



**GLOBAL TENDER**

**FOR**

**SOURCING DESIGN FOR 125 MT WORKOVER RIG CARRIER  
AND CARRIER MOUNTED EQUIPMENT**

**Issued by:**

**Bharat Heavy Electricals Limited, RC Puram Hyderabad, India having registered office at**

**BHEL House, Siri Fort New Delhi-110049 and**

**also office at**

**Industry Sector, 6th floor, Integrated Office Complex, Lodhi Road,**

**NEW DELHI-110 003 (hereinafter referred to as 'BHEL')**

**INDIA**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**DISCLAIMER**

All information contained in this document provided / clarified are in good interest and faith. The information contained in this document or subsequently provided to Bidder(s), whether verbally or in documentary or any other form, by or on behalf of BHEL, is provided on the terms and conditions set out in this document and such other terms and conditions subject to which such information is provided.

The purpose of this document is to provide interested parties with information that may be useful to them in the formulation of their application for qualification and submission of bids for the equipment and services. This is not an offer by BHEL to the prospective Bidder(s) or any other person. This document is neither intended nor shall it be construed as creating or requiring any ongoing or continuing relationship or commitment with any party or person. This document is issued for inviting bids to enter into a Pre-Bid agreement with successful bidder on mutually agreed terms and conditions.

Though adequate care has been taken in the preparation of this document, the interested firms shall satisfy itself that the document is complete in all respects. The information is not intended to be exhaustive. Interested Agencies are required to make their own enquiries and assumptions wherever required. Intimation of discrepancy, if any, should be given to the specified office immediately. If no intimation is received by BHEL by the date mentioned in the document, it shall be deemed that the document is complete in all respects.

The issue of this document does not imply that BHEL is bound to select and shortlist Bidder(s) to enter into any agreement(s) with any Bidder(s). BHEL reserves all right to reject any applications submitted in response to this tender document at any stage without assigning any reasons thereof. BHEL also reserves the right to withhold or withdraw the process at any stage. Neither BHEL nor its employees and associates will have any liability any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this document or any matter deemed to form part of this document, the information and any other information supplied by or on behalf of BHEL. BHEL accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance/use of any statements/information contained in this document by the Bidder. BHEL is not making any representation or warranty, express or implied, as to the accuracy or completeness of any information/statements made in this document.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by BHEL or any other costs incurred in connection with or relating to its bid. All such costs and expenses will remain with the Bidder and BHEL shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Bidder in preparation or submission of the bid, regardless of the conduct or outcome of the tender.



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**CONTENTS**

<b>SI No</b>	<b>Section</b>	<b>Title</b>
1	SECTION – 1	GENERAL & PREQUALIFICATION REQUIREMENT (PQR)
2	SECTION – 2	INSTRUCTIONS TO BIDDERS (GENERAL TERMS AND CONDITIONS)
3	SECTION – 3	TECHNICAL SPECIFICATIONS AND SCOPE OF WORK
4	SECTION – 4	DELIVERY SCHEDULE OF DESIGN DOCUMENTS
5	SECTION – 5	PRICE BID FORMAT AND PRICE BID EVALUATION CRITERIA
6	SECTION – 6	INTEGRITY PACT FORMAT
7	SECTION – 7	NON-DISCLOSURE AGREEMENT



## **SECTION – 1**

### **GENERAL REQUIREMENT**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

## **1.0 ABOUT BHEL**

Bharat Heavy Electricals Limited (BHEL) is a Central Public Sector Enterprise, wherein Government of India is holding 63.06% of its equity. It is an integrated power plant equipment manufacturer and one of the largest engineering and manufacturing companies of its kind in India having a turnover of about USD ~3 billion. The company is engaged in the design, engineering, manufacture, construction, testing, commissioning and servicing of a wide range of products and services for the core sectors of the economy, viz. Power, Transmission, Industry, Transportation, Renewable Energy, Oil & Gas and aerospace & Defense with over 180 product offerings to meet the needs of these sectors.

Since its inception in 1964, BHEL has been the solid bedrock of evolution of India's Heavy Electrical Equipment industry. BHEL has a mammoth 20,000 MW per annum capability for manufacturing of power generation equipment. A widespread network of 16 manufacturing units, 2 repair units, 4 regional offices, 8 service centers, 4 overseas offices, 15 regional marketing centers corroborates the humongous scale and size of its operations. BHEL has extensive steel and aluminum fabrication facilities.

BHEL also has extensive experience in executing EPC projects in power plants and other industrial sectors. BHEL supplied equipment account for 60% of India's power generation, with an global installed capacity base of 185 GW (coal, lignite, nuclear, solar, hydro). BHEL has also served several overseas customers, with a global footprint in over 83 countries.

The high level of quality & reliability of BHEL products is a testimony to its adherence to international standards by acquiring and adapting some of the best technologies from leading companies in the world including General Electric, Siemens AG, Mitsubishi Heavy Industries Ltd. etc., together with technologies developed in its own R&D centers. BHEL invests more than 2.5% of turnover on R&D and innovation.

### **Experience of BHEL in Rigs Business :**

At present, Oil rig equipment are being manufactured at two manufacturing facilities of BHEL situated at Hyderabad & Bhopal wherein mechanical equipment & fabrication work is carried out by Hyderabad and electrical equipment including motors & generators are manufactured at Bhopal. Complete assembly and testing of Oil Rig is carried out at the Rig-up yard facility at BHEL Hyderabad.

BHEL has established itself as an Original Equipment Manufacturer that designs, manufactures and services various types of AC SCR & AC VFD onshore Oil drilling rigs, mobile rigs and work over rigs. For over 3 decades, BHEL has supplied over 90 Oil rigs and has carried out refurbishment and up gradation of more than 40 rigs so far. Key offerings of BHEL include Onshore deep drilling rigs up to a depth of 9000 meters, Mobile rigs up to a depth of 3000 meters, Work-over rigs up to a well –depth of 6100 meters, Onshore drilling rig equipment like draw-works, rotary-table, travelling blocks, swivel, mast & substructure, mud-systems and rig electrics (SCR house, MCC house, cable interconnection package, DG Sets etc).

**More details about the entire range of BHEL's products and operations can be obtained by visiting our web site [www.bhel.com](http://www.bhel.com).**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**2.0 PURPOSE**

- 2.1 This tender is issued specifically to address carrier and carrier mounted equipment requirement for 7 No's 125 MT Workover Rigs tender # SDG8584P25/09. from M/S Oil India Limited.
- 2.2 BHEL intends to offer complete workover rig package to M/s OIL, by **sourcing** of design of 125 MT Workover Rig carrier and carrier mounted equipment against this tender or as suited to BHEL.
- 2.3 The intent of this Tender is to invite applications from interested organizations/ companies who are willing to work with BHEL as per the broad scope indicated in **Annexure-1** and detailed technical specifications (Refer Section-3) of 125 MT workover Rig.
- 2.4 Bidder(s) shall submit their bids in three parts i.e. Part-I (Documentation for Prequalification), Part-II (Techno-commercial bid) & Part-III (Price bid) within the due date for bid submission.
- 2.5 BHEL shall evaluate PQC (as per cl.no.4.0) & Techno-commercial offers and may seek further clarifications on the bids submitted. After final evaluation of Part-I PQC & Part-II Techno-commercial bids, Part-III Price bids of those bidders who qualifies for Part-I & Part-II shall only be opened for evaluation of L1 Bidder.
- 2.6 BHEL shall enter into MoU / agreement valid for a period of 2 (Two) Years-with the finally selected party (L1 bidder). MoU / agreement shall be limited to the requirement of M/S OIL for 7 numbers of workover rig package, for which this tender is being issued. Validity of MoU may be extended beyond 2 (Two) Years-with mutual agreement.

**3.0 GENERAL INSTRUCTION TO BIDDERS:**

- 3.1 Bidders to prepare and submit the bids as per procedure given in Section-2 (ITB).
- 3.2 The details submitted by the bidders(s) shall be complete in all respects and BHEL may seek clarifications/additional information as considered necessary. Such clarifications / additional information must be provided within 3 days of BHEL request.
- 3.3 Any request for further information or clarification on the tender document may be submitted within 3 days from date of issue of tender.
- 3.4 Responses to tender are to be submitted in English only. Supporting documents, as required, should also be in English language. In case of some documents being available in languages other than English, the bidder shall necessarily provide duly authenticated translated version of the same in English.
- 3.5 Duly authorized representative of the bidder(s) shall sign on each page of the bid document.
- 3.6 Notwithstanding anything contained in this tender document, BHEL reserves the right to accept or reject any bid and to annul the tender Process in whole or part, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.
- 3.7 BHEL reserves the right to verify all statements, information and documents submitted by the Bidder in response to the tender. Any such verification or lack of such verification by BHEL shall not relieve the Bidder of his obligations or liabilities hereunder nor will it affect any rights of BHEL.
- 3.8 Bidders banned by BHEL & OIL are requested not to submit bids as their bids shall not be considered for evaluation. Also, bids from the bidders who takes the products/services of such banned firms shall not be considered for evaluation. Lists of such banned firms is available on BHEL & OIL web sites
- 3.9 All costs incurred for participation in the tender shall be borne by the respective Bidder.
- 3.10 Within 30 days of signing of MoU with pre-bid partner, 1% of the value of MoU shall be taken from the Pre-bid partner as bid bond in the form of Bank Guarantee or security deposit etc.



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

- 3.11 BHEL shall place PO on the successful bidder after entering into MoU and receipt of order / contract from M/S OIL.
- 3.12 Additional information to be provided by Bidder for establishing bidder's experience as per Format given in **Annexure-3A** Bidder to ensure to submit this information with Part-1 bid.
- 3.13 Bidder will provide name and contact information of respective personal/s to BHEL (upon request) for documents verification requirement.
- 3.14 Bidder shall provide following necessary information (as required for BHEL to furnish Bid to OIL) along with technical bid (Part-2)
  - i. Tentative General Assembly drawings,
  - ii. Technical specifications/catalogs of the proposed design of carrier and carrier mounted equipment
  - iii. List of Exception items (refer to Section 3.3) along with dimensions and weight.
- 3.15 Bidder may submit their application as per **Annexure -2** (along with supporting documents for Bid Part-I, Part-II & Part-3) by Post/Email at the following address:

**The Purchase Officer / CMM  
Vendor Complex  
Purchase Co-Ordination Cell  
Bharat Heavy Electricals Limited  
R.C.Puram, Hyderabad Pincode – 502032 India.**

**Email: Part-1: [technicalbid\\_hyd@bhel.in](mailto:technicalbid_hyd@bhel.in)  
Part-2: [technicalbid\\_hyd@bhel.in](mailto:technicalbid_hyd@bhel.in)  
Part-3: [pricebid\\_hyd@bhel.in](mailto:pricebid_hyd@bhel.in)  
Phone: +91 40 23185290 (office), +91 9490746965 (mobile)**

#### **4.0 Pre-Qualifying Criteria (PQR):**

The prospective pre-bid partner must meet all the following pre-qualification requirement (PQR) supported with relevant documents/ credentials/ certificates for further consideration.

#### **Financial :**

- 4.1 Applicant must meet following financial parameters:
  - 4.1.1 Bidder shall have average turnover more than 5 Crores based on latest audited accounts for the three consecutive financial years ending on 31st March (for financial years 2021-22, 2022-23, 2023-24) or 31st Dec (for financial years 2022,2023, 2024) as applicable for the Bidder
  - 4.1.2 Net worth (Paid up share capital + Reserves) shall be positive based on latest audited accounts / Balance sheet as on date of opening of PART BID-I

(The bidder to submit last three year's balance sheet/D&B report including the profit and loss statement duly audited by a Chartered Accountant or equivalent in the respective countries)



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

4.2 Technical : Bidder to meet either 4.2.A) or 4.2.B)

4.2.A) Bidder quoting as OEM

Bidder must be an Original Equipment Manufacturer (OEM) for Carrier and Carrier mounted equipment meant for 125MT Mobile Rig package. Bidder must have manufactured and supplied at least 1 no. of Carrier and Carrier mounted equipment package in last 10 (Ten) years (10 years' period as stated shall be reckoned from the date of opening of PART BID-1) to exploration and Production companies/ service providers.

Applicant's Response (meeting the above criteria): Yes/ No.

Supporting document attached: Yes/ No

Documentary evidence in respect of the above should be submitted in the form of copies of relevant Contract(s) / Purchase Order(s) along with copies of any of the following documents in respect of satisfactory execution of each of those Contract(s) / Purchase Order(s) failing which the bids will be rejected:

- (i) Signed and sealed Satisfactory supply / completion report (in original letter head of the user) (OR)
- (ii) Bill of Lading (OR)
- (iii) Consignee delivery receipt / challan (OR)
- (iv) Central Excise Gate Pass/Tax Invoice issued under relevant rules of Central Excise/Vat/GST (OR)
- (v) Commercial Invoice/ Payment Invoice

**(OR)**

4.2.B) Bidder quoting as Designer

Bidder should be a designer of Carrier and Carrier mounted equipment. Minimum 1 no. of Carrier and Carrier mounted equipment package must have been manufactured with Bidder's design in last 10 (Fifteen) years and supplied to exploration and Production companies/ service providers.

Applicant's Response (meeting the above criteria): Yes/ No.

Supporting document attached: Yes/ No

Documentary evidence in respect of the above should be submitted in the form of copies of relevant Contract(s) / Purchase Order(s) along with copies of any of the following documents in respect of satisfactory execution of each of those Contract(s) / Purchase Order(s) failing which the bids will be rejected:

- (i) Signed and sealed Satisfactory supply / completion report (in original letter head of the user) (OR)
- (ii) Bill of Lading (OR)
- (iii) Consignee delivery receipt / challan (OR)
- (iv) Central Excise Gate Pass/Tax Invoice issued under relevant rules of Central Excise/Vat/GST (OR)
- (v) Commercial Invoice/ Payment Invoice





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**5.0 Undertakings to be submitted along with Bid Part-1**

Bidder must furnish the following undertakings:

- 5.1** Bidder shall provide complete design package of Carrier & Carrier mounted equipment meant for 125T WOR over rig to be manufactured at BHEL works in India.
- 5.2** Bidder shall provide supervisory support during manufacturing, assembling, Testing, installation and commissioning of first and second Work Over rig at BHEL.
- 5.3** Bidder must submit an undertaking for uninterrupted supply of spares and availability of services for at least 15 years from the date of supply of total package.
- 5.4** Bidder shall provide support in training for Operation & Maintenance personnel as per the scope of work defined in the tender.
- 5.5** Bidder must categorically confirm in their technical bid that the complete design package for Carrier and Carrier mounted equipment shall be given to BHEL progressively within 4 months from the date of LOI and schedule of activities shall be provided within 14 days from date of LOA/PO.

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**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**Annexure-1**

**BIDDER'S BROAD SCOPE (REFER SECTION – 3.1 FOR TECHNICAL DETAILS)**

**Broad Scope of Supply & services to be provided by Pre-bid Partner :**

1. Design Documentation of 125T Work Over Rig carrier and carrier mounted equipment
2. Supervisory support during Manufacturing, assembly, Rig-up, Testing, Dismantling, and Maintenance for **3 no's Rigs**. & training of OIL/BHEL personnel in Operation & Maintenance, acquaintance at BHEL/OIL drill site aimed at understanding the intricacies of operation & trouble shooting.

**Supply of Design and Documentation of 125 MT workover rig carrier**

1. Supply of Design documentation for 125 MT workover rig carrier and carrier mounted equipment but not limited to the following.
  - a. Carrier chassis/under chassis and driver's cabin
  - b. Location of various controls inside driller's cabin listed as per this tender specification
  - c. GA drawing of various equipment mounted on carrier as per this tender specification including total length, width and height of carrier with/without mast.
  - d. Loading diagram of Chassis with axles location.
  - e. Pneumatic circuit diagram of all the pneumatic equipment like clutches(Drawworks and Rotary), Engine pneumatic starting, Emergency start-stop etc., as per tender document- mounted on the carrier
  - f. Hydraulic circuit diagram of all the hydraulic equipment like hydraulic pump, mast raising & telescoping, make up and breakout catworks cylinders, mast raising cylinders, hydraulic winch, Hydraulic Tubing tong etc., as per tender document- mounted on the carrier
  - g. Power flow diagram i.e., diagram showing power flow from Engine and transmission to various equipment like Drawworks/Rotary table/wheels in road mode as well as well mode.
2. Supply of Design calculations including calculations of all critical equipment like, Cat Engine Power calculations, (Dural Engine system), Allison Transmission system, Drawworks, design of gear boxes, PTO's, compound gear boxes, brakes, clutches.
3. Supply of Complete Manufacturing drawings and/or procurement specifications of all the equipment mounted on the carrier/under carrier including Chassis, Driver's cabin, Drawworks assembly complete with Braking system, Brake cooling system, Gear boxes, PTO's, Pneumatic tanks/Hydraulic tanks/Gear shifter mechanisms for road and well mode/ Rotary Elevated drive(upper and Lower) with Clutch system to the Rotary table in **Auto CAD** with detailed Bill of Material (**in Metric system**).
4. Supply of Purchase specification for components or subassemblies to be outsourced.
5. Supply of Raw Material Purchase Specifications
6. Supply of Assembly drawings
7. Supply of O&M Manuals of all major equipments
8. Supply of other information pertaining to this tender , as required by BHEL for carrying out manufacture, meeting end customer requirements for the subject tender of 125 MT workover rig.

**Notes:**

- i) Vendor to design the carrier chassis, Under carrier, carrier mounted equipment and other accessories preferably with steel profiles and grades readily available in India.
- ii) Vendor to provide details of all the Bought out items(BOI's) used in subject tender.
- iii) Documentation to include design calculation, sizing and equipment selection etc.
- iv) Output documents to include drawings in AutoCAD format with detailed BOM, 3D model of total structure if applicable
- v) The offered design of carrier and carrier mounted equipment shall comply with MORTH rules and regulations as the carrier shall fall under CEV vehicles
- vi) Bidder shall mention Carrier model and number along with bid



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**Annexure-2**

**Information to be submitted by Bidder with Part-I bid**

1. Name of the Company/Bidder:
2. Legal status of the Company: Public/Private/Incorporated/Govt./ etc
3. Brief description of the Company including details of its business groups/subsidiaries/ affiliates:
4. Date of Incorporation:
5. Date of Commencement of Business:
6. Full address including Telephone nos. / Fax nos.: Registered  
Office:

Head Office:

Address for communication: Contact

Details:

Office Address in India, if any:

(Sign & Company Seal)

Authorized signatory



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**ANNEXURE-3A**

**Format for supply experience**

Sl. No.	BEC/BRC Clause No.	Name of Offered Equipment (As applicable)				Past Supply Experience						Proof of execution				Remarks/ Additional details	
		Carrier and Carrier mounted equipment package for 125 MT workover rig	Make - Name & Address of Manufacturer	Technical Specification - (Capacity/ Size/Features etc.)	File/doc ref, page no etc. in the bid.	Customer Name & Address	Category of Customer (E&P Co./Drilling Contractor/ Drilling Rig Package Integrator/ Drilling Service Provider to OIL & Gas Industry)	Contract/ PO / MOU No. etc.	Date	Item Quantity	File/doc ref, page no etc. in the bid.	Reference no of End user certificate / Bill of Lading/ Consignee delivery receipt or challan/ Central Excise Gate Pass/Tax Invoice/ Commercial Invoice/ Payment Invoice	Date	Item Quantity	File/doc ref, page no. etc. in the bid.	Description	File/doc ref, page no etc. in the bid.

**Authorised Person's Signature: \_**  
**Name:** \_\_\_\_\_  
**Company:** \_\_\_\_\_  
**Date:** \_\_\_\_\_

Note: Originals of documentary evidence are to be produced for verification on demand



## **SECTION – 2**

### **INSTRUCTION TO BIDDERS (GENERAL TERMS & CONDITIONS)**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

( Attachment to Enquiry No. .... Due on Date ..... For submission by 11.00 hrs to open from 14.00 hrs.)

**INSTRUCTIONS TO BIDDER (ITB)**

**NOTE: Bidder to confirm in affirmative by typing "YES" or "Applicable Data" in the response column. Deviations , if any shall be recorded in deviations/comments column (Separate sheet can be attached if needed). Non deviatable clauses are indicated as "NON DEVIATABLE".**

Sl. No.	DETAILED TERMS & CONDITIONS	VEND OR RESP ONSE (YES/ NO)	DEVIATIONS / COMMENT
<b>1</b>	<b>SCOPE OF SUPPLY:</b>		
	<p>Signed &amp; Sealed offers are invited for the Scope of Supply of <b>Services</b> as detailed in the enquiry. Relevant enclosures/supporting documents / catalogue, if any shall be enclosed to the technical offer. Bidder can also submit offer through email at their own risk. The offer is to be submitted in three parts bidding system. Part-1 bid for Qualification of bidders to be submitted to mail ID <a href="mailto:technicalbid_hyd@bhel.in">technicalbid_hyd@bhel.in</a>, Part-2 bid for Techno-commercial offer to be submitted to mail ID <a href="mailto:technicalbid_hyd@bhel.in">technicalbid_hyd@bhel.in</a>, and part -3 ,price bid to be submitted to mail ID <a href="mailto:pricebid_hyd@bhel.in">pricebid_hyd@bhel.in</a> as an attachment only. Interchanging the information in the mails may lead to rejection of the offer. Supplier shall have no claim on e-mail offers sent on any other e-mail ID.</p> <p>In case of e-mail offers, the mail subject should contain Enquiry No. Due date and Supplier name, Supplier address including contact details shall be mentioned in the content of the mail. Without these details offer is liable for rejection.</p>		
<b>2</b>	<b>GENERAL INSTRUCTIONS:</b>		
A	The quotation should be neatly typed and free from over writing/ erasures. Any correction or addition must be authenticated. The offer including annexures and brochures should be submitted in English /Hindi. All Pages of Techno Commercial Bids (Main Pages), ITB should be signed and Stamped. If there is a conflict in case of bilingual submission, the submission in English will be final.		<b>Non Deviatable</b>
B	Bidders to please note that the Terms & conditions contained in this document and Special conditions, if any, are to be read fully before submission of quotations.		<b>Non Deviatable</b>
C	Vendors are advised to comply with specific conditions of the enquiry, Should there be any deviations (where deviations are permitted), it shall be entered in the deviation column. BHEL reserves the right to reject such offers or load the bid suitably for evaluation.		<b>Non Deviatable</b>



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

D	<p>Offers shall be submitted directly, only by the Original Equipment Manufacture/Designer or by their authorized representative and the offer should be in line with the regulatory guidelines (i.e A valid Agency agreement between principal vendor and agent / representative shall be attached and the agreement shall cover the scope of services rendered by Agent, Agency Commission and any other information called for as per the regulatory guidelines). OEM / Mill details shall be provided if supplier is not a manufacturer.</p> <p>Bid envelopes shall bear the name of Supplier. In case of submission through authorized representative/agent, the name of representative/agent should also be mentioned apart from supplier name.</p>		<b>Non Deviatable</b>
E	<p>Offer received after the specified time and date of submission shall be rejected. No further correspondence shall be entertained.</p>		<b>Non Deviatable</b>
3	<b>OTHER PARTICULARS (Please indicate applicable data)</b>		
A	<p>Name of the Bid currency (freely tradable foreign currency for imports and Indian Rupees for indigenous purchase).</p>		
4	<b>BID SUBMISSION PROCEDURE:</b>		
A	<b>For Three-Part Bids :</b>		
i	<p>Three part bid consisting of</p> <p>i) Pre-Qualification bid (PQR) – ( Part-1), with all relevant documents for qualification of bidder &amp; shall be kept in a separate sealed cover super subscribing Enquiry no. (PQR Bid Part-1) &amp; due date.</p> <p>ii) Techno-commercial Bid – ( Part-2), with all technical specification &amp; scope including bill of material etc., and unpriced bid with all applicable Commercial Terms and Conditions, rates of agency commission , duties, taxes and other charges, <u>except The price.</u> super subscribing enquiry No. (Techno-Commercial Bid Part-2) and due date Signed and Stamped ITB and special conditions of contract, if any is required to be attached along with Techno-commercial Bid – (Part-2)</p> <p>iii) Price Bid (Part-3), containing ONLY the price (including agency commission, if any) and the applicable duties/taxes/other charges shall be kept in a separate sealed cover super subscribing Enquiry no. (Price bid Part-3) &amp; due date.</p> <p>All these covers shall be kept in a fourth cover super subscribing Enquiry no. &amp; due date.</p> <p>All techno commercial terms &amp; conditions mutually agreed prior to price bid opening shall prevail and supersede any terms and conditions specified otherwise in price bid.</p>		<b>Non Deviatable</b>



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

ii	Part-1 PQR Bid and Techno commercial bids (Part-2 bid) will be opened on the assigned date. Techno commercial bids (Part-2 bid) of those vendors only who are qualified in Part-1 (PQR bid) will be evaluated. Price bid (Part-3 bid) of those vendors only who are qualified in Part-1 & 2 bids will be opened later on a specified date.		<b>Non Deviatable</b>
iii	The bidders whose Part-1 / Part-2 bids are not accepted will be informed.		
Iv	Bidders will be allowed to submit the impact on their quoted prices due to changes in technical scope, specifications, and commercial terms/conditions as specified in NIT which in the opinion of BHEL warrant changes in prices.		<b>Non Deviatable</b>
v	Bids shall be opened in camera on due time and date. No representative of bidder shall be permitted to attend the bid opening.		<b>Non Deviatable</b>
<b>5</b>	<b>Delivery Instructions</b>		
A	Indigenous Purchase		
	Goods shall be delivered on FOR BHEL	<b>FOR INDIGENOUS BIDDERS</b>	
B.	Imports		
	The goods shall be delivered on FOR BHEL basis		
<b>6</b>	<b>Documentation:</b>		
<b>A</b>	<b>Indigenous Purchase</b>		
	Following documents shall be submitted immediately on dispatch of Drawings/Design Documentation to BHEL :  a. Original Tax Invoice (Refer ITB clause no 10 for Tax Compliance)	<b>FOR INDIGENOUS BIDDERS</b>	<b>Non Deviatable</b>





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

B	<b>Imports:</b>	FOR FOREIGN BIDDERS	Non Deviatable
7	<b>Delivery Schedule</b>		
	<p>Refer <b>Section-4</b> of tender document for detailed delivery schedule expected by BHEL from bidder.</p> <p>BHEL reserves the right to reject the material, if not delivered by scheduled Purchase Order Delivery Date.</p>		
8	<b>Pricing Terms</b>		
	Prices once quoted shall remain firm and valid during the execution of PO / MoU. Offers with PVC will be rejected outright.		<b>Non Deviatable</b>
9	<b>PRICE VALIDITY :</b>		



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	Unless otherwise specified, offer shall be valid for a period of 180 days from the date of Part - 1 bid opening date for entering into MOU / Pre-bid tie-up. Rates in the MOU / Pre-bid tie-up shall remain unchanged till the validity of MOU or the delivery of last equipment as per PO placed by BHEL within validity period of MOU.		
<b>10</b>	<b>Taxes &amp; Duties (RATE TO BE INDICATED by the bidder against the space provided )</b>		
<b>A</b>	<b>Indigenous Purchase</b>		
	<p>i) Only valid GST registered bidders will be considered for the tender. The GSTIN of the bidder should be clearly mentioned in the offer.</p> <p>ii) If bidder is exempted from GST registration under any provision of the GST Law, a declaration with due supporting documents should be furnished for considering the offer.</p> <p>iii) Bidder to quote the applicable taxes in the following manner: - Services Accounting Code(SAC) of Services. - IGST/CGST/SGST/UTGST: Rate of Tax to be quoted as extra in % against the space provided</p> <p>iv) Bidders to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter / Intra state movement of goods/services.</p> <p>v) In case Bidder has opted for GST Composition Scheme, the same may be stated explicitly both in their technical and price bids. An undertaking to the effect that any change in the status of the bidder will be intimated.</p> <p>vi) Any other taxes &amp; duties not covered anywhere above may be indicated separately.</p> <p><b>Taxes deducted at source:</b> - TDS as per the extant statutes shall be deducted. - In case bidder does not provide PAN details, higher rate of tax shall be deducted as per the Act. - Concessional certificates, if any, should be provided well in time for lower deduction of tax</p>		



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**Terms & Conditions to be complied**

1. All invoices (incl. Credit Notes, Debit Notes) to contain BHEL HPEP GSTIN ie 36AAACB4146P1ZG. Invoices submitted should be in the format as specified under GST Law. All details as mentioned in Invoice Rules including Dealer GST registration number (GSTIN), invoice number with date of issue, quantity, rate, value, taxes with nomenclature – CGST, SGST, UGST, IGST mentioned separately, HSN Code / SAC Code etc.
2. Reimbursement of GST amount will be made only upon completion of the following:
  - i. Bidder declaring such invoice in their GSTR-1 Return/ IFF
  - ii. Receipt of Goods or Services and Submission of Tax invoice by BHEL
  - iii. The tax invoice is reflected in the GSTR2B of BHEL, HPEP (buyer). Payment of GST will be made only if it is matching with data uploaded by the Bidder in GST portal.
3. In case of discrepancy in the data uploaded by the bidder in the GSTN portal vis-a-vis the tax invoice or in case of any shortages or rejection in the supply, then BHEL will not be able to avail the tax credit. The same would be available in PRADAN Portal for the bidder's information. Bidder has to rectify the data discrepancy in the GSTN portal or issue credit note or debit note (details also to be uploaded in GSTN portal) for the shortages or rejections in the supplies or additional claims for processing of such invoices.
4. In cases where invoice details have been uploaded by the bidder but failed to remit the GST amount to GST Department within stipulated time, then GST on the invoices in default will be recovered from the bidder along with the applicable interest.
5. In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, such GST amount will be recoverable from bidder along with interest levied/leviable on BHEL.
6. GST TDS deducted as per GST Act, is uploaded in GSTN portal along GSTR7. Bidders can directly download the GST TDS Certificate from the GSTN Portal.
7. Bidders to note that Rules & Regulations pertaining to E-way bill system are to be strictly adhered to, as and when notified by Govt. authorities.
8. Vendors who fall under the E-Invoice regulations, i.e., having an annual turnover of Rs. 10 crores (Rs 5 crore w.e.f 01.08.2023) in the previous year shall issue e-invoice in line with Rule 48(4) of CGST Rules failing which GST amount will not be reimbursed to the vendor even if the other requirements are fulfilled.
9. In case the vendor is exempted by the GST department under the Rule 48(4) of CGST Rules from issuing E-invoice, a declaration as prescribed in the Notification 17/2022 - Central Tax dated 01-08-2022 shall be provided on the invoice.
10. Vendors who do not fall under the E-Invoice regulations, i.e., whose annual turnover is less than Rs. 10 crores (Rs 5 crore w.e.f 01.08.2023) in the previous year have to give an undertaking indemnifying BHEL that the vendor is not falling under the E-invoice requirement category and that in case of any breach of this E-invoicing requirement, the vendor indemnifies BHEL of any consequences that may arise due to such a breach.
11. No GST shall be levied on liquidated damages / penalty.

**B. Foreign Purchase ( Imports )**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>The offered price shall be inclusive of all the Taxes and duties as applicable in country of export / country of dispatch for the quoted price.</p> <p>Taxes deducted at source:</p> <p>a. In case of goods or services subject to Income tax in India, such tax as per the extant statute shall be recovered.</p> <p>b. In case bidder does not provide necessary documents for beneficial taxation (Refer clause 7- B-(ix) a-c of ITB), the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.</p>
11	<p><b>Payment Terms: Unless otherwise specified in Special Conditions, following shall be the terms of Payment.</b></p>
A	<p><b>1) For Design Documentation Charges:</b>  <b>80%</b> Payment shall be made within 90 days on submission of completion certificate from BHEL Design Team.  <b>20%</b> shall be made within 30 days of completion of Design validation</p> <p><b>2) For Supervision &amp; Training Charges:</b>  <b>100%</b> Payment shall be made within 90 days on submission of "Work Completion Certificate" from BHEL.</p>
C	<p><b>For MSEs</b> (covered under MSME Act) which are registered and periodically renewed with BHEL, this period will be 45 days* as prescribed in the relevant act. <u>MSE benefits are not applicable to Traders/Wholesalers registered as MSEs.</u></p> <p><b>Adherence to the above time schedule of payment is contingent upon Vendor complying with GST provisions and availing of Input Tax Credit by BHEL before the date of payment.</b></p> <p>*The taxes and duties that are reimbursed would be the ones applicable as on the contractual Purchase Order delivery date or the amount actually paid whichever is less.</p> <p><b>In case GST credit is delayed/ denied to BHEL, due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST Law for availing such ITC, or any other reason not attributable to BHEL, GST amount shall be recoverable from Vendor along with interest levied/ leviable on BHEL.</b></p>
D	<p>No advance payment is acceptable.</p>
E	<p>Conditions for both Indigenous &amp; Foreign Bidders:</p> <p>i) In case Bidders insist for lesser Credit period and BHEL accepts, a loading of 0.60% for every 15 days reduction will be applicable.</p> <p>ii) Payment does not imply in any respect whatsoever a waiver of Buyer's right to performance of the Order. Buyer is entitled to set off claimable debts against claimable liabilities with the bidder by means of a setoff Note.</p>



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

12	<b>Penalty clause:</b> Penalty shall be 0.5% of the total order value per week of delay or part thereof, subject a maximum of 7.5% of the total order value on agreed schedule/milestones for completion of Transmittal of Design documentation as per Delivery schedule at Section-4.		
<b>NOTE: Deviations (Commercial as well as Technical) from the tender specifications and conditions are generally not acceptable. However, deviation if any, shall be brought out clearly with proper justification in the offer. The deviation, if considered by BHEL, shall be loaded for comparison, while evaluating the offer. If a bidder unconditionally withdraws any deviation before price bid opening, the same shall not be loaded. Loading criteria in respect of major commercial conditions where deviations if any are accepted shall be as per clause No.13.</b>			
13	<b>Price Bid Evaluation and Loading Criteria : (Refer Section-5 of tender document for Price bid format &amp; other details) :</b>		
A	Evaluation of prices shall be done for complete package (Design documentation & Supervisory support services). Evaluation shall be on the basis of delivered cost, w.r.t the finalized technical scope and commercial conditions (after considering incidence of applicable taxes and duties and loading). For evaluation, exchange rate (TT selling rate of State Bank of India) as on the date of bid opening (Part-1) shall be considered. If the relevant day happens to be a bank holiday, then the forex rate as on the previous bank (SBI) working day shall be taken.		
B	Deviated Payment Terms : In case BHEL considers any deviation in payment terms, the bids shall be loaded with 18% interest per annum to the extent of deviation.		
C	In case the quoted Service Charges are in foreign currency, then quoted rates shall be converted to Indian Rupees by applying SBI exchange rate (TT selling) as applicable on the date of Part-1 bid		
D	In case the quoted Service are in Indian Rupees, then quoted charges shall be directly taken for bid evaluation as per price bid format in Section 5.		
14	<b>RIGHT OF REJECTION /NON- PLACEMENT OF PO:</b> BHEL reserves the right to accept or reject any or all bid/s in full or part without assigning any reason whatsoever.		
15	<b>INTEGRITY PACT</b> Bidders shall have to enter into Integrity Pact with BHEL as per Annexure VI - for Tender value of rupees two crores and above and shall be signed by the authorized signatory along with the offer, failing which Bidder's offer will be rejected.		
16	<b>Public Procurement</b>		
16 A	<b>Make in India</b> For this Procurement, the local content to categorize a supplier as a Class I local supplier / Class II local supplier / Non-Local supplier and purchase preference to Class I local supplier, is as defined in Public Procurement (Preference to Make in India), Oct 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 NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part – II bids against this NIT. Proforma for self-certification for minimum local content and auditor's certification is given in <b>Annexure-5.</b>		



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

16 B	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 competent authority. <a href="https://www.mea.gov.in/">https://www.mea.gov.in/</a> to be referred for latest details of competent authority and exemptions. Proforma for self-certification for compliance is given in <b>Annexure-6</b>
17	ISO-9001, ISO14001 and OHSAS 18001 shall be complied
18	<p>Applicable Conditions :These General conditions of Contract for Purchase apply to all enquiries, tenders, request for quotations, orders and agreements concerning the supply of goods and the rendering of related services (hereinafter referred to as “deliverables”) to Bharat Heavy Electricals Limited, Ramachandrapuram , Hyderabad &amp; Bhopal (hereinafter referred to as “BHEL” or the Purchaser) or its projects/customers.</p> <p>Any deviations from or additions to these General conditions of contract for Purchase’ require Purchaser’s express written consent. The general terms of business or sale of the Seller shall not apply to Purchaser.</p> <p>Orders, agreements and amendments thereto shall be binding if made or confirmed by the Purchaser in writing. Only the Purchasing department of the Purchaser is authorized to issue the Purchase order or any amendment thereof.</p>
19	Prices to be quoted in figures and words both. In case of any discrepancy in value, the prices quoted in words shall be considered for evaluation and establishing L1 Status
20	Any discount / revised offer / bids submitted by a bidder on its own shall be considered, provided it is received on or before the due date and time of Part-1 bid submission. Conditional discounts shall not be considered for evaluation of tenders.
21	In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies / defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere / equivalent market price at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. Nonperformance of contract attracts penal provisions inline with BHEL’s Suspension of Business dealings.
22	Any other terms and conditions of the bidder attached / referred against the tender enquiry may not be considered.
23	Any amount payable by the consignor / supplier under any of the condition of this contract shall be liable to be adjusted against any amount payable to the consignor / supplier under any other work / contract awarded to him. This is without prejudice to any other action as may be deemed fit by BHEL.
24	The bids of the bidders who are on the banned list and also the bids of the bidders, who engage the services of the banned firms, shall be rejected. The list of firms banned by BHEL is available on BHEL web site <a href="http://www.bhel.com">www.bhel.com</a>
25	Definitions
	Throughout these conditions and in the specifications, the following terms shall have the meanings assigned to them, unless the subject matter or the context requires otherwise.



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

26 A	<p>'The Purchaser' means BHEL- Bharat Heavy Electricals Limited Hyderabad / Bhopal (A Govt. of India Undertaking) incorporated under the companies Act having its registered office at BHEL House, Siri fort, New Delhi-110049, India and shall be deemed to include its successors and assigns. It may also be referred to as BHEL.</p>
26 B	<p>The seller' means the persons, firm, company or organization on whom the Purchase order is placed and shall be deemed to include the seller's successors, representatives, heirs, executors and administrator as the case may</p>
26 C	<p>'MOU' shall mean and include the Purchase order incorporating various documents viz., tender/offer, letter of intent/acceptance, the General Conditions of contract and special conditions of contract for Purchase, specifications, inspection/quality plan, schedule of prices and quantities, drawings, if any enclosed are to be provided by the Purchaser or his authorized nominee and the samples or patterns if any to be provided under the provision of the contract.</p> <p>In case of any inconsistency or contradiction between any of the documents, the order of precedence shall be MOU, Purchase Order, LOI/LOA followed by specific conditions, special conditions of contract and general conditions of contract for commercial conditions; and specific agreement on technical conditions, special technical conditions and general technical conditions, tender/ offer.</p>
27	<p>'Parties to the contract' shall mean the seller and the purchaser as named in the main body of the Purchase Order.</p>
28	<p><b>Ordering and confirmation of order after Pre-Bid Tie up (MOU)</b></p> <p>The seller shall send the order acceptance in toto within one week from the date of LOI/Purchase order or such other period as specified/agreed by the Purchaser. Purchaser reserves the right to revoke the order placed if the order confirmation differs from the original order placed. Purchaser shall only be legally bound if agreed explicitly in writing to be in agreement with the deviation. The acceptance of deliverables or supplies by Purchaser as well as payments made in this regard shall not imply acceptance of any deviations.</p> <p>The Purchaser order will be deemed to have been accepted if no communication to the contrary is received within one week (or the time limit as specified /agreed by the Purchaser) from the date of P.O.</p> <p>Purchaser, is at liberty to send signed P.O. through electronic media such as e-mail and the receipt of which shall be treated as receipt of order.</p>
29	<p>Execution</p>
	<p>The whole contract is to be executed in the most workman like manner, substantial and approved as per the contracted terms.</p>
30	<p>Progress Report</p>
	<p>The seller shall render such report as to the progress of work and in such form as may be called for by the Purchaser from time to time. The submission and acceptance of such reports shall not prejudice the rights of the purchaser in any manner. Seller shall communicate to BHEL immediately, change of address, ownership, contact person(s), the mobile numbers and e-mail of the dealing person concerned.</p> <p>Milestones shall be periodically updated by vendor/subcontractor through PRADAN Portal (<a href="https://web.bhelhyd.co.in/mm/">https://web.bhelhyd.co.in/mm/</a> ).Non updation will adversely affect service rating of vendor performance.</p>
31	<p>Product information, Drawings and documents / Non-disclosure and Information Obligations</p>



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>Drawings, technical documents or other technical information received by one party shall not without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to third parties. All information and data contained in general product documentation, whether in electronic or any other form, are confidential and binding only to the extent that they are by reference expressly included in the contract.</p> <p>The seller shall, as per agreed date/s but not later than the date of delivery, provide free of charge any information and/or drawings which are necessary to permit the Purchaser to erect, commission, operate and maintain the product. Such information and drawings shall be supplied in the number of copies agreed upon or at least three copies of each.</p> <p>All intellectual properties, including designs, drawings and product information etc. exchanged during the formation and execution of the contract shall continue to be the property of the submitting party.</p> <p>The seller shall provide Purchaser with all information pertaining to the delivery in so far as it could be of importance to Purchaser. The seller shall not reveal confidential information to its own employees not involved with the tender/contract and its execution and delivery or to third parties, unless Purchaser has agreed to this in writing beforehand. The seller shall not be entitled to use the Purchaser's name in advertisements and other commercial publications including website without prior written permission from Purchaser.</p> <p>In the event of violation of the confidentiality as agreed, BHEL will take legal action as deemed fit. Non-disclosure agreement to be entered as per Section-7 wherever applicable.</p>
32	Inspection and Testing (Refer Section 3.4 for details)
	Design provided by Supplier shall be reviewed at BHEL, Hyderabad for sufficiency and conformity in line with latest editions of API-Q1 & API-4F.
33	Quality and Condition of the Deliverables
	The seller shall be responsible for compliance with applicable technical, safety, quality, environmental requirements and other regulations in relation with the supplied Design documentation.
34	Delivery :
	Documentation shall be delivered to BHEL through emails, FTP or any other means in soft form.
35	Late delivery Penalty
	<p>The time or period of delivery as stipulated in the schedule of delivery shall be deemed to be the essence of the contract. Should circumstances arise whereby the deadline for an agreed delivery date(s) or period(s) is expected to be exceeded, the seller shall inform Purchaser hereof without delay. If delay in delivery is caused by any of the circumstances mentioned in clause 40 (Force Majeure) or which are caused exclusively by the acts of Purchaser, the Purchaser shall extend the time for delivery by a period which is reasonable having regard to all the circumstances in the case.</p> <p>If the Seller delays beyond any agreed delivery date(s) or period(s), Purchaser shall levy penalty for such delay @ 0.5% of the total order value per week of delay or part thereof, subject to a maximum of 7.5% of the total order value on agreed delivery schedule/milestones for completion. <b>Penalty amount so determined along with applicable GST thereon shall be recovered.</b></p> <p>Imposition, recovery or settlement of this penalty shall not affect Purchaser's right to performance, compensation and termination of the agreement.</p> <p>For delay analysis, period referred in <b>Annexure-4</b> will be considered as standard time lines for various major activities.</p>





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

36	Price, invoicing and payment
	<p>The agreed prices are fixed prices in the currency as specified in the Purchase Order. Invoices shall be submitted bearing the Purchase Order number &amp; date, item number/s and supporting documents as called for in the Purchaser order.</p> <p>The direct payments (including LC/documents through Bank on collection basis), shall be made by E-payment mode and not by cheque /bank drafts except in special circumstances. Vendors shall furnish the E-payment particulars in the prescribed formats duly authenticated by their respective Bankers, If not got registered earlier with the Buyer.</p> <p><b>Invoice has to be raised quoting HSN Code of Goods or Accounting Code of Services. Invoice should mention BHEL-HPEP-HYDERABAD GSTIN: 36AAACB4146P1ZG or GSTIN of BHEL Nodal Agency as mentioned in PO.</b></p>
	<p>Indian Agency commission if payable and so specified in the Purchase order shall be paid in Indian Rupees, considering the SBI TT selling exchange rate prevailing on the date of tender opening (part 1 in case of two part bid), after successful completion of the contract.</p> <p>If so stipulated in the order, the seller shall furnish, on receipt of the Purchase Order or along with order acknowledgement, the billing break-up of prices (BBU) for approval by the purchaser in respect of the major items/components going into the equipment. This BBU is required by the Purchaser for admitting the claims of the seller if part shipments are contemplated and also to facilitate custom clearance after payment of duties in case of imports.</p> <p>In case of delay in receipt of supporting document details, consequential demurrage/wharf age /detention charges shall be to the account of the seller.</p> <p>Payment does not imply in any respect whatsoever a waiver of Purchaser's right to performance of the agreement. Purchaser is entitled to set off claimable debts against claimable liabilities with the seller by means of a setoff Note.</p>
37	Contract variations; Increase or decrease in the scope of supply
	<p>Purchaser may vary the contracted scope during execution due to exigencies of project requirement.</p> <p>If the seller is of the opinion that the variation has an effect on the agreed price or delivery period, Purchaser shall be informed of this immediately in writing along with technical details, and in the event of additional work, submit a quotation with regards to the price and period involved, as well as the effect this additional work will have on the other work to be performed by the seller. Provided, that if unit rates are available in the contract, the same shall be applied to such additional work. The seller shall not perform additional work before purchaser has issued written instructions/amendment to the purchase order to that effect. The work which the seller should have or could have anticipated in terms of delivering the service (s) and functionality (ies) as described in this agreement should be executed by the vendor without any price implication.</p>
38	Export Administration Regulations
	<p>If a delivery includes such technology and / or supply that is subjected to the export regulations the seller shall obtain due permissions, approvals, license etc.</p>
39	Cancellation / Termination of contract and risk purchase



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>Risk Purchase clause: In case bidder fails/delays to supply whole or part of the ordered items or supplies defective items or fails to fulfil any other terms and conditions given in Purchase Order/Contract, BHEL has the right to terminate the order/contract or withdraw balance scope of work/supply and make the purchase of such material / services from elsewhere at the risk and cost of the defaulted bidder.</p> <p>The bidder is liable for the additional expenditure / difference in Cost, if any, including consequential losses which BHEL may sustain by reason of risk purchase in addition to the applicable LD as per the order/contract.</p> <p>Non-performance of contract attracts penal provisions in line with BHEL guidelines for Suspension of Business Dealings (SBD).</p>
40	<b>Force Majeure</b>
	<p>The supplier shall not be considered in default if delay occurs due to causes beyond their control such as Acts of God, Natural calamities, Fire, Frost, Flood, Civil War, civil commotion, riot, Government Restrictions.</p> <p>Only those causes that have duration of more than seven days shall be considered cause of force majeure. Notification to this effect duly certified by local chamber of commerce/statutory authorities with supporting documents shall be given by the supplier to BHEL by registered letter/courier service immediately without loss of time.</p> <p>In the event of delay due to such causes the delivery schedule shall be extended for a length of time equal to the period of Force Majeure or at the option of BHEL the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of BHEL.</p> <p>In the event of such cancellation the supplier shall refund any amount advanced or paid to the supplier by BHEL and deliver back any material issued to him by BHEL and release facilities, if any provided by BHEL.</p>
41	Non-waiver of Defaults
	If any individual provision of the contract is invalid, the other provisions shall not be affected.
42	Settlement of Disputes
	Except as otherwise specifically provided in the contract, all disputes concerning questions of the facts arising under the contract, shall be decided by the Purchaser, subject to written appeal by the seller to the purchaser, whose decision shall be final.
	Any disputes of differences shall to the extent possible be settled amicably between the parties thereto, failing which the disputed issues shall be settled through arbitration.
	The seller shall continue to perform the contract, pending settlement of disputes(s).



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

43	<p><b>Arbitration &amp; conciliation clause and Interest clause :</b></p> <p>(I).Except as provided elsewhere in this contract, in case amicable settlement is not reached between the parties, 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, then, either party may, by a notice in writing to the other party refer such dispute or difference to the sole arbitration of an arbitrator appointed by head of the BHEL unit issuing the contract.</p> <p>The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties.</p> <p>Subject as aforesaid, the provisions of Arbitration and Conciliation Act 1996 (India) or statutory modifications or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under this clause, the seat of arbitration shall be at Hyderabad/Bhopal. The cost of arbitration shall be borne as per the award of the Arbitrator.</p> <p>Subject to the arbitration in terms of clause 55, the courts at Sangareddy, Telangana State / Bhopal MP state shall have exclusive jurisdiction over any matter arising out of or in connection with respective contract/Pos.</p> <p>Notwithstanding the existence or any dispute or differences and / or reference for the arbitration, the contractor shall proceed with and continue without hindrance the performance of its obligations under this contract with due diligence and expedition in a professional manner except where the contract has been terminated by either party in terms of this contract.</p> <p><b>In case of contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable:</b></p> <p>In the event of any dispute or difference relating to the interpretation and application of the provisions of the contract, such dispute or difference shall be referred by either party for arbitration to the sole arbitrator in the Department of Public Enterprises to be nominated by the secretary to the Government of India in-charge of the Department of Public Enterprises. The Arbitration and Conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law and justice, Government of India. Upon such reference the dispute shall be decided by the Law secretary or the special Secretary or Additional secretary when so authorized by the Law secretary, whose decision shall bind the parties hereto finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the arbitrator.</p> <p>(2) INTEREST CLAUSE:</p> <p><b>No interest shall be payable by BHEL on earnest money or security deposit or any money due to the contractor by BHEL.</b></p>
44	<p>Applicable Laws and jurisdiction of Courts</p> <p>This agreement shall be construed and interpreted in accordance with the laws of India and shall have exclusive jurisdiction of Sangareddy/Hyderabad courts, Telangana, India or Bhopal Courts, Madhya Pradesh, India as the case may be for respective purchase orders.</p>
45	<p>BHEL-Fraud prevention policy shall be adhered to.</p> <p>The 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 <a href="http://www.bhel.com">http://www.bhel.com</a> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.</p> <p>Fraud prevention policy and list of nodal officers is hosted on BHEL Hyderabad website <a href="http://web.bhelhyd.co.in">web.bhelhyd.co.in</a></p>



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

## **ANNEXURE – 4**

<b>Suggested Major activity timelines</b>			
<b>S.NO</b>	<b>Activity</b>	<b>Agency</b>	<b>Timeline</b>
1	PO acknowledgement	BIDDER	5 days from placement of Design PO
2	Acknowledgement of Design documentation Delivery schedule as per SECTION-4	BIDDER	15 days from placement of Design PO
3	Submission of overall GA drawing(s) of carrier and carrier mounted equipment	BIDDER	21 days from placement of Design PO
4	Approval of GA Drawing(s)	BHEL	15 days from receipt of GA drawings

Note : Above time lines to be finalized with successful bidder.



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**Annexure – 5**

**Proforma for self-certification by Supplier for minimum local content on their letter head for tender value less than Rs 10 Crore**

"We \_\_\_\_\_ (Name of Manufacturer) undertake that we meet the mandatory minimum Local Content (LC) requirement i.e. \_\_\_\_\_ (to be filled as notified in the policy) for claiming Purchase Preference linked with Local Contents under the Govt. policy against tender no. \_\_\_\_\_."

Sd/-  
Authorised Signatory with Stamp



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**Auditor's certification with respect to minimum local content on the  
letter head of Statutory Auditor for tender value above Rs.10 crore**

"We \_\_\_\_\_ the statutory auditor of M/s \_\_\_\_\_ (name of the bidder) hereby certify that M/s \_\_\_\_\_ (name of manufacturer) meet the mandatory Local Content requirements of the Goods and/or Services i.e. \_\_\_\_\_ (to be filled as notified in the policy) quoted vide offer No. \_\_\_\_\_ dated \_\_\_\_\_ against BHEL's tender No. \_\_\_\_\_ by M/s \_\_\_\_\_ (Name of the bidder)."



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**Annexure - 6**

**Proforma for self-certification by Supplier for Compliance to Clause No. 16 (B)**

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and I certify that M/s.... (Name of firm) is **not from such a country/is from such a country** (delete whichever is NOT applicable) and has been duly registered with the Competent authority (delete if NOT applicable) . I hereby certify M/s ..... fulfills all requirements in this regard and is eligible to be considered . ( where applicable , valid registration by the competent authority shall be attached )

Sd/-

Authorised Signatory with Stamp



## **SECTION – 3**

### **TECHNICAL SPECIFICATION**

#### **CONTENTS**

<b>SI No</b>	<b>Section</b>	<b>Title</b>
1	SECTION – 3.1	TECHNICAL SPECIFICATION OF 125 MT Workover rig
2	SECTION – 3.2	SUPERVISORY SUPPORT & TRAINING
3	SECTION – 3.3	ADDITIONAL NOTES
4	SECTION – 3.4	DRAWING AND DOUCMENT SUBMISSION SCHEDULE





## SECTION – 3.1

### 125 MT Workover Rig Carrier and Carrier mounted equipment

	<b>SECTION – 1: TECHNICAL SPECIFICATIONS FOR 125 MT WORKOVER RIG</b>	<b>Bidders responsibility</b>	<b>Bidders Remarks: (Confirmed/ Alternate suggested)</b>
1	<p><b>125 MT WORKOVER RIG:</b></p> <p>Single drum servicing and work over rig mounted on a self-propelled carrier, fitted with diesel engine, transmissions, draw-works, telescopic mast. The Rig shall also have substructure, drilling / handling equipment's, hydraulic, pneumatic, lighting systems etc, along-with necessary catalogues.</p> <p>a. Rig and its equipment shall be suitable for Ambient Temp. 2 degree to 45-degree centigrade, relative humidity 95% maximum &amp; altitude of 100 meter minimum.</p> <p>b. Rig engines should be above carrier deck and layout of all rig equipment should be such that there is ease of maintenance.</p>	For information and compliance for design of carrier and carrier mounted equipment.	
1.1	<p><b>MAST AND SUBSTRUCTURE: TELESCOPIC MAST IN ACCORDANCE WITH API 4F (PSL - 2) WITH API MONOGRAM</b></p>		
1.1.1	<p>Lightweight open faced four legged, two-section Telescoping Mast of efficient design having manufactured &amp; monogrammed as per API Spec 4F, latest edition (PSL - 2), with hydraulic mast tilting &amp; extending systems, self-actuating stabilizers and automatic locking device to lock the mast into its fully extended operating position; with safety chokes to assure a safe descent rate to protect the mast in the event of failure of the hydraulic system / abrupt loss of hydraulic pressure; an unobstructed line of vision to the crown block. Mast rest pad complete with supporting frames should be suitably positioned on the carrier for resting the collapsed mast during transportation. The frame should not obstruct the driver's view in any case</p>	For information of bidder	
1.1.2	<p>API rated hook load capacity of minimum 125 MT (136 ton, 275577.8 lbs) with 8 line strung and with required wind guy lines and cross guys to racking board, design &amp; construction in accordance with API 4F, latest edition (PSL – 2, SSLE2U2, SR-2 1.0) and API monogrammed. (Guy lines should be complete with heavy duty turn buckles &amp; guy posts). The Minimum Wind Load Capacity of the Mast with full set back should be 80 miles/hr (128 Km/hr) with guy lines. The guy line anchors should be designed to be placed at a radial distance of minimum 65ft and maximum 85ft distance from the well centre as per OEM guying design.</p>	For information of bidder while designing Drawworks power and capacity requirements.	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

1.1.3	<p>Mast clear height (ground to underside of crown frame) - 102 feet to 118 feet. Sub-structure clear height (ground to rotary beam) minimum 14 ft.</p> <p>Hydraulic mast tilting &amp; extending systems and automatic locking device to lock the mast into its fully extended operating position as per Rig design and should come with Audio alarm when the upper mast is fully raised and locked on the lower mast. The system shall include manually operated bleed valve for removal of entrapped air. A built-in orifice system / check-choke system shall be provided to assure a safe descent rate to protect the mast in the event of failure of the hydraulic system / abrupt loss of hydraulic pressure</p> <p>The Rigs should be equipped with minimum six (06) nos. of suitable capacity heavy-duty hydraulic levelling jacks for support in rig operating position. Each jack shall have an adjustable jackscrew with lock nuts for cantering / aligning of mast in full operational position/ complete mast up condition.</p> <p>Automatic locking system shall be provided with additional safety manual lock. This is required after telescoping of mast to full height. This added safety feature is to prevent accidental unlocking of automatic locking system.</p>	For compliance for designing Hydraulic jacks at various locations	
1.1.4	<p><b>Racking board:</b></p> <ol style="list-style-type: none"> <li>a. Automatic erecting type racking board designed to eliminate possible interference with wellhead equipment during raising &amp; lowering of mast. Racking board to be of all welded construction be provided with height adjustment having 3 different positions at approx. 16Metres, 17.5Metres &amp; 19Metres from top of sub structure to enable stacking of range – 2 tubing in doubles at sub-structure floor with capacity to rack minimum 21000 feet of 2-7/8" tubing in doubles, minimum 7500 ft of 3 ½" drill pipe in doubles and minimum 6500 ft of 4 ½" drill pipe in doubles.</li> <li>b. Pipe raft to be provided if required to stack the required length of pipes. Racking board shall be provided with folding railings, toe board &amp; safety belt.</li> <li>c. Suitable latching system to secure the tubing/Drill pipe stands with a walkway around the Racking Bord to be provided.</li> <li>d. Racking board shall automatically lower into working position as mast is telescoped up &amp; is raised into folded position as mast is telescoped down. Adjustable fingers are to be arranged for end racking only.</li> <li>e. A foldable type platform shall be provided on the on-driller side of the racking board (rested on top of the adjustable fingers) as a standing area for the top man when is not used for stacking pipes.</li> </ol>	For information of bidder	
1.1.5	<p><b>Escape device: Topman</b> Emergency Escape device (DGMS approved) &amp; Escape line is to be provided as per OMR-2017 and its subsequent guidelines/notifications issued by DGMS. This device is used to allow a worker to easily get to a safe distance on ground away from the work platform (monkey board) on the rig in emergency situation</p>	For information of bidder	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	needing evacuation. It shall include wire line, mast anchor & ground anchor. There should be safe & sufficient clear passage at Monkey board for Top Man to the escape device.		
1.1.6	Monkey Board: The railing of monkey board should get folded in the monkey board itself when the mast is lowered and should get unfolded when mast is raised. Provision for installing topman Emergency Escape device (DGMS approved) with embarkment platforms shall be provided on the both sides of the Monkey board.	For information of bidder	
1.1.7	Mast climbing ladder along with 02 (two) numbers of (DGMS approved) Safety Climb Equipment/ Free Fall Arrestor (FFA) for climbing up the mast ladder up to Crown Block starting not more than 2ft height from the derrick floor up to crown block shall be provided. Footsteps of mast ladder should be flat of minimum 2" depth. Mast should have embarking platform / access from ladder to racking board. Mast shall have an integral 'travelling block cradle' for use to secure travelling block while travelling. The mast shall be designed to withstand wind speed of minimum 80 miles/hr (69 Knots) with full pipe / setback with all guy ropes properly placed as per standard API pattern. The Structural Safety Level is to be provided by the bidder for their offered rig.	For information of bidder	
1.1.8	External Mast guying shall be provided as per API 4F, latest edition standard for specified wind velocity and full pipe / setback. One set of crown & racking board wind guide line complete with wire lines along with thimbles clips, come longs & boomers shall be provided. Also, to include internal load lines from crown to carrier. Raising, lowering, locking & telescoping controls at operators position near base section of mast with clear view during operation.	For information of bidder	
1.1.9	The mast should be designed to ensure lowering and raising of mast with substructure in work-over position at its full design height. During this process the substructure shall not obstruct the mast. Substructure shall also not interfere during movement of Rig carrier from site with mast lowered onto it, in travel position. The mast shall be provided with a nameplate having full information as required to be provided as per API 4F, latest edition (PSL - 2) in English.	For information of bidder	
1.1.10	Mast accessories: cable racks for guy lines storage on mast side. Spinning line roller guides located in mast (if) for hydraulic cat work system. One set of 2 counterweights and pulleys, one located on each side of mast for use with manual tongs installed on lower mast section must include weight buckets, guides, sheaves & wire line from buckets. The same needs to be secured to the mast. One additional sheave to be provided for rigging up Power tong / Hydraulically operated casing tong.	For information of bidder	
1.1.11	Diving board at centre of the monkey board should be foldable & have proper hinges with safety chains. It should be provided with handrails & toe board on and hinged extension (stepping board) and should be foldable along with the mast. The stepping board should be secured with chain to the diving board.	For information of bidder	
	<b>02 nos. of Hydraulic Cat works:</b> It shall be fitted on mast/floor and	Hydraulic supply for Catworks shall	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

1.1.12	<p>shall be as per the following:</p> <ol style="list-style-type: none"> <li>a. Hydraulic make up (spinning) cylinder with stroke multiplier, giving minimum 8 ft stroke providing minimum 10000 lbs (4444kg) line pull.</li> <li>b. Hydraulic break out cylinder to develop a minimum line pull of 20000 lbs (8888kg) with 4 ft stroke.</li> <li>c. Hydraulic Cat works is to be complete with all fittings, hydraulic controls, turn-back sheaves, wirelines, hoses, rollers, piping to rig hydraulic system &amp; installed on mast. Control for makeup &amp; breakout to be located at Drillers console.</li> </ol>	<p>be from Carrier hydraulic system. Same shall be considered in the design.</p>	
1.2	<p><b>CROWN BLOCK INTEGRAL WITH THE MAST, MONOGRAMMED TO API 4F, (PSL - 2):</b></p> <ol style="list-style-type: none"> <li>1. Static load capacity - minimum 125 MT (136 ton).</li> <li>2. Five (05) sheaves with crown block &amp; two (02) cat line sheaves as per API 8C. Under the crown block two (02) of sheave for winch line and one (01) no of sheave for casing power tong.</li> <li>3. Integral design shall have 8 numbers of lines to block strung up.</li> <li>4. Wire line size 1.1/8" - 500M long 6x19 construction, RH, regular, IWRC as per API 9A.</li> <li>5. The sheave bearings shall have provision of lubrication from grease jerks provided at a convenient point.</li> <li>6. Crown block platform (crown nest of minimum 0.6M width) shall be made of expanded metal and a two-rail railing of at least one metre high and toe-board of fifteen centimetres high shall be provided on all sides.</li> <li>7. Access from ladder to working platform shall be properly secured with railings and toe boards. Every ladder shall have rungs equally spaced, and the top end of each ladder section shall extend not less than one metre above the platform.</li> </ol>	<p>For information of bidder</p>	
1.3	<p><b>SUB STRUCTURE API 4F, LATEST EDITION (PSL - 2) WITH API MONOGRAM:</b></p> <ol style="list-style-type: none"> <li>1. Sub structure shall be collapsible, pin type, telescoping / parallelogram / swing type. Bracings on sub structure shall not obstruct handling, placement &amp; removal of 7 1/16" - 3 stacks BOP of Hydril / Cameron / Shaffer / WOM make.</li> <li>2. Sub structure should provide working floor area (approximately 16'x16') with detachable railings on all sides and with provision to accommodate 17-1/2" rotary table. Rotary table should be flushed with the working floor.</li> <li>3. The side railings shall have the toe boards welded (plate of 0.15meter height all around, at the bottom).</li> <li>4. Collapsible substructure shall have minimum clear working height of 14 ft below rotary beam in work-over mode, (However, height should be sufficient enough to accommodate the BOP stack along with riser nipple, considering 2 ft well head height) and the overall height of maximum 9 ft in collapsed condition for transportation.</li> <li>5. Substructure shall be rated for minimum 185 MT (203.9 ton) rotary load, minimum 90 MT (99.2 ton) set back load &amp; minimum 275 MT (303.1 ton) simultaneous load for each of the offered mobile rig package.</li> </ol>	<p>For information of bidder</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>6. Structure floor and folding wings shall be plated with 10mm thick MS chequered plate. Set back area shall be covered with 3" enforced rubber or any other material other than wood to withstand the weight.</p> <p>7. Base area of substructure shall be plated with 10mm steel plate for improved floatation.</p> <p>8. Suitable hydraulically operated mechanized system like BOP overhead handling system for easy and safe installation of Hydril / Shaffer / Cameron / WOM BOP of 7-1/16" &amp; 13 5/8". Also please note that a mechanical trolley to be provided such that the BOP can be put in such a position that the overhead trolley lifts BOP without any swing. The system should be easy to maintain, and it should be so designed that it can be transported separately as well as can be retracted within the substructure and doesn't interfere in day-to-day rig operations. There should be safe provision of horizontal and vertical movements of the BOP during mounting and dismounting without much labour. The substructure to be so designed that while placing against the well head no beam / member to foul with the standard well head. The base of the substructure should have minimum clear area of 2.85 M (length, along the outfit centre line) X 2.25 M (Wide; perpendicular to the outfit centre line). The substructure should be such that minimum 1 m clearance is there along the outfit centre line from outfit side to centre of well head/cellar. Also, substructure should have the provision such that for BOP can be inserted to the wellbore from both DS and ODS side</p>	<p>Bidder to consider BOP Hydraulic supply from the Carrier Hydraulics in the design.</p>	
<p>1.3.1</p>	<p>Substructure shall be provided with nameplate containing all information required as per API 4F, latest edition (PSL - 2) in English. Three (3) stairways with handrails, one (1) on off- Driller side to ground, one (1) on driller side from work floor to ground and one (1) on V-door side. The V-Door and catwalk should have the provision to be placed in all 3 directions except that of outfit.</p> <p>Every open-sided floor or platform 1.8 meters or more above adjacent floor or ground level where any person is allowed to work or pass be guarded by a two rail railing at least one meter high and toe board of 0.15 meter high. The platform shall be of at least 0.60 meters wide.</p> <p>Emergency slide for sliding down from Derrick- floor to ground shall be fixed with lock pins and safety pins to the Derrick-floor structure. Pins / locks required for fitting / removing during unfolding / folding of sub structure should be at safe working height level and easily accessible.</p> <p>Interlock system for BOP to be provided. i.e. When BOP is in closed position, travelling block cannot be activated.</p> <p>2 number of tong posts. i.e. Make up and break out tong post to be provided at derrick floor.</p>	<p>For information of bidder</p> <p>For compliance of bidder for design of Driller's cabin/interlock</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>Driller cabin to be provided. The Driller cabin should have clear view of drawworks, rig floor, travelling block &amp; overall field. Cabin should be equipped with AC and fan. The cabin glass should be shatter proof and protected with grills in such a way that glasses can be cleaned as and when required. Few of the cabin glasses should be sliding type.</p>	<p>system between BOP and Travelling block travel. BHEL will provide Rig floor drawing. Bidder shall provide manufacturing drawings and raw material specs of Driller's cabin. BHEL will manufacture the same</p>	
1.3.2	<p><b>V-DOOR PIPE SLIDE:</b> V-door pipe slide of steel frame, metal plated with minimum 10mm thickness. Pipeguide from catwalk level to substructure floor level should be provided. Slide unpins for transport. The pipe slide including a set of stairs with railings from sub structure floor level to ground level and its slope should be such that pipes during lowering of singles, latching of the elevator can be handled easily. To achieve this, it is suggested that the distance between centre of Rotary Table to V - Door should be minimum 3.25 meters, but safety of operating personnel is also to be ensured. Provision to be kept for placement of V-door pipe slide both along the outfit (parallel to outfit) and also to be placed perpendicular to the outfit on off-driller side. The V-Door and catwalk should have the provision to be placed in all 3 directions except that of outfit. The placement will be decided during the use of outfit depending on the availability and orientation of the well site plinth area.</p> <p><b>CATWALK/PIPE RACKS:</b> One 3'6" - 4' wide x 3' 6" high x 37' - 40' long, in two pieces, catwalk plated with minimum 10mm thickness steel plates. Minimum 3 nos. of pipe racks of 9 m each to be provided on each side. One sloping ramp at far end of catwalk with stairs to ground should also be provided. Catwalk should be equipped with spring stoppers at the other end from the V-door. Pipe racks are to be placed parallel to the outfit. This will be required to reduce the overall plinth area requirement for the outfit placement.</p>	<p>For information of bidder</p>	
1.3.3	<p><b>CARRIER RAMPS:</b> Carrier / Rig Ramp as per design - in two pieces, with tyre guides, load beams, jack supports, turnbuckles, mud boat decking of chequered plate, tie up arrangement with sub structure.</p>	<p>For information of bidder</p>	
1.3.4	<p><b>OTHER RIG COMPONENTS / ITEMS:</b></p> <ol style="list-style-type: none"> <li>1. Rig engine power cut-off (Battery cut-off) switch with identification plate shall be provided.</li> <li>2. Individual control levers of the hydraulic valve bank for control of mast hydraulic cylinders and carrier jacks shall be installed in the Rig Carrier at easily accessible location.</li> <li>3. Sufficient space should be provided on the Rig carrier for carrying out casing spool cut and slip operation.</li> <li>4 Deadline anchor for the designed line size with API 8C (PSL-2) monogram as applicable shall be suitably mounted on the Carrier</li> </ol>	<p>For information of bidder for Design of carrier and carrier controls/deadline anchor location on the carrier</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>Frame with sufficient space for its maintenance. The deadline anchor to be of suitable construction and ensure positive reliable transmission of the deadline load signal to the sensor.</p>		
<p>2</p>	<p><b>RIG CARRIER:</b></p> <p><b>“Complete unit”</b> means the Rig Carrier with Driver’s Cabin, all of the Workover Rig Equipment (as mentioned elsewhere in the tender document) fitted / mounted on the Rig Carrier &amp; its respective assemblies / subassemblies, hydraulic system with hydraulic oil etc., fuel system with diesel fuel, pneumatic system, any other system, items, components, accessories, etc. that are mounted, kept, carried along with the Rig Carrier during road drive mode <b>with Mast fitted on the Rig Carrier.</b></p> <p><b>“Complete unit without mast”</b> means the Rig Carrier with Driver’s Cabin, all of the Workover Rig Equipment (as mentioned elsewhere in this tender document) fitted / mounted on the Rig Carrier &amp; its respective assemblies / subassemblies, hydraulic system with hydraulic oil etc., fuel system with diesel fuel, pneumatic system, any other system, items, components, accessories, etc. that are mounted, kept, carried along with the Rig Carrier during road drive mode <b>but without Mast only.</b></p> <p>The Mast as a whole shall have dismantlable provision from the Rig Carrier.</p> <p>The Workover Rig Equipment &amp; its assemblies / subassemblies mentioned in the tender document shall be permanently mounted on the Rig Carrier as mentioned elsewhere in the tender document.</p> <p>In case the dimensions/weight exceeds the mentioned limits of length/ width/ height/ weight under any circumstances, suitable provision of dismantling/ folding/ collapsible of minor components like walkways, stairways, ladder as the case may be, shall be provided to meet the mentioned limits of dimensions/weight for road movement of the mobile Workover Rig.</p> <p>However, the major Workover Rig Equipment of the mobile Workover Rig and its assemblies / subassemblies, which are permanently mounted on the Rig Carrier (as mentioned elsewhere in the tender document) shall be within the above-mentioned limits of length/ width/ height/ weight.</p>	<p>For information &amp; compliance in design of various equipment on the carrier, However Mast shall be of BHEL design and built</p>	
<p>2.1</p>	<p><b>OVERALL DIMENSIONS OF COMPLETE UNIT IN ROAD DRIVE MODE:</b></p> <p>The overall dimensions of the complete unit in road drive mode shall meet the following</p> <p>Overall Width of the complete unit shall be within 3000 mm with walkways, stairways etc. in folded condition.</p> <p>The bidder shall mention the overall width of the complete unit with walkways, stairways etc. in folded condition in the technical bid.</p> <p>The portion of the width that exceeds <b>2600</b> mm on the front and rear side of the Rig Carrier shall be painted by yellow and black zebra stripes.</p> <p>The Rig Carrier shall be provided with white or amber lamps at the front and red lamps at the rear for night time driving/parking suitably.</p> <p>Overall <b>height</b> of the complete shall be within <b>4500</b> mm from ground</p>		



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>level. The bidder shall mention the overall height of the complete unit from ground level in the technical bid.</p> <p><b>Length</b> of the complete unit without Mast shall be within <b>18000</b> mm. The bidder shall mention the length of the complete unit without Mast in the technical bid.</p> <p>Overall <b>Length</b> of the complete unit shall be within <b>20000</b> mm. The bidder shall mention the overall length of the complete unit in the technical bid.</p> <p><b>Ground Clearance:</b> Ground clearance of the Rig Carrier at the Axle(s) shall not less than <b>280</b> mm. The bidder shall mention the ground clearance of the Rig Carrier at the Axle(s) in the technical bid.</p> <p>For operational convenience, the add-on equipment i.e. subsequently mounted components on the original chassis should be mounted at height preferably not less than <b>450</b> mm from ground level. It shall be bidder's/supplier's endeavour to mount subsequently fitted undercarriage components (i.e. other than originally mounted components) at maximum possible height to avoid hitting/fouling while moving on uneven roads.</p> <p>The bidder / supplier shall specifically take care so that no subsequently fitted undercarriage components (i.e. other than original chassis components) shall be mounted / fitted at a height below than <b>450 mm</b> in the portion behind the rearmost axle wheels to the end of rear overhang.</p>	<p>For strict compliance while designing carrier overall width, length and height/ carrier mounted equipment(over/under) carrier platform as applicable. Bidder shall provide GA drawing of carrier along with technical bid.</p>	
2.2	<p><b>WEIGHTS:</b></p> <p>The weight of the unit shall meet the following:  Total weight of the complete unit shall be within <b>60000 kg</b>.  Total weight of the complete unit without mast: Shall be within <b>40000 kg</b>.</p> <p>The weight of the complete unit shall be within the manufacturer's declared Gross Vehicle Weight Rating (GVWR) of the offered Rig Carrier.</p> <p>The manufacturer's declared GVWR shall not exceed the sum of gross Axle weight rating (i.e. maximum allowable gross weight on an Axle, also referred to as Axle capacity) of all the front and all the rear Axles.</p> <p><b>The bidder shall mention the following in the technical bid:</b></p> <ol style="list-style-type: none"> <li>Total weight of the complete unit.</li> <li>Total weight of the complete unit without mast.</li> <li>Manufacturer's Gross Vehicle Weight Rating (GVWR) of the Rig Carrier.</li> <li>Sum of gross Axle weight rating (i.e. maximum allowable gross weight on an Axle i.e., also referred to as Axle capacity) of all the front and all the rear Axles.</li> </ol>	<p>For strict compliance while designing carrier. Bidder shall submit all the technical documents mentioned in this clause along with bid.</p>	
2.3	<p><b>ROAD PERFORMANCE PARAMETERS:</b></p> <p>The complete unit shall meet the following:</p> <ol style="list-style-type: none"> <li>Road Speed Limit: Shall not exceed 50 Km/hour.</li> </ol> <p>The Speed Limitation function shall not affect the other performance parameters of the mobile Workover Rig unit in any manner.</p> <ol style="list-style-type: none"> <li>Gradeability of the complete unit: Shall not be less than 30%.</li> </ol>	<p>For strict compliance while designing carrier</p>	





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

2.4	<p><b>GA (GENERAL ARRANGEMENT) DRAWING:</b> The bidder shall submit GA (General Arrangement) drawing of the offered complete unit in the technical bid at least showing the following:</p> <p>a) Overall width of the complete unit in road drive mode. b) Overall height of the complete unit from ground level in road drive mode. c) Height of the complete unit without Mast. d) Length of the complete unit without Mast. e) Overall length of the complete unit. f) Show the position of all major Workover Rig Equipment mentioned in the tender &amp; their mounting on the Rig Carrier.</p>	Bidder shall submit all the technical documents mentioned in this clause along with bid	
2.5	<p><b>MAKE &amp; MODEL OF RIG CARRIER:</b></p> <p>1. The bidder shall mention the make &amp; model of Rig Carrier in their technical bid.</p> <p><b>All the Rig Carriers of the mobile Workover Rig units of above Make / Model offered by the bidder in the tender and to be supplied by the successful bidder (i.e. supplier) in future against this tender shall be identical and shall have same design in all respects. The components like Steering System, Drivelines for road drive, Axles, Brake System, Suspension System, Wheel System road mode Electrical &amp; Pneumatic Systems, road drive controls &amp; all other components/ systems used in all the Rig Carriers of the mobile Workover Rig units of above Make / Model offered by the bidder in the tender and to be supplied by the successful bidder (i.e. supplier) in future against this tender shall be identical, shall have same make &amp; model and shall have same design in all respects.</b></p>	Bidder shall mention make and model of carrier in technical bid. Bidder shall comply with the clause	
2.6	The Rig Carrier shall be self-propelled by Engine(s) suitable for both rig operation and road drive of the complete unit.	For strict compliance for bidder while designing carrier mounted equipment	
2.7	<p><b>CARRIER TRANSMISSION:</b></p> <p>The transmission [main transmission as well as transfer case (if any)] shall be suitable for both rig operation and road drive of the complete unit even through slushy oil field road, soft ground etc. and match with the engine characteristics. The main transmission shall be of multi speed with forward gears &amp; reverse gear(s) with retarder brake for road drive of the complete unit. The transmission shall be of <b>Allison</b> make meeting the mentioned tender specifications. The road drive gear shifter (forward, reverse, neutral, parking etc.) for the main transmission shall be fitted inside the Driver's cabin within easy reach of the Driver. The transmission shall be automatic without any clutch pedal.</p> <p>Transmission shifter with locking arrangement for selecting road drive mode / Work-over operations mode shall be provided at convenient operating positions. The locking arrangement is to prevent accidental engagement of road drive mode during Work-over operations and vice versa.</p>	For strict compliance for bidder while designing carrier mounted equipment	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	For complete specifications of the transmission bidder to refer <b>TORQUE CONVERTER TYPE AUTOMATIC TRANSMISSION FOR RIG CARRIER</b> of this specification		
2.8	Suitable driveline etc. for road movement of the complete unit (mobile Rig Carrier with Mast etc.) shall be provided.	For compliance for bidder while designing carrier mounted equipment	
2.9	<b>The Rig Carrier shall be so designed that it is capable for road drive of the complete unit by all the following modes:</b> (i) First set of Engine & Transmission system in operation with Second set of Engine & Transmission system as standby. (ii) Second set of Engine & Transmission system in operation with First set of Engine & Transmission system as standby. (iii) Both set of Engines & Transmission system in operation. However, only one of the above modes shall be used at a time. Moreover, irrespective of whichever mode is selected, all systems required for road drive of the complete unit shall be activated through common single road drive control system (like acceleration/throttle pedal, brake pedal, steering wheel, steering system, lightings, horn, windshield wipers etc.) to be provided inside the Driver's cabin of the Rig Carrier.	For compliance for bidder while designing carrier mounted equipment	
2.10	<b>AXLES:</b> The Rig Carrier shall be provided with adequate numbers of front axles and rear axles to take the full load of the complete unit during stationary & travelling conditions and for movement of the complete unit in difficult road condition. The Rig Carrier shall be provided with minimum of 03 (three) numbers Drive Axle (i.e. live axle powered by the Engine) at rear. The front axle(s) shall be steering axles. The load on individual axle shall be within the axle capacity of the axle. All the rear drive axles shall have differential lock facilities to be operated from Driver's cabin. All the rear drive axles shall have interaxle lock facilities to be operated from Driver's cabin. Rear drive axles shall be any of the make Rockwell /Fabco /Dana /Clark /Meritor /Sisu /Axletech /ZF /BPW /Hendrickson/Eaton. <b>The bidder shall mention/submit the following in their technical bid:</b> a. Total number of front axles of the Rig Carrier. b. Total number of front steer axles of the Rig Carrier. c. Make & model of front axles of the Rig Carrier. d. Axle capacity of each of the offered front axle. e. Estimated load on each front axle while the Rig Carrier is fitted with Mast & all other components, accessories etc. f. Total number of rear axles of the Rig Carrier. g. Total number of rear drive axles of the Rig Carrier. h. Make & model of rear axles of the Rig Carrier.	For strict compliance for bidder while designing carrier. Bidder shall provide/submit mentioned documents in this clause	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>i. Axle capacity of each of the offered rear axle of the Rig Carrier. j. Estimated load on each of rear axle while the Rig Carrier is fitted with Mast &amp; all other components, accessories etc. k. Number of steer axle at rear (if any) of the Rig Carrier. l. Bidder shall submit the complete details with technical leaflet of the offered make/model of front axles and rear axles along with the technical bid.</p>		
2.11	<p><b>LOAD DISTRIBUTION:</b> 1. The items/components/equipment as mentioned elsewhere in the tender document shall be mounted on the Rig Carrier. Bidder shall ensure proper positioning of all components / equipment on the Rig Carrier for proper distribution of load on all the Axles. Load distribution details on all axles shall be provided by the supplier along with the supply.</p>	Bidder to comply with this clause while designing carrier	
2.12	<p><b>STEERING SYSTEM:</b> 1. Hydraulic Power Assisted Steering system shall be provided and the hydraulic power assistance shall be provided on all the front steer wheels. 2. Right hand drive steering system (i.e. Steering Wheel shall be on the right-hand side of the Driver's cabin of the Rig Carrier when viewed from the rear of the Rig Carrier) shall be provided which can be operated from Driver's cabin of the Rig Carrier through Steering Wheel. 3. There shall be a single steering wheel inside Driver's cabin which shall be used for road drive of the complete unit. The steering system shall be easy to operate by 01 (one) No. of person (Driver) through steering wheel located inside the driver's cabin during road movement of the Rig Carrier along with its Mast &amp; other items. 4. The make of Steering Box(es) shall be Spicer /ZF /Sheppard/Rane /Rexroth /TRW/Eaton. 5. The make of Steering Pump(s) shall be Vickers/ Parker /Rexroth /Eaton. 6. All the requisite components like hydraulic power cylinders, hydraulic hoses etc. shall be provided as per design in the steering system. 7. The bidder shall mention/submit the following in their technical bid: a. Make of offered Steering Box(es). b. Make of Steering Pump(s).</p>	Bidder to comply with this clause while designing carrier	
2.13	<p><b>MINIMUM TURNING CIRCLE RADIUS:</b> 1. The Minimum Turning Circle Radius of the complete unit measured by the outer wheels of the Rig Carrier while making a turn at the maximum wheel turn achievable by the steering system without any alternate movement of the Rig Carrier shall not be more than <b>20000</b> mm. To meet the stipulated Minimum Turning Circle Radius of 20000 mm, steer axle(s) at rear may be provided, if necessary, as per design which is to be mentioned by the bidder in the technical bid. In case, steer axle(s) at rear is/are provided as per bidder's design, the steer axle(s) at rear shall be hydraulic power assisted.</p>	Bidder to comply with this clause while designing carrier	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	The bidder along with their technical bid shall submit the drawing showing the Minimum Turning Circle Radius of the complete unit measured by the outer wheels of the Rig Carrier while making a turn at the maximum wheel turn achievable by the steering system without any alternate movement of the Rig Carrier.		
2.14	<p><b>SUSPENSION SYSTEM:</b></p> <p><b>1. Suspension System in front Axles:</b></p> <p>a. Suitable heavy-duty Leaf Spring suspension system shall be provided at the front axles of the Rig Carrier preferably with heavy duty double acting shock absorbers. Air suspension system/ hydraulic suspension system shall not be acceptable at the front axles.</p> <p>b. The bidder shall submit the technical leaflet of the suspension system offered in front axles along with their technical bid.</p> <p><b>2. Suspension System in rear Axles:</b></p> <p>a. Preferably Walking Beam type suspension system shall be provided at the rear drive axles of the Rig Carrier. The suspension system shall be of make Hendrickson / Neway / BPW /SAF-Holland.</p> <p>b. The bidder shall mention/submit the following in their technical bid:</p> <ol style="list-style-type: none"> <li>1. Make of suspension system offered in the rear drive axles of the Rig Carrier.</li> <li>2. Technical leaflet of the suspension system offered in rear drive axles.</li> <li>3. Make of suspension system offered in the rear non-drive axles of the Rig Carrier.</li> <li>4. Technical leaflet of the suspension system offered in rear non-drive axles.</li> </ol>	Bidder to comply with this clause while designing carrier. Bidder shall provide/submit mentioned documents in this clause	
2.15	<p><b>WHEELS:</b></p> <ol style="list-style-type: none"> <li>1. Suitable wheels complete in all respects with Tube type/Tubeless type rubber tyres of adequate ply rating &amp; with suitable Rims etc. shall be provided. If possible, the Rig Carrier shall be provided with same type/size of wheels in front Axles and rear Axles.</li> <li>2. The bidder shall mention the following in their technical bid: <ol style="list-style-type: none"> <li>a. Type of Tyres (Tube type / Tubeless type) in the front Axles of the Rig Carrier.</li> <li>b. Tyre sizes of front Axles of the Rig Carrier. (Note: The bidder shall mention axle wise Tyre sizes.)</li> <li>c. Type of Tyres (Tube type / Tubeless type) in the rear Axles of the Rig Carrier.</li> <li>d. Tyre sizes of rear Axles of the Rig Carrier. (Note: The bidder shall mention axle wise Tyre sizes.)</li> <li>e. Total number of wheels in all the front Axles of the Rig Carrier.</li> <li>f. Total number of wheels in all the rear Axles of the Rig Carrier.</li> <li>g. Total number of wheels in all the Axles of the Rig Carrier.</li> </ol> </li> </ol>	Bidder to comply with this clause while designing carrier. Bidder shall provide/submit mentioned documents in this clause	
2.16	<p><b>BRAKE SYSTEM:</b></p> <p><b>1. Service Brake:</b></p> <p>Multiple Circuit Pneumatic (Air) Power Brake system acting on all wheels shall be provided. The service brake shall be foot operated from Driver's cabin of the Rig Carrier. There shall be a single service</p>	Bidder to comply with this clause while designing	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>brake pedal inside Driver's cabin which shall be used for road drive of the complete unit.</p> <p><b>2. Parking Brake:</b> Suitable Parking Brake as per design shall be provided in the Rig Carrier to be operated from Driver's cabin of the Rig Carrier. The Parking Brake shall be such that it is automatically engaged in the event of low air pressure / no air pressure. There shall be a single parking brake actuator inside Driver's cabin. All Parking Brake servos shall have manual release mechanism to release the brake manually in case of low/no air pressure for maintenance and towing the unit whenever necessary.</p> <p>3. The Brake System shall have ABS (anti-lock brake system). 4. All brake system of the wheels shall preferably have dust cover. 5. All suitable components such as brake valves, piping/tubing, etc. for completing the braking system shall be provided for braking of the complete unit during road drive. 6. The brake system valves shall be of make Bendix / Wabco / Rexroth / Meritor. 7. All brake valves/components, piping/tubing, etc. in the Rig Carrier shall be positioned at easy access locations. 8. Air tanks of braking system shall preferably have Drain Plugs. 9. Suitable tyre inflation valve with air pressure gauge &amp; all mechanism shall be provided to draw air from the pneumatic system of the Rig Carrier.</p>	<p>carrier</p> <p>Bidder to comply with this clause while designing carrier</p>	
2.17	<p><b>DRIVER'S CABIN:</b></p> <p>1. Robust built comfortable full-width Driver's cabin of steel construction shall be provided in the Rig Carrier. Driver's Cabin shall be at the foremost part of the Rig Carrier for ease of road drive of the complete unit. 2. Seating Capacity inside the Driver's Cabin shall be minimum 02 (two) Nos. including the driver &amp; co-driver. The driver's cabin shall have adjustable type comfortable driver's seat &amp; co-driver seat (to assist the driver in traffic and positioned at left side of the driver seat). 3. The driver's cabin shall have visibility from all sides for the driver &amp; co-driver. 4. All controls required for road drive of the mobile Workover Rig like steering, selection of forward &amp; reverse transmission speed, brakes, acceleration, horn, lightings, wiper etc. shall be provided inside the Driver's cabin within easy reach of the driver. 5. Air-conditioned driver's cabin shall be provided. 6. Battery Box inside the driver's cabin is not acceptable. 7. The Driver's cabin shall have the following: a. The driver's cabin shall be suitably upholstered. b. Rubber mattress for covering the floor. c. All controls required for road drive of the unit at easy access positions by the driver. d. Full view windshield of toughened/ non-splinter glass. e. Electrically operated Windshield Wipers.</p>	<p>Bidder to comply with this clause while designing carrier</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>f. Fan(s) for driver &amp; co-driver. g. Roof Lamps / Driver Cabin lights. h. Sun Visors. i. Rear View Mirrors at both the sides. j. Horns. k. 01 (One) no. First Aid Box. l. 01 (One) no. Fire Extinguisher. m. Adequate number of lockable windows with sliding or up/down type toughened / non-splinter glass at both sides and at rear of the cabin (for viewing the rear). n. Lockable Doors on both sides with sliding or up/down type window glass. o. Footsteps. p. Handles/ Handgrips. q. Blind spot mirror(s) for the Driver, wherever feasible. r. Any other standard items/accessories. <b>8. Following gauges/meters/ indicator etc. shall be provided inside the Driver's Cabin:</b> a. All standard gauges/meters as per manufacturer's standard for road drive. b. Speedometer: The speedometer shall indicate the speed in Kilometres (km) per hour. c. Odometer in Kilometre (km). d. Engine Oil Pressure gauge with low pressure warning. e. Engine Oil Temperature gauge with high temperature warning. f. Air Pressure gauge with low air pressure warning. g. Battery Charging gauge. h. Transmission Oil Pressure gauge (if applicable) with low pressure warning. i. Transmission Oil Temperature gauge (if applicable) with high temperature warning. j. Side/hazard light indicators. k. Parking light indicators. l. Headlight indicators with high beam &amp; low beam. m. Windshield Wiper control.</p>	<p>Bidder to consider all the listed parameters inside driller's cabin while designing the same.</p>	
<p>2.18</p>	<p><b>ACCESSORIES AND OTHER FITTINGS:</b> The mobile Workover Rig unit shall be driven on roads in India having traffic rules for Right Hand Drive vehicles only. Accordingly, each of the mobile Workover Rig unit shall be fitted with the following for safe movement of the unit on road. All the lightings/controls etc. as mentioned below and as required for road drive are to be operated from the Driver's cabin of the Rig Carrier through electrical/pneumatic system of the Rig Carrier only.  a. All-standard accessories, fittings, lightings, safety features etc. as per the manufacturer required for road drive of the unit. b. Atleast 04 (Four) Nos. of Headlamps at front for night movement with provision of low beam and high beam. <b>The photometry of the headlamps to suit "keep left" traffic.</b> c. Stop Lamps at both sides in rear. d. Parking Lamps at front &amp; rear.</p>	<p>Bidder to comply with clause while designing carrier driver's cabin.</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>e. Direction Indicator Lamps at both sides in rear &amp; front.  f. Hazard Warning Lamps at both sides in rear &amp; front.  g. 02 (Two) Nos. of adjustable search lights, mounted at top behind the driver cabin to illuminate the rear during night movement.  h. Mudguards with mud flaps on wheels.  i. Top &amp; Side Marker Lights in the Driver cabin.  j. Rotating Safety Lights (to provide an eye-catching warning of hazardous conditions and obstacles during road movement).  k. Retro reflective marking (3M make or equivalent, 50 mm width) on the front, rear and both side of the Driver's cabin as per the colour code- Front: White, Rear: Red and Sides: Yellow.  l. The mobile Workover Rig unit is to be fitted with Speed Limiting Device (SLD) &amp; its accessories. The maximum road speed of the mobile Workover Rig unit with Speed Limiting Device shall not exceed <b>50 Km/hour</b>.  m. The Speed Limiting function shall be such that it:  1. Shall not affect the other performance parameters of the mobile Workover Rig unit in any manner.  2. Shall activate in road drive mode only.  3. Shall not actuate the road drive braking system.  4. Shall be failsafe.  Necessary certification/ documentation from appropriate authority regarding the Speed Limiting Device (SLD) is to be accompanied along with the supply.</p>	<p>Bidder to comply with clause while designing carrier driver's cabin.</p>	
<p>2.19</p>	<p><b>2. The following items shall be supplied along with each Rig Carrier at supplier's cost:</b>  a. Minimum 01 (One) No. of Wheel Wrench.  (Note: In case the wheel nuts are of different size, then separate Wheel Wrenches shall be supplied for each size of wheel nuts).  b. Minimum 01 (One) No. of Wheel Wrench handle.  c. 04 (Four) Nos. wheel chocks to prevent accidental movement of the unit while in stationary position.  d. 02 (Two) Nos. minimum 50 MT (i.e. 50000 kg) capacity hydraulic jack with handle.  e. 02 (Two) Nos. of complete spare wheel assembly (Rim, Tyre etc.) for front and rear wheels even in case of same front and rear wheels.  f. 01 (One) No. of Tyre inflating hose of minimum 20 meters long with suitable nipple at both ends (wheel end &amp; air take off point end) &amp; 01 (One) No. of pressure gauge.  g. 01 No. of Heavy-duty Grease Gun.</p>	<p>BHEL scope of supply</p>	
<p>2.20</p>	<p><b>FUEL TANK:</b>  1. Two (02) numbers of diesel fuel tanks, each of minimum <b>600 Litres</b> capacity made from <b>stainless steel</b> with a filling cap and locking arrangement, drain plug, vent line, etc. shall be provided one on each side under the carrier at an easily accessible area.  2. The fuel tanks design shall be such that fuel supply for both the engines can be taken from either of the fuel tanks.  3. Both the fuel tanks shall be inter-connected with an isolation valve on each tank for the flexibility of using any one tank at a time to</p>	<p>Bidder to comply with clause while designing Carrier / carrier mounted equipment.</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	supply fuel for both the Engines. 4. The fuel tanks shall be adequately clamped to the carrier under carriage with heavy duty nut and bolts and must be removable type for the purpose of cleaning/repair of the fuel tanks. Digital/ Analogue fuel level indicator shall be provided on the driver's cabin instrument panel.		
2.21	<b>CHASSIS FRAME:</b> 1. All welded construction, robust, heavy-duty chassis of steel frame suitably welded and cross braced at close pitch to withstand the load of the complete unit shall be provided. The chassis shall provide maximum structural performance in terms of load carrying capacity, bending moment & deflection, maximum tensional stability and long life. The main Chassis frame beam shall be adequately reinforced & adequately sized as per manufacturer's standard practice to bear the load of the complete unit (Rig Carrier with Mast & all other components, accessories etc.).	Bidder to comply with clause while designing Carrier/Carrier mounted equipment	
2.21.1	<b>TOWING PROVISION:</b> 1. Heavy duty clevis pin type Towing provision both at front and rear capable of pulling/towing the complete mobile Workover Rig unit from bogged down situation in slushy areas in oilfields from front as well as from rear shall be provided in the Rig Carrier. The clevis pin shall be approximately <b>250 mm</b> in length and approximately <b>50 mm</b> in diameter.	Bidder to comply with clause while designing carrier.	
2.21.2	<b>LIFTING EYES:</b> 1. Minimum 02 (two) numbers of heavy-duty lifting eye at front and minimum 02 (two) numbers of heavy-duty lifting eye at rear, attached to main chassis frame of the Rig Carrier shall be provided to lift the Rig Carrier by Cranes occasionally without any intervention as & when required. <b>DECK:</b> i. The Rig Carrier shall have the deck of anti-skid surface preferably of MS chequered plate suitably welded to the chassis frame.	Bidder to comply with clause while designing carrier.	
2.22	<b>WALKWAYS &amp; STAIRWAYS:</b> i. Foldable/ detachable walkways with anti-skid surface along both side (i.e. on & off operator's side) of the Rig Carrier unit extending from rear of unit to at least engine area shall be provided. In case of foldable walkways, the walkways shall fold in upwards direction for ease of maintenance access of under chassis of Rig Carrier. ii. Foldable/detachable stairways with handrails & with anti-skid surface shall be provided at suitable location(s) for accessing the Rig Carrier deck from ground level by the working personnel. iii. Suitable locking arrangement shall be provided for the walkways, stairways & handrails to keep those items in folded positions and to prevent accident during travelling/road movement of the mobile Workover Rig unit.	Bidder to comply with this clause while designing carrier.	
2.23	<b>AUTOMOTIVE ELECTRICAL SYSTEM:</b> The automotive electrical connections shall be suitable to operate in oilfield area. The lightings shall comply road vehicle lighting regulations. Screw-in bulbs shall not be used as far as possible. The electrical wirings shall be fixed and protected as to minimize	Bidder to comply with this clause while designing	





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>accidental damage or undue wear. The wirings shall be insulated, and the electrical circuits shall be protected against overloading by fuses or automatic cutouts.</p> <p>Adequate steps shall be taken to ensure electrical continuity and wherever necessary, components shall be bonded by copper straps. The junction boxes, if any, shall be sealed. Lights shall be covered to the extent possible with suitable guard to prevent damage.</p>	carrier.	
2.24	<p><b>AUTOMOTIVE STANDARDS FOR RIG CARRIER:</b></p> <p>1. In case the Rig Carrier is manufactured in India, the Rig Carrier (pertaining to Automobile aspects) shall be compliant to Central Motor Vehicle Rules 1989 &amp; Motor Vehicle Act 1988 of India and its amendments including G.S.R- 29(E).</p> <p>2. In case the offered Rig Carrier is imported from other countries to India, the Rig Carrier (pertaining to Automobile aspects) shall be compliant with the import policy of Government of India.</p> <p>3. Requirement/submission of Type Approval Certificate shall be as per Central Motor Vehicle Rules of India and/or as per the import policy of Government of India, as applicable, as on the date of supply. Bidder shall refer to below Clause No. 30.0 of Part II for Type Approval Certificate.</p>	BHEL scope	
2.25	<p><b>UNDERTAKING FOR SPARES &amp; SERVICE FOR RIG CARRIER:</b></p> <p>The bidder themselves shall submit a written undertaking (along with the technical bid) declaring that they themselves or through any other sources, would be able to supply all the requisite spares (including bought out items, if any) &amp; consumables and provide the maintenance services for items/components of their offered Rig Carrier(s) in OIL operational area(s) in India for a minimum period of 15 (fifteen) years from the certified date of completion / successful field commissioning of the unit.</p> <p>The cost of such spares, consumables &amp; maintenance services which may be availed by Oil India Limited in future shall be extra and shall not be considered by the bidder in their quoted prices in this tender. However, cost of spares, consumables &amp; maintenance services during commissioning, Warranty period and warranty extension period (if any) of the unit(s) shall be borne by the successful bidder (supplier).</p> <p>Notwithstanding anything mentioned in this clause, the bidder shall abide the Warranty Clause mentioned elsewhere in the tender.</p>	BHEL scope	
2.3	<p><b>INFORMATION PLATE:</b></p> <p>Rig Carrier shall be provided with a VIN plate fixed in a suitable place in the chassis (easily visible) containing, amongst others, the following information:</p> <p>i. Make &amp; Model of Rig Carrier.</p> <p>ii. Rig Carrier Serial Number (i.e. VIN/chassis number) as per manufacturer.</p> <p>(Note: The VIN/chassis number of the Rig Carrier shall be embossed at an easily accessible location without any obstruction in the Chassis of the Rig Carrier.)</p> <p>iii. Year and Month of Manufacture of the Rig Carrier.</p> <p>iv. Total Weight of the Rig Carrier (without Mast only).</p>	Bidder shall provide requisite information wherever applicable	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>v. Total Weight of the complete unit (with Mast etc.).</p> <p>vi. Manufacturer's declared Gross Vehicle Weight Rating (GVWR) of the Rig Carrier.</p> <p>vii. Name &amp; Address of Manufacturer.</p>		
2.4	<p><b>TYPE APPROVAL CERTIFICATE:</b></p> <p>a. Type Approval Certificate of Rig Carrier is required for the following activities in India:</p> <p>i. Uploading the vehicle details in the relevant Government of India portal (VAHAN /Homologation/Parivahan portal) for registration of vehicle as per Motor Vehicle Act, 1988 &amp; Central Motor Vehicle Rules, 1989 of India which is mandatory for plying of the vehicle in roads in India.</p> <p>ii. Custom clearance of the Rig Carrier as per import policy conditions/guidelines of India Chapter-87 of ITC (HS), 2022, Schedule 1- Import Policy, Section: XVII, in case of imported vehicle from other countries to India.</p> <p>b. Accordingly, the bidder/supplier shall have to submit the Type Approval Certificate of the Rig Carrier, as applicable, along with the supply unless the requirement of Type Approval Certificate is exempted by Government of India authority like Ministry of Road Transport &amp; Highways (MoRTH)/Director General of Foreign Trade (DGFT) for their particular Rig Carrier(s) to be supplied. The exemption by Government of India authority shall be for the designated Rig Carrier(s) to be supplied by the supplier mentioning the specific identification number (preferably the VIN/Chassis Numbers) of the Rig Carrier(s) , applicable for government registration as per Motor Vehicle Act, 1988 &amp; Central Motor Vehicle Rules, 1989 of India for plying of the vehicle in roads in India.</p>	BHEL scope. Any other data required for complying the clause shall be provided by bidder.	
2.4.1	<p>The list of Type Approval Certificate issuing agencies are mentioned in Central Motor Vehicle Rules, 1989 &amp; Motor Vehicle Act, 1988 of India &amp; its amendments. In case of imported vehicle from other countries to India, at the time of Customs clearance, a Type Approval Certificate/COP, of an international accredited agency including a notarized English translation thereof shall be furnished. This Type Approval Certificate shall stipulate that vehicle to be imported complies with all the ECE Regulations for the complete vehicle. The list of international accredited agencies approved for issuance of Type Approval Certificate is available on DGFT website, under Policy Circular No. 12 (RE- 2013)/2009-2014 dated 15.01.2014 issued by Ministry of Commerce &amp; Industry, Department of Commerce, Director General of Foreign Trade, New Delhi subjecting "Type Approval issuing agencies under Policy Condition number 7 and 9 of Chapter 87 of ITC (HS) 2012". Bidder/supplier shall ensure adherence to any subsequent revisions to the above referred Policy Circulars that may be issued in future by DGFT.</p> <p>If Type Approval Certificate as above is not required as per policy of Government of India, the successful bidder shall arrange &amp; submit the exemption from the Government of India authority prior to delivery of the mobile Workover Rig to Oil India Limited (OIL) as per Clause 30.0 (b) above. Bidder shall note that, they shall be conversant with the policy of Government of India and Oil India</p>	BHEL scope. Any other data required for complying the clause shall be provided by bidder.	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	Limited (OIL) shall not be liable in this regard whatsoever. Notwithstanding anything mentioned elsewhere in this document, submission of Type Approval Certificate/ Conformity of Production (CoP) shall be as per the guideline of Government of India as on the date of supply.		
2.4.2	<b>VAHAN/ HOMOLOGATION/ PARIVAHAN PORTAL DATABASE:</b> In case the successful bidder (supplier) is from India: The successful bidder (supplier) shall ensure that, the complete vehicle (Rig Carrier) details including emission norms are available in the relevant VAHAN/ Homologation/ Parivahan portal of Ministry of Road Transport & Highways (MoRTH), Government of India in accordance with Motor Vehicle Act, 1988 & Central Motors Vehicles Rules, 1989 of India prior to delivery of the mobile Workover Rig to Oil India Limited irrespective of whether the complete vehicle (Rig Carrier) is manufactured in India or outside India. Log in credential etc. required for the relevant VAHAN/ Homologation/ Parivahan portal shall be arranged by the supplier.	BHEL scope. Any other data required for complying the clause shall be provided by bidder.	
2.4.3	In case the successful bidder (supplier) is from outside India: <i>i. In case the complete vehicle (Rig Carrier) manufactured in India:</i> The successful bidder (supplier) shall ensure that, the complete vehicle (Rig Carrier) details including emission norms are available in the relevant VAHAN/ Homologation/ Parivahan portal of Ministry of Road Transport & Highways (MoRTH), Government of India in accordance with Motor Vehicle Act, 1988 & Central Motors Vehicles Rules, 1989 of India prior to delivery of the complete vehicle (Rig Carrier) to Oil India Limited. Log in credential etc. required for the relevant VAHAN/ Homologation/ Parivahan portal shall be arranged by the successful bidder (supplier) /manufacturer. <i>ii. In case the complete vehicle (Rig Carrier) manufactured outside India:</i> The complete vehicle (Rig Carrier) details as the case may be, in the relevant VAHAN/Homologation/Parivahan portal of Ministry of Road Transport & Highways (MoRTH), Government of India will be dealt as per the applicable guidelines of Ministry of Road Transport & Highways (MoRTH) / Director General of Foreign Trade, Government of India at the time of supply on submission of requisite documents by the successful bidder (supplier) as mentioned in the tender/purchase order. Any vehicle information required for the relevant VAHAN/ Homologation/ Parivahan portal shall also be provided by the successful bidder (supplier).	BHEL scope. Any other data required for complying the clause shall be provided by bidder.	
2.4.4	<b>TEMPORARY REGISTRATION:</b> In case the successful bidder (supplier) is from outside India and the complete vehicle (Rig Carrier) is also manufactured outside India, the scope & cost of Temporary Registration, Motor Vehicle Insurance as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India shall be under the scope of Oil India Limited. However, in all other circumstances, Temporary Registration, Motor Vehicle Insurance as per Motor Vehicle Act, 1988 & Central Motor Vehicle Rules 1989 of India, if applicable for unit transportation/ manufacturing purpose/ delivery purpose etc. shall be under the	BHEL scope. Any other data required for complying the clause shall be provided by bidder.	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>scope of the successful bidder (supplier). The successful bidder (supplier) is to note that, in case Temporary Registration as per Motor Vehicle Act, 1988 &amp; Central Motor Vehicle Rules 1989 of India is done in India, the Temporary Registration shall be done in the name of Oil India Limited, Duliajan, Assam- 786602 (India). The cost of Temporary Registration, Motor Vehicle Insurance shall be borne by the successful bidder (supplier).</p> <p><b>PERMANENT REGISTRATION:</b> On receipt of the vehicle(s) and documents required for permanent registration, Oil India Limited (OIL) shall apply for permanent registration of the vehicle(s) at the office of the local Government District Transport Office (DTO) as per Motor Vehicle Act, 1988 &amp; Central Motor Vehicle Rules 1989 of India. Cost of permanent registration shall be borne by Oil India Limited.</p>		
<p>2.4.5</p>	<p><b>HIGH SECURITY REGISTRATION PLATE (HSRP):</b> On receipt of the government Registration Number, Oil India Limited (OIL) shall inform the Registration Number to the supplier (successful bidder). The supplier (successful bidder) shall supply the High Security Registration Plate (HSRP) through the Original Equipment Manufacturers of motor vehicle/ dealer/any one of the agencies authorised by the Government of India/Assam to issue the High Security Registration Plate (HSRP) enabling the DTO to issue permanent Registration Certificate for the vehicle(s) as required for road drive of the vehicle. The cost of High Security Registration Plate (HSRP) shall be borne by the supplier (successful bidder). Bidder/supplier shall also ensure adherence to any subsequent revisions to the referred requirements that may be issued in future by Ministry of Road Transport &amp; Highways (MoRTH), Government of India</p> <p>Notwithstanding anything mentioned elsewhere in this document, VAHAN / Homologation / Parivahan portal database, Temporary Registration process, Permanent Registration process, issuance of High Security Registration Plate (HSRP) shall be as per the guideline of Government of India as on the date of supply since these are legal requirements and are required to be complied without any deviations.</p>	<p align="center">BHEL scope</p>	
	<p><b>DIMENSION(S) &amp; WEIGHT OF CARRIER RAMP, DERRICK PLATFORM STRUCTURE, V DOOR PIPE SLIDE, CATWALK/ PIPE RACKS OF THE RIG SYSTEM TO BE TRANSPORTED SEPARATELY:</b> The dimensions &amp; weight of each of the associated items like Carrier Ramp, Derrick Platform structure, V-Door Pipe Slide, Catwalks / Pipe Racks of the Rig System, to be transported in separate transport vehicle, shall be as under with Skid, lifting eye, walkways in folded condition, railings in folding condition: Overall Length: <b>Within 9000 mm.</b> Overall Width: <b>Within 3000 mm.</b> Overall Height from ground level: <b>Within 3200 mm.</b> Overall Weight: <b>Within 20000 kg.</b> Any item exceeding the above-mentioned dimension(s) shall be provided with dismantlable provisions or collapsible provisions to</p>	<p align="center">For information of the Bidder</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>meet the limiting dimensions for movement of the item from one location to another.</p> <p>Any item exceeding the above-mentioned weight shall be provided with dismantlable provisions to meet the limiting weight so that the different sections of an item can be moved separately from one location to another.</p> <p>Suitable lifting lug/eye shall be provided in each item/ section so that the item/ section can be lifted/handled by using Crane &amp; Rope Slings.</p>		
	<p><b>DESPATCH GUIDELINE FOR RIG CARRIER &amp; MAST:</b></p> <p>For ease of initial movement, each mobile Workover Rig unit shall be despatched in two or more parts separately as under:</p> <p>(a) Rig Carrier along with permanently mounted items in unitised condition.</p> <p>(b) Mast on rigidly designed supports of minimum 2 feet height with nos. of supports as per design requirement to be provided for movement of on trailers and also for placing of the mast after off-loading from the trailer.</p> <p>Note: Any subassemblies of the Mast like Travelling Block, Hook etc. may also be sent separately as per supplier's convenience.</p>	For information of the Bidder	
3.0	<p><b>CARRIER ENGINES:</b></p> <p>Two (02) numbers turbocharged, after cooled, Inline 6(Six) cylinder <b>M/s Caterpillar make C series</b> electronic diesel engine capable of developing the required power and torque as per the rig design requirement (Draw-works &amp; On-road) under standard temperature of 5°C-41°C with altitude not exceeding 150 Meters above mean sea level and relative humidity of 95% at 35° C.</p> <p>The engines should be suitable for continuous duty &amp; capable of developing 10% in excess of its rated output at its rated speed for a period of 1hr in any period of 12 hrs continuous running without undue heating or any other mechanical trouble.</p>	<p>For compliance by bidder while designing carrier and carrier mounted equipment.</p> <p>Preferably CAT Model# C9.3B with Allison Transmission Model#4700 OFS.</p> <p>Bidder shall design carrier mounted equipment based on overall dimensions of quoted models of Carrier engines and Allison Transmissions</p> <ul style="list-style-type: none"> <li>Bidder shall provide the scheme of load sharing between the two engines along with Technical bid</li> </ul>	
3.1	<p><b>Emission Norms:</b></p> <p>1. Compliance of emission norms is required for government registration of the mobile Workover Rig unit. Government registration of the mobile Workover Rig unit is mandatorily required for plying the mobile Workover Rig unit in public</p>		



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>roads in India.</p> <p>2. The emission norms of all the engines of the offered Rig Carrier shall comply the emission norms CEV Emission Stage-V, as per Motor Vehicle Act, 1988 &amp; Central Motor Vehicles Rules, 1989 of India, at the time bid submission. The bidder shall mention and confirm the emission norms of all the engines of the offered Rig Carrier in their technical bid.</p> <p>3. Emission norms change over the time as per government guideline which is beyond the control of Oil India Limited (OIL) and shall have to be complied by Oil India Limited (OIL) without any deviation in India since these are legal requirements. Accordingly, the bidder shall also confirm in the technical bid to meet the emission norms as applicable in India at the time of supply of the mobile Workover Rig to OIL.</p> <p>4. The bidder/supplier shall make themselves familiarized with the emission limits, emission parameters, emission norms etc. as applicable in India as per Ministry of Road Transport &amp; Highways (MoRTH), Government of India.</p>	For information only	
3.1.1	<p>Engine Fault Diagnostic Tools [both licensed software as well as hardware-CAT ET &amp; Laptop] with accessories &amp; also display on the engine panel shall be supplied along with each unit. Bidder shall categorically confirm in the bid that the offered software &amp; hardware is for the particular engine of the truck.</p>	For information and compliance in design	
3.1.2	<p>All the accessories &amp; fittings of engine viz. Radiator, Coolers, Silencer cum Spark Arrestor, Air Compressor, Engine Harness Wirings &amp; accessories etc., must be of OEM [Caterpillar] supplied with proof of documents. Bidder must confirm in their offer to provide documentary evidence from OEM [Caterpillar] regarding supply of the above-mentioned items at the time of inspection.</p>	For information and compliance in design	
3.1.3	<p><b>Accessories per engine:</b></p> <p>a. Heavy duty Air Cleaner with pre-cleaner &amp; Vacuum Indicator.</p> <p>b. Spark Arrestor cum Silencer covered with proper heat shield material of jacket type design (lagging with asbestos rope not acceptable) with exhaust diverted to off-operator side.</p> <p>c. Heavy duty Radiator with Fan, Fan arrangement &amp; low water level indication with alarm. There should be sufficient space between the engine radiator and the rig carrier driver cabin for proper forced heat ejection from the engine by the radiator fan. It must be capable of at least 20% in excess of total heat rejection of the engine.</p> <p>d. Pneumatically operated Inlet Air shut off device &amp; Fuel shut off device should be provided with the engine for emergency shut off &amp; designed in such a way that it can be operated from engine as well as Driller's console. Interconnection drawing between the Driller's console &amp; the Air-shut off device must be provided along with the offer.</p> <p><b>e. Engine Instrument / Control panel: It should have the followings:</b></p> <p>1. Start/stop button: Auto / Manual Stop.</p> <p>2. Pressure Display: Oil &amp; Fuel pressure.</p> <p>3. Engine rpm: Electronic Tachometer with digital display.</p> <p>4. Temperature gauge: Lube Oil, Coolant &amp; Exhaust.</p>	For information and compliance.	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>5. R/Hrs: Digital hour meter.</p> <p>6. Battery charge condition: Voltmeter digital &amp; ammeter.</p> <p><b><i>There should be sufficient space for maintenance and repair of the unit. Bidder should provide detail about the Instrument /control panel system.</i></b></p>		
3.1.4	<p><b>f. Safety Shut Off system (Protection):</b></p> <p>It should be equipped with the following:</p> <ol style="list-style-type: none"> <li>1. Low lube oil pressure (alarm with engine shut off).</li> <li>2. High coolant temperature (alarm with engine shut off).</li> <li>3. Engine over speed (alarm with engine shut off).</li> <li>4. low coolant level (alarm with engine shut off).</li> <li>5. Low fuel pressure (alarm only).</li> <li>6. Pressure switch gage to stop the engine when the pump pressure exceeds the set pressure.</li> </ol> <p>Bidder must mention the Safety Shut Off system offered for the unit&amp; provide detail information with literature.</p>	For information and compliance.	
3.1.5	<p><b>g. Pneumatic System For Rig Use:</b></p> <p>The pneumatic system for rig ancillary use shall consist of an air compressor with governor, aftercooler, water separator, air dryer, air protection valve and an air storage tank. The pneumatic system should come fitted with all the necessary pipe connections, check valves, filter-regulator-lubricator &amp; gauges.</p> <ol style="list-style-type: none"> <li>1. Air Compressor with governor: Carrier engine driven air compressor having air delivery of 31 CFM @ 1250 rpm with pressure rating as per the rig design requirement. The air compressor and air dryer purge cycle control shall be done with a governor mounted on the air compressor.</li> <li>2. Air After Cooler: Tube with fin type after cooler cooled by the engine radiator fan to be provided for each of the air compressor compressed air outlet.</li> <li>3. Water Separator: The water separator should be design to separate water from the compressed air by centrifugal action inside the separator with auto water drain facility.</li> <li>4. Air Dryer: Twin regenerative type coalescing desiccant cartridge air dryer with heating arrangement for continuous supply of dry air preferably of Webco make mounted on top of the rig carrier at an easily accessible place.</li> <li>5. Air Tank For Rig Ancillary:             <ol style="list-style-type: none"> <li>a. It shall be a single tank of capacity (volume) as per the rig air design requirement, mounted on top of the carrier at an easily accessible place.</li> </ol> <p>The tank shall be provided with a pressure gauge, air inlet port, 02 nos. of outlet port (one outlet port for cleaning and other uses) with isolation valves and a drain port with an isolation valve.</p></li> <li>b. The bidder shall confirm that all the pneumatic lines shall be tested and certified as per the relevant applicable standard.</li> <li>c. The bidder shall confirm that the design, fabrication, inspection, testing &amp; certification for the air tank (air vessel) shall be as per ASME Section VIII, Division-1. The certificate(s) issued by a certifying agency has to be supply by the successful bidder along with supply of the item.</li> </ol>	For information and compliance in the design. Bidder shall consider Air tank for Rig Ancillary(point#5) placement on Rig carrier while designing the same.	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p><b>Note:</b> All the hoses should be pneumatic rubber/metallic hoses of rated capacity with swivel type connections including the compressor governor and dryer control lines.</p>		
3.1.6	<p><b>h. Engine Wiring:</b> The critical wiring should be in separate rodent proof conduit with proper marking from other wiring for following: 1. Engine shutdown signals. 2. Engine Throttle signal from derrick &amp; Cabin. 3. Wiring which activates the special modes of engine like PTO enable, engine de-rate, idle RPM mode etc. 4. Interfacing wiring between engine, transmission and safety system. <b>Note:</b> Engine Harness wirings must be of OEM [Caterpillar] supplied.</p>	For information and compliance with design.	
3.1.7	<p><b>i. Engine starting system:</b> It should have independent pneumatic &amp; electric starter with interlock for use of one starter at a time. 2 (two) numbers maintenance free Heavy-duty battery suitable for hazardous area (Please refer extract of hazardous area and relevant regulations enclosed at Attachment-II), complete with cable &amp; connection to be provided in a steel box with wooden panel inside the box. Each engine should have 24-volt battery charging flame proof alternator.</p>	For information and compliance in the design	
3.1.8	<p><b>j. Engine General Design:</b> 1. Vibration Dampener and guard. 2. Lifting eyes for lifting engine. 3. Fumes disposal. 4. Crankcase breather. 5. Heavy duty servicing hour meter. 6. Standard painting of the engine. 7. Engine crank case design should be of deep pan type. 8. Engine service interval of minimum 500 hrs.</p>	For information and compliance in the design	
3.1.9	<p><b>k. Sound Barriers:</b> Both the rig engines shall be housed in a single acoustic enclosure of modular construction with ease to dismantle &amp; assemble. It shall be constructed as under: 1. The outside panel of the enclosure should be made of plain CRCA steel sheet and the inner panel from perforated CRCA steel sheet of minimum 2 mm thickness. 2. The sheet shall be applied with primer coating prior to applying of powder coated paint. 3. The space between the enclosure outside and inner walls are to be filled completely with high quality noise absorbent and fire-retardant grade acoustic insulation material (P.U. Foam) complying to the latest IS specification. 4. The enclosure shall be provided with sufficient nos. of hinged (stainless steel) doors with self-closing latch spring door lock. 5. Sufficient nos. of air vents (louver type) shall be provided for the forced circulation of air for engine cooling. 6. The engine noise level measured at a distance of 1 M from all around the sound barrier surface should not be more than 75 dbA or</p>	For information and compliance in the design	





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>the insertion loss should be of minimum 25 dbA, whichever is lower on noise.</p> <p>7. Details about the acoustic enclosure with dimension, materials used, etc. in drawing as per above must be provided along with the offer.</p>		
3.1.10	<p><b>l. Operating Site Condition:</b> The engine should be suitable for operation at the following site condition:</p> <ol style="list-style-type: none"> <li>1. Engine site temperature - 40°C (Max)</li> <li>2. Engine site temperature - 5°C (Min)</li> <li>3. Maximum relative humidity at 21°C - 100%</li> <li>4. Maximum relative humidity at 35°C - 95%</li> <li>5. Maximum relative humidity at 40°C - 85%</li> <li>6. Altitude above sea level - 150 m.</li> <li>7. Average annual rainfall – 250-300 cm.</li> </ol>	For information and compliance in the design	
3.1.11	<p><b>m. Automatic Fire Detection and Suppression System (AFDSS):</b> ISO certified 10 kg (exclusive of extinguisher empty weight) capacity modular automatic fire detection &amp; extinguisher to be provided on the roof inside the canopy above each engine with adequate framing and support.</p>	For information and compliance in the design	
3.2	<p><b>TORQUE CONVERTER TYPE AUTOMATIC TRANSMISSION FOR RIG CARRIER:</b> Suitable capacity M/S Allison make TC type automatic transmission with retarder brake, lock up clutch, cooling lines, transmission radiator/cooler and drop box (if required) for transmitting the power &amp; torque as per the design requirement for rig operation and carrier drive, having various forward gears &amp; reverse gears with dual controls through push button shifter (Gear indicator, mode, prognostics &amp; diagnostic displays) i.e. from driver's cabin (road mode) and driller's console (draw-works mode) any one at a time.</p> <p><b>i. It must have the following features:</b></p> <ol style="list-style-type: none"> <li>a. Latest generation electronic controls.</li> <li>b. Electronically controlled gear shifting.</li> <li>c. Transmission oil cooler.</li> <li>d. Transmission prognostics: Monitoring of transmission operating parameters—oil level, oil life, filter life and transmission health with alert for service requirement.</li> <li>e. Transmission oil pressure &amp; temperature sensors.</li> <li>f. Transmission low oil level sensor.</li> </ol> <p>ii. Model &amp; series of offered Allison transmission must be mentioned in the offer and the technical brochure of the same to be submitted along with the technical bid.</p> <p>iii. Bidder must confirm in their bid to provide O&amp;M manual &amp; parts book [Soft &amp; hard copy in English language] along with the supply of the Transmission.</p> <p>iv. Transmission must be supplied with programmed self-diagnostic kit (both licensed software as well as hardware (Laptop)) shall be supplied along with the unit. Bidder shall categorically confirm in the bid that the offered software is for the particular transmission of the rig.</p>	For information and compliance in the design. Bidder to consider placement/ mounting while designing carrier. OFS 4700 Allison is preferred..	
3.2.1	<p><b>Control Console:</b></p>		



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>Engine and Automatic transmission integration with operators control panel should include the following display &amp; control.</p> <ul style="list-style-type: none"> <li>a. Transmission oil pressure gauge.</li> <li>b. Transmission oil temperature gauge.</li> <li>c. Transmission low oil level indicator.</li> <li>i. Suitable Power take off (PTO) should be provided along with the transmission system for hydraulic pump operation. Make and model should be indicated by the bidder in their techno-commercial bid.</li> <li>ii. Transmission wiring should be in separate rodent proof conduit with proper marking from other wiring &amp; numbered for easy identification. All cables must be terminated properly. If any cable is not used in the harness it should be removed from the harness. Suitable connectors with sufficient cable length are to be provided where flexibility is required as per instrument manufacturer design, so that the cables are not in stress. Moreover, suitable weather protection for electronic system is to be provided.</li> <li>iii. All the accessories, fittings / connections &amp; harness wiring of Allison Transmission must be of OEM supplied with proof of documents. Bidder must confirm in their offer to provide documentary evidence from OEM regarding supply of the above mentioned items at the time of inspection.</li> <li>iv. Driller's console gear selector should have removable connector at both ends.</li> <li>v. All the electrical / electronic circuit diagrams for operation of the Transmissions must be furnished along with the offer for scrutiny.</li> </ul>	<p>For information and compliance in the design. Bidder shall provide for Engine interfacing/wiring details. Bidder to consider placement of Control console while designing carrier.</p>	
<p>3.3</p>	<p><b>POWER TRANSMISSION TO DRAW-WORKS &amp; CARRIER:</b> Suitable power transmission system as per rig design shall be provided for transmitting power from the automatic transmission to draw-works and rotary table in work-over mode and to carrier in road-mode with dual control from cabin and driller's console along with safety interlocks and indicators.</p>	<p>Bidder to consider the clause while designing carrier and carrier mounted equipment</p>	
<p>3.4</p>	<p><b>RIG HYDRAULIC SYSTEM:</b></p> <ul style="list-style-type: none"> <li>i. Complete with Hydraulic Pump [Make: Parker or Rexroth], hydraulic oil reservoir, hydraulic oil cooler (if required), suitable hydraulic lines, filters, hoses, pressure gauges, connections and valves, regulator etc. for the operations of mast raising/lowering, extending, levelling jacks, hydraulic cat works, hydraulic winches, hydraulic power tong drive, hydraulic winch, etc.</li> <li>ii. Capacity of the hydraulic pump must be as per the rig and its accessories design requirement. It shall be bidder's endeavour to supply the Hydraulic distributor, valve manifold, Hydraulic valves of VICKERS, COMMERCIAL HYDRAULICS, BENDIX, EATON, PARKER or REXROTH make only.</li> <li>iii. Hydraulic pump shall be driven from PTO [Make: Parker] of the Transmission with controls at Driller's console. Total Interface drawing of controls at Driller's console, control valve, Transmission, PTO &amp; Hydraulic pump shall be submitted along with the technical bid and along with supply of the rig. The PTO control shall be solenoid operated.</li> </ul>	<p>Bidder to consider the clause while designing carrier and carrier mounted equipment</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>iv. Protection for hydraulic pipe with guide pipes &amp; support at intermittent locations to avoid damages to the hydraulic pipe.</p> <p>v. Tank, reservoir capacity as per design with filler cap, breather, oil level gauge, filter, safety by-pass relief valve to prevent accidentally exceeding max rated working pressure, pressure gauges &amp; temperature gauges.</p> <p>vi. Hydraulic Test Certificates from reputed Certifying agencies to be made available for all hoses installed as per applicable SAE / DIN standards.</p>		
3.5	<p><b>SPECIAL NOTES FOR ENGINE &amp; TRANSMISSION:</b></p> <p><b>i. DELETED</b></p> <p><b>ii. Engine &amp; Transmission Mounting:</b> The Engine with Transmission must be mounted on a single rugged skid &amp; <i>should be anchored firmly with the main chassis of the Workover Outfit</i>. Alternately Engine and Transmission may be chassis mounted; as per Bidder's design. However, the bidder must confirm in their offer that the foundation bolts of the Engine &amp; Transmission will be fastened in such a way that these can be removed easily from the Engine-Transmission platform without going under the Carrier.</p> <p><b>iii. DELETED</b></p> <p><b>iii. Deviation:</b> Deviation in respect of any specification as detailed above should be clearly mentioned supported with technical calculation / catalogue / literature etc.</p>	<p>For information and compliance in the design.</p> <p>Bidder to consider the clause while designing carrier and carrier mounted equipment. 2 Nos Engines and transmissions shall be mounted in parallel along the length of Chassis.</p>	
4	<p><b>RIG EQUIPMENT</b></p>		
4.1	<p><b>1. DRAW-WORKS (MAIN WINCH) ON THE CARRIER:</b></p> <p>i. Main drum suitable for hook load capacity of minimum 125 MT (136 ton) in accordance with API 7K as applicable.</p> <p>ii. Single drum dynamically balanced axially mounted draw works with single line pull of minimum 40,000 lbs.</p> <p>a. Band Type friction brake to be provided as main brakes to carryout retarding as well as braking. Complete Rig operation should be possible independently with the help of Band Brakes as well as with the combination of the Assist Brake.</p> <p>b. The auxiliary brake (assist brake) shall be water-cooled disc brake of National or Eaton Make designed for dynamic tensioning, static holding and emergency stopping (brake fail safe). The control of the Disc Brake shall be provided at a convenient place in the hands of the Rig Operator, through a pneumatic Valve and the movement of Valve lever shall determine the braking torque applied. The</p> <p>c. Disc Brake and Band Brake should be complete with adjustment system &amp; cooling system for working in 45-degree Celsius ambient temperature and at continuous full load.</p> <p>iii. Rated input horsepower suitable for rated hook load capacity, designed to provide empty block speed of 6.5 - 7 feet/sec &amp; block speed at 125 MT hook load, 1st gear operation is 0.45 feet/sec to 0.90 feet/sec, 8 lines strung up.</p> <p>Main drum dimensions as per design with Lebus grooving for wire rope as per design to be provided for proper wire line spooling. However, the casing line size should be 1 1/8" (1.125 inch).</p>	<p>Bidder to provide complete Manufacturing documentation and purchase /raw material specifications to BHEL. BHEL will procure material and manufacture/Assemble Drawworks. Bidder to comply</p>	





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	<p>the mast for use with substructure at derrick floor level. Mechanical controls located adjacent to Driller console for draw works brakes, include a chain tie down for the handle. Suitable arrangement to be provided to protect from ingress of rain water.</p> <p>Controls: Driller console should have Air control for main drum clutch, assist brake, engine throttle, engine shutdown and emergency shutdown, Hydraulic winch &amp; Cat-work control, Transmission shifter, Rotary drive clutch, Hydraulic pump, Pneumatic slip, cooling water, assist brake water controls and Mud pump emergency switch.</p> <p>Gauges / Indicators: Driller console should have following Gauges / Indicators</p> <ul style="list-style-type: none"> <li>– Air pressure gauges, hydraulic pressure gauges, Stand Pipe pressure gauges, Hook load indicator, Tong torque gauge, ROG, Rotary torque &amp; RPM gauges, Transmission shifter indicators and Mud Pump pressure gauges (with provisions for connections) &amp; digital SPM counter meter (For counter reading of up to 450 SPM) with sensor and 40 meters of cables for mud pump.</li> </ul> <p>Recorders:</p> <ul style="list-style-type: none"> <li>i. A digital/analog display cum recorder for the pump pressure to be provided. The recorder probe with its remote display on the driller's console shall be provided on a minimum 10k psi rating tee with one point for the probe and the other two points with Fig. 1502 unions for connecting it on the pump discharge line on the kill manifold/cross piece. The distance between the probe and the display cum recorder shall be approximately 30 meters.</li> <li>ii. A digital/analog display cum recorder for recording the hook-load should be provided on the driller's console.</li> </ul> <p>A Device to track /alarm the operator regarding the safe distance/movement of the T/block to the Crown Block at one end and Rotary Table at the other end.</p>	<p>Bidder to provide complete Manufacturing documentation and purchase /raw material specifications to BHEL. BHEL will procure material and manufacture/Assemble Drawworks. Bidder to comply with this clause.</p>	
4.2	<p><b>ROTARY DRIVE SYSTEM ON CARRIER:</b></p> <ul style="list-style-type: none"> <li>i. Rotary drive system as per rig design from transmission to Rotary table with air balloon type clutch. Clutch control and engine throttle shall be at driller's console.</li> <li>ii. Elevated drive to rotary table with suitable protective guards.</li> <li>iii. Lubrication / grease header to be provided.</li> <li>iv. Lubrication system to be provided as per rig design.</li> </ul>	<p>BHEL will manufacture Rotary table as per spec. API-7K. Bidder shall provide total design/mfg. documentation for Rotary drive system(Lower and Upper elevated drive) from Carrier to Rotary table as per the clause.</p>	
4.3	<p><b>HYDRAULIC POWER TONG CIRCUIT:</b></p> <ul style="list-style-type: none"> <li>i. Hydraulic power tong circuit with pressure and return line pressure gauge, adjustable relief valve with hydraulic outlet up to rear</li> </ul>	<p>BHEL will procure Hydraulic tubing tong.</p>	



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	bumper shall be provided. ii. Tong hydraulic circuit shall be integral with rig hydraulic circuit. iii. Hydraulic pressure gauge and remote pressure control of tong circuit shall be located at the driller's console.	Bidder shall consider Hydraulic Supply in the Carrier Hydraulics design.	
4.4	<b>HYDRAULIC WINCH ON CARRIER (02 NUMBERS):</b> i. 02 nos. of API 2C / ASME B30.7 compliant hydraulic winch having a failsafe braking system, grooved drum with guard, controlled freefall, tension roller for the wire rope & all necessary pipes & fittings. It shall be bidder's endeavour to provide Braden make winch only. ii. One winch to be mounted at suitable position on the derrick floor and the other on the carrier at a suitable position on off-driller side at a suitable place at the end of the carrier. iii. Both the winches shall have a minimum hoisting capacity of 9K lbs with the last layer of cable on drum. Cable capacity of the drum with last layer should be of minimum 328 feet (100 meter). iv. Controls for both the winches shall be provided on the derrick floor.	BHEL will procure Hydraulic winches EQ. to Braden winches PD-12C model. Total Hyd circuit design is in Bidder's scope.  Bidders shall provide design documentation of circuit.	
4.5	<b>ROTARY TABLE WITH MASTER BUSHING OF API 7K, LATEST EDITION, MONOGRAMMED:</b> Dead load capacity minimum 160 MT	BHEL scope. Will share details of sprocket used for assembly onto Upper elevated drive.	
4.6	<b>UNITIZED HOOK BLOCK AS PER API 8C, LATEST EDITION (PSL - 2) WITH API MONOGRAMMED.</b> i. Dead load capacity: Minimum 150MT.	BHEL scope of supply.	
4.7	<b>ROTARY HOSE:</b> Rotary hose 2" x 47', 5000 PSI working pressure, however union shall be covered under the scope of stand pipe & swivel gooseneck for connecting to the rotary hose. Rotary hose shall be as per API 7K, latest edition & monogrammed.	BHEL scope of supply.	
4.8	<b>ELEVATOR LINKS:</b> i. ELEVATOR LINKS - One number consisting of two links or one pair. ii. Weldless Elevator Links forged from a single piece of high-grade alloy steel. iii. Link Size- (1.3/4" x 48"). iv. Rated capacity - 150 MT/pair. v. The elevator links shall be manufactured, tested, certified & monogrammed as per API Spec. 8C, latest edition (PSL 2).	BHEL scope of supply.	
4.9	<b>WIRE ROPES:</b> One roll casing line (1 1/8") of standard length, API 9A, latest edition, monogrammed, on metallic spool with smooth drive for rotation with a provision for fixing stand on carrier for shifting of casing line. One spare roll casing line of standard length, API 9A, latest edition, monogrammed shall also be provided.	BHEL scope of supply.	
4.10	<b>STANDPIPE MANIFOLD</b>	BHEL scope of supply.	
4.11	<b>11. KILL LINE KIT</b>	BHEL scope of supply.	
4.12	<b>HYDRAULIC TUBING TONG:</b>		



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

	One set of Light weight hydraulic tubing tong of minimum torque rating 8000 ft lbs, replaceable jaws type for 2.3/8", 2.7/8", 3½" tubing /Drill-pipe & 5 1/2" casing, complete with accessories like torque gauge assembly rating 8000 Ft. lbs., spring hanger assembly, Hydraulic Hoses with Quick couplings, Hydraulic Lift Cylinder Assembly for tong height adjustment and all other necessary items for its installation and operation.	BHEL scope of supply. Bidder to design Tubing tong circuit and include in driller's cabin controls.	
5	<b>RIG INSTRUMENTATION:</b>	BHEL scope of supply. However any interfacing required to/from Rig instrumentation shall for part of scope of Bidder s design	
6	<b>RIG ELECTRICAL</b>	BHEL scope of supply.	



## **SECTION – 3.2**

### **SUPERVISORY SUPPORT & TRAINING**





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**SCOPE OF WORK FOR SUPERVISORY SUPPORT & TRAINING**

The 125 MT WOR will be assembled and tested at BHEL Hyderabad integrating all the systems including Pneumatic/Hydraulic/ Electrical/ Control systems.

The successful Bidder shall provide Supervisory support during assembly, integration between different systems on the carrier, interlocks between different systems and Maintenance.

Bidder shall also provide acquaintance training at BHEL aimed at understanding the intricacies of workover rig to M/S BHEL & M/s OIL personnel. The training shall cover all the aspects described above including:

- i. Power assisted steering system including steering pump and steering, gearbox
- ii. Pneumatic system for road drive brake system & gear shifter (of the carrier inside driver's cabin) including different valves.
- iii. Axle, brake & suspension systems.
- iv. Automotive Electrical System.
- v. Safe Operating Practice for road drive of the Mobile Workover Rig.
- vi. The operation, maintenance, trouble-shooting & rectification related to
  - a) Engine, Allison transmission, etc.
  - b) Hydraulic system.
  - c) Pneumatic system.
  - d) Draw-works, Rotary Table, Rotary Swivel & other major rig equipment
- vii. Instrumentation & control system of IC engines.
- viii. Driller's Console & Associate control for Rig
- ix. Rig Safety System (Electronic system).
- x. Draw-works Operation (with maintenance procedures).
- xi. Hydraulic system.

**Important Note:**

Training shall be comprehensive to include Operation, Maintenance, Trouble shooting of the Carrier & Carrier mounted Equipment.

Bidder shall depute their personnel within 4 weeks from the date of intimation from BHEL.



## **SECTION – 3.3**

### **ADDITIONAL NOTES**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**Additional Notes : Bidder to NOTE & Confirm**

**1. OPERATION / INSTRUCTION MANUAL**

Bidder shall provide soft copy of O & M Manuals of all the major Equipment of Carrier & Carrier mounted equipment. Minimum shall contain the following.

- 1) Bill of Material with details of quantity
- 2) GA Drawings
- 3) Operating and Safety instructions
- 4) Maintenance instructions
- 5) Operational spares list with part numbers



## **SECTION – 3.4**

### **DRAWINGS AND DOCUMENTS**

(To be Submitted along with Technical offer for  
onward submission to OIL)



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**3.4.1 DRAWINGS AND DOCUMENTS TO BE SUBMITTED WITH PART-2 BID :**

Following drawings and documents are requested from bidders to be submitted along with the Part-2 (Technical offer) for evaluation of the bids :

- i) Outline general arrangement drawings indicating overall dimensions of the equipment offered for following major equipment: -
  - Carrier and carrier mounted equipment
- ii) Bidder to provide drawing showing minimum turning radius for the offered Design of Carrier.
- iii) Interconnection drawing b/w Driller's Console and Air shut-off device.
- iv) Outline drawing of Acoustic enclosure
- v) Schematic drawings of Engine and transmission control console.
- vi) Total control/interface drawing of controls at Driller's console, Control valves, Transmission, Engines, PTO & Hydraulic pumps shall be submitted.
- vii) Details information drawing/literature of Safety shut-off system.
- viii) Technical leaflet / catalogs of the offered design
- ix) Model number of offered Rig carrier
- x) Bidder shall provide list of commissioning spares for the offered design of Carrier & Carrier mounted equipment
- xi) Bidder shall provide list of operational spares with clear mention of time line for replacement for the life time of the Carrier & Carrier mounted equipment.
- xii) Bidder should submit following additional information along with the offer :
  - Approximate Weight of major components
  - All principal dimensions of Major components mounted on the carrier
  - Overall dimensions of the carrier-width/length/ Height with mast and without mast.
  - Power flow diagram from Engines to various equipment mounted on/under the carrier in well mode as well as drive mode.
  - Loading diagram of the carrier axles including the following
    - a. Total number of front axles of the Rig Carrier.
    - b. Total number of front steer axles of the Rig Carrier.
    - c. Make & model of front axles of the Rig Carrier.
    - d. Axle capacity of each of the offered front axle.
    - e. Estimated load on each front axle while the Rig Carrier is fitted with Mast & all other components, accessories etc.
    - f. Total number of rear axles of the Rig Carrier.
    - g. Total number of rear drive axles of the Rig Carrier.
    - h. Make & model of rear axles of the Rig Carrier.
    - i. Axle capacity of each of the offered rear axle of the Rig Carrier.
    - j. Estimated load on each of rear axle while the Rig Carrier is fitted with Mast & all other components, accessories etc.
    - k. Number of steer axle at rear (if any) of the Rig Carrier.



## **SECTION – 4**

### **DELIVERY SCHEDULE OF DESIGN DOCUMENT**

<b>DELIVERY SCHEDULE AFTER PLACEMENT OF PO</b>		
<b>Sl. No.</b>	<b>Item Description</b>	<b>Delivery</b>
1	Bill of Raw materials along with Material specifications	Within Two months from date of LOA/PO placement
2	Bill of Bought out items along with technical specifications	Within Two month from date of LOA/PO placement
3	Detailed Manufacturing documentation	Shall be sequentially provided within a span of 4 months from date of LOA/PO placement
4	O & M manual of carrier and carrier mounted equipment	Within Six months from date of LOA/PO



## **SECTION – 5**

### **PRICE BID FORMATS**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**1. Price bid Format for Design Charges  
(Technical specification Section – 3.1)**

Sl. No.	Description	Qty. per rig (A)	Unit Ex-works Price in USD (B)	Total Ex-works Price in USD (C=A*B)	Unit Weight in Kgs	Packed unit Dimensions (LxWxH) in mm
M1	Design Documentation charges	1 set				
<b>T1</b>	<b>Grand total (T1 = M1)</b>	Total in USD (Figures) ..... Total in USD (Words) ..... .....				

**2. Price bid Format for Supervisory support & Training charges  
(Technical Specification Section – 3.2)**

Sl. No.	Description	Qty. per rig (A)	Unit Rate in USD / INR (B)	Total Price in USD / INR (C=A*B)
S1	Lump sum Supervision & Training Charges	1 Set		
<b>T2</b>	<b>Grand Total of service charges (T2=S1)</b>	Total in USD (Figures) ..... Total in USD (Words) ..... .....		

**Note:**  
If any bidder appoints Indian agency for providing services for Installation, commissioning & Training in India of equipment supplied by bidder, then the quote for the service portion shall be in Indian currency and order for this will be placed in Indian currency on Indian Agency. Final responsibility of execution of project shall be with the prime bidder.





**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**3. GENERAL CONDITIONS FOR PRICE BID :**

3.1 Prices should be quoted on FIRM basis.

3.2 Lowest bidder (L1) for the complete package cost to BHEL (Design + Services) shall be arrived in Indian rupees as under after applying all loading factors, duties & taxes, Exchange rate, freight & insurance etc as detailed in Section – 2, Clause 16 (Instruction to Bidders) :

**“Complete package cost to BHEL = T1 + T2**

T1=Total Design Documentation charges in Indian Rupees

T2=Total Supervision & Training Charges in Indian rupees

**Above is BHEL standard procedure for comparison of price bids.**



## **SECTION – 6**

### **INTEGRITY PACT FORMAT**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**INTEGRITY PACT (IP)**

(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.

Sl	IEM	Address	Email
1	Shri Arun Chandra Verma, IPS (Retd.)	Flat No. C -1204, C Tower, Amrapali, Platinum Complex, Sector 119, Noida (U.P.)	acverma1@gmail.com
2	Shri Virendra Bahadur Singh, IPS (Retd.)	H. No. B-5/64, Vineet Khand, Gomti Nagar, Lucknow - 226010	vbsinghips@gmail.com

(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 compliant 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 tenders 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 contract person(s):

Sl	Name	Phone & Email
1	Shri Rajeev Kumar AGM/BHEL	Ph: +910423185290 Mo.:+919490746965 raj31@bhel.in
2	Shri Bapiraju Bonagiri DGM/BHEL	Ph: +910423182811 Mo.:+919490760296 bapiraju@bhel.in



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

BHEL-IP

AA:SSP:IP:R03 dtd 01-04-2022

Annexure-1

**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 \_\_\_\_\_

\_\_\_\_\_ (hereinafter referred to as "Contract"). 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 panel of Independent External Monitor(s) (IEMs), 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. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

BHEL-IP

AA:SSP:IP:R03 dtd 01-04-2022

- 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 shall 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, terminate the contract, if already awarded, exclude from future business dealings and/ 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 (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above, the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.



BHEL-IP

**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

AA:SSP:IP:R03 dtd 01-04-2022

**Section 5 - Previous Transgression**

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) 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 or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

**Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)**

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity 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 panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are 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 IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs 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 IEMs the option to participate in such meetings.



# Tender specifications for Pre-bid Tie-up for Supply of Design Documentation Specification No. OE57164 Rev-00

BHEL-IP

AA:SSP:IP:R03 dtd 01-04-2022

- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a 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 or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, 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 the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs 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 Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have 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 IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

## Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact 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. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, 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.



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

BHEL-IP

AA:SSP:IP:R03 dtd 01-04-2022

**Section 10 - Other Provisions**

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact 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 Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

-----  
For & On behalf of the Principal  
(Office Seal)

-----  
For & On behalf of the Bidder/ Contractor  
(Office Seal)

Place \_\_\_\_\_

Date \_\_\_\_\_

Witness: \_\_\_\_\_  
(Name & Address) \_\_\_\_\_

Witness: \_\_\_\_\_  
(Name & Address) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_





## **SECTION – 7**

### **NON DISCLOSURE AGREEMENT**



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**Confidentiality Agreement**

This **CONFIDENTIALITY AGREEMENT** (“**Agreement**”, which expression shall unless it be repugnant to the subject or context thereof, include all schedules and amendments thereof made from time to time) is made on the date set out in Schedule ) hereof (the “**Effective Date**”) between the person (s) named in Schedule hereof (the “**Receiving Party**”) of the One Part.

**And**

**BHEL LIMITED**, a company incorporated under the companies Act, 1956 and a banking company within the meaning of the banking Regulation Act. 1949 and having its registered office at / its corporate office at BHEL Towers, ----- and the Zonal branch/branch office at \_\_\_\_\_ (“**BHEL**”, which expression shall, unless it be repugnant to the subject or context thereof, include its successors and assigns) of the Other Parts.

The Receiving Party and BHEL are hereinafter collectively referred to as “Parties and individually as a “Party”,

**PREAMBLE:**

- (i) BHEL is considering a project involving ----- (Insert Company Name & brief description of Project), the Receiving Party (“ the Project” ), as more particularly specified in detail in Schedule 2 of this agreement for which BHEL will divulge certain information to the Receiving Party which at present is confidential and not in the public domain.
- (ii) BHEL intends that the aforesaid information be kept confidential as between the Receiving Party and BHEL and the Receiving Party undertakes and declares that it shall not divulge, publish or reproduce the same before and person except in accordance with the terms of this Agreement.

THEREFORE, IN COSIDERATION OF BHEL making available such confidential information as aforesaid to the Receiving Party, the Parties agree as follow

(1) For the purpose of this Agreement, “**AFFILIATE**” of BHEL shall mean and include:

- (a) Any company which is holding company or subsidiary of BHEL, or
- (b) A person under the control of or under common control with BHEL, or
- (c) Any person, in more than 26% of the voting securities of which BHEL has a direct or beneficial interest.

For the purpose of this Affiliate and Agreement, “control” together with grammatical variations when used with respect to any Person, means the power to direct the management and policies of such Person, directly or indirectly, Whether through the owner ship of the vote carrying Securities, by contract or otherwise however; and “Person” means the company, corporation, a partnership, trust or any other entity or organization or other body Whatsoever.

- (2) The Receiving Party hereby agrees that all the confidential, proprietary or trade secret information relating to BHEL including without limitation, information regarding the business operations, financial information, customer information and marketing strategies of BHEL and any notes, compilations, studies, interpretations, presentations, correspondence or other writing made available to the receiving Party by BHEL whether in physical or electronic form, whether after the effective date or prior to the execution of this agreement, and in specifically marked “ **CONFIDENTIAL**”, INCLUDING any verbal indication that has been documented in writing and marked as “**Confidential Information**”. The receiving Party agrees that all the confidential Information shall be treated as absolute secret and the receiving Party shall not disclose to any person such information otherwise than in accordance with the terms of this Agreement. The Receiving Party will impose a similar duty of confidentiality on any person to whom the Receiving Party is permitted to transfer such information in accordance with the terms hereof.
- (3) The receiving Party shall not, without the prior written consent of BHEL, display or disclose all or any part of the confidential Information, in any manner or circumstances whatsoever, to any person or any third party and all Confidential Information contained herein shall be used by the receiving Party, directly or indirectly solely for the purpose of considering, evaluating and effecting the Project. The receiving Party shall not use the Confidential Information in any way detrimental to BHEL.
- (4) The receiving Party hereby represents that any employee or any official of the Receiving Party who will be given access to the Confidential Information on behalf of the Receiving Party has executed/ shall execute appropriate non-disclosure contracts with the receiving Party for adequate protection of the confidential information belonging to BHEL and/or its



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

- Affiliates against disclosure or exploitation. The receiving Party shall forthwith make available a copy of such contracts as and when required BHEL.
- (5) The receiving party shall maintain a record of entities/persons to which the Confidential Information has been disclosed. This record shall be promptly made available to BHEL upon request.
- (6) Without limiting the above, the Receiving Party further undertakes:
- (i) Not to disclose that the confidential Information is or has been or will be made available or that evaluation of the Confidential Information is being or has been or will be made.
  - (ii) Not to make copies of, or reproduce or display in any form and by any process, all or any of the Confidential Information, except in the form of notes or memoranda, whether in physical or electronic form, made by Receiving Party employees/ officials during their evaluation of the Confidential Information;
  - (iii) To limit the access to the Confidential Information solely to those of its directors, officials or employees who have reason to require access only on a **"need to know"** basis;
  - (iv) To ensure that each of such director, official or employee referred to in Clause 6 (iii) hereinabove, to whom the Confidential Information is disclosed, observes strictly, the restrictions as to use and disclosure contained herein;
  - (v) To return all Confidential Information to BHEL forthwith and within a period of 10 days upon request by BHEL or upon the Receiving Party or BHEL deciding not to proceed with the Project. Should BHEL permit the destruction of such Confidential Information, the Receiving Party shall destroy the Confidential Information, within the period as may be specified by BHEL and shall provide BHEL with written notice that such destruction has been carried out.
  - (vi) To use the Confidential Information solely for the purpose of considering, evaluating and effecting the Project as specified in Schedule 2 hereto and to take all steps necessary to protect the secrecy of the Confidential Information from falling into the public domain or into the possession of unauthorized persons.
  - (vii) To keep confidential the fact of existence of discussions between the Receiving Party and BHEL concerning the Project, unless otherwise required by law and not make any private or public announcement or statement concerning or relating to the Project.
7. The restriction on use and disclosure set out above shall not apply to any Confidential Information which at the date of its disclosure to the Receiving Party is public knowledge or which subsequently becomes public knowledge other than by way of a breach of the terms of this Confidentiality Agreement; Or was available to the Receiving Party prior to its disclosure to the Receiving Party by BHEL under the terms of this Agreement; Party by BHEL under the terms of the Agreement: or is required to be disclosed by way of a legal process regulation or Government order, decree, regulation or rule; Provided herein after that for the purposes of the above section, such circumstances as defined above shall be tangibly proved to the satisfaction of BHEL in order to qualify as an exception under this category.
8. The Receiving Party agrees that all Confidential Information shall remain the property of BHEL or its Affiliates and that BHEL may use such confidential information for many purposes without any obligation to the Receiving Party. Nothing contain herein shall be construed as granting or implying any transfer to rights (including license rights ) to the Receiving Party in the Confidential Information.
9. The Receiving Party agrees and understands that by the furnishing or making available of the confidential information, neither BHEL nor any of its agents are making any representation or warranty express or implied as to the accuracy or completeness of the confidential information. BHEL shall not be liable to the Receiving Party or any other person to use of the confidential information.
10. The Receiving Party shall immediately notify BHEL of any known or suspected breaches of this Agreement and shall give BHEL Full Corporation in any search or security.
11. If either party decides that it does not wish to proceed with the Project, such party will promptly advice the other party shall forthwith return all confidential information to BHEL and shall not retain any copies of the same, in any form whatever. The receiving Party shall further certify compliance with this clause to BHEL forthwith in writing.
12. The Receiving Party hereby agrees to forth indemnify and hold harmless BHEL and its Affiliates from and against any claim and loss or damages, liability (including the legal fees) arising out of or in connection with any unauthorized or any other breach of the terms and



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

- conditioning contained in this Agreement. This clause shall survive the termination or expiration of this Agreement.
13. The Receiving Party acknowledges that any breach of the terms and conditions of this agreement may cause BHEL irreparable damages for which recovery of money damages would be inadequate. Therefore, the Receiving Party agrees that BHEL or its nominee (in BHEL's sole discretion) shall be entitled, in addition to any other remedies available to it, to seek injunctive relief and/or from its employees/officials, or otherwise to protect its rights, under this Agreement.
  14. in the event the Receiving Party is required to disclose Confidential Information upon an action, subpoena or order of a court of competent jurisdiction or of any requirement of legal process regulation or governmental order, decree, regulation or rule, the Receiving Party will immediately notify BHEL of its having received a request to so disclose (alongwith the terms and circumstances thereof), and consult with BHEL on action or steps to be taken in response to such request and shall finally execute any such request in accordance with the satisfaction of BHEL.
  15. This Agreement shall be binding upon and shall inure for the benefit of the heirs (if applicable), successors and assigns of the Parties hereto.
  16. This Agreement represents the entirety of the agreement of the Parties relating to the disclosure of the Confidential Information and shall not be waived, amended or assigned by either Party except by prior written consent of the other Party. No failure or delay by any party in exercising any right, power or privilege hereunder shall operate as a waiver thereof nor shall any single or partial exercise of any right, power or privilege. The rights and remedies herein provided shall be cumulative and not exclusive of any rights or remedies provided by law.
  17. This Agreement may be executed in counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same agreement.
  18. If any provision of this Agreement is determined to be unenforceable for any reason, then the remaining provisions hereof shall remain unaffected and in full force and effect.
  19. This Agreement, the relationship between the Parties and all rights and obligations arising from any act done or required to be done under this Agreement and the terms herein shall be governed by and construed in accordance with the laws in India. The courts at Mumbai shall have the jurisdiction to try any matters arising out of or in connection herewith.
  20. Nothing in this Agreement shall obligate either Party to consummate any transaction discussed as a result hereof.
  21. This Agreement shall become binding on the Parties from the Effective Date and shall be in force such tenure as specified in Schedule I and shall remain in force for the entire term of the Project Notwithstanding anything contained herein, the obligations of Receiving Party Under this Agreement to retain secrecy of the Confidential Information shall however survive and be continuing until the Confidential information disclosed by BHEL is no longer confidential and is in public domain without any breach of the terms and conditions hereof by the Receiving Party.
  22. Unless otherwise provided herein, all notices or other communications under or in connection with this Agreement shall be given in writing and may be sent by personal delivery or post or courier or facsimile at the address as specified in Schedule I hereto. Any such notice or other communication will be deemed to be effective if sent by personal delivery, when delivered, if sent by post, 4 (four) days after being deposited in the post and if sent by courier, one day after being deposited with the courier, and if sent by facsimile, when sent (on receipt of a confirmation to the correct facsimile number).
  23. For the avoidance of the doubt, the owner hereby reserves the right at all times to file for / oblige for any applicable copyright / patent and / or any other licenses as applicable and to this effect the Receiving Party hereby undertake to ensure that there is no infringement of the owner's Intellectual Property Interest (IPR) at any time.



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**

**SCHEDULE I**

1. **Effective Date:** \_\_\_\_\_ day of \_\_\_\_\_ (Month).20\_\_\_\_\_  
(year)

2. **The Receiving Party:**

\_\_\_\_\_, a company registered under the provisions of the Companies Act, 1956, and having its Registered Office at \_\_\_\_\_.

The expression "Receiving Party" shall, unless it be repugnant to the subject or context thereof, include its successors and permitted assigns.

3. Tenure:---- Years

4. Address for Notices:

If to BHEL:

BHEL Limited,

BHEL Towers,

Siri Fort

New Delhi 110049

Facsimile Number:

Tel No.:

Attn:

If to the Receiving party:

[Address]

Facsimile Number:

Tel No.:

Attn:

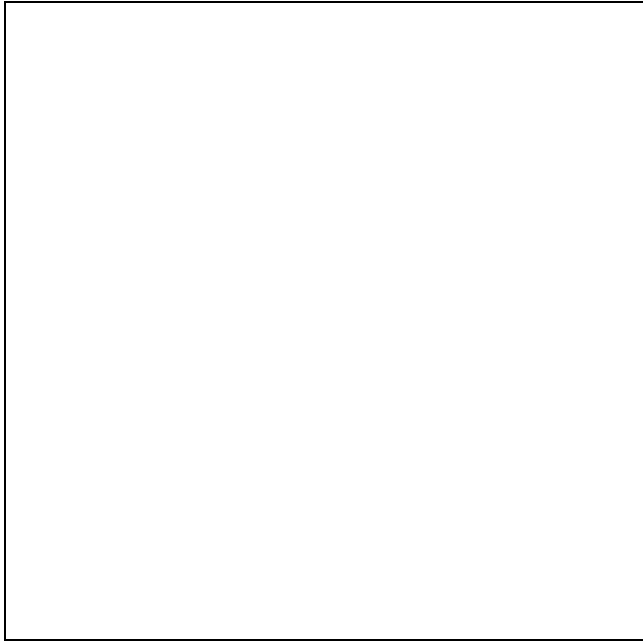
**SCHEDULE 2**

**PROJECT**

IN WITNESS WHEREOF, the Parties have caused the Agreement to be executed in the manner hereinafter appearing.



**Tender specifications for Pre-bid Tie-up for  
Supply of Design Documentation  
Specification No. OE57164 Rev-00**



In the presence of:

1)

2)

AND

Signed and Delivered by BHEL  
LIMITED, the within named BHEL by the  
Hand of \_\_\_\_\_, its  
Authorized official in the presence of:

1) \_\_\_\_\_;

2) \_\_\_\_\_.