oil Module System Scheme (Note 1) | 013100J3106 | - | - |
| M15 | Component Diagram lifting Oil (Note 1) | 113100J3105 | - | - |
| M16 | Foundation Req. Oil Module 2 strip Foundation | DPPPG-70129787 | 981505/006 | B |
| M17 | Piping connection list ANSI Oil Module 2 | 4-11941-J3970 | - | 0 |
| M18 | Oil Module 2 GA | DPPPG-70129781 | 981505/001 | B |
| M19 | Transportation sketch Oil Module 2 | DPPPG-70129782 | 981505/611 | B |
| M20 | Tank strainer | DSPPG-0108776 | 4200950 | F |
| M21 | Commissioning spare parts for Oil Module | 4-11939-OM013 | | 01 |
| M22 | Documents for purchased parts | A0152A3371 | 47117-0098 | V |
| M23 | Functional Test Document | 4-11939-U5800 | - | 02 |
| M24 | Painting Scheme for Turbine Integral piping & Auxiliaries | 10880-ENGG-N001 | P59K-E-BTG-TGA-DM-N-V-0009 | 02 |

| | | | |
|-------------|------------------------|---------------------------|-------------------|
| Worked by | HS DOGRA, (SM, STE-TL) | GURPREET KAUR, (MGR, CIE) | on leave. |
| Checked by | HS DOGRA, (SM, STE-TL) | SATISH KUMAR, (SDGM, CIE) | Signature 07/6/25 |
| Approved by | A JAIN, (SDGM, STE-TL) | VINOD KUMAR, (AGM, CIE) | Signature 07/6/25 |
| | Name Signature | Name Signature | |
| Deptt. | STE-TL | CIE | |

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**OIL MODULE UNIT
MAIN PRODUCT DOCUMENT**

**DOCUMENT No.
4-11939-J3500
Rev 07**

PROJECT NAME: **800MW ADANI - RAIGARH, RAIPUR, KAWAI-II, KORBA-III,
MIRZAPUR, MAHAN-III**

| | | | |
|-----|--|----------------|----|
| E1 | Addendum (Electrical) | 4-18101-E2-010 | 00 |
| E2 | Electrical consumer list | 41800F91000 | 00 |
| E3 | Casing for starter | 41800F91001 | 00 |
| E4 | Pressure switch | 41800F91004 | 00 |
| E5 | Thermometer | 41800F91005 | 00 |
| E6 | Pressure Transmitter | 41800F91006 | 00 |
| E7 | Pressure Transmitter | 41800F91007 | 00 |
| E8 | Surface resistance thermometer | 41800F91008 | 00 |
| E9 | Circuit diagram for clogging indicators | 41800F91009 | 00 |
| E10 | Resistance thermometer | 41800F91010 | 00 |
| E11 | Twin Thermostat & Thermowell | 41800F91011 | 00 |
| E12 | Pressure Transmitter | 41800F91012 | 00 |
| E13 | Wiring and cabling spec. Lube Oil Module | 41800F91013 | 00 |
| E14 | Measuring point list | 41800F91014 | 00 |
| E15 | Level probe | 41800F91015 | 00 |
| E16 | Circuit diagram | 41800F91016 | 00 |
| E17 | Wiring and Cabling for black boxes | 41800F91017 | 00 |
| E18 | Elec. spec 3AC motors 415V (Delta) | 41800F91018 | 00 |
| E19 | Elec. spec Dc Motors 220V | 41800F91019 | 00 |
| E20 | Connection diagram Oil Module | 41800F91020 | 00 |
| E21 | Level indicator with adjustable scale Oil Module 2 | 41800F91021 | 00 |
| E22 | MOT Heating | 41800F91022 | 00 |

C. Requirements mentioned in Addendum 4-11939-J3600 (Sl. No. M2 above) supersede suchlike requirements in the rest of the above docs.

D. Note:-

1. Since the enquiry is for various projects, the P&ID for each project is applicable separately. Accordingly, project specific P&ID is part of specification.




Revision History

1. 07.12.23 / Rev01: Doc at Sl. no. M2 revised.
2. 26.12.23 / Rev02: Doc at Sl. no. M2 revised.
3. 12.03.24 / Rev03: Doc at Sl. no. M2 revised.
4. 10.07.24 / Rev04: Doc at Sl. No. M21 revised. Sl. NO. E1, E6 and E7 revised. E23 deleted.
5. 05.03.25 / Rev05: Doc M24 added. "Note 1" added in Sl. No. M14 and M15. Doc M2, M4 revised. Note 1 added in Sl. No. D.
6. 04.04.25 / Rev06: Doc M2 revised.
7. 07.06.25 / Rev07: Document M24 revised.


| | | | |
|-------------|------------------------|---------------------------|-----------|
| Worked by | HS DOGRA, (SM, STE-TL) | GURPREET KAUR, (MGR, CIE) | on leave. |
| Checked by | HS DOGRA, (SM, STE-TL) | SATISH KUMAR, (SDGM, CIE) | 07/6/25 |
| Approved by | A JAIN, (SDGM, STE-TL) | VINOD KUMAR, (AGM, CIE) | 07/6/25 |
| Deptt. | Name STE-TL | Name Signature CIE | |

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BTG & AUXILIARIES

| | |
|---|--|
|  | OWNER APL RAIGARH |
|  | OWNER'S ENGINEER TATA CONSULTING ENGINEERS LIMITED |
|  | BTG CONTRACTOR BHEL |
| | |

| | |
|---|---|
| PLANT | HEEP HARIDWAR. |
| DOCUMENT TITLE | PAINTING SCHEME FOR TURBINE INTEGRAL PIPING & AUXILIARIES |
| OWNER DOC. NO. | P59K-E-BTG-TGA-DM-N-V-0009 |
| CONTRACTOR / SUPPLIER DOC. NO. | 10880-ENGG-N001 – R02 |
| PACKAGE DISCIPLINE | TURBINE INTEGRAL PIPING & AUXILIARIES |
| PREPARED BY | Rajeev Kumar |
| REVIEWED BY | Rajeev Kumar |
| APPROVED BY | Anuj Jain |

| | | |
|---|--|-----------------------------------|
|  | BTG & AUXILIARIES | OWNER: P59K-E-BTG-TGA-DM-N-V-0009 |
| | | CONTRACTOR: 10880-ENGG-N001 |
| APL RAIGARH 2X800 MW | PAINTING SCHEME FOR TURBINE INTEGRAL PIPING & AUXILIARIES | Page 2 of 6 |
| BHEL | | |

Revision Control History

| Sr. No. | Revision No. | Date | Reasons for Change |
|---------|--------------|------------|--|
| 1 | 00 | 20.07.2024 | First issue |
| 2 | 01 | 01.02.2025 | HPT Steam Evacuation Valve paint revised |
| 3 | 02 | 07-06-2025 | Scheme revised in general as marked. |

Painting Scheme

| Paint Coat (air less) | Paint Type | No. of coat | DFT (microns) |
|-----------------------|---|-------------|---------------|
| Primer Paint | Epoxy base Zinc rich primer paint (IS:14946); primer paint/ Inorganic Zinc Silicate Coating | 1 Coat | 75 |
| Intermediate Paint | High build Epoxy MiO Polyamide Cured Paint with polyamide hardener | 1 Coat | 100 |
| Finish (Final) Paint | Aliphatic Acrylic 2 Pack Polyurethane Finish paint. | 1 Coats | 50 |
| | | Total DFT | 225 |

Details of Color Scheme:

(Legend: W-at BHEL works; V- at vendor's works; S-at site by Customer; NA-Not applicable)

| No | Assembly | Shade as per RAL /IS:5 | Primer | Int. Paint | Final Paint | Touch-up | Remarks |
|----|---|------------------------|--------|------------|-------------|----------|-------------------------------------|
| P1 | Turbine Integral Piping for Control Fluid System | NA | NA | NA | NA | NA | |
| P2 | Turbine Integral Piping for Lube Oil System | Grey 9002 | V | V | V | S | Only non ss pipes Shall be painted. |
| P3 | Turbine Integral Piping for Condensate Spray System | Sea Green IS:5-217 | V | V | V | S | |
| P4 | Turbine Integral Piping for CW to Lub Oil Coolers. | Sea Green IS:5-217 | V | V | V | S | |
| P5 | Turbine Integral Piping for CW to HPSU | Sea Green IS:5-217 | V | V | V | S | |

| | | | | | | | |
|-----|---|---|---|----|----|---|---|
| P6 | Turbine Integral Piping for Turbine Drainage System | Grey 9002 | V | NA | NA | S | Pipes are insulated at site. Only Primer Paint (with min. DFT as 75 microns) as per table above shall be applicable. Aluminum cladding will cover insulation. |
| P7 | Turbine Integral Piping for Seal Steam System | Grey 9002 | V | NA | NA | S | Pipes are insulated at site. Only Primer Paint (with min. DFT as 75 microns) as per table above shall be applicable. Aluminum cladding will cover insulation. |
| P8 | Turbine Integral Piping for Over Load Valve Piping System | Grey 9002 | V | NA | NA | S | Pipes are insulated at site. Only Primer Paint (with min. DFT as 75 microns) as per table above shall be applicable. Aluminum cladding will cover insulation. |
| P9 | Turbine Flash Tank | Grey 9002 | V | NA | NA | S | Pipes are insulated at site. Only Primer Paint (with min. DFT as 75 microns) as per table above shall be applicable. Aluminum cladding will cover insulation. |
| P10 | Spring Cages | Black 9011 | V | V | V | S | |
| P11 | Hangers and supports for turbine integral piping | Black 9011 | V | V | V | S | |
| P12 | Dampers | Black 9011 | V | V | V | S | |
| P13 | Valves of Turbine Integral Piping | Grey 9002 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| P14 | 3-way Temperature Control Valve (Motorised) for Lube Oil (with Actuator) | Grey 9002 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| P15 | Control Panel For Lube Oil Purifier | <u>External</u> (Front & Rear)- Grey 9002 <u>External</u> (Side)- Blue 5012 <u>Internal</u> - Brilliant white glossy | V | V | V | S | |
| P16 | Lube Oil Purifier | Grey 9002 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |

| | | | | | | | |
|-----|---|---|----|----|----|----|--|
| P17 | Gear Pump & return Pump (with motors) | <u>Pumps :</u> Grey 9002 <u>Motors :</u> Blue 5012 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| P18 | Angle Valve (For Turbine Drain) | Grey 9002 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| P19 | Spray Nozzle | NA | NA | NA | NA | NA | Painting is not applicable as the spray Nozzles are of <u>Stainless Steel grade.</u> |
| P20 | Oil tank (MOT), Dirty oil tank , waste oil tank | Grey 9002 | W | W | W | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| P21 | Oil Module | | | | | | |
| | Oil tank (MOT) | Grey 9002 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| | AOP,EOP, JOP (With Motors) | <u>Pumps :</u> Grey 9002 <u>Motors :</u> Blue 5012 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| | Oil Vapour Exhauster (including Motor) | <u>Exhauster :</u> Grey 9002 <u>Motors :</u> Blue 5012 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| | Duplex Filter (Lub oil) | Grey 9002 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |
| | Duplex Filter (Jacking Oil) | Grey 9002 | V | V | V | S | Identification Tag/Band of White 9010 colour. Legend in black letters. |

| PAINTING SCHEME | TYPE OF PAINT & DFT | COMPONENTS |
|--------------------|---|----------------------------|
| 01 2. | 1. <u>Surface preparation</u> : Abrasive Blast Clean to SIS Sa 2½ keeping blasting profile below 40 µm. 2. <u>Primer coat</u> : A1 - Inorganic zinc silicate primer (15µm) 3. <u>Top coat</u> : A6-Two coats of High temperature Silicone aluminum paint, 2x (25) µm 4. <u>Total minimum DFT</u> : 65 µm | HPT Steam Evacuation Valve |

Note:-

1. Stainless Steel Surfaces shall not be painted.
2. The painting environment shall be considered as C-4 as per ISO 12944.
3. It is necessary that the surface to be painted is free from loose dust, mill scale, rust, grease, oil, old film etc. Surface cleaning and preparation shall be done for all the components as per standard practice. The surfaces before painting shall correspond to standard degree of purity SA 2.5.
4. Checking of surface preparation, / measurement of dry paint thickness, adhesion, gloss & finish of painted surface shall be done as per Clause No. 6 (Inspection and Testing) of Adani's Technical Specification (Vol-II, Annexure-1) for Painting & Coating of Equipment & Structures.
5. Touchup paint of 5% of total finish coat paint qty shall be supplied by item supplier alongwith original supply in separate containers.
6. Paint manufacturer for all three coats (primer, intermediate, final) shall be same and paint manufacturer shall be as per Clause No. 10 of Adani Technical Specification (Vol-II, Annexure-1) for Painting & Coating of Equipment & Structures.
7. Adani Technical Specification (Vol-II, Annexure-1) for Painting & Coating of Equipment & Structures shall be complied. However, the technical requirements in this document shall supersede such like requirements as mentioned in Adani Technical Specification (Vol-II, Annexure-1) for Painting & Coating of Equipment & Structures.

Enclosures:

Adani Technical Specification (Vol-II, Annexure-1) for Painting & Coating of Equipment & Structures.

----- End of document -----



Annexure - 1

TECHNICAL SPECIFICATION FOR PAINTING & COATING OF EQUIPMENT & STRUCTURES

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 - 2.2.2 American Society for Testing and Materials (ASTM)
 - 2.2.3 Indian Standards (IS)
 - 2.2.4 British Standard (BS)
 - 2.2.5 International Standard of Organization (ISO)
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3.0 SURFACE PREPARATION

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7.0 PAINT MATERIALS

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1.0 INTRODUCTION

1.1 Scope

This specification covers the minimum requirements governing surface preparation, selection, application & inspection of the protective coating system to be used on the interior and exterior exposed surfaces of all types of structural steel placed in thermal power plant to get high durability (above 15 years) in C5-M, C-4 & C-3 environment classified according to ISO 12944- 2.

Individual equipment specifications and /or drawings, when furnished, are to be used with these specifications. If conflict exists, the individual specifications and/or drawings shall govern.

Since maintenance –painting requirements are usually different from that necessary for new construction, salient points for each will likewise be addressed separately.

1.2 Definitions

The following definitions shall apply:

COMPANY shall mean Adani or the designated representative.

CONTRACTOR shall mean the party contracted to perform the work in accordance with the drawings, specifications & work scope.

2.0 CODES AND STANDARDS

2.1 Mandatory Statutory Requirements

This document has been prepared to the International Standards detailed within. The CONTRACTOR shall ensure that the Work is executed in accordance with international standards, Statutory & Regulatory requirements as per system application.

2.2 Codes and Standards & Regulations

The requirements of the latest published versions of the following listed Codes, Recommended Practices. Specifications and standards shall be met

2.2.1 Steel Structure Painting Council (SSPC)

SSPC-PA1 : Shop, Field and Maintenance Painting of Steel.

SSPC-PA2 : Measurement of Dry Coating Thickness with Magnetic Gauges

SSPC-SP1 : Solvent Cleaning

SSSC-SP2 : Hand Tool Cleaning

SSPC-SP3 : Power Tool Cleaning

SSPC-SP5 : White Metal Blast Cleaning

| | | |
|--------------|---|--|
| SSPC-SP6 | : | Commercial Blast Cleaning |
| SSPC-SP7 | : | Brush –Off Blast Cleaning |
| SSPC-SP10 | : | Near White Blast Cleaning |
| SSPC-SP11 | : | Power Tool Cleaning to bare metal |
| SSPC-SP12 | : | Surface Preparation & cleaning of Steel and Other Hard Material by High and Ultra High Pressure Water Jetting Prior to recoating |
| SSPC-AB1 | : | Mineral and Slag Abrasive |
| SSPC-SP20 | : | Zinc rich coating Type-I (Inorganic) & Type-II (Organic) |
| SSPC-SP COM: | | Surface Preparation and Abrasives Commentary, SSPC Painting Manual, Volume 2, "Systems and Specifications" |
| SSPC VIS-1 | : | Visual Standard for Abrasive Blast Cleaned Steel |
| SSPC Vol.2 | : | SSPC Painting Manual. Other equivalent Swedish, BS standard also applicable. |

2.2.2 American Society for Testing and Materials (ASTM)

| | |
|--------------------|---|
| ASTM D4228: | Standard practice for qualification of coating Applicators for application of coating on steel surfaces. |
| ASTM B117 : | Salt Spray Test |
| ASTM G50 : | Standard practice for conducting atmospheric corrosion test |
| ASTM G53 (Part-B): | Weathering Test |
| ASTM D520 : | Zinc Dust (Metallic Zinc Powder) |
| ASTM D523 : | Specification for Gloss |
| ASTM D1200: | Viscosity |
| ASTM D1640: | Drying time |
| ASTM D1653: | Standard test method for evaluation of painted or quoted specimens subject to corrosive environment. |
| ASTM D2247: | Relative Humidity Test |
| ASTM D2697: | Volume of Solids |
| ASTM D4060: | Abrasion Resistance of Coating |
| ASTM D3359: | Standard test method for measuring adhesion by tape test |
| ASTM D5894: | Standard test method for evaluating drying or Curing during film. Corrosion resistance under Cyclic condensation/UV |

2.2.3 Indian Standards

| | | |
|------|---|--|
| IS 5 | : | Colours for Ready Mixed Paints and Enamels |
|------|---|--|

2.2.4 International Standards Organization

- ISO –8501 : International Standard for Preparation of Surface
- ISO-8502 : Preparation of steel substrates before application of Paints & related products
- ISO-8502 (1 to 10) : Tests for the assessment for surface cleanliness
- ISO –8504 : Preparation of steel substrates before application of Paints and related products-Surface preparation method Part – 1, 2 & 3
- ISO 14713 : Protection against corrosion of iron and steel structure-Zinc and aluminum coating.
- ISO 4624 : Adhesion test of paint
- ISO 12944 : Corrosion protection of steel structure by protective paint system part 1 to 8
- ISO 4628 : Evaluation of degradation of paint coating
- ISO 4628-6 : Paints & varnishes - Evaluation of degradation of paint coatings - Designation of intensity, quantity & size of common types of defect - Part 6: Rating of degree of chalking by type method.

2.2.5 Occupational Safety and Health Act

OSHA : Occupational Safety and Health Act

2.2.6 NACE Standards

- NACE RP0188: Discontinuity (Holiday) Testing of Protective coating
- NACE RP0287: Surface profile Measurement of abrasive blast Cleaned steel surfaces using a replica tape.

2.2.7 RAL COLOUR CHART

3.0 **SURFACE PREPARATION**

3.1 General

The surface preparation procedures and requirements except for galvanizing and Cadmium plating shall be in accordance with Steel Structural Painting Council SSPC **and ISO-8501.**

The method of surface preparation used shall be compatible with the **priming coat of Paint** and be one or a combination of the following:-

1. Solvent Cleaning- SSPC-SP1
2. Hand Tool Cleaning - SSPC-SP2

- 3. Power Tool Cleaning - SSPC-SP3
- 4. Blast Cleaning refer 3.2 as below

All fabrication and assembly shall be completed before surface preparation begins.

Blast and prime of structural items prior to assembly will be permitted. All bolt holes shall be drilled and their edges smoothed prior to blasting.

3.2 Requirements of Blasting

Only dry blasting procedures are allowed. Definitions and requirements for, the various methods of surface cleaning are given below:

- A) White Metal Blast: As per SSPC SP5, & visual reference Sa3 as per ISO 8501-1.
- B) Near-White Blast: As per SSPC SP10, & visual reference Sa2.5 as per ISO 8501-1.
- C) Commercial Blast: As per SSPC SP6, & visual reference Sa2 as per ISO 8501-1.
- D) Brush-off Blast: As per SSPC SP7, & visual reference Sa1 as per ISO 8501-1

3.3 Pre Blasting preparation

3.3.1 Rough Edges

Sharp edges, fillets, corners and welds shall be rounded or smoothened by grinding (minimum radius 2 mm). Hard surface layers (e.g. resulting from flame cutting) shall be removed by grinding prior to blast cleaning.

All surfaces should be washed with clean fresh water prior to blast cleaning.

Any major surface defects, particularly surface laminations or scabs detrimental to the protective coating system shall be removed by suitable dressing. Where such defects have been revealed during blast cleaning, and dressing has been performed, the dressed area shall be re-blasted to the specified standard. Surface pores, cavities etc. shall be removed by suitable dressing or weld repair.

3.3.2 Weld Flux and Spatter

Weld flux, slag spatter, slivers etc. shall be ground smooth before blasting.

Welding surface imperfections shall be removed and surface profile shall be prepared as per ISO 12944-3.

Any surface on which grinding is done shall be spot blast cleaned or power tool cleaned to obtain required anchor pattern.
All welds shall be inspected and if necessary repaired prior to final blast cleaning of the area.

3.3.3 Surface Cleaning

Prior to blasting, all deposits or grease or oil shall be removed from the surface in accordance with SSPC-SP1 Solvent Cleaning using biodegradable water soluble cleaner.

3.3.4 Chemical Contamination

All chemical contamination shall be neutralized and/or flushed off prior to any other surface preparation.

3.4 Blasting Operations

3.4.1 Weather conditions

Blast cleaning shall not be done on any surface that is moist, or that may become moist, before the application of a primer.

Blasting is not permitted when:-

- a) The temperature of steel is less than 3°C above the dew point, as measured by a sling hydrometer,
- b) The relative humidity of the air is more than 60 %.

Relative humidity shall be maintained by an adequately designed Dehumidification system and the record shall be maintained.

3.4.2 Preliminary Blasting

If blasting is performed at night, the surfaces shall be re-blasted the following day to provide the specified surface preparation standard and the anchor profile required for the specified coating system.

3.4.3 Blasting and Painting

Blasting shall not be done adjacent to painting operations or coated surfaces that are not fully dry. Blasting shall overlap previously coated surfaces by at least 150 mm.

Blasting and Painting shall be done in closed chamber only.

The record of atmospheric conditions (Temp, RH, Dew Point) before the blasting & painting shall be maintained.

The use of silica sand is strictly prohibited

3.4.4 Post – Blasting Procedure

The surface to be coated shall be clean, dry, free from oil/grease, and have the specified roughness and cleanliness until the first coat is applied.

Blast cleaned steel surfaces shall not be touched by bare hands. The blast cleaned surface shall be rendered dust free and coated with the specified primer as soon as possible to avoid formation of oxidation on the surface, but in any case, four one from the time of blasting, and at least one hour prior to sundown of the day it is blasted and before any rusting occurs.

Any steel surface not primed within these limits or that is wet shall be reblasted.

No acid washes or other cleaning solutions or solvents shall be used on metal surfaces after they are blasted. This includes washes intended to prevent rusting.

All areas around the intended paint surface shall be cleaned of blast material prior to coating. Drains shall be purged of blast material and flushed.

Biodegradable water – soluble cleaning solution used to clean previously painted surfaces shall not lift, soften or otherwise damage the existing coating.

For determination of chloride surface; relevant ISO 8502 part 2 & 5 shall be applicable. Chloride contamination shall be checked using SCM 400 / bresle patches / quanta strips. Maximum permissible limit is 10 micro gram / sq.cm. for external surface & 5 micro gram / sq.cm. for internal of vessels.

3.5 Blasting Equipment

3.5.1 Compressed Air

The air compressor shall be capable of maintaining a minimum of 700kpa (7 kg/cm² or 100 psi) air pressure at each blasting nozzle. The compressed air supply shall be free of water and oil. Adequate separators and traps shall be provided on the equipment, which shall be regularly purged of water and oil to maintain efficiency.

3.5.2 Nozzle

The nozzle shall be a 10 mm (maximum) internal diameter venturi style nozzle.

3.5.3 Power Tools

Power tools may be used to obtain a metal surface finish as per SSPC SP11 where blasting is not possible, or on items which might be damaged by blasting.

3.5.4 Shot Blasting Equipment

Shot blasting equipment may be used for specific applications. Shot shall be changed as required to maintain the angular profile requirement.

3.6 Blasting Abrasive

3.6.1 Abrasive

The abrasive shall be as per SSPC-AB-1. The abrasives shall be copper slag, steel balls shall be free of contamination of dust and chlorides to produce the required anchor profile and graded as to be free from clay, silt or other matter likely to become embedded in the steel surface. Abrasives which have a tendency to shatter and adhere or embed in the steel surface shall not be acceptable. Recycled abrasive shall not be used. The use of sand is prohibited.

3.6.2 Shot Blasting Material

Shot blasting material shall pass through a G-16 to G-40 mesh screen. At least 25% to 30% steel grit shall be mixed with the graded shot to remove any rust, scale or other impurities pined into the surface. Shot blasting material is limited to iron, steel or synthetic shot which is applied by compressed air nozzles or centrifugal wheels. Shot blasting material shall be checked at least two times a week for replacement of abraded material.

4.0 COATING APPLICATION

4.1 General Application

All application, inspection and safety procedures shall be carried out in accordance with SSPC Painting Manuals, Vol. 1 Chapter 14.2 and Vol. 2 Chapter 5) and as set out below.

4.1.1 Supply and Storage

All coatings shall be furnished, mixed and applied in accordance with manufacturer's recommendations and as specified here in. Mixing of different

Manufacturer's coatings or applications on the same surface are not permitted.

All coating materials and thinners shall be in original, unopened containers being the manufacturers label batch numbers and instructions. For materials having a limited shelf life, the date of manufacture and the length of life shall be shown. Materials older than their stated shelf life shall not be used.

Materials shall be stored in accordance with the manufacturers Recommendations.

Coating materials that have gelled, other than thixotropic materials or materials that have deteriorated during storage shall not be used.

4.1.2 Pot Life

If the coating requires the addition of a catalyst, the manufacturer's Recommended pot life for the application conditions shall not be exceeded.

When the pot life is reached, the spray pot shall be emptied, cleaned and a new material catalyzed. Manufacturer's recommendations to be followed

4.1.3 Mixing

Mixing and thinning directions as furnished by the manufacturer shall be followed. Only thinners specified by the manufacturer shall be used.

All coating materials shall be stirred with a power mixer use, until the pigments, vehicles and catalysts are thoroughly mixed and then strained while being poured into the spray pot. During application the materials shall be agitated according to the manufacturer's recommendations. Different brands or types of paints shall not be intermixed.

4.2. Cleanliness

All Surfaces shall be clean free from dust and dry. Any blast cleaning dust or grit remaining on the surfaces shall be removed by means of compressed air before priming or application of any coating. Any surface with a rust bloom shall be re-blasted as per ISO: 8504.

4.2.1 Temperature

Coating shall only be applied when the temperature of the steel is at least 3°C above the dew point; ambient air temperature must be within the limits specified by the manufacturer.

4.2.2 Weather Conditions

No coatings shall be applied during fog, mist or rain or when humidity is not greater than 60% or on to wet surfaces. In case the minimum temperature at the fabrication yard is below 5 deg C, the contractor shall propose alternate coating procedure for Company's approval at the binding stage itself.

The company has the right to suspend application of coating when damage to the coating may result from actual or impending weather condition.

4.2.3 Coats

Each coat shall be applied uniformly and completely over the entire surface. Each coat shall be allowed to dry for the time specified by the manufacturer before the application of a succeeding coat. To reduce the possibility of intercoat contamination and to assure proper adhesion between successive coats, **all coats shall be applied as soon as possible after the** minimum specified drying time of the preceding coat.

4.2.4 Brush Application (Stripe Coating)

A stripe coat shall be applied by brush or roller after the prime coat has been applied. The stripe coat shall be applied to edges, corners, welding seams, bolt holes, back side of piping, stiffeners, vent and drain holes, notches and any other area that is difficult to reach by spray gun.

4.2.5 Finish Coat

An additional layer of finish coat shall be hand brushed at edges, corners, welds and hard-to-spray areas to eliminate holidays in the final coats.

4.2.6 Field Welds

No coating shall be applied within 150 mm of edges prepared either for field welds or to surfaces waiting non-destructive testing.

4.2.7 Inorganic Zinc Primer

It is preferred that intermediate/top coat for inorganic zinc primer coats be applied within minimum of seven (7) days after the primer coat.

4.3 Spray Application

4.3.1 Equipment

- (a) All equipment to be used for spray applications shall be inspected and tested before application begins.
- (b) All equipment shall be maintained in good working order and shall be equal to that described in the manufacturer's instructions.
- (c) All equipment shall be thoroughly cleaned before and after each use and before adding new material.
- (d) An adequate moisture trap shall be installed between the air supply and each pressure pot. The trap shall be of the type that will continuously bleed off any water or oil from the air supply.
- (e) Suitable pressure regulators and gauges shall be provided for both the air supply to the pressure pot and the air supply to the spray gun. Spray equipment and operating pressures shall comply with the recommendations of the manufacturer.
- (f) The length of hose between the pressure pot and spray gun shall not exceed 15 m.

4.3.2 Procedures

- (a) Pressure pot, material hose and spray gun shall be kept at the same elevation where possible. When spraying inorganic zinc, the elevation difference shall not exceed 3m.
- (b) The spray gun shall be held at right angles to the surface.
- (c) Each pass with the spray gun shall overlap the previous pass by 50%.
- (d) The spray width shall not exceed 300 mm.
- (e) All runs and sags shall be immediately brushed out or the surface re-coated.
- (f) Large surfaces shall receive two passes (except when applying inorganic zinc) at right angles to each other (crosshatched).

4.3.3 Airless Spray Equipment

- (a) Airless spray equipment may be used for applying inorganic zinc, epoxy or aliphatic polyurethane coatings.
- (b) The manufacturer's recommendations in selection and use of airless spray equipment shall be followed.

4.4 Brush Application

4.4.1 General Requirements

- (a) Coating shall be applied by brush on all areas, which cannot be properly spray coated such as corners, edges, and welds etc.,
- (b) Inorganic zinc primer coatings shall not be applied by brushing, not even for touch – up repairs.

4.4.2 Equipment for Brush Application

Brushes shall be of a style and quality that will permit proper application of coating. Round or oval brushes are most suitable for rivets, bolts, irregular surfaces and rough or pitted steel. Wide flat brushes are suitable for large flat areas. Brush width shall not be greater than 100 mm. No extension handles shall be used on brushes.

4.4.3 Procedure for Brush Application

- (a) Brushing shall be done so that a smooth coat, uniform in thickness, is obtained. There shall be no deep or detrimental brush marks.
- (b) Paint shall be worked into all crevices and corners.
- (c) All runs and sags shall be brushed out to prevent air pockets, solvent bubbles or voids.
- (d) When applying solvent type, coatings, care shall be taken to prevent lifting of previous coats.

4.5 Safety Equipment

Appropriate safety equipment shall be provided for blasters, painters and other workers involved in the preparation and application of coating systems as per recommendation of paint manufacturer. Work areas shall be adequately ventilated.

5.0 REPAIR OF DAMAGED AREAS

All areas of paintwork that are locally damaged during transportation, handling or erection shall be fully repaired to the satisfaction of the company.

Prior to the application of any coat, damage to previous coat(s) shall be touched-up by removing the damaged coatings, preparing the surface and reapplying the protective coat(s).

5.1 Repair Procedure for Damaged coating

Surfaces where coating is damaged after application of the finish coat shall be repaired as follows;

5.1.1 Top Coat

The top coat damaged, but base coat undamaged and the metal substrate is not exposed:

- (a) Damaged coating shall be removed with a hand file and abraded back to the sound coating using emery paper or a fine grinder.
- (b) The damaged area shall be wiped with a suitable solvent to remove debris. The periphery of repair area shall be feathered back for a minimum distance of 25 mm into the adjacent undamaged coating by light abrasion or grinding to produce a smooth chamfered surface profile.
- (c) Apply a new topcoat as specified.

5.1.2 Base Coat

Coating damaged to base metal

- a) The damaged area greater than 0.2m² in area, the surface of exposed metal shall be prepared to the original specified standard prior to repairing by power tool cleaning as per SSPC-SP3 or spot blasting to SSPC-SP5 and applying primer, intermediate coat and final coat as specified. Alternatively, high solid surface tolerant epoxy coating such may be used in place of primer & intermediate coats, followed by specified topcoat.
- b) The damaged areas less than 0.2 m² in area may be repaired as per manufacturer's recommendation or by preparing the surface of exposed metal by power tool cleaning as per SSPC-SP11 to the original specified standard.

A primer, intermediate and final coat shall be applied as specified. Alternatively, high solid surface tolerant epoxy coating such may be used in place of primer & intermediate coats, followed by specified topcoat. Brush application is acceptable. Even appearance and smooth feathering into surrounding coating in addition to correct dry film thickness and holidays must be achieved. Coating and surrounding repaired areas shall not be damaged and complete tie-in of the coating with surrounding areas shall be obtained. Zinc based products shall not be applied without Blast Cleaning to Sa 2 ½, instead Surface tolerant epoxy such at 100 microns shall be used as a primer in case blast cleaning is not possible or practical.

6.0 INSPECTION AND TESTING

6.1 Quality Control

Procedures for testing and documenting quality control shall be prepared prior to the initial start up of any work covered by this specification & submitted to company for approval. The procedures shall include methods to assure the specification requirements are met and forms to document environmental conditions, surface temperature, coating applicator, surface(s) being coated, coating applied and status of required examinations and tests.

Testing and inspection shall be carried out in accordance with Table-6.2. Surfaces shall be accessible until final inspection is carried out.

6.2 Inspection and testing requirement

| Test type | Test Method | Test Frequency | Acceptance criteria | Consequence |
|--------------------------|--|---|---|------------------------|
| Environmental conditions | Ambient and steel Temperature. Relative Humidity. Dew point. | Before start of each shift + minimum twice per Shift. | In accordance with Specified requirements | No blasting or coating |
| Visual examination | Visual for sharp edges | 100 % of all surfaces | No defects, see Specified | Defects to be repaired |

| | | | | |
|-------------------------------------|--|---|--|--|
| | weld spatter slivers, rust grade, etc. | | requirements | |
| Cleanliness | a) ISO 8501-1 b) ISO 8502-3 | a) 100 % visual of all surfaces b) Spot checks | a) In accordance with specified Requirements b) Maximum quantity and size rating 2 | a) Reblasting b) Recleaning and retesting until acceptable |
| Salt test | ISO 8502-6 and ISO 8502-9 | Spot checks | Maximum conductivity corresponding to 20 mg/m ² NaCl | Repeated washing with potable water & retesting until acceptable |
| Chloride test | ISO 8502-2 ISO 8502-5 | - | 10 microgram/sq.cm for external & 5 microgram/sq.cm for internal vessel | - |
| Roughness | Comparator or stylus instrument (see ISO 8503) | Each component or once per 200 m ² | As specified | Reblasting |
| Curing test (for Zn silicate) | ASTM D4752 | Each component or once per 100 m ² | Rating 4-5 | Allow to cure |
| Visual examination of coating | Visual to determine curing, contamination, solvent retention, pinholes/popping, sagging & surface defects | 100 % of surface after each coat | According to specified requirements | Repair of defects |
| Holiday detection | NACE RP0188 and as per *note -1 below | As per coating system specification | No holidays | Repair & retesting. |
| Film thickness | ISO 19840. Calibration on a smooth surface | ISO 19840 | ISO 19840, and coating system data sheet | Repair, additional coats or recoating as appropriate |
| Adhesion | ISO 4624 using equipment with an automatic centered pulling force | Each component or once per 200 m ² | *See note-2 below | Coating to be rejected |

| | | | | |
|--|---|--|--|--|
| | & carried out when coating system are fully cured | | | |
|--|---|--|--|--|

*Note:

1. Holiday Testing
Holiday testing shall be conducted in accordance with NACE SP0188. Minimum 10% of the coated areas, which include weld seams, corners, and edges, shall be holiday detected. Any holiday is unacceptable and shall be marked and repaired according to spot repair procedures.
2. Adhesion test
Adhesion test shall be carried out on separate test plates, minimum adhesion values in accordance with ISO 4624 shall be 5,0 MPa when using automatically centered test equipment.

6.3 Qualification of supervisors, foremen and QC personnel at The Fabrication Yard

The contractor's quality control inspector shall be qualified as a coating inspector in accordance with NS 476 Inspector level I or NACE level-I.

The contractor's quality control inspector shall qualify the tradesman level as blast-cleaner, painter, and applicator etc. for painting application.

The personnel shall have relevant knowledge of health and safety hazard, use of protection equipment, coating materials, mixing and thinning of coatings, coating pot-life, surface requirements etc.

Contractor shall carry out tests in accordance with the company approved Coating Procedure Specification for all coating systems that are planned to be used for this project before commencement of painting work.

The test shall be supervised by the coating manufacturer's Authorized technical representative and the contractor's quality control inspector and shall be witnessed & inspected and accepted by the FQA of Adani. Contractor shall issue an inspection report covering the qualification tests for the company approval.

The test shall be carried out on a test panel (minimum 1 m x 1 m) and at least on one end of, angle, channel, beam and flat bar and an alternative location providing similar complexity on the component to be used.

The acceptance criteria are the requirement to the visual and non – destructive inspection of the coating system described in this specification. Operators failing to meet the requirement shall not be allowed to carry out the work on this project.

6.4 Equipment and Material

Materials, tools or equipment used in the surface preparation and coating applications, shall be inspected regularly and rejected if they do not comply with the Specification.

6.5 Inspection Instruments

The following items shall be inspected using the inspection instruments listed below:

| Instrument Item | Inspection Instrument |
|-------------------------|---|
| Surface Profile | Keane-tator Surface Profile Comparator or Testex Press-o-Film Elcometer 124 with 122 testex tape |
| Holidays | Tinker – Rasor Model M – 1 |
| Surface Cleanliness | SSPC – Vis – 1 |
| Viscosity | Zahn Viscometer or Ford Cup |
| Wet Film Thickness(WFT) | Nordson Wet Film Thickness Gauge Sheen WFT Gauge |
| Temperature & Humidity | Gardner Certified Hydrometer And Temperature Indicator |
| Surface Temperature | Pandux Surface Temperature Thermometer Elcometer Surface temperature gauge |
| Compressed Air Quality | Dry white cloth |

6.5.1 Calibration

Each test instrument shall be maintained and calibrated as prescribed by the manufacturer.

6.5.2 Dry Film Thickness

The dry film thickness of the coating system shall be determined in accordance with SSPC-PA2 or by a Micro test thickness gauge or comparable instrument in accordance with the following procedure.

- (a) Ten readings shall be taken for every 10m² of painted areas.
- (b) 90% of all readings shall be within the specified dry film thickness.
- (c) Where thickness accordance with the above procedure falls below the specified minimum an additional coat of the intermediate or finish coat shall be applied.

7.0 PAINT MATERIALS:

The coating manufacturer shall provide a Coating System Data Sheet (CSDS) for each coating system to be used, containing at least the following information for each product:

- Surface pre-treatment requirements;
- Dry Film thickness (maximum, minimum and specified);
- Maximum and minimum re-coating intervals at relevant temperatures;
- Information on thinners to be used (quantities and type);
- coating repair system.
- Practical consumption
- Expected life of product with guarantee.
- MSDS

Paint manufacturer shall furnish all the characteristics of paint materials on printed literature, along with the test Certificate with actual test values of supplied batch for all the specified characteristics given in the specifications.

All the paint materials shall be of first quality, should pass all pre qualification testing for corrosive category – C5-M as per ISO 12944 and conform to the following general characteristics as per the tables below:

TABLE 7.1: REQUIRED CHARACTERISTIC OF PAINT MATERIALS

| Technical Name | Type & Composition | Volume of solids (approx.) | DFT (Dry Film thickness) per coat (approx.) | Weight Per liter in kgs/ liters (approx) | Touch Dry at 25°C (approx) | Hard dry at 25°C (approx.) | Over coating Interval (approx.) | Pot life (approx.) 25°C |
|--|------------------------------|----------------------------|---|--|----------------------------|----------------------------|----------------------------------|-------------------------|
| Inorganic zinc silicate Coating Containing | A two pack air drying self – | 65 %±2 | 65-75 µ | 2.2+/- 0.02 | 30 mts. | Over night | Min.; 16-24 Hrs Max. Indefinite. | 4 Hrs |

| | | | | | | | | |
|--|---|------------|-----------|--------------|---------|-----------|--|--------|
| minimum 85% ±2 zinc in dry film by weight & 96% Purity of Zinc. | curing solvent based Inorganic Zinc silicate coating. | | | | | | | |
| Epoxy MIO High build containing minimum 50% MIO in dry film. | Two pack, super high build, polyamide cured epoxy, pigmented with natural lamellar micaceous iron oxide | Min. 80%±2 | 125-150 µ | 1.82+/-0.02 | 3 Hrs. | Overnight | Min. : 18 Hrs. Max. : Indefinite | 2 hrs. |
| Glossy Aliphatic acrylic Polyurethane Topcoat | Two Components High Build Aliphatic Acrylic Polyurethane. | min 62% ±2 | 50-75 µ | 1.46 +/-0.02 | 1.5 hrs | 12 hrs | Min. ;12 hrs Max. ;As per suppliers data | 3 Hr |
| Inorganic zinc silicate Coating Containing minimum 75% ±2 zinc in dry film by weight & 96% Purity of Zinc. | A two pack air drying self – curing solvent based Inorganic Zinc silicate coating. | Min 60%±2 | 65-75 µ | 2.0+/-0.02 | 30 mts | Overnight | Min.; 16-24 Hrs Max. Indefinite. | 4 Hrs |
| Epoxy MIO High build containing minimum 50% MIO in dry film. | Two pack, high build, polyamide cured epoxy, pigmented with lamellar MIO. | Min 60%±2 | 100-125 µ | 1.58+/-0.02 | 4 Hrs | 18 hrs | Min. : 18 Hrs. Max. : Indefinite | 5 hrs |
| Epoxy Direct to Metal Primer cum Finish Coating | Two pack, rapid cure, high build epoxy DTM primer cum finish | Min 70%±2 | 75-150 µ | 1.63 +/-0.02 | 30 mts | 60 mts | 60 mts | 2 hrs |
| Rapid cure epoxy high build zinc phosphate primer(16% ZP content) | Two pack, rapid cure, high build polyamide cure, epoxy zinc phosphate primer. | Min 63%±2 | 50-100 µ | 1.51+/-0.02 | 45 mts | 3 hrs | 3 hrs | 6 hrs |
| Self -priming Surfacer tolerant High build Epoxy coating | Two pack amine cured self priming epoxy mastic. | Min. 80%±2 | 100-125u | 1.46 +/-0.02 | 5 Hrs. | 24 Hrs | Min. ;24 Hrs Max –As recommended by manufacturer | 2 hrs |

8.0 COATING SYSTEMS

8.1 Scope

The following section outlines the requirement of supply & application of anti corrosive coatings for corrosion protection of steel structural's

exposed to environments classified by ISO 12944-2 as C5-I, C5-M, C- 4 & C-3 and to get long term life (High Durability – above 15 years)

8.2 Surface Preparation

All the parts to be sprayed shall be degreased according to SSPC-SP 1. The absence of oil and grease after degreasing shall be tested by method given elsewhere in the specification.

Grind all sharp edges and corners to a minimum radius of 2 mm. Remove all welding slag, spatter & blend grind all sharp welds & high spots. Remove all salt deposits by jetting with clean (potable) water. Thereafter the surface to be abrasive blasted to near white metal finish as per SSPC-SP 10. Using SSPC VIS 1, it is to be visually assessed that the blast cleaned surface meets requirement of SSPC-SP 10.

Thereafter clear cellophane tape test as per ISO 8502-3 shall be used to confirm absence of dust on the blasted surface. Finally blasted surface shall be tested for presence of soluble salts as per method ISO 8502-9. Maximum allowable salt content shall be considered 50mg/M². (5 micrograms/cm²) In case salt content exceeds specified limit. The contaminated surface shall be cleaned by method as per Annex – C of ISO - 12944-4 (Water Cleaning.) or as per ISO 8501 – 4 (Wa-Wa 2 ½). After cleaning the surface shall be retested for salt content after drying.

The blasting media shall be either chilled iron or angular steel grit as per SSPC-AB-3 of mesh size G-16 to G-40. Copper or Nickel slag or Garret as abrasive will also be suitable having mesh size in the range of G16 to G24, conforming to SSPC-AB-1.

Mesh size shall be required as appropriate to the anchor tooth depth profile requirement and blasting equipment used. The blasted surface should be having angular profile depth of 50 to 75 microns with sharp angular shape. The profile depth shall be measured according to NACE standard RP 0287 (Replica Tape) or ASTM D 4417 method B (Profile depth gauge).

Suitable enclosure shall be provided to carry out the blast cleaning operation. The contractor shall put up minimum three temporary sheds each of size 15m x 30m with handling facilities at site to carry out abrasive blasting. If required prior approval from the factory inspector/pollution

control board etc. shall be obtained regarding the method of blast cleaning and abrasives used therein.

For manual blasting one profile depth measurement shall be taken every 10-20 M² of blasted surface. Surface preparation shall be completed in one abrasive blast cleaning operation wherever possible. If rust bloom (visual appearance of rust) appears on the blast cleaned surface before priming, the affected area shall be re-blasted to achieve specified degree of cleanliness after which only application of inorganic zinc silicate.

Air blasting pressure at nozzle shall be normally maintained at 100 psi. Air pressure and media size should be reduced and adjusted to preclude damage/distortion to thin gauge materials. Blasting time on work piece should be adjusted to only clean the surface and cut required anchor tooth with minimum loss of metal. Blast angle should be as close to perpendicular as possible but in no case greater than $\pm 30^\circ$ from perpendicular to work surface. Blasting media must be free of debris, excessive fines, contaminants such as NaCl and sulfur salts (Ref. SEC 13.2.1.6 of this Spec).

F-Tests for blasting media, blasting air & surface contamination.

F-1- Blasting Media

(For every fresh batch of media and one random test during blasting)

- a) Blasting Media shall be visually inspected for absence of contamination and debris using 10 X magnification.
- b) Inspection for the absence of oil contamination shall be conducted using following procedure:
 - Fill a small clean 200 ml bottle half full of abrasive.
 - Fill the bottle with potable water, cap and shake the bottle.
 - Inspect water for oil film/slick. If present, the blasting media is not to be used.
- c) Soluble salt contamination if suspected shall be verified by method ASTM D4940. If present, media to be replaced.
- d) Clean blasting equipment, especially pot and hoses, then replace blasting media and retest.

F-2 Test for Blasting Air

(Once Daily before start of blasting & once at random during blasting)

The air for blasting shall be free from moisture and oil. The compressor air shall be checked for oil and water contamination per ASTM D 4285.

F-3-Test for presence of oil/grease and contamination

The steel substrate after degreasing as per SSPC-SP 1 shall be tested as per following procedure to validate absence of oil and grease contamination.

- a) Visual inspection - Continue degreasing until all visible signs of contamination are removed.
- b) Conduct a solvent evaporation test by applying several drops or a small splash of residue-free trichloromethane on the suspect area especially pitting, crevice corrosion areas or depressed areas. An evaporation ring formation is indicative of oil and grease contamination. Continue degreasing and inspection till test is passed.

8.3 Paint Systems

8.3.1 For C5-M Environment Classification

Primer Coat: 1 coat of inorganic ethyl self-curing zinc silicate primer (coating) at 75 microns DFT/Coat to be applied by airless/pressure pot for high durability >15 yrs. The primer should meet the requirements of SSPC-SP 20 performance standard. Minimum Metallic Zinc in the dry film by weight must be 85%. Volume solids of the primer must be 65%.

Intermediate coat – 1 coat of Super High build epoxy MIO coating cured with polyamide hardener at 150 microns DFT/Coat to be applied by airless spray. Minimum Natural Lamellar Micaceous Iron Oxide content in the dry film must be 50% by weight. Volume solids of the product must be 80%.

Finish Coat- Two coats of High Build Gloss Aliphatic Acrylic Polyurethane at 50 micron/coat dry film thickness to be applied by brush/airless spray. Total thickness of the finish coat will be 100 microns. Volume Solids of the product must be 62%.

Total DFT minimum: 325 Microns and maximum: 350 Microns.

Notes:

1. This paint system is equivalent to the protective paint system no's (S7.14 & S 6.08) recommended for corrosion category C5-M & C5-I in ISO 12944-5.
2. This system is satisfactory for surface temperatures to 90° C continuous dry temperature.
3. Colour for final coat shall be as per colour code.
4. All material shall be supplied in the manufacturers original cans, durably & legibly marked with the description of the contents. This shall include the batch number, date of manufacturing & the manufacturer's name.
5. All coating materials used shall confirm to the composition clauses given against each product in the specification. In meeting the composition clauses, the manufacturer shall provide evidence of compliance from approved third party lab before start of the job & internal test report along with every supplied batch.
6. Material containing cadmium, lead or any other toxic material to environment/personnel shall not be used.

8.3.2 For C-4 Environment Classification

Primer Coat: 1 coat of inorganic ethyl self curing zinc silicate primer (coating) at 75 microns DFT/Coat to be applied by airless/pressure pot. The primer should meet the requirements of IS - 14946 performance standard. Minimum Metallic Zinc in the dry film by weight must be 75%. Volume solids of the primer must be 60% .

Intermediate coat – 1 coat of High build epoxy MIO coating cured with polyamide hardener at 100 microns DFT/ Coat to be applied by airless spray. Minimum Natural Lamellar Micaceous Iron Oxide content in the dry film must be 50% by weight. Volume solids of the product must be 60% .

Finish Coat- One coat of High Build Gloss Aliphatic Acrylic Polyurethane at 50 micron/coat dry film thickness to be applied by brush/airless spray. Volume Solids of the product must be 62%.

Total DFT minimum: 225 Microns.

Notes:

1. This paint system is equivalent to the protective paint system no S4.30 recommended for corrosion category C-4- in ISO 12944-5.
2. This system is satisfactory for surface temperatures to 90° C continuous dry temperature.
3. Colour for final coat shall be as per colour code.
4. All material shall be supplied in the manufacturers original cans, durably & legibly marked with the description of the contents. This shall include the batch number, date of manufacturing & the manufacturer's name.
5. All coating materials used shall confirm to the composition clauses given against each product in the specification. In meeting the composition clauses, the manufacturer shall provide evidence of compliance from approved third party lab before start of the job & internal test report along with every supplied batch.
6. Material containing cadmium, lead or any other toxic material to environment/personnel shall not be used.

8.3.3 For C-3 Environment Classification

Covered Areas like TG Shed etc:

Primer cum Top Coat: Two coat of DTM – Direct to Metal epoxy primer cum finish with optimum loading of Zinc Silicate anti corrosive pigments at 75 microns DFT/Coat to be applied by airless/pressure pot. The total thickness of the system will be 225 microns. Volume solids of the DTM coating must be 70%.

Total DFT minimum: 225 Microns.

Uncovered Areas – Exposed to UV Rays:

Primer Coat: 2coat of Rapid Cure, High Build, Epoxy Polyamide Cure Zinc Silicate Primer with optimum loading of Zinc Silicate anticorrosive pigment at 175 microns DFT/Coat to be applied by airless/pressure pot. Minimum Zinc phosphate pigment in the dry film by weight must be 16%. Volume solids of the primer must be 63%.

Finish Coat- One coat of High Build Gloss Aliphatic Acrylic Polyurethane at 50 micron/coat dry film thickness to be applied by brush/airless spray. Volume Solids of the product must be 62% .

Total DFT minimum: 225 Microns.

Notes:

1. This paint system is equivalent to the protective paint system no S3.18 recommended for corrosion category C-3- in ISO 12944-5.
2. This system is satisfactory for surface temperatures to 90° C continuous dry temperature.
3. Colour for final coat shall be as per colour code.
4. All material shall be supplied in the manufacturers original cans, durably & legibly marked with the description of the contents. This shall include the batch number, date of manufacturing & the manufacturer's name.
5. All coating materials used shall confirm to the composition clauses given against each product in the specification. In meeting the composition clauses, the manufacturer shall provide evidence of compliance from approved third party lab before start of the job & internal test report along with every supplied batch.
6. Material containing cadmium, lead or any other toxic material to environment/personnel shall not be used.

9 COLOUR SCHEDULE

9.1 EQUIPMENT AND PIPING STANDARD COLOUR CODE FOR MECHANICAL

EQUIPMENT

| S. No. | Description | Ground Colour |
|---------------|------------------------------------|----------------------|
| A | CLOSED COOLING WATER SYSTEM | |
| 1 | Closed cooling water pumps | Sea Green |
| 2 | Plate heat exchanger | Sea Green |
| 3 | Closed cycle cooling water pump | Sea Green |
| 4 | CCCW Expansion tank | Sea Green |
| 5 | CCCW chemical dosing tank | Sea Green |

| | | |
|----------|---|---------------------|
| B | WATER TREATMENT PLANT | |
| 1 | River water & Raw water | |
| a | Raw water pump | Sea Green |
| b | Clarifier | Sea Green |
| c | - Raw / Fire water storage tank | Sea Green |
| d | DM plant supply pump | Sea Green |
| e | Filter air blower | Sea Green |
| f | Filter back wash pump | Sea Green |
| g | Lime slaking tank & agitator | Sea Green |
| h | Lime slurry transfer pump | Sea Green |
| i | Lime solution tank | Sea Green |
| j | Lime solution dosing pump | Sea Green |
| k | Alum solution tank | Sea Green |
| l | Alum solution metering pump | Sea Green |
| m | Polyelectrolyte solution tank | Sea Green |
| n | Polyelectrolyte solution metering pump | Sea Green |
| o | Sludge feed pump | Sea Green |
| p | Filter press | Sea Green |
| q | Service water tank for DM building | Sea Green |
| r | Service water tank for control annex | Sea Green |
| 2 | Demineralisation system | |
| a | Activated carbon filter | Sea Green |
| b | Cation exchanger | Sea Green |
| c | Anion exchanger | Sea Green |
| d | Deaasser tower | Sea Green |
| e | Air blower for deaasser tower | Sea Green |
| f | Strong base anion exchanger | Sea Green |
| g | Deaassed water transfer pump | Sea Green |
| h | Strong base anion exchanger | Sea Green |
| i | Mixed bed polisher | Sea Green |
| j | Air blower for mixed bed polisher | Sea Green |
| k | DM Water Storage tank | Sea Green |
| l | DM water transfer pump | Sea Green |
| m | Acid unloading cum transfer pump | Dark Admiralty Grey |
| n | Bulk acid storage tank | Dark Admiralty Grey |
| o | Acid measuring tank for SAC | Dark Admiralty Grey |
| p | Acid measuring tank for MB | Dark Admiralty Grey |
| q | Regeneration water pump | Dark Admiralty Grey |
| r | Caustic Lye unloading cum transfer pump | Dark Violet |
| s | Bulk caustic storage tank | Dark Violet |
| t | Caustic regeneration tank & agitator | Dark Violet |
| u | Caustic solution filter | Dark Violet |

| S.No. | Description | Ground Colour |
|--------------|---|----------------------|
| v | Caustic dilution tank for SBA/WBA | Dark Violet |
| w | Caustic dilution tank for MB | Dark Violet |
| x | Caustic pump for regeneration for WBA/SBA | Dark Violet |
| y | Waste water recirculation cum disposal pump | Sea Green |
| C | CRANE & HOIST | |
| 1 | Power house EOT crane | Canary Yellow |
| 2 | CW pump house EOT crane | Canary Yellow |
| D | COMPRESSED AIR PLANT | |
| 1 | Air compressor | Sky Blue |

| | | |
|----------|--|---------------------|
| 2 | Compressed air dryer | Sky Blue |
| 3 | Air receiver | Sky Blue |
| E | Chemical Dosing | |
| 1 | Hydrazine preparation tank | Dark Admiralty Grey |
| 2 | Ammonia preparation tank | Dark Admiralty Grey |
| 3 | Hydrazine & ammonia dosing tank | Dark Admiralty Grey |
| 4 | Hydrazine & ammonia dosing pump | Dark Admiralty Grey |
| 5 | Phosphate preparation tank | Dark Admiralty Grey |
| 6 | Phosphate dosing tank | Dark Admiralty Grey |
| 7 | Phosphate dosing pump | Dark Admiralty Grey |
| 8 | - Sampling system | Dark Admiralty Grey |
| F | FIRE PROTECTION SYSTEM | |
| 1 | Diesel engine driven pump | Fire red |
| 2 | Fuel tank for diesel engine driven pump | Fire Red |
| 3 | Main hydrant pump (Electrical) | Fire Red |
| 4 | Jockey pump | Fire Red |
| 5 | Fire Water Storage tank | Fire Red |
| 6 | CO2 cylinder | Fire Red |
| G | FUEL OIL SYSTEM | |
| 1 | Fuel oil pumps skid | Light Brown |
| 2 | Fuel oil Storage tank | Light Brown |
| 3 | Fuel oil strainer | Light Brown |
| H | ASH DISPOSAL SYSTEM | |
| 1 | Ash transmitting vessel | Aluminium |
| I | AIR CONDITIONING AND VENTILATION SYSTEM | |
| 1 | Refrigerant compressor | Sky Blue |
| 2 | Chilled / condenser pumps | Sea Green |
| 3 | Condenser water pipe | Sea Green |
| 4 | Fans | Grey |

9.2 STANDARD COLOUR CODE FOR ELECTRICAL EQUIPMENT

| Sl. No. | Description | Colour | Colour No. |
|---------|---|-----------------------|-----------------------|
| 1 | Transformers | Light grey | Shade 631 of IS : 5 |
| 2 | Bus ducts | Light grey | Shade 631 of IS:5 |
| 3 | Junction boxes. | Light grey | Shade 631 of IS:5 |
| 4 | HT/LT Switchboards, Distribution boards, Control & Relay panels | | |
| | a) Indoor | Siemens | RAL 7032 |
| | b) Outdoor | Light grey | Shade 631 of IS:5 |
| 5 | UPS Panel, charger panels | Siemens | RAL 7032 |
| 6 | DG Alternator | Onan Green | - |
| 7 | NGR | Light grey | Shade 631 of IS : 5 |
| 8 | Motor | Light grey | Shade 631 of IS : 5 |
| 9 | Lighting fittings | As per manufacturer's | As per manufacturer's |
| 10 | Cable trays | Galvanized | |

Note: 1. All panels that are to be erected at CCR floor shall be painted using RAL 7032 (exterior colour). All Electrical, C&I, Fire alarm or any other panel shall have this colour.

9.3 COLOUR CODING FOR IDENTIFICATION OF PIPELINES USED IN THERMAL POWER PLANTS

| Sl.No | Medium | Ground Shade | | Band Shade | | Remarks |
|-------|----------------------------|---------------|--------------------------|--------------|--------------------------|--------------------------------------|
| | | Color | Color No. as per IS:5 | Color | Color No. as per IS:5 | |
| 1 | Water system | | | | | |
| a) | Untreated or raw / service | Sea green | 217 | White | - | White is not included in IS - 5-2007 |
| b) | Treated/dematerialized | Sea green | 217 | Light orange | 557 | |
| c) | Condensate | Sea green | 217 | Light brown | 410 | |
| d) | Potable water | Sea green | 217 | French blue | 166 | |
| e) | RO water | Sea green | 217 | Light orange | 557 | |
| f) | Service & clarified water | Sea green | 217 | French blue | 166 | |
| 2 | Steam system | | | | | |
| a) | Auxiliary steam | Aluminium | - | Signal red | 537 | with aluminium |
| 3 | Air system | | | | | |
| a) | Instrument | Sky Blue | 101 | White | - | White not included in IS-5 - 2007 |
| b) | Service/Plant | Sky Blue | 101 | White | - | |
| c) | Vacuum pipes | Sky Blue | 101 | Black | - | Black not included in |
| 5 | Gas system | | | | | |
| a) | Hydrogen | Canary yellow | 309 | Signal red | 537 | White is not included in |
| b) | Chlorine | Canary yellow | 309 | Dark violet | 796 | |
| c) | Carbon dioxide | Canary yellow | 309 | Light grey | 631 | |
| e) | Oxygen | Canary yellow | 309 | White | 218 | |

| Sl.No | Medium | Ground Shade | | Band Shade | | Remarks |
|-------|--|---------------------|-----------------------|-----------------|-----------------------|----------------------|
| | | Color | Color No. as per IS:5 | Color | Color No. as per IS:5 | |
| 6 | Oils | | | | | |
| a) | LDO/HFO | Light brown | 410 | Brilliant green | 221 | |
| b) | Transformer oil | Light brown | 410 | Light orange | 557 | |
| 7 | Chemical feed | | | | | |
| a) | Acid piping (in water treatment plant) | Dark admiralty grey | 632 | Signal red | 537 | Hazard mark is given |
| b) | Alkali Piping (in water treatment plant) | Dark violet | 796 | Golden yellow | 356 | Hazard mark is given |
| 8 | Fire services | Fire red | 536 | - | - | |
| 9 | Effluent pipes | Black | - | - | - | |

9.4 COLOUR CODE FOR STRUCTURAL STEEL

| SL. NO | ITEAM/SERVICE | COLOR | COLOR No. as per IS:5 |
|--------|--|---------------------|-----------------------|
| 1 | Gantry girder & monorail | Brilliant green | 221 |
| 2 | Gantry girder & monorail stopper | Signal red | 537 |
| 3 | Building structural steel columns brackets, beams bracings, roof truss, purloin, side grit, louvers, stringers | Dark admiralty grey | 632 |
| 4 | Pipe rack structure & trestle | Dark admiralty grey | 632 |
| 5 | Chequered plate (Plain Face) | Black | - |
| 6 | Grating | Black | - |
| 7 | Ladder | Dark admiralty grey | 632 |
| 8 | Hand railing Hand rail | Signal red | 537 |
| 9 | Middle rail | Signal red | 537 |
| 10 | Toe Plate | Signal red | 537 |
| 11 | Vertical post | Black | - |
| 12 | Structural steel for Silo | Smoke grey | 692 |

10 RECOMMENDED LIST OF PAINT MANUFACTURER

- 1.Asian Paints India Ltd
2. Shalimar Paints
- 3.Jotun
4. Akzonobel
5. Berger Paints
6. Good lass Nerolac Paints
7. Bombay Paints
8. Jenson & Nicholson

11 PROCEDURE OF APPROVAL OF NEW COATING MATERIAL

Following procedure recommended is to be followed for approval materials Manufactured by new manufactures (indigenous and foreign):

1. Sample shall be selected by adani and the manufacturer should arrange testing of the coating materials as per the List of tests given in Para 5 below from one of the reputed Government Laboratories. Testing charge shall be borne by manufacturer.
2. Samples of coating materials should be submitted to the Govt.Laboratory in sealed containers with batch number and test certificate on regular format of manufacturer's testing laboratory.
3. All test panels should be prepared by the Govt. testing agency colored photographs of test panels should be taken before and after the test and should be enclosed along with test report.

Sample batch number and manufacturers test certificate should be enclosed along with the report. Test report must contain detail of observations and rating if any as per the testing code. Suggested Govt. laboratories are:

RRL, Hyderabad
HBTI, Kanpur
DMSRDE, Kanur
IIT, Bombay
BIS, Laboratories
UDCT, Mumbai

4. Manufacturers should intimate the company, details of samples submitted for testing, name of Govt. testing agency, date. Contact personnel of the Govt. testing agency. At the end of the test the manufacturer should submit the test reports to the Company for approval. The manufacturer(s) shall be qualified based on the results of these tests and the Company's decision in this regard - shall be Final and binding on the manufacturer.
5. All tests required for evaluation of acceptance coating materials for structural steel in thermal power plant shall be as per C5-M classification in ISO 12944 – 2 relevant ISO/ASTM standards.

Types of Environment

| ISO 12944 classification | Typical Environments |
|--------------------------|---|
| C1 & C2 | Rural areas, low pollution. Heated building/neutral atmosphere. |
| C3 | Urban and industrial atmospheres. Moderate sulphur dioxide levels. Production areas with high humidity. |
| C4 | Industrial and coastal. Chemical processing plants. |
| C5I | Industrial areas with high humidity and aggressive atmospheres. |
| C5M | Marine, offshore, estuaries, coastal areas with high salinity. |

Buyer Added Bid Specific Additional Terms & Conditions (ATC)

Note: This Annexure has to be mandatorily filled & signed by the bidder and submitted along with Technical bid.

Any deviation to the below mentioned terms shall be stated specifically in the comment's column for each term and also in case of acceptance to our terms, it will be construed that the whole term is understood and agreed in totality without any deviation. (If otherwise mentioned).

| Sl. | Terms Description | Supplier Acceptance/ Comments |
|-----|--|-------------------------------|
| 1. | <p><u>PRE-QUALIFICATION CRITERIA:</u></p> <p>1.1 Pre-Qualification Requirement (Attached): The Pre-Qualification Requirements have been compiled and placed as Document No. 411939J8810 Rev.01 Dated 07.06.2025. All the bidders should ensure submission of complete details and documents as called for in these requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.</p> <p>Important Note: <i>Bidders should ensure completeness and correctness of all supporting documents of PQR along with their offer. BHEL reserves the right to close PQR within 30 days of opening of techno-commercial Bids. Offers of Bidder / Bidders, who do not meet PQR i.e. do not complete the PQR documentation within 30 days of opening of techno-commercial bid, may be ignored and no-further correspondence shall be entertained thereafter.</i></p> <p>1.2 Submission of Integrity Pact (IP) duly signed: The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with offer. Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification</p> <p>1.3 Bidder must not be admitted under Corporate Insolvency Resolution Process or Liquidation as on date, by NCLT or any adjudicating authority/authorities, and shall submit undertaking (Annexure-4) to this effect.</p> <p>1.4 Customer Approval: Applicable. Procurement will be done from Customer (Adani) Approved Vendors only. The "bidder, already approved by customer for the enquiry item, will have to follow approval conditions of the customer in totality." Bidder to confirm the same in their offer. Unapproved vendors to submit credentials in attached format to take up with Adani customer for approval.</p> <p><u>Explanatory Notes for the PQR:</u></p> <p>i. All bidders to provide point wise reply/confirmation along with relevant supporting documents to each and every point of Pre-Qualification Requirement/PQR. Non-compliance of these may lead to rejection of offer as these are essential condition for participating in tender enquiry.</p> <p>ii. Credentials furnished by the bidder against "PRE-QUALIFYING CRITERIA" shall be verified from the issuing authority for its authenticity. In case, any credential (s) is/are found to be spurious, offer of the bidder is liable to be rejected. BHEL reserves the right to initiate any further action as per extant guidelines for Suspension of Business Dealings as applicable in BHEL.</p> | |

| Sl. | Terms Description | Supplier Acceptance/ Comments |
|-----|--|-------------------------------|
| | <p>iii. Price Bids of only those bidders shall be opened who stand qualified after compliance of Pre-qualification requirement (PQR), Technical requirement and approved by the End Customer (if required).</p> | |
| 2. | <p>SCOPE OF SUPPLY: The Scope of Supply shall be as per enclosed “Annexure for Scope of Supply and Delivery Schedule in GeM Tender”.</p> <p>Bidders are requested to refer “<u>Checklist for pre-requisites for technical scrutiny and PQR (Annexure-1)</u>” and ensure to fill all relevant columns as given in the check list and submit dully filled checklist & all supporting documents along with offer.</p> | |
| 3. | <p>PRICE BASIS:</p> <p>Price in INR should be quoted for Ex-Works Freight Prepaid up to Site basis.</p> <p>Kindly confirm that price has been quoted on Ex-Works Freight Prepaid up to Site basis inclusive of GST (i.e. including all taxes, duties, local levies/ transportation / loading & unloading charges, packing & forwarding charges etc.). Unloading of materials at Destination/ Site shall be in BHEL’s scope.</p> | |
| 4. | <p>TAXES & DUTIES:</p> <p>4.1 The Supplier/Vendor shall pay all (save the specific exclusions as enumerated in this clause) taxes, fees, license, charges, deposits, duties, tools, royalty, commissions, other charges, etc. which may be levied on the input goods & services consumed and output goods & services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes/duties, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit along with the applicable overheads @5% and interest on the total value (i. e. amount paid by BHEL + overhead).</p> <p>However, provisions regarding GST on output supply (goods/service) and TDS/TCS as per Income Tax Act shall be as per following clauses.</p> <p>4.2 GST (Goods and Services Tax)</p> <p>4.2.1 GST as applicable on output supply (goods/services) are excluded from Supplier/Vendor’s scope; therefore, contractor’s price/rates shall be exclusive of GST. Reimbursement of GST is subject to compliance of following terms and conditions. BHEL shall have the right to deny payment of GST and to recover any loss to BHEL on account of tax, interest, penalty etc. for non-compliance of any of the following condition.</p> <p>4.2.2 The admissibility of GST, taxes and duties referred in this chapter or elsewhere in the contract shall be limited to direct transactions between BHEL & its Supplier/Vendor. BHEL shall not consider GST on any transaction other than the direct transaction between BHEL & its Supplier/Vendor.</p> <p>4.2.3 Supplier/Vendor shall obtain prior written consent of BHEL before billing the amount towards such taxes. Where the GST laws permit more than one option or methodology for</p> | |

| Sl. | Terms Description | Supplier Acceptance/ Comments |
|-----|---|-------------------------------|
| | <p>discharging the liability of tax/levy/duty, BHEL shall have the right to adopt the appropriate one considering the amount of tax liability on BHEL/Client as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the Contractor for discharging the obligation of BHEL in respect of the tax liability to the Supplier/Vendor.</p> <p>4.2.4 Supplier/Vendor has to submit GST registration certificate of the concerned state. Supplier/Vendor also needs to ensure that the submitted GST registration certificate should be in active status during the entire contract period.</p> <p>4.2.5 Supplier/Vendor has to issue Invoice/Debit Note/Credit Note indicating HSN/SAC code, Description, Value, Rate, applicable tax and other particulars in compliance with the provisions of relevant GST Act and Rules made thereunder.</p> <p>4.2.6 Supplier/Vendor has to submit GST compliant invoice within the due date of invoice as per GST Law. In case of delay, BHEL reserves the right of denial of GST payment if there occurs any hardship to BHEL in claiming the input thereof. In case of goods, Supplier/Vendor has to provide scan copy of invoice & GR/LR/RR to BHEL before movement of goods starts to enable BHEL to meet its GST related compliances. Special care should be taken in case of month end transactions.</p> <p>4.2.7 Supplier/Vendor has to ensure that invoice in respect of such services which have been provided/completed on or before end of the month should not bear the date later than last working day of the month in which services are performed.</p> <p>4.2.8 Subject to other provisions of the contract, GST amount claimed in the invoice shall be released on fulfilment of all the following conditions by the Supplier/Vendor: -</p> <ol style="list-style-type: none"> Supply of goods and/or services have been received by BHEL. Original Tax Invoice has been submitted to BHEL. Supplier/Vendor has submitted all the documents required for processing of bill as per contract/ purchase order/ work order. In cases where e-invoicing provision is applicable, Supplier/Vendor is required to submit invoice in compliance with e-invoicing provisions of GST Act and Rules made thereunder. Supplier/Vendor has filed all the relevant GST return (e.g. GSTR-1, GSTR-3B, etc.) pertaining to the invoice submitted and submit the proof of such return along with immediate subsequent invoice. In case of final invoice/ bill, contractor has to submit proof of such return within fifteen days from the due date of relevant return. Respective invoice has appeared in BHEL's GSTR - 2A for the month corresponding to the month of invoice and in GSTR-2B of the month in which such invoices has been reported by the contractor along with status of ITC availability as "YES" in | |

| Sl. | Terms Description | Supplier Acceptance/ Comments |
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| | <p>GSTR-2B. Alternatively, BG of appropriate value may be furnished which shall be valid at least one month beyond the due date of confirmation of relevant payment of GST on GSTN portal or sufficient security is available to adjust the financial impact in case of any default by the Supplier/Vendor.</p> <p>g) Supplier/Vendor has to submit an undertaking confirming the payment of all due GST in respect of invoices pertaining to BHEL.</p> <p>4.2.9 Any financial loss arises to BHEL on account of failure or delay in submission of any document as per contract/purchase order/work order at the time of submission of Tax invoice to BHEL, shall be deducted from Supplier/Vendor's bill or otherwise as deemed fit.</p> <p>4.2.10 TDS as applicable under GST law shall be deducted from Supplier/Vendor's bill.</p> <p>4.2.11 Supplier/Vendor shall comply with the provisions of e-way bill wherever applicable. Further wherever provisions of GST Act permit, all the e-way bills, road permits etc. required for transportation of goods needs to be arranged by the contractor.</p> <p>4.2.12 Supplier/Vendor shall be solely responsible for discharging his GST liability according to the provisions of GST Law and BHEL will not entertain any claim of GST/interest/penalty or any other liability on account of failure of Supplier/Vendor in complying the provisions of GST Law or discharging the GST liability in a manner laid down thereunder.</p> <p>4.2.13 In case declaration of any invoice is delayed by the vendor in his GST return or any invoice is subsequently amended/alterd/deleted on GSTN portal which results in any adverse financial implication on BHEL, the financial impact thereof including interest/penalty shall be recovered from the Supplier/Vendor's due payment.</p> <p>4.2.14 Any denial of input credit to BHEL or arising of any tax liability on BHEL due to noncompliance of GST Law by the Supplier/Vendor in any manner, will be recovered along with liability on account of interest and penalty (if any) from the payments due to the Supplier/Vendor.</p> <p>4.2.15 In the event of any ambiguity in GST law with respect to availability of input credit of GST charged on the invoice raised by the contractor or with respect to any other matter having impact on BHEL, BHEL's decision shall be final and binding on the Supplier/Vendor.</p> <p>4.2.16 Variation in Taxes & Duties: Any upward variation in GST shall be considered for reimbursement provided supply of goods and services are made within schedule date stipulated in the contract or approved extended schedule for the reason solely attributable to BHEL. However downward variation shall be subject to adjustment as per actual GST applicability.</p> | |

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| | <p>In case the Government imposes any new levy/tax on the output service/goods after price bid opening, the same shall be reimbursed by BHEL at actual. The reimbursement under this clause is restricted to the direct transaction between BHEL and its Supplier/Vendor only and within the contractual delivery period only.</p> <p>In case any new tax/levy/duty etc. becomes applicable after the date of Bidder's offer but before opening of the price Bid, the Bidder/ Supplier/Vendor must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of price bid. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.</p> <p>4.3 <u>Income Tax:</u> TDS/TCS as applicable under Income Tax Act, 1961 or rules made thereunder shall be deducted/collected from Supplier/Vendor's bill.</p> <p>4.4 HSN Code of Item & Applicable GST % (To be filled by Supplier): _____</p> | |
| 5. | <p><u>MATERIAL DISPATCH CLEARANCE CERTIFICATE (MDCC):</u></p> <p>MDCC shall be issued by BHEL. No material shall be dispatched by supplier unless and until Material Dispatch Clearance Certificate (MDCC) issued by BHEL. In case any material is dispatched without MDCC and any loss is incurred by Supplier/Vendor for any reason whatsoever, BHEL shall not be responsible in any manner to compensate the supplier in this regard.</p> <p>For issuance of MDCC, you are required to submit all test certificates (TC) and inspection report of third party (IR) to BHEL. BHEL will issue MDCC within 7 days of receipt TCs & IR, if these are complete w.r.t. approved quality plan and comply with approved technical documents.</p> | |
| 6. | <p><u>INSPECTION / INSPECTION & TESTING AT SUPPLIERS WORKS:</u> Applicable</p> <ul style="list-style-type: none"> Inspection shall be done by BHEL nominated inspection agency "M/s QUEST" and Customer, as per enclosed Customer approved Quality Plan No. QA/BI/QP/903/MAHAN REV01 & ADANI/QA/SQP/E/002 (for Motor of rating 45 KW & above*). Please confirm the same and furnish endorsed (signed & stamped) copy of these customer approved quality plans as a token of your acceptance. <p><i>*SQP of LT Motors is applicable for 45 KW & above rating motors. Below 45 KW Motors, manufacturer to carrying out internal routine test and test report of same to be submitted to customer for review.</i></p> <ul style="list-style-type: none"> For Spares: Please confirm that test certificate/witnessing/COC shall be done and provided as per approved quality plan along with interchangeability certificate. If item does not appear in approved quality plan then certificate of compliance along with interchangeability certificate shall be provided. | |

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| | <ul style="list-style-type: none"> • Please confirm that paint material shall be procured from following manufacturer as per attached customer's technical specification for painting & coating of equipment & structures: <ol style="list-style-type: none"> 1. Asian paints India ltd. 2. Shalimar paints 3. Jotun 4. Akzonobel 5. Berger paints 6. Good lass Nerolac paints 7. Bombay paints 8. Jenson & Nicholson • Customer approved vendors for Oil Module are: - <ol style="list-style-type: none"> 1. M/ Hydac (India) Pvt. Ltd., India, Germany 2. M/s Allweiler India Pvt Ltd., India 3. M/s AEL Apparatebau GMBH, Germany 4. M/s VDL Delmas GMBH, Germany 5. M/s Kings Dynamics AG, Switzerland 6. M/s Gesellschaft Fuer Oeltechnik, Germany 7. M/s Flenco Fluid System, Italy 8. M/s Kelag AG, Switzerland 9. M/s Enpro,Pune 10. M/s Southern Lubrication, India (DR) 11. Rockfin,Poland 12. Jord,China 13. Cenlub,India 14. Bosch Rexroth,India • Customer approved vendors for AC Motors (LT Motors) are: - <ol style="list-style-type: none"> 1. M/s CGL, Ahmednagar 2. M/s Marathon Electric, Kolkata 3. M/s Regal Beloit Wuxi Co. Ltd., China 4. M/s Siemens, China/Mumbai 5. M/s ABB, Faridabad/China 6. M/s Bharat Bijali, Mumbai 7. M/s KEC, Bangalore/Hubli 8. M/s BHEL, Bhopal 9. M/s Shanghai Electric Company, China 10. M/s Xiangtan Electric Manufacturing Co. Ltd., China 11. M/s Jyoti Ltd., Baroda 12. M/s NGEF, Hubli 13. M/s Shanghai Shangdian Electric Machinery, China 14. M/s Jiangsudazhong Electric Motors Co. Ltd., China 15. M/s Siemens, worldwide (For AC Motor for MOP & Lifting Oil Pump) 16. M/s FPZ or equivalent (For AC Motor for Oil Vapor Exhauster) • Customer approved vendor for Main Oil Tank are: - <ol style="list-style-type: none"> 1. M/s MYTEC, Poland | |

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| | <ol style="list-style-type: none"> 2. M/s Rockfin Group, Germany 3. M/s Hydac, China 4. M/s Jord, India 5. M/s Enpro Industries Pvt. Ltd., India 6. M/s Hydac, India 7. M/s Cenlub, India 8. M/s Fil Sep Equipment, India 9. M/s Southern Lubrication, China 10. M/s Shanghai Maosheng, India <ul style="list-style-type: none"> • Suppliers approved by Customer & BHEL for Main Oil Pump are: - <ol style="list-style-type: none"> 1. M/s Allweiler 2. M/s Finder - Italy • Suppliers approved by Customer & BHEL for Emergency Oil Pump are: - <ol style="list-style-type: none"> 1. M/s Allweiler 2. M/s Finder – Italy 3. M/s KSB Pumps - India • Suppliers approved by Customer & BHEL for Jacking Oil Pump are: <ol style="list-style-type: none"> 1. Parker Dennison 2. Bosch Rexroth • Customer approved vendors for DC motors for EOP are: <ol style="list-style-type: none"> 1. Winkelmann, Germany 2. Kretzschmar, Germany 3. CGL • Customer approved vendors for DC motors for Lifting oil Pump are: <ol style="list-style-type: none"> 1. Winkelmann, Germany 2. Kretzschmar, Germany • Please confirm to follow attached customer approved C&I lists (Please refer enclosed Customer approved vendor list for C&I items, Additional Customer approved vendor list for C&I & Annexure D rev 01 for applicable C&I items). <p>Note: The make of the items shall strictly be as per the customer-approved vendors list. If any bidder offers makes that are not yet approved by the end-customer, the bidder must submit complete credentials of the respective sub-vendor along with all required documents. These credentials will be forwarded to the end-customer for approval. Acceptance of any additional sub-supplier make shall be strictly subject to end-customer approval. In case the offered make is not approved by the customer, the bidder shall supply the item strictly from the customer-approved make without any financial or delivery implications.</p> | |

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| 7. | <p><u>DELIVERY:</u></p> <p>Please inform your Delivery Period (including time for document submission, document approval and MDCC issuance, as mentioned in this annexure) in No. of Weeks / Months from the date of PO. The contractual delivery will be the delivery period quoted by you or as per enquiry delivery schedule, whichever is later.</p> <p><u>NOTE:</u></p> <p>a). If the delivery of supply as detailed above gets delayed beyond the delivery period, the Supplier/Vendor shall request for a delivery extension and BHEL at its discretion may extend the Contract. However, if any ‘Delivery extension’ is granted to the Supplier/Vendor for completion of supply, due to backlog attributable to the Supplier/Vendor, then it shall be without prejudice to the rights of BHEL to impose LD for the delays attributable to the Supplier/Vendor.</p> <p>b). In case BHEL increase the quantity during currency of the contract in line with quantity variation clause, delivery extension on pro-rata basis shall be given for supply of these additional quantity.</p> | | | | | | | | | |
| 8. | <p><u>TRANSIT INSURANCE:</u> Transit Insurance will be covered by BHEL under its open Insurance Policy.</p> | | | | | | | | | |
| 9. | <p><u>PAYMENT TERMS:</u></p> <p><u>Material Portion:</u> 100% payment will be released after issue of Consignee Receipt-Cum-Acceptance Certificate (CRAC) and On-line submission of bills.</p> <p><u>Supervision of E&C:</u> 100% payment against submission of Successful Commissioning Certificate and Time Sheet signed by Project authorities along with Invoice direct to BHEL.</p> <p>The timeline for payments will be as under:</p> <table><tr><th>Type of Bidder</th><th>Payment Terms (No. of Days)</th></tr><tr><td>Micro & Small Enterprises (MSEs)</td><td>45 Days</td></tr><tr><td>Medium Enterprises</td><td>60 Days</td></tr><tr><td>Non MSME</td><td>90 Days</td></tr></table> <p>However, GST amount shall be reimbursed in line with compliance to Cl. No. 4 (Taxes & Duties) above.</p> <p>NO INTEREST PAYABLE TO CONTRACTOR: “No interest shall be payable on the security deposit or any other money due to the contractor”.</p> | Type of Bidder | Payment Terms (No. of Days) | Micro & Small Enterprises (MSEs) | 45 Days | Medium Enterprises | 60 Days | Non MSME | 90 Days | |
| Type of Bidder | Payment Terms (No. of Days) | | | | | | | | | |
| Micro & Small Enterprises (MSEs) | 45 Days | | | | | | | | | |
| Medium Enterprises | 60 Days | | | | | | | | | |
| Non MSME | 90 Days | | | | | | | | | |

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| 10. | <p><u>DOCUMENTS REQUIRED FOR BILL PROCESSING:</u></p> <p>The following documents are required to be sent for Bill Processing:</p> <ul style="list-style-type: none"> • Original Tax Invoice (As per Cl. No. 4 above) • Original LR • Original Packing List • E-waybill • Guarantee/Warranty certificate • Copy of MDCC issued by BHEL • Receipted Copy of LR / Proof of delivery (POD) / Material Receipt Certificate (MRC) from BHEL site • GST Compliance declaration • GeM Invoice • Consignee Receipt Cum Acceptance Certificate (CRAC) • E-invoice, if the turnover exceeded Rs. 5 cr. in any financial year from 2017-18, else, a declaration for the same is required for processing of bill. • Digitally Signed Invoice along with supporting documents to be uploaded at B2B Portal of BHEL Haridwar • Rest documents as mentioned in the PO remarks. | |
| 11. | <p><u>BANK DETAILS FOR EMD & PERFORMANCE SECURITY SUBMISSION:</u></p> <p>For Electronic Fund Transfer the details are as below:</p> <p>a) Name of the Beneficiary: Bharat Heavy Electricals Limited</p> <p>b) Bank Particulars: Name of the Company - BHARAT HEAVY ELECTRICALS LTD. Address of the company – HEEP, BHEL, SECTOR-5A, RANIPUR, HARIDWAR - 249403 Name of the bank - STATE BANK OF INDIA Bank branch - RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5A, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA, PIN CODE: 249403 SWIFT NO: SBININBB225CC ACCOUNT NO: 10667995458 IFSC CODE: SBIN0000586</p> | |
| 12. | <p><u>EMD: Applicable</u></p> <p>12.1 The offer must be accompanied by the prescribed amount of Earnest Money Deposit (EMD) in the manner described herein.</p> <p>i. EMD shall be furnished before tender opening / along with the offer in full as per the amount indicated in the NIT.</p> | |

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| | <p>ii. The EMD up to an amount of Rs. 40,00,000/- (Rs. Forty Lakhs only) is to be paid only in the following forms:</p> <ul style="list-style-type: none"> a) Electronic Fund Transfer credited in BHEL account (before tender opening). b) Banker's cheque/ Pay order/ Demand draft, in favour of 'Bharat Heavy Electricals Limited' and payable at Regional HQ issuing the tender (along with offer). c) Fixed Deposit Receipt (FDR) issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL marking lien in favour of BHEL) (along with offer). The Fixed Deposit in such cases shall be valid for a period of 45 (forty-five) days beyond the final bid validity period. d) Bank Guarantee from any of the Scheduled Banks. In such cases shall be valid for a period of 45 (forty-five) days beyond the final bid validity period. e) Insurance Surety Bonds. <p>iii. No other form of EMD remittance shall be acceptable to BHEL.</p> <p>12.2 EMD by the Bidder will be forfeited as per NIT conditions, if:</p> <ul style="list-style-type: none"> i. The bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender. ii. EMD by the Bidder shall be withheld in case any action on the tenderer is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and shall be forfeited in case of suspension <p>12.3 Subject to Clause 12.2 above, EMD of the unsuccessful bidders shall be returned at the earliest after expiry of the final bid validity period and latest by the 30th day after the award of the contract. However, in case of two packet or two stage bidding, EMD of unsuccessful bidders during first stage i.e., technical evaluation etc. shall be returned within 30 days of declaration of result of first stage i.e. technical evaluation etc.</p> <p>12.4 EMD of successful Bidder shall be refunded on conclusion of the order/ receipt of a performance security as mentioned in NIT.</p> <p>12.5 EMD shall not carry any interest.</p> <p>Micro and Small Enterprises (MSEs) or Startups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT) shall be exempted from payment of EMD. <u>In addition, offers direct from the manufacturer or their authorized agents are also exempted from submission of EMD.</u></p> | |

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| 13. | <p><u>PERFORMANCE SECURITY: Applicable</u></p> <p>13.1 Successful bidder awarded the contract should deposit 5% of the contract Value (Excluding Taxes) as performance security towards fulfilment of all contractual obligations, including warranty obligations.</p> <p>13.2 Performance Security is to be furnished within 14 days after issuance of Contract/PO and should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the Supplier/Vendor, including warranty obligations.</p> <p>13.3 Modes of deposit:</p> <p>a) Performance security may be furnished in the following forms:</p> <ol style="list-style-type: none"> i. Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of 'Bharat Heavy Electricals Limited' and payable at Regional HQ ii. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee should be in the prescribed format of BHEL. iii. Fixed Deposit Receipt (FDR) issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL). iv. Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL). v. Insurance Surety Bond. <p>Note:</p> <p>a) BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.</p> <p>b) In case of GTE tenders, the performance security should be in the same currency as the contract and must conform to Uniform Rules for Demand Guarantees (URDG 758) - an international convention regulating international securities.</p> <p>13.4 The performance security will be forfeited and credited to BHEL's account in the event of a breach of contract by the Supplier/Vendor as provided herein or elsewhere in the Contract/PO.</p> <p>13.5 Performance Security shall be refunded to the Supplier/Vendor without interest, after the Supplier/Vendor duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.</p> <p>13.6 The Performance Security shall not carry any interest.</p> <p>13.7 There is no exemption of Performance security deposit submission for MSE Vendors.</p> | |

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| 14. | <p><u>BREACH OF CONTRACT, REMEDIES AND TERMINATION:</u></p> <p>14.1 The following shall amount to breach of contract:</p> <ul style="list-style-type: none"> I. Non-supply of material/ non-completion of work by the Supplier/Vendor within scheduled delivery/ completion period as per contract or as extended from time to time. II. The Supplier/Vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period. III. The Supplier/Vendor delivers equipment/ material not of the contracted quality. IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause. V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract. VI. Assignment, transfer, subletting of Contract by the Supplier/Vendor without BHEL's written permission resulting in termination of Contract or part thereof by BHEL. VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor. VIII. Any other reason(s) attributable to Vendor towards failure of performance of contract. <p>In case of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor.</p> <p>Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise.</p> <p>X. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner.</p> <p>Note-Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of contract within a period of 14 days.</p> | |

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| | <p>In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract.</p> <p>14.2 Remedies in case of Breach of Contract.</p> <ul style="list-style-type: none"> i) Wherein the period as stipulated in the notice issued under clause 14.1 has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor. ii) Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc. available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other legal remedies shall be pursued. iii) Wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners: iv) In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor. v) If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount: <ul style="list-style-type: none"> a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract. b) If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits | |

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| | <p>or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.</p> <p>vi) In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.</p> <p>vii) It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages.</p> <p>viii) In addition to the above, imposition of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.</p> <p>Note:</p> <p>1) The defaulting Supplier/Vendor shall not be eligible for participation in any of the future enquiries floated by BHEL to complete the balance work. The defaulting contractor shall mean and include:</p> <p>(a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor.</p> <p>(b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners; or sole proprietorship firm owned by any partner(s) as a sole proprietor.</p> <p><u>LD against delay in executed supply in case of Termination of Contract:</u></p> <p>LD against delay in executed supply shall be calculated in line with LD clause no. 18.0 below, for the delay attributable to Supplier/Vendor. For limiting the maximum value of LD, contract value shall be taken as Executed Value of supply till termination of contract.</p> <p>Method for calculation of “LD against delay in executed supply in case of termination of contract” is given below.</p> <p>i. Let the time period from scheduled date of start of supply till termination of contract excluding the period of Hold (if any) not attributable to contractor = T1</p> <p>ii. Let the value of executed supply till the time of termination of contract= X</p> <p>iii. Let the Total Executable Value of supply for which inputs/fronts were made available to Supplier/Vendor and were planned for execution till termination of contract = Y</p> <p>iv. Delay in executed supply attributable to Supplier/Vendor i.e. $T2 = [1 - (X/Y)] \times T1$</p> | |

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| | <p>v. LD shall be calculated in line with LD clause (clause 18.0) of the Contract for the delay attributable to Supplier/Vendor taking “X” as Contract Value and “T2” as period of delay attributable to Supplier/Vendor.</p> | | | | | | | | | | | | | | | | | | | |
| 15. | <p><u>BILL TO/ SHIP TO ADDRESS:</u></p> <p>Bill To: For all projects, Bill To address will be as below: Bharat Heavy Electrical Ltd, Heavy Electricals Equipment Plant, Ranipur, Haridwar – 249403 GST No. 05AAACB4146P1ZL</p> <p>Ship To: Ship To address shall be as under:</p> <table border="1"> <tr> <th>Project Name</th><th>2X800 MW Raigarh (PH-II)</th><th>2X800 MW Raipur (PH-II)</th></tr> <tr> <td>Consignee Address</td><td>Adani Power Limited, Village: Chhote Bhandar, PO: Bade Bhandar, Tehsil: Pussore, Raigarh 496100, Chhattisgarh GSTIN: 22AABCA2957L1ZQ</td><td>Adani Power Limited Village: Raikheda Block: Tilda, Raipur 493225 Chhattisgarh GSTIN: 22AABCA2957L1ZQ</td></tr> </table> <table border="1"> <tr> <th>Project Name</th><th>2X800 MW Mirzapur PH-I</th><th>2X800 MW KAWAI PH-II</th></tr> <tr> <td>Consignee Address</td><td>Mirzapur Thermal Energy (UP) Private Limited, Village: Dadri Khurd; PO: Darhi Ram Tehsil: Sadar, District: Mirzapur 231 304 Uttar Pradesh GSTIN: 09AABCW0419K1Z9</td><td>Adani Power limited, Kawai, 2 x 800 MW(Phase-II) Thermal Power project, Village - Kawai, Tehsil - Atru, Baran -District, Rajasthan Pin-325219 GSTIN: 08AABCA2957L1ZG</td></tr> </table> <table border="1"> <tr> <th>Project Name</th><th>2X800 MW KORBA PH-III</th><th>2X800 MW Mahan TPP (PH-III)</th></tr> <tr> <td>Consignee Address</td><td>KORBA POWER LIMITED, 2x800 MW Phase-III, Ultra-Supercritical Thermal Power Project, Village: Pathadi, District: Korba, State: Chhattisgarh, Pin Code – 495674 GSTIN: 22AACCK0633Q2ZJ</td><td>Mahan Energy Limited, 2x800 MW (Phase-III) Mahan Ultra Supercritical Thermal Power Project, Village: Bandhoura, Karsualal, Tehsil: Waidhan, District- Singrauli, Pin - 486886, Madhya Pradesh GSTIN: 23AABCE6086C2ZY</td></tr> </table> | Project Name | 2X800 MW Raigarh (PH-II) | 2X800 MW Raipur (PH-II) | Consignee Address | Adani Power Limited, Village: Chhote Bhandar, PO: Bade Bhandar, Tehsil: Pussore, Raigarh 496100, Chhattisgarh GSTIN: 22AABCA2957L1ZQ | Adani Power Limited Village: Raikheda Block: Tilda, Raipur 493225 Chhattisgarh GSTIN: 22AABCA2957L1ZQ | Project Name | 2X800 MW Mirzapur PH-I | 2X800 MW KAWAI PH-II | Consignee Address | Mirzapur Thermal Energy (UP) Private Limited, Village: Dadri Khurd; PO: Darhi Ram Tehsil: Sadar, District: Mirzapur 231 304 Uttar Pradesh GSTIN: 09AABCW0419K1Z9 | Adani Power limited, Kawai, 2 x 800 MW(Phase-II) Thermal Power project, Village - Kawai, Tehsil - Atru, Baran -District, Rajasthan Pin-325219 GSTIN: 08AABCA2957L1ZG | Project Name | 2X800 MW KORBA PH-III | 2X800 MW Mahan TPP (PH-III) | Consignee Address | KORBA POWER LIMITED, 2x800 MW Phase-III, Ultra-Supercritical Thermal Power Project, Village: Pathadi, District: Korba, State: Chhattisgarh, Pin Code – 495674 GSTIN: 22AACCK0633Q2ZJ | Mahan Energy Limited, 2x800 MW (Phase-III) Mahan Ultra Supercritical Thermal Power Project, Village: Bandhoura, Karsualal, Tehsil: Waidhan, District- Singrauli, Pin - 486886, Madhya Pradesh GSTIN: 23AABCE6086C2ZY | |
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| 16. | <p><u>GUARANTEE/WARRANTY:</u></p> <p>Guarantee shall be 36 months from the date of dispatch or 18 months from the date of commissioning whichever is earlier. Guarantee certificate is to be provided along with shipping documents. Please confirm.</p> | | | | | | | | | | | | | | | | | | | |

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| | <p>In case of any failure or trouble reported from site, the supplier should depute their representative immediately to attend the problem and replace the defective component/part if required. Please confirm.</p> <p>Supplier shall be responsible for free replacement of defective equipment / material at our site without any additional cost to BHEL.</p> | | | | | | | | | | | | | |
| 17. | <p><u>MICRO AND SMALL ENTERPRISES (MSE):</u> Any Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer.</p> <table><tr><th>Type under MSE</th><th>SC/ST owned</th><th>Women owned</th><th>Others (excluding SC/ ST & Women Owned)</th></tr><tr><td>Micro</td><td></td><td></td><td></td></tr><tr><td>Small</td><td></td><td></td><td></td></tr></table> <p><u>Note:</u> If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category.</p> <p>a) MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) only if they submit along with the offer, attested copies of either Udyam Registration. Date to be reckoned for determining the deemed validity will be the last date of Technical Bid submission. Non-submission of supporting document in GeM portal will lead to consideration of their bids at par with other bidders. No benefits shall be applicable for this enquiry if the above required documents are not uploaded at the time of bid submission. Documents submitted by the bidder shall be verified by BHEL for rendering the applicable benefits.</p> | Type under MSE | SC/ST owned | Women owned | Others (excluding SC/ ST & Women Owned) | Micro | | | | Small | | | | |
| Type under MSE | SC/ST owned | Women owned | Others (excluding SC/ ST & Women Owned) | | | | | | | | | | | |
| Micro | | | | | | | | | | | | | | |
| Small | | | | | | | | | | | | | | |
| 18. | <p><u>LIQUIDATED DAMAGE:</u></p> <p>Liquidated Damages, wherever referred under this Tender/Agreement, shall mean and refer to the damages, not in the nature of penalty, which the contractor agrees to pay in the event of delay in delivery of supplies, breach of contract etc. as the case may be.</p> <p>Liquidated Damages leviable upon the Supplier/Vendor is a sum which is agreed by the parties as a reasonable and genuine pre-estimate of damages which will be suffered by BHEL on account of delay/breach on the part of the Supplier/Vendor.</p> <p>If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract/PO, the Buyer/BHEL will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10%</p> | | | | | | | | | | | | | |

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|-----|--|--|-----|-------|----|----------------------------|--|----|---------------------------------------|--|----|---------------------------------|--|--|
| | <p>of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever.</p> <p>The date of GR / LR would be treated as the date of delivery for Liquidated Damages.</p> | | | | | | | | | | | | | |
| 19. | <p><u>INTEGRITY PACT (IP): Applicable</u></p> <p>a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Supplier/Vendor are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.</p> <table border="1" data-bbox="326 726 1118 894"> <thead> <tr> <th>Sl.</th><th>IEM</th><th>Email</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Shri Otem Dai, IAS (Retd.)</td><td>iem1@bhel.in</td></tr> <tr> <td>2.</td><td>Shri Bishwamitra Pandey, IRAS (Retd.)</td><td>iem2@bhel.in</td></tr> <tr> <td>3.</td><td>Shri Mukesh Mittal, IRS (Retd.)</td><td>iem3@bhel.in</td></tr> </tbody> </table> <p>b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three-part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.</p> <p>c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.</p> <p>Note: <i>No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are as per Clause no. 28 below.</i></p> | Sl. | IEM | Email | 1. | Shri Otem Dai, IAS (Retd.) | iem1@bhel.in | 2. | Shri Bishwamitra Pandey, IRAS (Retd.) | iem2@bhel.in | 3. | Shri Mukesh Mittal, IRS (Retd.) | iem3@bhel.in | |
| Sl. | IEM | Email | | | | | | | | | | | | |
| 1. | Shri Otem Dai, IAS (Retd.) | iem1@bhel.in | | | | | | | | | | | | |
| 2. | Shri Bishwamitra Pandey, IRAS (Retd.) | iem2@bhel.in | | | | | | | | | | | | |
| 3. | Shri Mukesh Mittal, IRS (Retd.) | iem3@bhel.in | | | | | | | | | | | | |
| 20. | <p><u>PREFERENCE TO MAKE IN INDIA:</u></p> <p>For this procurement, the local content to categorize a Supplier/Vendor as a Class I local supplier/ Class II local Supplier/Non-Local Supplier and purchase preferences to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Order 2017 dated 04.06.2020 issued by DPIIT. In case of subsequent orders issued by the nodal ministry, changing the definition of local content for the items of the GeM Bid, the same shall be applicable even if issued after issue of this GeM Bid, but before opening of Part-II bids against this GeM Bid.</p> <p><u>20.1 Compliance to Restrictions under Rule 144 (xi) of GFR 2017:</u></p> <p>I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. The</p> | | | | | | | | | | | | | |

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| | <p>Competent Authority for the purpose of this Clause shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT).</p> <p>II. “Bidder” (including the term ‘tenderer’, ‘consultant’ or ‘service provider’ in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.</p> <p>III. “Bidder from a country which shares a land border with India” for the purpose of this Clause means: -</p> <ol style="list-style-type: none"> An entity incorporated established or registered in such a country; or A subsidiary of an entity incorporated established or registered in such a country; or An entity substantially controlled through entities incorporated, established or registered in such a country; or An entity whose beneficial owner is situated in such a country; or An Indian (or other) agent of such an entity; or A natural person who is a citizen of such a country; or A consortium or joint venture where any member of the consortium or joint venture falls under any of the above. <p>IV. The beneficial owner for the purpose of (III) above will be as under:</p> <ol style="list-style-type: none"> In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together or through one or more juridical person, has a controlling ownership interest or who exercises control through other means. Explanation <ol style="list-style-type: none"> “Controlling ownership interest” means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company. “Control” shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership. | |

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| | <p>3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person has ownership of or entitlement to more than fifteen percent of the property or capital or profits of the such association or body of individuals.</p> <p>4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;</p> <p>5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.</p> <p>V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person. Note:</p> <p>(i) The bidder shall provide undertaking for their compliance to this Clause, in the format provided in Annexure-13.</p> <p>(ii) Registration of the bidder with Competent Authority should be valid at the time of submission of bids and at the time of acceptance of the bids.</p> | |
| 21. | <p><u>Settlement of Dispute</u></p> <p>If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to Designated Engineer for amicable resolution by the parties. Designated Engineer (to be nominated by BHEL for settlement of disputes arising out of the contract) who within 60 days after being requested shall give written notice of his decision to the contractor. Save as hereinafter provided, such decision in respect of every matter so referred shall forthwith be given effect to by the Supplier/Vendor who shall proceed with the work with all due diligence, whether he or BHEL desires to resolve the dispute as hereinafter provided or not.</p> <p>If after the Designated Engineer has given written notice of this decision to the party and no intention to pursue the dispute has been communicated to him by the affected party within 30 days from the receipt of such notice, the said decision shall become final and binding on the parties. In the event the Supplier/Vendor being dissatisfied with any such decision or if amicable settlement cannot be reached then all such disputed issues shall be resolved through conciliation in terms of the BHEL Conciliation Scheme 2018 as per Clause 21.1</p> <p>21.1 Conciliation:</p> <p>Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and</p> | |

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| | <p>so notified in writing by either Party to the other Party (the “Dispute”) shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. The proceedings of Conciliation shall broadly be governed by Part III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and provided in - “Procedure for conduct of conciliation proceedings” (as available in www.bhel.com)).</p> <p>Note: Ministry of Finance has issued OM reference No. 1/2/24 dated 03.06.2024 regarding “Guidelines for Arbitration and Mediation in Contracts of Domestic Public Procurement. In the said OM it has been recommended that Government departments/Entities/agencies are to encourage mediation under the Mediation Act. 2023. The said Act has not yet been notified by the Government. Therefore, the clause “Settlement of Disputes” shall be modified accordingly as and when the Mediation Act 2023 gets notified.</p> <p>21.2 ARBITRATION:</p> <p>21.2.1 Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided in Clause 21.1 herein above or otherwise) in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or. in any manner touching upon the Contract (hereinafter referred to as the ‘Dispute’), then, either Party may, refer the disputes to Delhi International Arbitration Centre (DIAC) and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution.</p> <p>21.2.2 A party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the ‘Notice’) before referring the matter to arbitral institution. The Notice shall be addressed to the Head of the Region, Power Sector/ Unit, BHEL, executing the Contract and shall contain the particulars of all claims to be referred to arbitration with sufficient detail and shall also indicate the monetary amount of such claim including interest, if any.</p> <p>21.2.3 After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to Delhi International Arbitration Centre (DIAC) and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Judge having considerable experience in commercial matters to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.</p> | |

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| | <p>21.2.4 The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.</p> <p>21.2.5 The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be Haridwar.</p> <p>21.2.6 Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Haridwar.</p> <p>21.2.7 Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.</p> <p>21.2.8 It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.</p> <p>21.2.9 In case the disputed amount (Claim, Counter claim including interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.</p> <p>21.2.10 In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in account while arriving at the total claim in dispute for the subject contract for the purpose of clause 21.2.9. Disputes having cumulative value of less than 10 crores shall be resolved through arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.</p> <p>21.3 In case of Contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:</p> <p>In the event of any dispute or difference relating to the interpretation and application of the provisions of commercial contract(s) between Central Public Sector Enterprises (CPSEs)/ Port Trusts inter se and also between CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute or difference shall be taken up by either party for resolution through AMRCD (Administrative Mechanism for</p> | |

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| | Resolution of CPSEs Disputes) as mentioned in DPE OM No. 05/0003/2019-FTS-10937 dated 14-12-2022 as amended from time to time. | |
| 22. | <p>JURISDICTION</p> <p>Subject to clause 21 of this contract, the Civil Court having original Civil Jurisdiction Haridwar, Uttarakhand shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract.</p> <p>GOVERNING LAWS</p> <p>The contract shall be governed by the Law for the time being in force in the Republic of India.</p> | |
| 23. | <p><u>Force Majeure</u></p> <p>23.1 "Force Majeure" shall mean circumstance which is:</p> <ul style="list-style-type: none"> a) beyond control of either of the parties to contract, b) either of the parties could not reasonably have provided against the event before entering into the contract, c) having arisen, either of the parties could not reasonably have avoided or overcome, and d) is not substantially attributable to either of the parties And <p>Prevents the performance of the contract,</p> <p>Such circumstances include but shall not be limited to:</p> <ul style="list-style-type: none"> i. War, hostilities, invasion, act of foreign enemies. ii. Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war. iii. Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors. iv. Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors. v. Encountering munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the contractor's use of such munitions, explosives, radiation or radio- activity. vi. Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc. vii. Epidemic, pandemic etc. <p>23.2 The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, go-slow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship.</p> <p>23.3 If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify</p> | |

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| | <p>the other in writing of the occurrence of such event and the circumstances thereof within 15 (fifteen) days after the occurrence of such event.</p> <p>23.4 The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended by a period of time equal to period of delay caused due to such Force Majeure event.</p> <p>23.5 Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not</p> <ul style="list-style-type: none"> v) Constitute a default or breach of the Contract. vi) Give rise to any claim for damages or additional cost expense occasioned thereby, if and to the extent that such delay or non-performance is caused by the occurrence of an event of Force Majeure. <p>23.6 BHEL at its discretion may consider short closure of contract after 1 year of imposition of Force Majeure in line with extant guidelines. In any case, Supplier/Vendor cannot consider deemed short-closure after 1 year of imposition of Force Majeure.</p> | |
| 24. | <p>Non-Disclosure Agreement / Framework Confidentiality Agreement cum Undertaking:</p> <p>The total technical documents of Oil Module are in bulk in size as well as these documents are sensitive documents. Hence, these documents will be furnished to suppliers only against exchange of signed FCA (Framework Confidentiality Agreement) with BHEL.</p> <p>Suppliers may either submit signed FCA through email (diwakarv@bhel.in, ruchin@bhel.in) or direct to BHEL. Format of FCA along with the Overview of Oil Module (Doc. No.: 4-11939-S5811 Rev 01 dt. 05/03/2025) is enclosed with tender documents. The delay in submission of offer due to not submitting FCA will be to supplier account. BHEL will not responsible for the same. Kindly confirm.</p> | |
| 25. | <p>Cartel Formation</p> <p>The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.</p> | |

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| 26. | Fraud Prevention Policy Bidder along with its associate /collaborators /sub-contractors /sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website http://www.bhel.com and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice. | | | |
| 27. | <u>Suspension of Business Dealings with Suppliers / Contractors:</u> The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms / principal / agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com . If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in any act, including but not limited to, malpractices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or tampers the tendering process or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860(Bhartiya Nyaya Samhita 2023) or any other law in force in India, or does anything which is actionable under the Guidelines for Suspension of Business dealings, action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions. Guidelines for suspension of business dealings is available in the webpage: http://www.bhel.com/vender_registration/vender.php . | | | |
| 28. | <div><div>Bid should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else bid shall be liable for rejection. In the event of any Technical or Commercial queries, the same may please be addressed to the following BHEL concerned before Part I opening-</div><table><tr><td>Mr. Diwakar Vikram Singh Designation: Engineer (PPX-BOI) 4th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: diwakarv@bhel.in Tel: +91 1334 28 4175</td><td>Mr. Ruchin Gupta Designation: Manager (PPX-BOI) 4th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: ruchin@bhel.in</td></tr></table></div> | Mr. Diwakar Vikram Singh Designation: Engineer (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: diwakarv@bhel.in Tel: +91 1334 28 4175 | Mr. Ruchin Gupta Designation: Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: ruchin@bhel.in | |
| Mr. Diwakar Vikram Singh Designation: Engineer (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: diwakarv@bhel.in Tel: +91 1334 28 4175 | Mr. Ruchin Gupta Designation: Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: ruchin@bhel.in | | | |
| 29. | Order of Precedence: In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below: a. Amendments/Clarifications/Corrigenda/Errata etc. issued in respect of the tender documents by BHEL. b. Buyer Added Bid Specific ATC c. GeM Bid Technical Conditions of Contract (TCC) d. GeM GTC | | | |

| Sl. | Terms Description | Supplier Acceptance/ Comments |
|-----|---|-------------------------------|
| 30. | <p><u>Action against Bidder/vendor/supplier/contractor in case of default:</u></p> <p>In order to protect the commercial interests of BHEL, BHEL shall take action against supplies / contractors by way of suspension of business dealings, who either fail to perform or are in default without any reasonable cause, cause loss of business/ money/ reputation, indulge in malpractices, cheating, bribery, fraud or any other misconduct or formation of cartels so as to influence the bidding process or influence the price etc.</p> <p>Suspension of Business Dealings could be in the form of “Hold” or “Banning” a supplier/ contractor or a bidder and shall be as per “Guidelines for Suspension of Business Dealings with Suppliers/ Contractors” available at BHEL’s website https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors.</p> | |
| 31. | <p><u>Conflict of interest</u></p> <p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <ul style="list-style-type: none"> a) they have controlling partner(s) in common; or b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or c) they have the same legal representative/agent for purposes of this bid; or d) they have relationship with each other, directly or through common third parties, <u>that puts them in a position to have access to information about or influence on the bid of another Bidder, or</u> e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. <u>However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from one bidding manufacturer in more than one bid; or</u> f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following: <ul style="list-style-type: none"> 1. The principal manufacturer directly or through one Indian agent on his behalf; and 2. Indian/foreign agent on behalf of only one principal, or g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/similar line of business. | |

| Sl. | Terms Description | Supplier Acceptance/ Comments |
|-----|---|-------------------------------|
| 32. | <p><u>Special Condition:</u></p> <ul style="list-style-type: none"> a) Material for Unit-1, Unit-2, Commissioning Spares and Mandatory Spares needs to be packed in separate boxes and same is required to be marked on the Box & Packing List. b) MSDC (Material Safety Data Sheet) is to be sent along with Dispatch Documents, if applicable. c) 8 Digits HSN Code of all Items to be submitted by the successful bidder before placement of order. | |
| 33. | <p><u>Bidder Contact details:</u></p> <p>Please provide Contact details of your representative for techno-commercial clarifications: Mobile no. & Email id (minimum 2 person).</p> | <p>1.</p> <p>2.</p> |
| 34. | <p><u>Engineering Document approval:</u></p> <p>In case of order, you are required to submit Purchase order specific technical documents (i.e. drawings / data sheets / PIDs / Detailed Quality plan as called in specifications) within 30 days of placement of purchase order, to BHEL, for BHEL approval.</p> <p>BHEL will provide approval of the same within 30 days of receipt of documents, if complete and correct as per agreements before placement of purchase order. In case of delay on account of BHEL delivery shall be re-scheduled accordingly. Delay due to late submission shall be to supplier's account. Whereas delay in approval of documents shall be BHEL's account.</p> <p>Item should be manufactured as per specifications & approved documents from BHEL / end customer. Please confirm.</p> | |
| 35. | <p><u>Painting Requirement:</u></p> <p>Please note that as per B.4.II.Clause 3.1.7 of Oil Module Addendum Document No. 4-11939-J3600 Rev. 05, Final coating shall be included in scope of bidder. It shall as per Document No. 10880-ENGG-N001 Rev02.</p> <p>Oil Module supplier shall provide 5% of total touchup paint along with Oil Module. This shall be sent to site. Paint shade/color shall be informed after PO placement. Oil Module supplier shall ask paint shade/color after PO before applying. Please confirm</p> | |
| 36. | <p><u>Functional Test of Oil Module:</u></p> <p>Please note that as per B.4.II.Clause 3.1.11 of Oil Module Addendum Document No. 4-11939-J3600 Rev. 05, Functional Test is in scope of bidder. Since Oil Purifier, Turbine Oil Cooler and Double 3-Way valve are not in Oil Module supplier's scope, Functional Test shall be as per Document No. 4-11939-U5800 Rev02 supplied along with enquiry. BHEL / BHEL's Customer reserves the right to witness the functional test at vendor's works. Functional test shall be conducted for each Oil Module Unit. <u>Please confirm that your quoted prices of Oil Module Unit are inclusive of Functional Test Charges.</u></p> | |

| Sl. | Terms Description | Supplier Acceptance/ Comments |
|-----|---|-------------------------------|
| 37. | <p>Supervision of erection & commissioning:</p> <p>Please note that your competent representative is required for Supervision of commissioning of the equipment at our project sites.</p> <p>Please confirm to quote your charges for Supervision of Commissioning as follows:</p> <ul style="list-style-type: none"> Supervision Charges per day including local conveyance, boarding & lodging charges (lumpsum charges per day including GST) To & from travelling charges per visit (lumpsum charges per visit including GST) <p>Please note that for evaluation purpose charges for 7 working days at site in 2 visits shall be considered for each oil Module Unit. However, in case of PO, payment will be made on actual no of days & visits certified by BHEL's site / project authority.</p> <p>Please provide your PAN No. and furnish the copy of your PAN card (Registration with income tax Department of India).</p> <p>Please confirm to depute your representative for supervision of commissioning at our site, within 2 weeks from the date of intimation.</p> <p>Supplier has to provide check list of the activities to be completed before commissioning of oil module at site, immediately after dispatch of the material. BHEL will call for supervision with the confirmation of completion of all activities at site. Please confirm.</p> | |
| 38. | <p><u>Interchangeability of Spares:</u></p> <p>All spares items of this enquiry (Mandatory / Commissioning Spares) for a project should be interchangeable with the Main Oil Module of respective project. Please confirm.</p> | |
| 39. | <p>O&M Manuals:</p> <p>Please confirm to submit O&M manuals as per clause Nos. B.XI and D.3.II of Document No 4-11939-J3600 Rev.05. The Qty. of O&M Manuals to submitted as under:</p> <ul style="list-style-type: none"> Two Nos. Hard Copies and One No. CD along with the package. Fifteen Nos. Hard Copies and Two Nos. CDs to BHEL, Haridwar <p>Note: O&M Manuals shall consist of all assembly, operation and maintenance instructions; catalogues; P&IDs; GA drgs.; datasheets; cross-sectional drgs.; weights; erection guidelines etc. This shall also contain a list of all items installed in the Oil Module along with their KKS codes, full model numbers, quantities etc. One no. O&M Manual in hard copy and one no. in soft copy shall be submitted to BHEL for approval of BHEL/its customer. Final submission to BHEL shall be made by Oil Module supplier after BHEL approval.</p> | |
| 40. | <p>Recommended Spare Parts List:</p> <p>Please submit Recommended Spare Parts List for three years of operation along with drawings of all the equipment's / assemblies along with the cost.</p> | |

| Sl. | Terms Description | Supplier Acceptance/ Comments |
|-----|---|----------------------------------|
| 41. | Special Tools & Tackles: Please confirm to provide one set of special tools & tackles required for erection and commissioning & for subsequent normal operation. | |
| 42. | Photographs of name plate / rating plate: Before dispatch of Oil Module from supplier's works, Oil Module supplier shall furnish photographs of name plate / rating plate against all main items as well as mandatory spares as per Purchase Order. This encompasses all mechanical and electrical items. These photographs shall be compiled in one document along with Name and KKS of item and submitted to BHEL. Please confirm. | |
| 43. | NOTE: <ol style="list-style-type: none"> 1. In the event of our customer order covering this tender being cancelled /placed on hold /otherwise modified, BHEL would be constrained to accordingly cancel / hold / modify the tender at any stage of execution. 2. BHEL may negotiate the L1 rate, if not meeting our budget / estimated cost. BHEL may re-float the tender opened, if L1 price is not acceptable to BHEL even after negotiation. Any deviation from the conditions specified in Techno-Commercial Terms and Conditions - Buyer Added Bid Specific Additional Terms & Conditions (ATC) and Technical specifications and requirements will lead to rejection of offer. 3. Any change in applicable rates of Tax or any other statutory levies (Direct / Indirect) or any new introduction of any levy by means of statute and its corresponding liability for the deliveries beyond the agreed delivery date for reasons not attributable to BHEL will be to vendors account. BHEL will not reimburse the same and any subsequent claim in this respect will be summarily rejected. 4. BHEL reserves its right to reject an offer due to unsatisfactory past performance by the respective Vendor in the execution of any contract to any BHEL project / Unit. 5. The offers of the bidders who are under suspension and also the offers of the bidders, who engage the services of the banned firms /principal/agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com. 6. Recovery / deduction as applicable as per Direct and Indirect taxes as notified by Govt. Of India from time to time will be made and information/certificate for such deduction/recoveries shall be provided by BHEL to the vendor. | |
| 44. | Enclosure: Annexure-1: Check List. Annexure-2: Offer forwarding letter / tender submission letter Annexure-3: No Deviation Certificate Annexure-4: Declaration regarding Insolvency/ Liquidation/ Bankruptcy Proceedings Annexure-5: Declaration by Authorized Signatory Annexure-6: Declaration by Authorized Signatory regarding Authenticity of submitted Documents | |

| Sl. | Terms Description | Supplier Acceptance/ Comments |
|-----|--|----------------------------------|
| | <p>Annexure-7: Non-Disclosure Certificate / Framework Confidentiality Agreement cum Undertaking</p> <p>Annexure-8: Integrity Pact</p> <p>Annexure-9: Declaration confirming knowledge about Site Conditions</p> <p>Annexure-10: Declaration reg. Related Firms & their areas of Activities</p> <p>Annexure-11: Declaration for relation in BHEL</p> <p>Annexure- 12: Declaration reg. minimum local content in line with revised public procurement</p> <p>Annexure- 13: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017</p> <p>Annexure-14: Bank Account Details for E-Payment</p> <p>Annexure-15: Power of Attorney for submission of tender.</p> <p>Annexure-16: Proforma of Bank Guarantee for Earnest Money.</p> <p>Annexure-17: Proforma of Bank Guarantee for Performance Security.</p> <p>Annexure-18: List of Consortium Bank.</p> | |

Annexure for Scope of Supply and Delivery Schedule in GeM Tender

| ITEM-NO | MATERIAL CODE & ITEM DESCRIPTION | Total Qty. | PROJECT | Qty. | Delivery Requirement | Dely. Start After (No. of Days) | Dely. Completion By (No. of Days) |
|---------|---|------------|------------------------|------|----------------------|---------------------------------|-----------------------------------|
| 1 | W90311941141 OIL MODULE UNIT AS PER DOCUMENT NO. 4-11939-J3500 SIZE: L2 | 12 NO | RAIPUR (PH-II) U-1 | 1 NO | 22/01/2026 | 24 Days | 144 Days |
| | | | RAIPUR (PH-II) U-2 | 1 NO | 22/05/2026 | 144 Days | 264 Days |
| | | | RAIGARH (PH-II) U-1 | 1 NO | 30/09/2026 | 275 Days | 395 Days |
| | | | RAIGARH (PH-II) U-2 | 1 NO | 30/03/2027 | 456 Days | 576 Days |
| | | | MIRZAPUR (PH-I) U-1 | 1 NO | 31/03/2027 | 457 Days | 577 Days |
| | | | MIRZAPUR (PH-I) U-2 | 1 NO | 30/09/2027 | 640 Days | 760 Days |
| | | | MAHAN (PH-III) U-1 | 1 NO | 30/09/2027 | 641 Days | 761 Days |
| | | | KAWAI (PH-II) U-1 | 1 NO | 31/10/2027 | 671 Days | 791 Days |
| | | | KORBA (PH-III) U-1 | 1 NO | 31/12/2027 | 732 Days | 852 Days |
| | | | MAHAN (PH-III) U-2 | 1 NO | 30/03/2028 | 822 Days | 942 Days |
| | | | KAWAI (PH-II) U-2 | 1 NO | 30/04/2028 | 930 Days | 1020 Days |
| | | | Korba (PH-III) U-2 | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| 2 | W99311941638 PRESSURE RELIEF VALVE OF JACKING OIL SYSTEM (L2-MODULE) KKS TAG: MAV35AA151 SET PRESSURE: 155BAR SIZE: L2 | 12 NO | RAIPUR (PH-II) Spares | 2 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 2 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 2 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 2 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 2 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 2 NO | 30/08/2028 | 975 Days | 1095 Days |
| 3 | W99311939854 COMPLETE ASSEMBLY OF MAIN OIL PUMP WITHOUT MOTOR WITH COMPLETE COUPLING (DESIGN Q = 69.4LPS; DESIGN PR = 6+/- 0.3BAR) SIZE: L2 | 12 ST | RAIPUR (PH-II) Spares | 2 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 2 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 2 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 2 ST | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 2 ST | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 2 ST | 30/08/2028 | 975 Days | 1095 Days |
| 4 | W99311939463 COMPLETE ASSEMBLY OF EMERGENCY OIL PUMP WITH DC MOTOR FOR L2 OIL MODULE | 6 ST | RAIPUR (PH-II) Spares | 1 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 ST | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/08/2028 | 975 Days | 1095 Days |
| 5 | W99311939447 COMPLETE ASSEMBLY OF LIFTING OIL PUMP WITH AC MOTOR SIZE: T7E 050 | 6 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| 6 | W99311941646 FOLLOWING SPARES FOR 3WAY TEMPERATURE CONTROL VALVE FOR L2 MODULE: 1.VALVE TRIM (INCL CAGE,PLUG, STEM,SEAT RINGS,GUIDE BUSHINGS ETC.)- | 5 ST | RAIPUR (PH-II) Spares | 1 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/10/2028 | 1036 Days | 1156 Days |
| 7 | W99311941620 OIL THROTTLE VALVE IN LUBE OIL HEADER FOR L2-MODULE KKS TAG: MAV21AA251 SIZE: L2 | 6 NO | RAIPUR (PH-II) Spares | 1 NO | 04/09/2026 | 249 Days | 369 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| 8 | W99318137273 BEARINGS OF AC MOTOR FOR LUBE OIL CENTRIFUGAL PUMP FOR OIL MODULE-L2 | 5 ST | RAIPUR (PH-II) Spares | 1 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/05/2028 | 883 Days | 1003 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/08/2028 | 975 Days | 1095 Days |
| 9 | W99318137338 BEARINGS FOR AC MOTOR OF LIFTING OIL PUMP FOR OIL MODULE-L2 | 5 ST | RAIPUR (PH-II) Spares | 1 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/05/2028 | 883 Days | 1003 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/08/2028 | 975 Days | 1095 Days |
| 10 | W99318137532 BEARINGS FOR AC MOTOR FOR OIL MIST SEPERATOR (OIL VAPOUR EXHAUSTER) OF OIL MODULE-L2 | 5 ST | RAIPUR (PH-II) Spares | 1 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/05/2028 | 883 Days | 1003 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/08/2028 | 975 Days | 1095 Days |

Annexure for Scope of Supply and Delivery Schedule in GeM Tender

| ITEM-NO | MATERIAL CODE & ITEM DESCRIPTION | Total Qty. | PROJECT | Qty. | Delivery Requirement | Dely. Start After (No. of Days) | Dely. Completion By (No. of Days) |
|---------|---|------------|------------------------|------|----------------------|---------------------------------|-----------------------------------|
| 11 | W99318137265 AC MOTOR FOR LUBE OIL CENTRI- FUGAL PUMP OF OIL MODULE-L2 (147.2 KW, 3000 RPM) | 5 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| 12 | W99318137320 AC MOTOR FOR LIFTING OIL PUMP FOR OIL MODULE -L2 (82.8 KW, 1500RPM) | 5 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| 13 | W99318137516 AC MOTOR FOR OIL MIST SEPERATOR(OIL VAPOUR EXHAUSTER) OF OIL MODULE-L2 | 5 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| 14 | W99318137400 CARBON BRUSHES FOR DC MOTOR OF EMERGENCY OIL PUMP FOR OIL MODULE-L2 | 10 ST | RAIPUR (PH-II) Spares | 2 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 2 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 2 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 2 ST | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 2 ST | 30/10/2028 | 1036 Days | 1156 Days |
| 15 | W99318137486 CARBON BRUSHES FOR DC MOTOR FOR LIFTING OIL PUMP OF OIL MODULE | 10 ST | RAIPUR (PH-II) Spares | 2 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 2 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 2 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 2 ST | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 2 ST | 30/10/2028 | 1036 Days | 1156 Days |
| 16 | W99318137419 BRUSH ASSEMBLY FOR DC MOTOR FOR EMERGENCY OIL PUMP OF OIL MODULE-L2 | 7 ST | RAIPUR (PH-II) Spares | 2 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 2 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/10/2028 | 1036 Days | 1156 Days |
| 17 | W99318137494 BRUSH ASSEMBLY FOR DC MOTOR FOR LIFTING OIL PUMP OF OIL MODULE | 7 ST | RAIPUR (PH-II) Spares | 2 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 2 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/10/2028 | 1036 Days | 1156 Days |
| 18 | W99318137389 DC MOTOR FOR EMERGENCY OIL PUMP FOR OIL MODULE-L2 (28.2 KW) | 5 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/10/2028 | 1036 Days | 1156 Days |
| 19 | W99318137575 DC MOTOR FOR LIFTING OIL PUMP OF OIL MODULE | 5 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/10/2028 | 1036 Days | 1156 Days |
| 20 | W99318137397 BEARINGS FOR DC MOTOR OF EMERGENCY OIL PUMP OF OIL MODULE-L2 | 5 ST | RAIPUR (PH-II) Spares | 1 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/10/2028 | 1036 Days | 1156 Days |
| 21 | W99318137478 BEARINGS FOR DC MOTOR FOR LIFTING OIL PUMP OF OIL MODULE | 5 ST | RAIPUR (PH-II) Spares | 1 ST | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 ST | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 ST | 30/11/2027 | 701 Days | 821 Days |
| | | | KAWAI (PH-II) Spares | 1 ST | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 ST | 30/10/2028 | 1036 Days | 1156 Days |
| 22 | W99318137052 PRESSURE TRANSMITTER FOR OIL MODULE, RANGE 0-250 BAR | 6 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/10/2028 | 1036 Days | 1156 Days |
| | | | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |

Annexure for Scope of Supply and Delivery Schedule in GeM Tender

| ITEM-NO | MATERIAL CODE & ITEM DESCRIPTION | Total Qty. | PROJECT | Qty. | Delivery Requirement | Dely. Start After (No. of Days) | Dely. Completion By (No. of Days) |
|---------|---|------------|------------------------|------|----------------------|---------------------------------|-----------------------------------|
| 23 | W99318137060 PRESSURE TRANSMITTER FOR OIL MODULE, RANGE 0-6 BAR | 6 NO | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/10/2028 | 1036 Days | 1156 Days |
| 24 | W99318137079 PRESSURE TRANSMITTERS FOR OIL MODULE, RANGE 0-(-15)MBAR | 6 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/07/2028 | 944 Days | 1064 Days |
| 25 | W99318137087 LEVEL TRANSMITTERS FOR OIL MODULE L2, RANGE (850-1750)MM | 6 NO | Korba (PH-III) Spares | 1 NO | 30/10/2028 | 1036 Days | 1156 Days |
| | | | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| 26 | W99318137192 PRESSURE SWITCH FOR OIL MODULE, RANGE- (0.5-10)BAR | 6 NO | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| | | | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| 27 | W99318137206 DIFFERENTIAL PRESSURE SWITCH FOR OIL MODULE, (0-4.2)BAR | 6 NO | MAHAN (PH-III) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/07/2028 | 944 Days | 1064 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/10/2028 | 1036 Days | 1156 Days |
| | | | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| 28 | W99318137214 DIFFERENTIAL PRESSURE SWITCH FOR OIL MODULE, (0-1.2)BAR | 6 NO | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| | | | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| 29 | W99318137125 RTD FOR OIL MODULE, RANGE- (0-100)DEGC | 12 NO | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 2 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 2 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 2 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 2 NO | 30/08/2028 | 975 Days | 1095 Days |
| 30 | W99318137095 LEVEL INDICATORS FOR OIL MODULE L2, RANGE-(850-1750)MM | 6 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| 31 | W99318137150 PRESSURE GAUGES FOR OIL MODULE,RANGE- (0-10)BAR | 6 NO | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| | | | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| 32 | W99318137168 PRESSURE GAUGES FOR OIL MODULE, RANGE-(0-400) BAR | 6 NO | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| | | | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| 33 | W99318137176 PRESSURE GAUGES FOR OIL MODULE | 6 NO | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |

Annexure for Scope of Supply and Delivery Schedule in GeM Tender

| ITEM-NO | MATERIAL CODE & ITEM DESCRIPTION | Total Qty. | PROJECT | Qty. | Delivery Requirement | Dely. Start After (No. of Days) | Dely. Completion By (No. of Days) |
|---------|---|------------|------------------------|----------|----------------------|---------------------------------|-----------------------------------|
| 33 | GAUGES FOR OIL MODULE, RANGE-[-60-0] MBAR | 3 NO | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| 34 | W99318137184 PRESSURE GAUGES FOR OIL MODULE RANGE - [-160-0] MBAR | 6 NO | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| | | | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| 35 | W99318137141 TEMPERATURE INDICATOR FOR OIL MODULE,RANGE- (0-100)DEGC | 6 NO | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| | | | RAIPUR (PH-II) Spares | 1 NO | 22/07/2026 | 205 Days | 325 Days |
| | | | RAIGARH (PH-II) Spares | 1 NO | 30/05/2027 | 517 Days | 637 Days |
| 36 | W99318137915 PRESSURE TRANSMITTER FOR OIL MODULE, RANGE 0-10 BAR | 6 NO | MIRZAPUR (PH-I) Spares | 1 NO | 30/11/2027 | 701 Days | 821 Days |
| | | | MAHAN (PH-III) Spares | 1 NO | 30/05/2028 | 883 Days | 1003 Days |
| | | | KAWAI (PH-II) Spares | 1 NO | 30/06/2028 | 914 Days | 1034 Days |
| | | | Korba (PH-III) Spares | 1 NO | 30/08/2028 | 975 Days | 1095 Days |
| 37 | Commissioning Spares as per document No. 4-11939-OM013 Rev 01 (One set of Commissioning Spares should be items of 2 X clause A + 1 X clause B of document no. 4-11939-OM013 Rev 01) | 6 ST | RAIPUR (PH-II) U-1&2 | 1 ST | 22/01/2026 | 30 Days | 144 Days |
| | | | RAIGARH (PH-II) U-1&2 | 1 ST | 30/09/2026 | 275 Days | 395 Days |
| | | | MIRZAPUR (PH-I) U-1&2 | 1 ST | 31/03/2027 | 457 Days | 577 Days |
| | | | MAHAN (PH-III) U-1&2 | 1 ST | 30/09/2027 | 641 Days | 761 Days |
| | | | KAWAI (PH-II) U-1&2 | 1 ST | 31/10/2027 | 671 Days | 791 Days |
| | | | KORBA (PH-III) U-1&2 | 1 ST | 31/12/2027 | 732 Days | 852 Days |
| 38 | Lump sum per man day charges at site, including every expense at our site i.e. boarding & lodging, local travel etc. for Supervision of commissioning | 84 Days | RAIPUR (PH-II) U-1&2 | 14 Days | On Intimation | 90 Days | 360 Days |
| | | | RAIGARH (PH-II) U-1&2 | 14 Days | On Intimation | 350 Days | 690 Days |
| | | | MIRZAPUR (PH-I) U-1&2 | 14 Days | On Intimation | 500 Days | 880 Days |
| | | | MAHAN (PH-III) U-1&2 | 14 Days | On Intimation | 700 Days | 1050 Days |
| | | | KAWAI (PH-II) U-1&2 | 14 Days | On Intimation | 730 Days | 1090 Days |
| | | | KORBA (PH-III) U-1&2 | 14 Days | On Intimation | 790 Days | 1150 Days |
| 39 | Lump sum per visit charges (to&fro) including travelling time & all expenses up to our project site for Supervision of commissioning | 24 Visits | RAIPUR (PH-II) U-1&2 | 4 Visits | On Intimation | 90 Days | 360 Days |
| | | | RAIGARH (PH-II) U-1&2 | 4 Visits | On Intimation | 350 Days | 690 Days |
| | | | MIRZAPUR (PH-I) U-1&2 | 4 Visits | On Intimation | 500 Days | 880 Days |
| | | | MAHAN (PH-III) U-1&2 | 4 Visits | On Intimation | 700 Days | 1050 Days |
| | | | KAWAI (PH-II) U-1&2 | 4 Visits | On Intimation | 730 Days | 1090 Days |
| | | | KORBA (PH-III) U-1&2 | 4 Visits | On Intimation | 790 Days | 1150 Days |

CHECK LIST

NOTE: - Suppliers are required to fill in the following details in their Letterhead and no column should be left blank

| | | | |
|----------|--|--|--------------------------|
| A | Name and Address of the Supplier | | |
| B | GSTN No. the Supplier (Place of Execution of Contract / Purchase Order) | | |
| C | Details of Contact person for this Tender | Name: Mr./ Ms. Designation: Telephone No: Mobile No: Email ID: | |
| D | EMD DETAILS | | |
| E | DESCRIPTION | APPLICABILITY (BY BHEL) | ENCLOSE BY BIDDER |
| i. | Whether Pre - Qualification Criteria is understood and provided proper supporting documents. | Applicable/ Not Applicable | YES / NO |
| ii. | Whether all pages of the Tender documents including annexures, appendices etc. are read and understood | Applicable/ Not Applicable | YES / NO |
| iii. | Audited Balance Sheet and profit & Loss Account for the last three years | Applicable/ Not Applicable | YES / NO |
| iv. | Copy of PAN Card & GST registration | Applicable/ Not Applicable | YES / NO |
| v. | Submission of MSE certificate as specified in Tender | Applicable/ Not Applicable | YES / NO |
| vi. | Offer forwarding letter / tender submission letter as per Annexure – 2 | Applicable/ Not Applicable | YES / NO |
| vii. | Submission of Certificate of No Deviation as per Annexure – 3 | Applicable/ Not Applicable | YES / NO |
| viii. | Declaration regarding Insolvency/ Liquidation/ Bankruptcy Proceedings as per Annexure – 4 | Applicable/ Not Applicable | YES / NO |
| ix. | Declaration by Authorized Signatory as per Annexure – 5 | Applicable/ Not Applicable | YES / NO |

| | | | |
|--------|--|---------------------------------------|----------|
| x. | Declaration by Authorized Signatory regarding Authenticity of submitted Documents Annexure – 6 | Applicable/ Not Applicable | YES / NO |
| xi. | Submission of Non-Disclosure Certificate as per Annexure – 7 | Applicable/ Not Applicable | YES / NO |
| xii. | Submission of Integrity Pact as specified in Tender as per Annexure – 8 | Applicable/ Not Applicable | YES / NO |
| xiii. | Declaration confirming knowledge about Site Conditions as per Annexure – 9 | Applicable/ Not Applicable | YES / NO |
| xiv. | Declaration reg. Related Firms & their areas of Activities as per Annexure – 10 | Applicable/ Not Applicable | YES / NO |
| xv. | Declaration for relation in BHEL as per Annexure – 11 | Applicable/ Not Applicable | YES / NO |
| xvi. | Declaration reg. minimum local content in line with revised public procurement as per Annexure – 12 | Applicable/ Not Applicable | YES / NO |
| xvii. | Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017 as per Annexure – 13 | Applicable/ Not Applicable | YES / NO |
| xviii. | Bank Account Details for E-Payment as per Annexure – 14 | Applicable/ Not Applicable | YES / NO |
| xix. | Power of Attorney for submission of tender as per Annexure – 15 | Applicable/ Not Applicable | YES / NO |
| xx. | Proforma of Bank Guarantee for Earnest Money as per Annexure – 16 | Applicable/ Not Applicable | YES / NO |

NOTE: Strike off 'YES' or 'NO', as applicable. Tender not accompanied by the prescribed **above applicable documents** are liable to be summarily rejected.

DATE:

**Sign. of the AUTHORISED SIGNATORY
(With Name, Designation and Company seal)**

OFFER FORWARDING LETTER / TENDER SUBMISSION LETTER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

Offer Reference No:

Date:

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Submission of Offer against Tender Enquiry No:

Having examined the tender documents against your Tender Enquiry No.

_____ dated _____ and having understood the provisions of the said tender documents and having thoroughly studied the requirements of BHEL related to the work tendered for, in connection with _____ (name of work & project site), we hereby submit our offer for the proposed work in accordance with terms and conditions mentioned in the tender documents, at the prices quoted by us and as per the indicated delivery schedule.

Should our Offer be accepted by BHEL for Award, I/we further agree to furnish 'Performance Security' for the work as provided for in the Tender Conditions within the stipulated time as may be indicated by BHEL.

I/We further agree to execute all the works referred to in the said Tender documents upon the terms and conditions contained or referred to therein and as detailed in the appendices annexed thereto.

I/We have deposited herewith the requisite Earnest Money Deposit (EMD) as per details furnished in the Check List.

Authorized Representative of Bidder

Signature:

Name:

Address:

Place:

Date:

CERTIFICATE OF NO DEVIATION

(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

----- To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Subject: **No Deviation Certificate**

Ref: 1) Tender Enquiry No:
2) All other pertinent issues till date

We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred Tender Enquiry.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

**(Signature, date & seal of authorized
representative of the bidder)**

Date:

Place:

UNDERTAKING

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir/Madam,

Sub: DECLARATION REGARDING INSOLVENCY/ LIQUIDATION/ BANKRUPTCY PROCEEDINGS

Ref: Tender Enquiry Specification No:

I/We, _____ declare that,

I/We am/are not admitted under insolvency resolution process or liquidation under Insolvency and Bankruptcy Code, 2016, as amended from time to time or under any other law as on date, by NCLT or any adjudicating authority/authorities.

**Sign. of the AUTHORISED SIGNATORY
(With Name, Designation and Company seal)**

Place:

Date:

DECLARATION BY AUTHORISED SIGNATORY OF BIDDER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

----- To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: **Declaration by Authorised Signatory**

Ref: 1) Tender Enquiry Specification No:

2) All other pertinent issues till date

I/We, hereby certify that all the information and data furnished by me with regard to the above Tender Specification are true and complete to the best of my knowledge. I have gone through the specifications, conditions, stipulations and all other pertinent issues till date, and agree to comply with the requirements and Intent of the specification.

I further certify that I am authorised to represent on behalf of my Company/Firm for the above-mentioned tender and a valid Power of Attorney to this effect is also enclosed.

Yours faithfully,

(Signature, Date & Seal of Authorized
Signatory of the Bidder)

Date:

Enclosed: Power of Attorney

DECLARATION BY AUTHORISED SIGNATORY OF BIDDER

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub : **Declaration by Authorised Signatory regarding Authenticity of submitted documents.**

Ref : 1) Tender Enquiry No. & Date:

2) All other pertinent issues till date

I/We, hereby certify that all the documents submitted by us in support of possession of "Qualifying Requirements" are true copies of the original and are fully compliant required for qualifying / applying in the bid and shall produce the original of same as and when required by Bharat Heavy Electricals Limited.

I / We hereby further confirm that no tampering is done with documents submitted in support of our qualification as bidder. I / We understand that at any stage (during bidding process or while executing the awarded contract) if it is found that fake / false / forged bid qualifying / supporting documents / certificates were submitted, it would lead to summarily rejection of our bid / termination of contract. BHEL shall be at liberty to initiate other appropriate actions as per the terms of the Bid / Contract and other extant policies of Bharat Heavy Electricals Limited.

Yours faithfully,

**(Signature, Date & Seal of Authorized
Signatory of the Bidder)**

Date:

NON-DISCLOSURE CERTIFICATE

(To be Typed & submitted in the Letter Head of the Company/Firm of Bidder)

I/We understand that BHEL Haridwar is committed to Information Security Management System as per their Information Security Policy.

Hence,

I/We

M/s

.....
who are submitting offer for providing services to BHEL Haridwar against Tender Enquiry No..... hereby undertake to comply with the following in line with Information Security Policy of Haridwar.

- To maintain confidentiality of documents & information which shall be used during the execution of the Contract.
- The documents & information shall not be revealed to or shared with third party which shall not be in the business interest of BHEL Haridwar.

**(Signature, date & seal of Authorized
Signatory of the bidder)**

Date:

INTEGRITY PACT

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for

_____. The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -

1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.

1.1.3 The Principal will exclude from the process all known prejudiced persons.

1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and will await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/ Bid Security.

4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher.

Section 5 - Previous Transgression

5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders/ Contractors / Sub-contractors

6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain responsible for any default by his subcontractors.

6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.

8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non- disclosure agreement.

8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

- 8.5 The role of IEMs is advisory, would not be legally binding and it is restricted to resolving issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process, the matter should be examined by the full panel of IEMs jointly as far as possible, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to CMD, BHEL, at the earliest. They may also send their report directly to the CVO and the Commission, in case of suspicion of serious irregularities requiring legal/ administrative action. IEMs will tender their advice on the complaints within 10 days as far as possible.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.9 IEM should examine the process integrity; they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the organization should be looked into by the CVO of the concerned organisation.
- 8.10 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code/ Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.12 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Pact shall be operative from the date IP is signed by both the parties till the final completion of contract for successful bidder and for all other bidders 6 months after the contract has been awarded. Issues like warranty / guarantee etc. should be outside the purview of IEMs.
- 9.2 If any claim is made/ lodged during currency of IP, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.
- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

10.5 Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal

For & On behalf of the Bidder/ Contractor

(Office Seal)

(Office Seal)

Place----- Date-----

Witness:-----

Witness:-----

(Name & Address) -----

(Name & Address) -----

DECLARATION CONFIRMING KNOWLEDGE ABOUT SITE CONDITIONS

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

----- To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration confirming knowledge about Site conditions

Ref: 1) Tender Enquiry Specification No:

2) All other pertinent issues till date

I/We, _____ hereby declare and confirm that we have visited the Project Site as referred in BHEL Tender Specifications and acquired full knowledge and information about the Site conditions including Wage structure, Industrial Climate, the Law & Order and other conditions prevalent at and around the Site. We further confirm that the above information is true and correct and we shall not raise any claim of any nature due to lack of knowledge of Site conditions.

I/We, hereby offer to carry out work as detailed in above mentioned Tender Specification, in accordance with Terms & Conditions thereof.

Yours faithfully,

**(Signature, Date & Seal of Authorized
Representative of the Bidder)**

Date:

Place:

DECLARATION

Date: _____

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir/ Madam,

Sub: **Details of related firms and their area of activities**

Please find below details of firms owned by our family members that are doing business/ registered for same item with BHEL, _____ (NA, if not applicable)

| | | |
|-----|-------------------------------------|--|
| 1 | Material Category/ Work Description | |
| | Name of Firm | |
| | Address of Firm | |
| | Nature of Business | |
| | Name of Family Member | |
| | Relationship | |
| 2 | Material Category/ Work Description | |
| | Name of Firm | |
| | Address of Firm | |
| | Nature of Business | |
| | Name of Family Member | |
| | Relationship | |
| ... | | |

Note: I certify that the above information is true and I agree for penal action from BHEL in case any of the above information furnished is found to be false.

Regards,

(_____)

From: M/s _____

Supplier Code: _____

Address: _____

DECLARATION FOR RELATION IN BHEL

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder failing which the offer of Bidder is liable to be summarily rejected)

----- To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration for relation in BHEL

Ref: 1) Tender Enquiry Specification No:

I/We hereby submit the following information pertaining to relation/relatives of Proprieter/Partner(s)/ Director(s) employed in BHEL

Tick (√) any one as applicable:

1. The Proprieter, Partner(s), Director(s) of our Company/Firm DO NOT have any relation or relatives employed in BHEL

OR

2. The Proprieter, Partner(s), or Director(s) of our Company/Firm HAVE relation/relatives employed in BHEL and their particulars are as below:

i.

ii

.

**(Signature, Date & Seal of Authorized
Signatory of the Bidder)**

Note:

1. Attach separate sheet, if necessary.
2. If BHEL Management comes to know at a later date that the information furnished by the Bidder is false, BHEL reserves the right to take suitable against the Bidder/Contractor.

**DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH
REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017 DATED 19TH
JULY, 2024 AND SUBSEQUENT ORDER(S)**

(To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 19th July, 2024 and subsequent order(s).

Ref: 1) Tender Enquiry Specification No:

2) All other pertinent issues till date

We hereby certify that the items/works/services offered by..... *(specify the name of the organization here)* has a local content of _____ % and this meets the local content requirement for '**Class-I local supplier**' / '**Class II local supplier**' ** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).

The details of the location(s) at which the local value addition is made are as follows:

1. _____ 2. _____

3. _____ 4. _____

...

Thanking you,

Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

**** - Strike out whichever is not applicable.**

Note:

1. Bidders to note that above format, duly filled & signed by authorized signatory, shall be submitted along with the techno-commercial offer.

2. In case the bidder's quoted value is in excess of Rs. 10 crores, the authorized signatory for this declaration shall necessarily be the statutory auditor or cost auditor of the company (in the case of companies) or a practising cost accountant or practicing chartered accountant (in respect of suppliers other than companies).
3. In the event of false declaration, actions as per the above order and as per BHEL Guidelines shall be initiated against the bidder.

DECLARATION REGARDING COMPLIANCE TO RESTRICTIONS UNDER RULE 144 (xi) OF GFR 2017

(To be typed and submitted in the Letter Head of the Entity/ Firm providing certificate as applicable)

To,

(Write Name & Address of Officer of BHEL inviting the Tender)

Dear Sir,

Sub: Declaration regarding compliance to Restrictions under Rule 144 (xi) of GFR 2017

Ref: 1) Tender Enquiry Specification No:

2) All other pertinent issues till date

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I certify that _____ (**SPECIFY THE NAME OF THE ORGANIZATION HERE**), is not from such a country/ has been registered with the Competent Authority (*attach valid registration by the Competent Authority, i.e., the Registration Committee constituted by the Dept. for Promotion of Industry and Internal Trade (DPIIT).*

I hereby certify that we fulfil all requirements in this regard and is eligible to be considered.

Thanking you,

Yours faithfully,

**(Signature, Date & Seal of
Authorized Signatory of the Bidder)**

Note: Bidders to note that in case above certification given by a bidder, whose bid is accepted, is found to be false, then this would be a ground for immediate termination and for taking further action in accordance with law and as per BHEL guidelines.

BANK ACCOUNT DETAILS FOR E-PAYMENT

(To be given on Letter head of the Company /Firm of Bidder, and **ENDORSED (SIGNED & STAMPED)**
BY THE BANK to enable BHEL release payments through Electronic Fund Transfer (EFT/RTGS)

1. Beneficiary Name :

2. Beneficiary Account No. :

3. Bank Name & Branch :

4. City/Place :

5. 9 digit M ICR Code of Bank Branch :

6. IFSC Code of Bank Branch :

7. Beneficiary E-mail ID :
(for payment confirmation)

NOTE: In case Bank endorsed certificate regarding above has already been submitted earlier, kindly submit photocopy of the same

POWER OF ATTORNEY for SUBMISSION OF TENDER

(To be typed on non-judicial stamp paper of minimum Rs. 100/- and Notarized)

KNOW ALL MEN BY THESE PRESENTS, that I/We do hereby make, nominate, constitute and appoint Mr., whose signature given below herewith to be true and lawful Attorney of M/s..... hereinafter called 'Company', for submitting Tender/entering into Contract and inter alia, sign, execute all papers and to do necessary lawful acts on behalf of Company with M/s Bharat Heavy Electricals Ltd, Central Procurement Cell (CPC), in connection with.....vide Tender Enquiry

No: _____, dated _____.

And the Company do hereby agree to ratify and confirm all acts, deeds, things or proceedings as may be lawfully done by the said attorney and by or on behalf of the company and in the name of the company, by virtue of the powers conferred herein and the same shall be binding on the company and shall have full force and effect.

IN WITNESS WHEREOF, the common seal of the company has been hereunto affixed in the manner hereinafter appearing on the document.

Dated at _____, this _____ day of _____

Director/CMD/Partner/Proprietor

Signature of Mr. (Attorney)

Attested by: Director/CMD/Partner/Proprietor

Witness

Notary Public

PROFORMA OF BANK GUARANTEE FOR EARNEST MONEY

(On non-Judicial paper of appropriate value)

Bank Guarantee No.....

Date.....

To

(Employer's Name and Address)

Dear Sirs,

In accordance with the terms and conditions of Invitation for Bids/Notice Inviting Tender No.....¹(Tender Conditions), M/s. having its registered office at² (hereinafter referred to as the 'Tenderer'), is submitting its bid for the work of.....³ invited by⁴.(name of the Employer) through its Unit at(

The Tender Conditions provide that the Tenderer shall pay a sum of Rs as Earnest Money Deposit in the form therein mentioned. The form of payment of Earnest Money Deposit includes Bank Guarantee executed by a Scheduled Bank.

In lieu of the stipulations contained in the aforesaid Tender Conditions that an irrevocable and unconditional Bank Guarantee against Earnest Money Deposit for an amount of⁵ is required to be submitted by the Tenderer as a condition precedent for participation in the said Tender and the Tenderer having approached us for giving the said Guarantee,

we, the[Name & address of the Bank]

..... having our Registered Office at

.....(hereinafter referred to as the Bank) being the Guarantor under this Guarantee, hereby irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer without any demur, merely on your first demand any sum or sums of Rs.

.....⁵ (in words Rupees.....) without any reservation, protest, and recourse and without the beneficiary needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor/Contractor/Vendors in any suit or proceeding pending before any Court or

Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment hereunder and the Tenderer shall have no claim against us for making such payment.

We Bank further agree that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Tender or to extend the time of submission of from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Tenderer and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Tenderer or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Tenderer or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Tenderer and notwithstanding any security or other guarantee that the Employer may have in relation to the Tenderer's liabilities.

This Guarantee shall be irrevocable and shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by the Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Tenderer but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms hereof. However, unless a demand or claim under this Guarantee is made on us in writing on or before the⁷ we shall be discharged from all liabilities under this Guarantee.

This Bank Guarantee shall be governed, construed and interpreted in accordance with the laws of India.

Courts at shall alone have exclusive jurisdiction over any matter arising out of or in connection with this Bank Guarantee

We, Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a. The liability of the Bank under this Guarantee shall not exceed.....⁵
- b. This Guarantee shall be valid up to⁶
- c. Unless the Bank is served a written claim or demand on or before⁷ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Date.....

Place of Issue.....

¹ Details of the Invitation to Bid/Notice Inviting

Tender ²

Name and Address of the Tenderer

³ Details of the Work ⁴

Name of the Employer ⁵

BG Amount in words and Figures

*⁶ Validity Date ⁷ Date of Expiry of
Claim Period*

Notes:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Contractor/sub-contractor /vendor/ Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.
4. **In Case of Bank Guarantees submitted by Foreign Vendors-**
 - a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e., Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
 - b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1** In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter-

Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter-Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.

b.2 In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.

b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

BANK GUARANTEE FOR PERFORMANCE SECURITY

(On non-Judicial paper of appropriate value)

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of Bharat Heavy Electricals Limited (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____¹ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) with its registered office at _____² hereinafter referred to as the ' Vendor / Contractor / Supplier ', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----) / FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Vendor / Contractor / Supplier having agreed to provide a Contract Performance Bank Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

We,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer any sum or sums upto a maximum amount of Rs -----⁶ (Rupees -----) without any demur, immediately on first demand from the Employer and without any reservation, protest, and recourse and without the Employer needing to prove or demonstrate reasons for its such demand.

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Vendor / Contractor / Supplier in any suit or proceeding pending before any Court or Tribunal, Arbitrator or any other authority, our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the Vendor / Contractor / Supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract/ satisfactory completion of the performance guarantee period as per the terms of the Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

WeBANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Vendor / Contractor / Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Vendor / Contractor / Supplier and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Vendor / Contractor / Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Vendor / Contractor / Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Vendor / Contractor / Supplier and notwithstanding any security or other guarantee that the Employer may have in relation to the Vendor / Contractor / Supplier 's liabilities.

This Guarantee shall remain in force upto and including.....⁷ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Vendor / Contractor / Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁸ we shall be discharged from all liabilities under this guarantee thereafter.

This Bank Guarantee shall be governed, construed and interpreted in accordance with the laws of India.

Courts at shall alone have exclusive jurisdiction over any matter arising out of or in connection with this Bank Guarantee

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a. The liability of the Bank under this Guarantee shall not exceed.....⁶
- b. This Guarantee shall be valid up to⁷
- c. Unless the Bank is served a written claim or demand on or before⁸ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities

under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of (Name of the Bank) Dated.....

Place of Issue.....

¹

NAME AND ADDRESS OF EMPLOYER i.e., Bharat Heavy Electricals Limited ²

NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER. ³

DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE ⁴

CONTRACT VALUE ⁵

PROJECT/SUPPLY DETAILS ⁶

BG AMOUNT IN FIGURES AND WORDS ⁷

VALIDITY DATE ⁸

DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 3-6 months after validity date. It may be ensured that the same is in line with the agreement/ contract entered with the Vendor.
2. The BG should be on Non-Judicial Stamp paper/e-stamp paper of appropriate value as per Stamp Act prevailing in the State(s) where the BG is submitted or is to be acted upon or the rate prevailing in the State where the BG was executed, whichever is higher. The Stamp Paper/e-stamp paper shall be purchased in the name of Vendor/Contractor/Supplier /Bank issuing the guarantee.
3. In line with the GCC, SCC or contractual terms, Unit may carry out minor modifications in the Standard BG Formats. If required, such modifications may be carried out after taking up appropriately with the Unit/Region's Law Deptt.

4. In Case of Bank Guarantees submitted by Foreign Vendors-

- a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.

b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)

b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter-Guarantee by Foreign Bank in favour of the Indian Bank's (BHEL's Consortium Bank) branch in India. It is advisable that all charges for issuance of Bank Guarantee/ counter-Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.

b.2 In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.

b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). The BG Format provided to them should clearly specify the same.

LIST OF CONSORTIUM BANK

| Sl. No. | NAME OF THE BANK |
|----------------|---|
| 1 | State Bank of India |
| 2 | Canara Bank |
| 3 | IDBI Bank Limited |
| 4 | ICICI Bank Limited |
| 5 | HDFC Bank Limited |
| 6 | Axis Bank |
| 7 | IndusInd Bank Limited |
| 8 | Bank of Baroda |
| 9 | Exim Bank |
| 10 | Indian Bank |
| 11 | Punjab National Bank |
| 12 | Union Bank of India |
| 13 | Yes Bank Limited |
| 14 | RBL Bank Ltd. |
| 15 | Standard Chartered Bank |
| 16 | Indian Overseas Bank |
| 17 | Kotak Mahindra Bank Limited |
| 18 | Federal Bank Limited |
| 19 | Hongkong and Shanghai Banking Corporation Ltd |