

Corrigendum Document

Date: 14th March 2024

BID NO: [GEM/2024/B/4503932](#)

Item Name: Oil Module and Its Mandatory Spares

Project Name: 2X800 MW MAHAN

Description of Corrigendum:

- *Main Product Document and Addendum Revised.*
- *Offers to be submitted considering the attached revised "Main Product Document (Document No. 4-11939-J3500 Rev 03)" and revised "Addendum Document (Document No. 4-11939-J3600 Rev 03)".*
- *All other Terms & Conditions and Documents of Bid / Tender shall remain same.*



OIL MODULE UNIT MAIN PRODUCT DOCUMENT

DOCUMENT No.
4-11939-J3500
Rev 03

PROJECT NAME: 800MW BANDHAURA

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		03
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	013100J3106	-	00
M15	Component Diagram lifting Oil	113100J3105	-	00
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 with tube Bundle cooler	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	-	01

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**OIL MODULE UNIT
MAIN PRODUCT DOCUMENT**

**DOCUMENT No.
4-11939-J3500
Rev 03**

PROJECT NAME: 800MW BANDHAURA

E1	Addendum (Electrical) + Annex B (GA of Adaptor)	4-18101-F9-010		00
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E21	Level indicator with adjustable scale Oil Module 2	41800F91021		00
E22	MOT Heating	41800F91022		00
E23	KUN for Pressure Guages	KUN672_01EN199403		

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

Revision History

- 07.12.23 / Rev01: Doc at Sl. no. M2 revised.
- 26.12.23 / Rev02: Doc at Sl. no. M2 revised.
- 12.03.24 / Rev03: Doc at Sl. no. M2 revised.

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OIL MODULE UNIT ADDENDUM

DOCUMENT No.
4-11939-J3600
Rev 03

PROJECT NAME: 800MW BANDHAURA

A. SCOPE OF THE ADDENDUM:

1. This document states technical/ contractual requirements of Bharat Heavy Electricals Limited (hereafter referred to as BHEL), in addition to the Documents/ drawings of Main Product Document 4-11939-J3500 for the vendors to adhere to.
2. It may be noted that all the requirements mentioned in this addendum **supersede suchlike requirements** as mentioned in the documents of Main Product Document 4-11939- J3500.

B. REQUIREMENTS (PED)

1. The following documents shall be submitted by the vendor for approval by BHEL/ BHEL's Customer. However, the approval doesnot absolve the Oil Module supplier from the responsibility of correct supply as per specification and correct functioning of the equipment at site:-
 - I. General Arrangement drawing of Oil Module.
 - II. Data Sheet, Cross-sectional drg., Bill of Material (BOM) & Characteristic Curve of following pumps in BHEL format and OEM format. In the BOM of pump, it shall be ensured that Material of Construction of all items is mentioned in a separate column and that full grade of material is mentioned.
 - a. Main Oil Pump
 - b. Emergency Oil Pump
 - c. Lifting Oil Pump
 BHEL formats are enclosed.
 - III. Data Sheet, Cross-sectional drg., GA drg. & Curve for Lube Oil Temperature Control Valve.
 - IV. Data Sheet, Cross-sectional drg., GA drg. & Curve for Oil Mist Separator (Oil Vapor Exhauster).
 - V. Data Sheet, Cross-sectional drg., GA drg. & Curve for Throttling/ Regulating Valves.
 - VI. Data Sheet, Cross-sectional drg., & GA drg. for Isolating Valves.
 - VII. Data Sheet, Cross-sectional drg., & GA drg. for Lube Oil & Lifting Oil Filter in BHEL format and OEM format.
 - VIII. Drg. of Filter Elements of Lube Oil Filter, Lifting Oil Filter & Oil Mist Separator.
 - IX. Data Sheet, GA drg. & Cross-sectional drg. of Connecting Manifold and Startup-SafetyValve block of Lifting Oil System.
 - X. Item-wise packing list having all mechanical and electrical items/ equipments/ instruments etc.
 - XI. O&M Manual. This document 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 alongwith 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.
2. After Purchase Order, wherever vendor furnishes any document of vendor or sub-supplier, and where material is mentioned, it may be noted that full grade of material is mentioned in totality.
3. Oil Purifier, TURBINE OIL COOLER (TOC) AND Changeover valve of Turbine Oil Cooler (Double Three Way Valve) are **NOT** being procured with this Oil Module. So, these items may

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	OIL MODULE UNIT ADDENDUM	DOCUMENT No. 4-11939-J3600 Rev 03
PROJECT NAME: 800MW BANDHAURA		

not be offered. Since TOC is not part of scope of supply of Oil Module supplier, Functional Test procedure 4-11939-U5800 and Scheme 1-11939-U5000 have undergone revision. Supplier to refer latest revisions of these documents.

4. Refer doc. no. DPPPG-70137923 Titled Project Specific CRS:-

I. Clause 3.1.7: Final coating shall be included in scope.

The coat of paint shall be applied in three stages Primer, Intermediate and Final Coat. Number of Coats and Thicknesses shall be as per below:-

	Paint (Coat – air less)	Paint Type	No. of coat	Dry Film Thickness (Final) in microns
1	Primer Paint	Epoxy base Zinc rich primer paint (IS 14946)	1	75
2	Intermediate Paint	Epoxy MiO Polyamide Cured Paint	1	100
3	Finish (Final) Paint	Aliphatic Acrylic Polyurethane Finish Paint	1	50
			TOTAL	225

Paint shall be sea worthy.

Painting shall be suitable for the corrosive environment of the power plant which is classified as C4 as per ISO 12944. Supplier shall select paint accordingly. This is applicable for all mechanical and electrical items of Oil Module.

SS surface may not be painted.

Identification Tag/Band of White 9010 colour. Legend shall be in black letters.

Colors of various equipments shall be as mentioned below:-

Colors of various equipment shall be as mentioned below:-

S No.	Equipment	Color
1	Main Oil tank	RAL9002 Grey
2	Main Oil Pumps, Emergency Oil Pump, Jacking Oil Pumps	<u>Pumps:-</u> RAL9002 Grey <u>Motors:-</u> RAL5012 Blue
3	Oil Vapour Exhauster (including Motor)	<u>Exhauster:-</u> RAL9002 Grey <u>Motors:-</u> RAL5012 Blue
4	Duplex Filter (Lube Oil)	RAL9002 Grey
5	Duplex Filter (Jacking Oil)	RAL9002 Grey
6	Hand rails	RAL5012 Blue
7	Pipe Supports	RAL 9011 Black
8	Valves	RAL9002 Grey
9	3-Way Temperature Control Valve	RAL9002 Grey
10	Piping	RAL9002 Grey

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Stainless Steel surfaces will not be painted. Oil Module supplier shall provide 5% of total touchup paint alongwith Oil Module. This shall be sent to site.

- II. **Clause 3.1.11:** Functional Test is in scope. Since 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 Rev01 supplied alongwith enquiry. BHEL reserves the right to witness the functional test at vendor's works. Functional test shall be conducted for each Oil Module Unit. Vendors to quote prices accordingly.
- III. **Clause 3.3.4:** Flow rate of Lifting Oil Pump shall be 3.31LPS.
- IV. **Clause 3.4.1:** The material of Main Oil Tank shall be **Carbon Steel**. The following or equivalent may be taken as material of Main Oil Tank:-
a. Grade E250-BR (with impact test) as per IS:2062-2011
b. Grade S275JR as per DIN EN 10025-2:2005

V. **Clause 3.5:** Requirements of piping shall be as follows:-

	Parameters	Requirements	Note
1	Design and fabrication	ANSI	Internal Piping according to DIN and connection flanges according to ANSI/ASME B16.5 are also acceptable.
2	Pipe and fittings material for lube oil system, emergency oil system, lifting oil system, return oil pipe, guage lines, water-containing pipes, drain pipes, vent lines	Entirely of stainless steel	The grade of piping shall be Stainless Steel Grade 321 or equivalent. For material of Oil Mist Eliminator piping, SS grade as per OEM's standard offer is also acceptable.
3	Pipe and fittings material for oil vapor system	Entirely of stainless steel	
4	Material for temporary piping and fittings supplied for flushing	Entirely of stainless steel	

VI. **Clause 3.12.3:** Flow rate of Lifting Oil Pump shall be 3.31LPS.

VII. **Clause 3.14:** This clause is not applicable, since Turbine Oil Cooler is not in scope of supply of Oil Module supplier in this project.

VIII. **Clause 3.17:** This clause may be read as deleted.

5. Refer drg. DPPP-G-70149402 (Module Tank): It may be noted that the internal piping routing for terminal point A15 (from tank to oil purifier) shown in Module Tank drg. may not be followed as it is taken from clean oil side of tank. Instead of it, pipe routing shall be done as per Oil Module system P&ID (0-13100-XX106) ie from both clean chamber and rising chamber of tank.
6. All clamps required for fixing Oil Tank and Oil Cooler on the foundation as indicated in drg. "Foundation Requirement Oil Module2 – Holohedral Installation" Drg. no. DPPP-G-70129787 are in scope of supply of vendor.

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7. It is to be ensured that there is no abnormal vibration of all rotating parts when mounted on Oil Module during running condition. Acceptance norms for vibrations are as per ISO 10816-7 Cat-I Zone-A.
8. Non-Destructive Testing

MT or PT of welds	Scope
Lifting Oil System Piping	100%
Lube Oil System Piping	100%
Lube Oil Cooler	100%
Lifting lugs at oil container and lube oil cooler	100%

RT of welds	Scope
Lifting Oil System Piping	100%
Lube Oil System Piping	10%
Lube Oil Cooler	10%

Pressure Test with Water	Test Pressure	Test Duration
Lifting Oil System Piping	290 bar g	4 hrs.
Lube Oil System Piping	12 bar g	4 hrs.
Lube Oil Cooler Oil Side	12 bar g	4 hrs.
Lube Oil Cooler Water Side	12 bar g	4 hrs.

Tightness test with Air	Test Pressure	Test Duration
All piping systems	0.5 bar g	30 mins.

9. **Refer Clause no. 3.2.8 of General CRS DSPPG-0066852:**
 - a. The material of filter elements of Lube Oil Filter to be supplied by Oil Module supplier shall be Stainless Steel. In this case, Nominal mesh size may be considered as 25 microns
 - b. Lifting Oil Filter shall be selected considering that short term parallel operation of Lifting/ Jacking Oil Pump is possible.
10. Material of following components shall be **Stainless Steel**:-
 - a. Basket Strainer of Main Oil Tank (Body as well as Element)
 - b. Lube Oil Filter (Housing as well as elements)
 - c. Lifting Oil Filter (Housing as well as elements) and its manifold block assembly.
 - d. Shaft of MOP and EOP.
 - e. All valves used in Oil Module. Deviation is acceptable only incase Valve in SS material is not in manufacturing range of all OEMs of that particular valve specified in BHEL spec. Documentary evidence (e.g. email / letter from OEM) thereof shall be provided by Oil Module supplier after PO stating that the valve is not in manufacturing range of OEM.
 - f. Except Main Oil Tank, Centrifugal Pumps, and Oil Mist Eliminator all other components of the system coming in contact with the oil shall be of stainless steel.

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Deviation is acceptable only incase the component in SS material is not in manufacturing range or not used by all OEMs of that particular item specified in BHEL spec. Documentary evidence (e.g. email / letter from OEM) thereof shall be provided by Oil Module supplier after PO to this effect.

11. **Refer Clause 3.2.5.1 of Gen. CRS DSPPG-0066852:** Discharge pressure of Lube Oil Pump is mentioned as 6 ± 0.3 bar. The same may be read as $6 + 0.3$ bar. In material codes, wherever, 6 ± 0.3 bar is mentioned, the same may be considered as $6 + 0.3$ bar.
12. For manifold block of Pressure Limit Valve of Lifting Oil Filter, Hydac make manifold block is also acceptable with Hydac make Lifting Oil Filter. Responsibility of correct supply, correct functioning of the equipment and meeting requirements of functionality of Oil Module shall be of Oil Module supplier.
13. A second additional climbing ladder, for access to Lube Oil Filter area shall be required. The ladder shall be removable, which shall be fitted at site after installation of Oil Module.
14. **Refer Clause no. 3.2.1 of General CRS DSPPG-0066852:** The supplier of Oil Mist Eliminator is mentioned as Franke. It may be noted that in addition to Franke, M/s Hydac make Oil Mist Eliminator is also acceptable. In this regard, drg. of M/s Hydac has been added in Sl. No. M4 of Main Product Document 4-11939-J3500. Oil Module vendors to furnish their offer accordingly. The Oil Module suppliers shall ensure that scope of supply shall be as per BHEL's P&ID 013100XX106. Responsibility of correct supply, correct functioning of the equipment and meeting requirements of functionality of Oil Module shall be of Oil Module supplier. The material of piping, fittings, valves shall be as mentioned in Addendum.
15. **Refer Clause no. 3.2.1 of General CRS DSPPG-0066852:** For Basket Strainer of Main Oil Tank, Oil Module supplier may offer other make also. However, the responsibility of correct supply and correct functioning of the equipment rests with Oil Module supplier.
16. Drain valves in Tank/piping shall be lockable type.
17. The spares supplied alongwith main Oil Module shall be interchangeable with original item for which they are intended to be spares.
18. Flange connections (in piping, valves etc) below lube oil level are not desirable. Oil Module supplier shall ensure this requirement during planning stage like valve selection etc. eg. Selecting welded valves instead of flanged valves.

C. REQUIREMENTS (CIE)

Refer Addendum (Electrical), document no. 4-18101-E2-010.

D. REQUIREMENTS (GENERAL)

1. Vendor to note that in all of the documents and drawings mentioned in Document List No. 4-11939-J3500 wherever M/S Siemens is mentioned with respect to document submission/ document checking/ calculations submission/ ownership of submitted documents/ authority to be contacted for any clarifications/ copying & use of documentation for further purpose, BHEL shall be implied and understood.

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PROJECT NAME: 800MW BANDHAURA		

2. **Supervision of commissioning** of all Oil Module units applicable for the project shall be done by the vendor. For each Oil Module supervision, seven working days in two visits are to be required at site. Vendor to quote for supervision of commissioning in their offer.
3. Vendor shall furnish the Hard & Soft Copies of all the documents as per below:
 - I. *After Placement of Purchase Order*
 - Hard Copies: 6nos.
 - Soft Copies : 6nos. CDs with the docs. & drgs. In PDF format without document protection.
 - II. *O&M Manuals*
 - Two nos. Hard Copies and One no. CD alongwith the package.
 - Fifteen nos. Hard Copies and Two nos. CDs to BHEL, Haridwar
4. Vendor shall submit Recommended Spare Parts List for three years of operation alongwith drawings of all the equipments/ assemblies along with the cost.
5. Vendor shall provide one set of special tools & tackles required for erection and commissioning & for subsequent normal operation.
6. In case there is any deviation to BHEL's spec., vendor shall explicitly submit deviations or else confirm no deviation.
7. 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 alongwith Name and KKS of item and submitted to BHEL.
8. **GUARANTEE**
Supplier shall guarantee trouble free and satisfactory operation of the product for 36 months from date of dispatch or 18 months from date of commissioning, whichever is earlier.

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Revision History

1. Rev 01 / 07.12.2023: Clause B.4 revised, B.18 added.
2. Rev 02 / 26.12.23: Clause B.10.d and B.10.e added.
3. Rev 03 / 12.03.24: Clause B.10 revised.

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2. It may be noted that all the requirements mentioned in this addendum **supersede suchlike requirements** as mentioned in the documents of Main Product Document 4-11939- J3500.

B. REQUIREMENTS (PED)

1. The following documents shall be submitted by the vendor for approval by BHEL/ BHEL's Customer. However, the approval doesnot absolve the Oil Module supplier from the responsibility of correct supply as per specification and correct functioning of the equipment at site:-
 - I. General Arrangement drawing of Oil Module.
 - II. Data Sheet, Cross-sectional drg., Bill of Material (BOM) & Characteristic Curve of following pumps in BHEL format and OEM format. In the BOM of pump, it shall be ensured that Material of Construction of all items is mentioned in a separate column and that full grade of material is mentioned.
 - a. Main Oil Pump
 - b. Emergency Oil Pump
 - c. Lifting Oil Pump
 BHEL formats are enclosed.
 - III. Data Sheet, Cross-sectional drg., GA drg. & Curve for Lube Oil Temperature Control Valve.
 - IV. Data Sheet, Cross-sectional drg., GA drg. & Curve for Oil Mist Separator (Oil Vapor Exhauster).
 - V. Data Sheet, Cross-sectional drg., GA drg. & Curve for Throttling/ Regulating Valves.
 - VI. Data Sheet, Cross-sectional drg., & GA drg. for Isolating Valves.
 - VII. Data Sheet, Cross-sectional drg., & GA drg. for Lube Oil & Lifting Oil Filter in BHEL format and OEM format.
 - VIII. Drg. of Filter Elements of Lube Oil Filter, Lifting Oil Filter & Oil Mist Separator.
 - IX. Data Sheet, GA drg. & Cross-sectional drg. of Connecting Manifold and Startup-SafetyValve block of Lifting Oil System.
 - X. Item-wise packing list having all mechanical and electrical items/ equipments/ instruments etc.
 - XI. O&M Manual. This document 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 alongwith 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.
2. After Purchase Order, wherever vendor furnishes any document of vendor or sub-supplier, and where material is mentioned, it may be noted that full grade of material is mentioned in totality.
3. Oil Purifier, TURBINE OIL COOLER (TOC) AND Changeover valve of Turbine Oil Cooler (Double Three Way Valve) are **NOT** being procured with this Oil Module. So, these items may

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Checked by	A JAIN		
Approved by	SK GUPTA		
	Name	Signature	
Deptt.			STE-TL
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	OIL MODULE UNIT ADDENDUM	DOCUMENT No. 4-11939-J3600 Rev 03
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not be offered. Since TOC is not part of scope of supply of Oil Module supplier, Functional Test procedure 4-11939-U5800 and Scheme 1-11939-U5000 have undergone revision. Supplier to refer latest revisions of these documents.

4. Refer doc. no. DPPPG-70137923 Titled Project Specific CRS:-

I. Clause 3.1.7: Final coating shall be included in scope.

The coat of paint shall be applied in three stages Primer, Intermediate and Final Coat. Number of Coats and Thicknesses shall be as per below:-

	Paint (Coat – air less)	Paint Type	No. of coat	Dry Film Thickness (Final) in microns
1	Primer Paint	Epoxy base Zinc rich primer paint (IS 14946)	1	75
2	Intermediate Paint	Epoxy MiO Polyamide Cured Paint	1	100
3	Finish (Final) Paint	Aliphatic Acrylic Polyurethane Finish Paint	1	50
			TOTAL	225

Paint shall be sea worthy.

Painting shall be suitable for the corrosive environment of the power plant which is classified as C4 as per ISO 12944. Supplier shall select paint accordingly. This is applicable for all mechanical and electrical items of Oil Module.

SS surface may not be painted.

Identification Tag/Band of White 9010 colour. Legend shall be in black letters.

Colors of various equipments shall be as mentioned below:-

Colors of various equipment shall be as mentioned below:-

S No.	Equipment	Color
1	Main Oil tank	RAL9002 Grey
2	Main Oil Pumps, Emergency Oil Pump, Jacking Oil Pumps	<u>Pumps:-</u> RAL9002 Grey <u>Motors:-</u> RAL5012 Blue
3	Oil Vapour Exhauster (including Motor)	<u>Exhauster:-</u> RAL9002 Grey <u>Motors:-</u> RAL5012 Blue
4	Duplex Filter (Lube Oil)	RAL9002 Grey
5	Duplex Filter (Jacking Oil)	RAL9002 Grey
6	Hand rails	RAL5012 Blue
7	Pipe Supports	RAL 9011 Black
8	Valves	RAL9002 Grey
9	3-Way Temperature Control Valve	RAL9002 Grey
10	Piping	RAL9002 Grey

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Stainless Steel surfaces will not be painted. Oil Module supplier shall provide 5% of total touchup paint alongwith Oil Module. This shall be sent to site.

- II. **Clause 3.1.11:** Functional Test is in scope. Since 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 Rev01 supplied alongwith enquiry. BHEL reserves the right to witness the functional test at vendor's works. Functional test shall be conducted for each Oil Module Unit. Vendors to quote prices accordingly.
- III. **Clause 3.3.4:** Flow rate of Lifting Oil Pump shall be 3.31LPS.
- IV. **Clause 3.4.1:** The material of Main Oil Tank shall be **Carbon Steel**. The following or equivalent may be taken as material of Main Oil Tank:-
- a. Grade E250-BR (with impact test) as per IS:2062-2011
 - b. Grade S275JR as per DIN EN 10025-2:2005

V. **Clause 3.5:** Requirements of piping shall be as follows:-

	Parameters	Requirements	Note
1	Design and fabrication	ANSI	Internal Piping according to DIN and connection flanges according to ANSI/ASME B16.5 are also acceptable.
2	Pipe and fittings material for lube oil system, emergency oil system, lifting oil system, return oil pipe, guage lines, water-containing pipes, drain pipes, vent lines	Entirely of stainless steel	The grade of piping shall be Stainless Steel Grade 321 or equivalent. For material of Oil Mist Eliminator piping, SS grade as per OEM's standard offer is also acceptable.
3	Pipe and fittings material for oil vapor system	Entirely of stainless steel	
4	Material for temporary piping and fittings supplied for flushing	Entirely of stainless steel	

VI. **Clause 3.12.3:** Flow rate of Lifting Oil Pump shall be 3.31LPS.

VII. **Clause 3.14:** This clause is not applicable, since Turbine Oil Cooler is not in scope of supply of Oil Module supplier in this project.

VIII. **Clause 3.17:** This clause may be read as deleted.

5. Refer drg. DPPP-G-70149402 (Module Tank): It may be noted that the internal piping routing for terminal point A15 (from tank to oil purifier) shown in Module Tank drg. may not be followed as it is taken from clean oil side of tank. Instead of it, pipe routing shall be done as per Oil Module system P&ID (0-13100-XX106) ie from both clean chamber and rising chamber of tank.
6. All clamps required for fixing Oil Tank and Oil Cooler on the foundation as indicated in drg. "Foundation Requirement Oil Module2 – Holohedral Installation" Drg. no. DPPP-G-70129787 are in scope of supply of vendor.

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OIL MODULE UNIT ADDENDUM

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7. It is to be ensured that there is no abnormal vibration of all rotating parts when mounted on Oil Module during running condition. Acceptance norms for vibrations are as per ISO 10816-7 Cat-I Zone-A.
8. Non-Destructive Testing

MT or PT of welds	Scope
Lifting Oil System Piping	100%
Lube Oil System Piping	100%
Lube Oil Cooler	100%
Lifting lugs at oil container and lube oil cooler	100%

RT of welds	Scope
Lifting Oil System Piping	100%
Lube Oil System Piping	10%
Lube Oil Cooler	10%

Pressure Test with Water	Test Pressure	Test Duration
Lifting Oil System Piping	290 bar g	4 hrs.
Lube Oil System Piping	12 bar g	4 hrs.
Lube Oil Cooler Oil Side	12 bar g	4 hrs.
Lube Oil Cooler Water Side	12 bar g	4 hrs.

Tightness test with Air	Test Pressure	Test Duration
All piping systems	0.5 bar g	30 mins.

9. **Refer Clause no. 3.2.8 of General CRS DSPPG-0066852:**
 - a. The material of filter elements of Lube Oil Filter to be supplied by Oil Module supplier shall be Stainless Steel. In this case, Nominal mesh size may be considered as 25 microns
 - b. Lifting Oil Filter shall be selected considering that short term parallel operation of Lifting/ Jacking Oil Pump is possible.
10. Material of following components shall be **Stainless Steel**:-
 - a. Basket Strainer of Main Oil Tank (Body as well as Element)
 - b. Lube Oil Filter (Housing as well as elements)
 - c. Lifting Oil Filter (Housing as well as elements) and its manifold block assembly.
 - d. Shaft of MOP and EOP.
 - e. All valves used in Oil Module. Deviation is acceptable only incase Valve in SS material is not in manufacturing range of all OEMs of that particular valve specified in BHEL spec. Documentary evidence (e.g. email / letter from OEM) thereof shall be provided by Oil Module supplier after PO stating that the valve is not in manufacturing range of OEM.
 - f. Except Main Oil Tank, Centrifugal Pumps, and Oil Mist Eliminator all other components of the system coming in contact with the oil shall be of stainless steel.

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Deviation is acceptable only incase the component in SS material is not in manufacturing range or not used by all OEMs of that particular item specified in BHEL spec. Documentary evidence (e.g. email / letter from OEM) thereof shall be provided by Oil Module supplier after PO to this effect.

11. **Refer Clause 3.2.5.1 of Gen. CRS DSPPG-0066852:** Discharge pressure of Lube Oil Pump is mentioned as 6 ± 0.3 bar. The same may be read as $6 + 0.3$ bar. In material codes, wherever, 6 ± 0.3 bar is mentioned, the same may be considered as $6 + 0.3$ bar.
12. For manifold block of Pressure Limit Valve of Lifting Oil Filter, Hydac make manifold block is also acceptable with Hydac make Lifting Oil Filter. Responsibility of correct supply, correct functioning of the equipment and meeting requirements of functionality of Oil Module shall be of Oil Module supplier.
13. A second additional climbing ladder, for access to Lube Oil Filter area shall be required. The ladder shall be removable, which shall be fitted at site after installation of Oil Module.
14. **Refer Clause no. 3.2.1 of General CRS DSPPG-0066852:** The supplier of Oil Mist Eliminator is mentioned as Franke. It may be noted that in addition to Franke, M/s Hydac make Oil Mist Eliminator is also acceptable. In this regard, drg. of M/s Hydac has been added in Sl. No. M4 of Main Product Document 4-11939-J3500. Oil Module vendors to furnish their offer accordingly. The Oil Module suppliers shall ensure that scope of supply shall be as per BHEL's P&ID 013100XX106. Responsibility of correct supply, correct functioning of the equipment and meeting requirements of functionality of Oil Module shall be of Oil Module supplier. The material of piping, fittings, valves shall be as mentioned in Addendum.
15. **Refer Clause no. 3.2.1 of General CRS DSPPG-0066852:** For Basket Strainer of Main Oil Tank, Oil Module supplier may offer other make also. However, the responsibility of correct supply and correct functioning of the equipment rests with Oil Module supplier.
16. Drain valves in Tank/piping shall be lockable type.
17. The spares supplied alongwith main Oil Module shall be interchangeable with original item for which they are intended to be spares.
18. Flange connections (in piping, valves etc) below lube oil level are not desirable. Oil Module supplier shall ensure this requirement during planning stage like valve selection etc. eg. Selecting welded valves instead of flanged valves.

C. REQUIREMENTS (CIE)

Refer Addendum (Electrical), document no. 4-18101-E2-010.

D. REQUIREMENTS (GENERAL)

1. Vendor to note that in all of the documents and drawings mentioned in Document List No. 4-11939-J3500 wherever M/S Siemens is mentioned with respect to document submission/ document checking/ calculations submission/ ownership of submitted documents/ authority to be contacted for any clarifications/ copying & use of documentation for further purpose, BHEL shall be implied and understood.

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	OIL MODULE UNIT ADDENDUM	DOCUMENT No. 4-11939-J3600 Rev 03
PROJECT NAME: 800MW BANDHAURA		

2. **Supervision of commissioning** of all Oil Module units applicable for the project shall be done by the vendor. For each Oil Module supervision, seven working days in two visits are to be required at site. Vendor to quote for supervision of commissioning in their offer.
3. Vendor shall furnish the Hard & Soft Copies of all the documents as per below:
 - I. *After Placement of Purchase Order*
 - Hard Copies: 6nos.
 - Soft Copies : 6nos. CDs with the docs. & drgs. In PDF format without document protection.
 - II. *O&M Manuals*
 - Two nos. Hard Copies and One no. CD alongwith the package.
 - Fifteen nos. Hard Copies and Two nos. CDs to BHEL, Haridwar
4. Vendor shall submit Recommended Spare Parts List for three years of operation alongwith drawings of all the equipments/ assemblies along with the cost.
5. Vendor shall provide one set of special tools & tackles required for erection and commissioning & for subsequent normal operation.
6. In case there is any deviation to BHEL's spec., vendor shall explicitly submit deviations or else confirm no deviation.
7. 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 alongwith Name and KKS of item and submitted to BHEL.
8. **GUARANTEE**
Supplier shall guarantee trouble free and satisfactory operation of the product for 36 months from date of dispatch or 18 months from date of commissioning, whichever is earlier.

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Revision History

1. Rev 01 / 07.12.2023: Clause B.4 revised, B.18 added.
2. Rev 02 / 26.12.23: Clause B.10.d and B.10.e added.
3. Rev 03 / 12.03.24: Clause B.10 revised.

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FAX: +91 1334 226462
TEL: +91 1334 28 1150 / 4175

PACKAGE: OIL MODULE & IT'S MANDATORY SPARES
PROJECT: 2X800 MW MAHAN

BUYER ADDED BID SPECIFIC ADDITIONAL TERMS AND CONDITIONS:

S. N.	Terms	Description	Your confirmation												
1.	Compliance of GTC on GeM	In addition to the terms & conditions mentioned in below table, General Terms and Conditions on GeM 4.0 (Version 1.13) Dt. 29 th Nov 2023 or it's latest revision (if revised prior to issuance of enquiry) shall be applicable against this enquiry. Kindly confirm same is acceptable to you.													
2.	BID SECURITY / EARNEST MONEY DEPOSIT (EMD):	All interested vendors must submit their e-bid along with the proof of submission of following Earnest Money Deposit (EMD) details in GeM portal along with offer. <table><tr><th>Details</th><th>Amount In INR</th><th>Type</th></tr><tr><td>EMD</td><td>INR 6,00,000/- (Six lakhs only)</td><td>Refundable</td></tr></table> EMD is applicable to all the bidders irrespective of Bidders already registered at BHEL Hardwar (i.e. PMD Vendors for this package). However, Micro and Small Enterprises (MSEs), as per MSME guidelines or Start-ups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT) are exempted for submission of EMD. Modes of deposit: The EMD may be accepted only in the following forms: i) Electronic Fund Transfer credited in BHEL account (before tender opening). ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer). iii) Fixed Deposit Receipt (FDR). iv) Bank Guarantee from any of the Scheduled Banks. The EMD shall remain valid for a period of 45 (forty-five) days beyond the final bid validity period as asked in NIT. v) Insurance Surety Bonds. For E-Payment, the RTGS details are as mentioned below: <table><tr><th>Bank Details</th><th>SWIFT Details of bank</th><th>Contact Details of Banker</th></tr><tr><td>STATE BANK OF INDIA, RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA, PIN CODE: 249403</td><td>SWIFT NO: SBININBB225CC ACCOUNT NO: 10667995458 IFSC CODE: SBIN0000586</td><td>Chief Manager (IBD) Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512</td></tr></table> Forfeiture of EMD: a. A bidder's EMD will be forfeited if 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	Details	Amount In INR	Type	EMD	INR 6,00,000/- (Six lakhs only)	Refundable	Bank Details	SWIFT Details of bank	Contact Details of Banker	STATE BANK OF INDIA, RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA, PIN CODE: 249403	SWIFT NO: SBININBB225CC ACCOUNT NO: 10667995458 IFSC CODE: SBIN0000586	Chief Manager (IBD) Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512	
Details	Amount In INR	Type													
EMD	INR 6,00,000/- (Six lakhs only)	Refundable													
Bank Details	SWIFT Details of bank	Contact Details of Banker													
STATE BANK OF INDIA, RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA, PIN CODE: 249403	SWIFT NO: SBININBB225CC ACCOUNT NO: 10667995458 IFSC CODE: SBIN0000586	Chief Manager (IBD) Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512													

(Signature of the Vendor with Seal)



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PACKAGE: OIL MODULE & IT'S MANDATORY SPARES
PROJECT: 2X800 MW MAHAN

		period mentioned in the Tender. b. EMD by the tenderer to be withheld in case any action on the bidder is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines. c. Bid securities of the unsuccessful bidders shall be returned to them after expiry of the final bid validity period / latest by the 30th day after the award of the contract. Since it is a two-part bidding, bid securities of unsuccessful bidders during first stage i.e. technical evaluation shall be returned within 30 days of declaration of result of first stage i.e. technical evaluation. d. Bid security/EMD of the successful bidder shall be returned only on conclusion of the order and receipt of a Performance Security/Performance Bank Guarantee of 10% of contract value (excluding taxes) from contractor / Supplier. e. EMD/PBG/PS shall not carry any interest.	
3.	Performance Security (PS)/ Performance Bank Guarantee (PBG):	Successful bidder to submit Performance Security/Performance Bank Guarantee of 10% of the contract Value (Excluding Taxes). The Performance Security/PBG shall be submitted within 30 days of notification of the award of Contract and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations. PS/PBG shall be returned to the contractor without interest, after the contractor 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. The Performance Security/PBG shall not carry any interest. Modes of deposit of PS/ PBG: Performance Security/Performance Bank Guarantee shall be furnished in the following forms: - Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of BHEL. - Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL. - Fixed Deposit Receipt 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). - 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). - Insurance Surety Bond. (Note: 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) Forfeiture of Performance Security/Performance Bank Guarantee: The Performance Security/ Performance Bank Guarantee will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.	

(Signature of the Vendor with Seal)



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4.	Basis of quotation:	Prices are to be quoted on Ex-Works Freight Prepaid up to Site basis. 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.) Please inform the rate of GST included in your quoted prices.	
5.	Transit Insurance	Transit Insurance will be covered by BHEL under its open Insurance Policy.	
6.	SPECIAL INSTRUCTION	Please note that as per BHEL's Policy, we cannot allow Price impact for the requirement / scope of supply, which is a part of specifications of our tender enquiry. Hence please read all specification / documents thoroughly and submit your offer as per specifications of tender enquiry. In case of any confusion / un-clarity on any of the clause / requirement of specification, please clarify the same from BHEL before submission of offer. No deviation & request regarding un-clarity / contradictory conditions / ambiguity of specifications would be entertained after opening of techno-commercial offers. Further no price impact would be allowed for the requirement which is already part of the specifications of the tender enquiry, after opening of techno-commercial offers. Please note and confirm.	
7.	Procurement from Customer Approved / Accepted Vendors only	Bidders are requested to submit their credentials along with offer (Credentials should include BHEL P.O.s on vendor for the same rating or higher rating turbines, Experience of vendor with state utilities and major PSU like NTPC, End User Certificate wherever available), in order to take up with end customer for approval. The offer of only those bidders, who meet Pre-qualification requirement (PQR), Technical requirement and approved by the End Customer, will be considered for price-bid opening & RA for the requirement against this enquiry.	
8.	BHEL's approval condition	Please note that offers of the vendors will be considered only for the manufacturing, testing and supply from their already approved works / manufacturing facility by BHEL. Further, Vendors to ensure compliance of their registration conditions / limitations applicable on them at the time of registration with BHEL Haridwar for supply of Oil Module. Please confirm.	
9.	Engineering Document approval	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. 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. Item should be manufactured as per specifications & approved documents from BHEL / end customer. Please confirm above	
10.	Functional Test of Oil Module	Please note that as per 4.II.Clause 3.1.11 of Document No. 4-11939-J3600 Rev. 02, Functional Test is in scope. Since 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 Rev01 supplied along with enquiry. BHEL /	

(Signature of the Vendor with Seal)



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		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>									
11.	Supervision of erection & commissioning.	Please note that your competent representative is required for Supervision of commissioning of the equipment at our project site. Please confirm to quote your charges for Supervision of Commissioning as follows: • Supervision Charges per day including local conveyance, boarding & lodging charges (lumpsum charges per day excluding GST) • To & from travelling charges per visit (lumpsum charges per visit excluding GST) 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. Please note that BHEL will deduct tax from your bill of supervision at the time of payment of supervision and furnish Tax Deduction at Source (TDS) Certificate. The rate of tax will be 10% if you have PAN (Permanent Account Number) else rate of tax will be 20%. Please provide your PAN No. and furnish the copy of your PAN card. (Registration with income tax Department of India). Please confirm to depute your representative for supervision of commissioning at our site, within 2 weeks from the date of intimation. 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.									
12.	Payment Terms	<u>Material Portion:</u> 100% payment will be released after issue of Consignee Receipt-Cum-Acceptance Certificate (CRAC) and On-line submission of bills. <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. The timeline for payments will be as under: <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>	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										
13.	Interchangeability of Spares	Please confirm that all spares items of this enquiry (Mandatory / commissioning Spares) should be interchangeable with the main oil module of each project. Please confirm.									
14.	Quality Requirements	Please confirm and endorse end customer approved quality plan QA/BI/QP/903/MAHAN REV01 & ADANI/QA/SQP/E/002 (for Motor of rating 45 KW & above). Please confirm that Inspection shall be done by BHEL nominated inspection agency "INTERTEK" and Customer, as per Customer approved Quality Plan. For Spares: Test certificate/witnessing/COC shall be done and provided as per approved quality plan along with interchangeability certificate. If									

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		item does not appear in approved quality plan then certificate of compliance along with interchangeability certificate shall be provided. Please confirm	
		Please note that BHEL will pay directly to BHEL nominated inspection agency for inspection. However, the Co-ordination with the BHEL nominated Inspection agency would be the sole responsibility of the bidder. Please confirm.	
15.	MDCC clause	Please note that, material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) by BHEL. For issue of MDCC, you are required to submit all test certificates (TC) and inspection report of third party (IR) in two hard copies to us. 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.	
16.	Manufacturing Clearance Condition	Manufacturing shall be started only after receipt of Manufacturing Clearance for each lot from BHEL. Please confirm.	
17.	Delivery Period	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 & Manufacturing Clearance. The contractual delivery will be the delivery period quoted by you or as per enquiry delivery schedule, whichever is later.	
18.	Liquidated damages for late delivery	In case of delay in supply of material beyond the agreed contractual delivery, Liquidated Damages (LD) for Late Deliveries shall be applicable @0.5% per week or part thereof on the value of respective delayed supplies subject to a maximum of 10% of the value of respective delayed supplies. Value of delayed supplies will mean the Gross Value payable to the vendor (Before LD) against such supplies excluding taxes and duties. Please confirm.	
		The date of GR / LR would be treated as the date of delivery for penalty purposes.	
19.	Guarantee	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.	
		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.	
		Supplier shall be responsible for free replacement of defective equipment / material at our site without any additional cost to BHEL.	
20.	O&M Manuals	Please confirm to submit O&M manuals as per clause nos. B.XI and D.3.II of document no 4-11939-J3600 rev.02 reproduced below: - Two nos. Hard Copies and One no. CD along with the package. - Fifteen nos. Hard Copies and Two nos. CDs to BHEL, Haridwar	
		The supplier has to get approval on O&M Manual of Oil Module from BHEL before supply of consignment i.e. Oil Module. Please confirm.	
21.	Recommended Spare Parts List	Please submit Recommended Spare Parts List for three years of operation along with drawings of all the equipment's / assemblies along with the cost.	
22.	Special Tools & Tackles	Please confirm to provide one set of special tools & tackles required for erection and commissioning & for subsequent normal operation.	
23.	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	

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		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.	
24.	Breach of contract	In case bidder to fail to full-fill the contractual obligations as per contract, Performance Security/Performance Bank Guarantee available with BHEL against the contract value, the same be encashed by BHEL. Further, legal remedies be pursued, levy of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions/extant guidelines of BHEL. Please confirm.	
25.	Arbitration Clause	In case of any dispute arising out of as in connection with this contract, the same shall be referred to arbitration under Arbitration & Conciliation Act 1996 of a sole arbitrator who shall be appointed by mutual consent of the parties. The seat & venue of arbitration shall be Haridwar. The proceedings shall be conducted in English. The Governing law of contract shall be the substantive law of India.	
26.	Conflict of interest	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: 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</u>, or 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</u>; or 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: 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.	

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27.	Action against Bidders / vendor / supplier / contractor in case of default	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. 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”															
28.	Packing Instructions	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.															
29.	Integrity Pact	(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors 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. <table><tr><th>Sl.</th><th>IEM</th><th>Email</th></tr><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></table> (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. (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. Note: 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 provided below: Details of contact person(s)- <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. Amit Kumar Singh Designation: Sr. Manager (PPX-BOI) 4th Floor, Main Administrative Building, HEEP, BHEL Hardwar- 249403 Uttarakhand, India Email ID: amitsingh@bhel.in Tel: +91 1334 28 1150</td></tr></table>	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	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. Amit Kumar Singh Designation: Sr. Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL Hardwar- 249403 Uttarakhand, India Email ID: amitsingh@bhel.in Tel: +91 1334 28 1150	
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2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in															
3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@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. Amit Kumar Singh Designation: Sr. Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL Hardwar- 249403 Uttarakhand, India Email ID: amitsingh@bhel.in Tel: +91 1334 28 1150																

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30.	Framework Confidentiality Agreement cum Undertaking	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. Suppliers may either submit signed FCA through email (diwakarv@bhel.in, amitksingh@bhel.in) or direct to BHEL. Format of FCA along with the Overview of Oil Module (Doc. No.: 4-11939-S5811 Rev 00) 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.	
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