



TENDER

FOR

SUPPLY OF 2X125 MT WORKOVER RIG 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 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

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 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

CONTENTS

Sl No	Section	Title
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
5	SECTION – 4	PRICE BID FORMAT
6	SECTION – 5	INTEGRITY PACT FORMAT
7	SECTION – 6	PERFORMANCE BANK GUARANTEE FORMAT
8	SECTION – 7	NON-DISCLOSURE AGREEMENT



SECTION – 1

GENERAL REQUIREMENT



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

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 ~4 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.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

2.0 PURPOSE

- 2.1 This tender document is issued specifically to address the Workover Rig requirement from Oil India Limited for supply of 2 nos. of 125T Work Over Rigs.
- 2.2 The intent of this Tender is to invite bids from OEMs or their authorized distributor who are willing to work with BHEL as per the broad scope indicated in **Annexure-1** and detailed technical specifications (Refer **Annexure-3**).
- 2.3 Bidder(s) shall submit their bids in two parts i.e. Part-I (Documentation for Prequalification, Techno-commercial bid) & Part-III (Price bid) within the due date for bid submission.
- 2.4 BHEL shall open Bid part-1 along (in camera).
- 2.5 BHEL shall evaluate PQC & Techno-commercial offers and may seek further clarifications on the bids submitted. After final evaluation of Part-1 PQC & Techno-commercial bids of qualified bidders by BHEL, Part-2 Price bids shall be opened in camera only of the bidders whose Part-1 bids are found to be meeting BHEL tender requirements.

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.
- 3.3 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.
- 3.4 Duly authorized representative of the bidder(s) shall sign on each page of the bid document.
- 3.5 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.
- 3.6 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.
- 3.7 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.
- 3.8 All costs incurred for participation in the tender shall be borne by the respective Bidder.
- 3.9 Bidder will provide name and contact of respective personal/s to BHEL (upon request) for documents verification requirement.
- 3.10 Bidder may submit their application as per **Annexure -2** (along with supporting documents for Bid Part-I, & Part-2) 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
Pin code – 502032 India.
Email: technicalbid_hyd@bhel.in (for Part-1)
pricebid_hyd@bhel.in (for part-2 Price Bid)
Phone: +91 40 23183271 (office)

Part-1 Bid



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

4. 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 on the submission date of tender documents:

Financial:

4.1 Applicant must meet following financial parameters:

4.1.1 Having net positive worth (Paid up share capital + Reserves) in last three years based on latest audited accounts for financial year ending on *31st March 2018, 2019 and 2020 or 31st Dec 2017, 2018 and 2019.*

(The bidder should submit last three year's balance sheet/D&B report including the profit and loss account and net worth duly audited by a Chartered Accountant.)

Technical:

4.2 Bidder must be a Rig manufacturer (OEM) or their authorized distributor.

4.3 Bidder should have experience of supplying at least 02 (two) nos. of 125MT or higher capacity mobile rig packages in the last five years preceding the original closing date of this tender 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

4.4 Bidder must submit an undertaking for uninterrupted supply of spares and availability of services for at least 10 years from the date of supply of total package.

5.0 Undertakings to be submitted along with Bid Part-1

Bidder must furnish the following undertakings:

- 5.1 Bidder must submit an undertaking for uninterrupted supply of spares and availability of services for at least 10 years from the date of supply of total package.
- 5.2 Offered equipment shall be brand new, unused, of recent manufacture, not manufactured from recycled steel and free from any manufacturing defect.
- 5.3 Bidder shall undertake assembling / installation and commissioning of supplied equipment in India at BHEL Hyderabad works and at the rig locations to the satisfaction of M/s BHEL & M/s OIL.
- 5.4 Bidder shall undertake training for Operation & Maintenance personnel as per the scope of work defined in the tender



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

- 5.5 Bidder must categorically confirm in their technical bid that the rig packages shall be shipped or dispatched within 5 months from the date of LOI.

Bidder shall quote for all 2 nos. of rig packages. Conditional offer or offer for lesser quantity shall not be considered and shall be rejected straightaway

Annexure-1

BIDDER'S BROAD SCOPE

Scope of Bidder and BHEL Hyderabad for manufacturing of complete work over rig:

BHEL scope	Bidder's scope
1. Design, manufacturing and supply of Mast, Substructure & Crown Block (Excluding Mast extending cylinder) 2. Rig Ramp 3. Manufacturing and supply of Rotary Table 4. Supply of Travelling Block & hook 5. Casing line 6. Rotary Hose 7. Hydraulic catworks. 8. Hydraulic tubing Tong 9. Auxiliary Air Compressor 10. Mast Lighting 11. Elevated Rotary drive assembly from carrier to Rotary table 12. Trial assembly of rig at BHEL Hyderabad works under the supervision of L1 bidder 13. Testing & commissioning at BHEL Hyderabad works under the supervision of L1 bidder 14. Testing & commissioning at M/s. OIL site under the supervision of L1 bidder 15. Generating sets and Electrical system	1. Supply of carrier with carrier mounted equipment like Draw works, Engines, Transmissions, Gear Boxes, Hydraulic System including Tank and Pump, Pneumatic system, Dead line anchor, Hydraulic winches, elevated Rotary drive system, Mast raising cylinders and telescopic cylinder, Hydraulic levelling Jacks etc. 2. Supply of Mast extending cylinder 3. Supply of elevator links 4. Guying ropes 5. Standpipe Manifold with accessories 6. Working Tools for engine and transmission 7. Supply of spare parts as per the Annexure- II, Annexure-IV and spares for Engine, Allison Transmission, Hydraulic system as indicated in respective sections. 8. Supply of any other items required for commissioning & successful testing of the carrier. 9. Installation, Commissioning & testing Support at BHEL and OIL site. 10. Training to OIL & BHEL personnel 11. Checking of Drawings of Mast, Rig ramp & Elevated Rotary drive from carrier to Rotary table for suitability to carrier 12. Annexures- II, IV and V to be quoted in price bid along with spares for Engine, Allison Transmission, Hydraulic system mentioned in respective sections along with part numbers.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

1. Supply of Carrier with carrier mounted equipment like Draw works, engines, transmissions and other equipment which are necessary for operation of the rig.

Complete under carrier assembly in assembled condition including differential, Engines with transmission system, suspension, power steering, brakes, tyres and braking system, pneumatic and hydraulic system, carrier electrical system, driver cabin, rotary drive system to Elevated rotary drive, hyd. Power tong circuit, hyd. Winches, hyd. Tubing tong with accessories, elevator links, deadline anchor, manufacturing drawings of rotary elevated drive, Carrier rig ramp in two pieces, with tyre guides, load beams, jack supports, turn buckles, mud boat decking and chequered plate, tie up arrangement with substructure. All the other systems which are mentioned in detailed technical specification(Annexure-3) required for rig operation in drilling mode and transportation mode.

2. Hydraulic Cylinder(s) for raising/lowering of mast.
3. Telescopic cylinder.
4. Trial assembly of rig at BHEL Hyderabad works under the supervision of L1 bidder
5. Testing & commissioning at BHEL Hyderabad works under the supervision of L1 bidder
6. Testing & commissioning at M/s. OIL site under the supervision of L1 bidder.
7. Supply of spare parts as per the Section-3 (Technical Specification).
8. Bidder to fill clause wise technical compliance sheet provided in technical specification section-3



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

Annexure 2

Information to be submitted by Applicant

1. Name of the Company:
2. Legal status of the Company:
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:
7. Documents to be enclosed:
8.
 - a) Technical Credentials – Relevant Product/System catalogues, Experience /Reference List, Copies of Customer Certificates, Engineering strengths, quality accreditations, etc & mandatory documents as listed in Clause 4.0 (PQR).
 - b) Financial Credentials – Copies of Audited Financial statements (Annual Reports) for last 3 years, Credit Rating & mandatory documents as listed in Clause 4.0 (PQR)
 - c) Other documents considered relevant to meet PQR and support evaluation criteria.

(Sign & Company Seal)

Authorized signatory

----- End of Section-1 -----



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

SECTION – 2

INSTRUCTION TO BIDDERS (GENERAL TERMS & CONDITIONS)



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

(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	VENDOR RESPONSE (YES/NO)	DEVIATIONS / COMMENT
1	SCOPE OF SUPPLY:		
	Signed & Sealed offers are invited for the Scope of Supply of goods and Services 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 technicalbid_hyd@bhel.in, Part-2 bid for Techno-commercial offer to be submitted to mail ID technicalbid_hyd@bhel.in, and part -3 ,price bid to be submitted to mail ID pricebid_hyd@bhel.in 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. 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.		
2	GENERAL INSTRUCTIONS:		
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.		Non Deviatable
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.		Non Deviatable
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.		Non Deviatable



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

D	Offers shall be submitted directly, only by the Original Equipment Manufacturer 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. 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.		Non Deviatable
E	Offer received after the specified time and date of submission shall be rejected. No further correspondence shall be entertained.		Non Deviatable
3	OTHER PARTICULARS (Please indicate applicable data)		
A	Name of the Bid currency (freely tradable foreign currency for imports and Indian Rupees for indigenous purchase).		
B	Name of the Port of loading and Port of Discharge (applicable to imports).		

4	BID SUBMISSION PROCEDURE:		
A	For Two-Part Bids :		
i	Three part bid consisting of i) Pre-Qualification bid (PQR) – (Part-1), with all relevant documents for qualification of bidder & shall be kept in a separate sealed cover super subscribing Enquiry no. (PQR Bid Part-1) & due date. ii) Techno-commercial Bid – (Part-2), with all technical specification & 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, except The price, 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) 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) & due date. All these covers shall be kept in a fourth cover super subscribing Enquiry no. & due date. All techno commercial terms & conditions mutually agreed prior to price bid opening shall prevail and supersede any terms and conditions specified otherwise in price bid.		Non Deviatable



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

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.		Non Deviatable
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.		Non Deviatable
v	Bids shall be opened in camera on due time and date. No representative of bidder shall be permitted to attend the bid opening.		Non Deviatable
5	Delivery Instructions		
A	Indigenous Purchase		
	Goods shall be delivered on FOR Destination basis to the named destination(s) or as specified in the enquiry, Insurance in the scope of supplier.	FOR INDIGENOUS BIDDERS	
B.	Imports		
	The goods shall be delivered on FOB-basis up to nearest sea port / airport at the country of dispatch.		
6	Documentation:		
A	Indigenous Purchase		
	Seller shall arrange to send to BHEL, Hyderabad along with all the required documents as detailed in Purchase Order, such as, Tax Invoice (Original for Recipient, Duplicate for Transporter), consignee copy of LR, Packing list , Pre-dispatch Inspection report, Test/ Guarantee/ Warranty certificate/ O&M manuals (as applicable) etc. immediately on dispatch of the goods. Any addition/ exclusion to such documents shall be as specified in the Purchase Order. In case of dispatches from vendor works to site, material receipt certified by site office / Customer shall be provided. Softcopies of the above documents shall be uploaded in Pradan portal https://web.bhelhyd.co.in/mm/ immediately after dispatch of the material	FOR INDIGENOUS BIDDERS	Non Deviatable



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

B	Imports (i). Seller shall inform the purchaser the readiness of material along with packing details well in 30 days advance from the date of delivery. Seller shall also upload soft copy of the dispatch documents consisting of Bill of lading, Invoice, Shipping list & Test certificates and other documents as specifically indicated in the Purchase Order (PO) in PRADAN Portal (https://web.bhelhyd.co.in/mm/) within 3 days from the B/L date for sea shipment and 1 day from AWB date for Air shipment or as mentioned in BHEL PO. On BHEL web portal or shall email the same at address indicated in PO within 3 days from the B/L date for sea shipment. (ii). In case the material shipped in Full Containers(FCL), Seller shall ensure that the Bill of Lading should clearly spell out the following 1. Port of discharge – JNPT Nava Seva/ Mumbai port. 2. Place of Delivery / Final Destination – Mumbai. 3. For air consignment the port of discharge will be Hyderabad, India and consignee shall be BHEL. 4. Any break bulk shipment, packing list and item details to be provided 60 days prior to shipping. iii) ----		
---	--	--	--



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

(IV) In case of Air shipment, the following dimensions of single package may be noted.

a). Dimension of the cargo(ODC) -- > 125" x 88" x 63"

b). Weight of the cargo -- >3.5 MT.

If any package dimension or weight crosses the above set limits, it will be treated as Over Dimension Cargo (ODC) or Over Weight Cargo and seller shall inform BHEL well in advance of 20 days prior to the delivery date to enable BHEL to finalize the freight forwarder

(v). Recovery charges for non-submission of documents : -

Seller shall submit all the required documents to BHEL as prescribed in the Purchase order and NIT.

If BHEL incurs any charges such as Penalty, demurrage, container detention, wharf age, storage, Ground rent etc., due to non – compliance / non – submission of documents prescribed in Purchase Order/Tender Document/Letter of credit , the same shall be recovered from the seller as under :

1. EUROPE/USA/Black Sea/ Far East/Middle East/South East sector

A. For EX-WORKS / FCA/ FAS / FOB Sea Consignments:-

Penalty for late submission / negotiation of documents beyond 14 days shall be as under:

Sl. No	Period (From Date of Bill of Lading)	Recoverable Charges	Recoverable Charges per day per container	
		LCL per week/ Break bulk cargo per day	20FT Container	40FT Container
i	Upto 14 th day	Nil	Nil	Nil
ii	15 th day onward	USD 10	USD 50	USD 105

(vi) Description of items in invoice, packing list, BL / AWB or LR shall be same as PO item description. Vendors shall ensure that invoice shall contain all tax related Nos of both seller and buyer. Any other additional documents sought by the statutory authorities, the same shall be produced by the seller on priority basis.

(vii) Seller shall provide package details including number of packages, gross weight, net weight etc.

(viii) The seller shall provide the following documents at the time of submission of offer :-

a) No Business Connection in India declaration issued by the seller as per the format specified. (or)

b) (i) No Permanent Establishment in India declaration issued by the seller as per the format specified.

(ii) Tax Residence Certificate issued by the seller's tax authorities.

(iii) Form 10F issued by the supplier.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

7	Delivery Schedule		
A	Bidder must categorically confirm in their technical bid that the rig packages shall be shipped or dispatched within 5 months from the date of LOI. The tendered goods shall be delivered within the period stipulated in PO . Delivery at BHEL can be accepted at the earliest, 30 days prior to delivery date as mentioned in the Purchase order. Delivery earlier than 30 days of contractual delivery date may be accepted with the written permission of BHEL –Purchase department. Goods ready for dispatch after the delivery date will be accepted only with the prior written permission of BHEL. BHEL reserves the right to reject the material, if not delivered by scheduled Purchase Order Delivery Date.		Non Deviatable
B	Documents such as Test Certificate, Guarantee Certificate, Inspection reports are to be submitted within 10 days of dispatch of the materials or as mentioned in PO / LC. Supply of plant/ equipment/ stores shall not be considered complete until they have been inspected and accepted at the place and destination specified for delivery by the time stipulated under the terms & conditions of the Order/ Contract. Mere payment by itself shall not constitute acceptance of the goods or materials in any manner, whatsoever.		
8	Pricing Terms		
	Prices once quoted shall remain firm and valid during the execution of PO / MoU. Offers with PVC will be rejected outright.		Non Deviatable
9	PRICE VALIDITY :		
	Unless otherwise specified, offer shall be valid for a period of 180 days from the date of P O placement		
10	Taxes & Duties (RATE TO BE INDICATED by the bidder against the space provided)		
A	Indigenous Purchase FOR INDEGENOUS BIDDERS		
	The Taxes as applicable shall be quoted in the following manner.		
I	Vendor to indicate HSN of Goods or SAC of Services. FOR INDEGENOUS BIDDERS		
ii	IGST/CGST/SGST/UTGST: Rate of Tax to be quoted as extra in %	FOR INDIGENOUS	
	NOTE: Bidders to ensure correct applicability of IGST/CGST/SGST/UTGST based on the Inter / Intra state movement of goods. Taxes prevalent on the contractual delivery date or the actual delivery date (incase of delay) which ever is lower shall be applicable paid. In case Bidder has opted for GST Composition Scheme, the same may be stated explicitly both in their technical and price bids.	FOR INDIGENOUS BIDDERS	
iii	Any other taxes & duties not covered anywhere above may be indicated separately.	FOR INDIGENOUS BIDDERS	



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

iv	Taxes deducted at source: TDS as per the extant statute shall be recovered. In case vendor does not provide PAN details/concessional certificates, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.	FOR INDIGE NOUS BIDDER S	Non Deviatable
B.	Foreign Purchase (Imports)		
i	The offered price shall be inclusive of all the Taxes and duties as applicable in country of bidder / country of dispatch for the quoted price.		Non Deviatable
ii	Taxes deducted at source: TDS as per the extant statute shall be recovered. In case vendor does not provide PAN details/concessional certificates, the TDS deduction shall be at the maximum percentage stipulated as per the provisions of Income Tax Act.		Non Deviatable
11	Payment Terms: Unless otherwise specified in Special Conditions, following shall be the terms of Payment.		
A	Imports: 80% for material value: Irrevocable, unconfirmed LC with a Usance period of 90 days from the date of bill of loading to be opened for 80% of value of rig equipment. LC shall be opened 2 months prior to the readiness of material for shipment on intimation by supplier/manufacturer. LC shall be opened after issuance of Performance bank guarantee @10% of contract value which should remain valid for the execution period and entire warrantee period. 10% of Rig equipment value shall be paid by Cash against documents with credit period of 90 days after installation and commissioning at site. - Balance 10% of Rig Equipment value shall be paid by Cash against documents on completion of 12 months from installation and commissioning. 100% of Installation and commissioning charges and training charges shall be paid by Cash against documents with credit period of 90 days on completion of I&C, training at OIL site. - Above clauses shall supersede any similar clauses of the ITB (Instructions to bidders). 100% for service charges for training against "Work Completion Certificate" issued by OIL within 90 days of the Invoice date for completed portion of service	FOR Import vendors	



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

B	Indigenous vendors :- i) 80% payment for material portion (less Indian Agency Commission, if any) shall be paid within 75 days from the date of receipt of complete documentation as per PO. However, payment would be done only after receipt of original documents, including site/ Customer acknowledgement on LR (MRC - Material Receipt Certificate at site) / GR clearance at BHEL Stores. ii) Balance 10% payment for material portion shall be released with in 75 days thru Wire transfer after satisfactory commissioning of equipment at M/S OIL Site after issuance of "Work Completion Certificate" by M/S OIL. iii) 100% service charges for installation and commissioning against "Work Completion Certificate" issued by OIL within 75 days of the Invoice date for completed portion of service thru Wire Transfert. iv) 100% for service charges for training against "Work Completion Certificate" issued by OIL within 75 days of the Invoice date for completed portion of service thru Wire Transfer. v) 100% charges for AMC service against "Work Completion Certificate" issued by BHEL within 90 days of the Invoice date for completed portion of service thru Wire Transfer / E-payment on quarterly basis after completion of specific quarters. vi) In case BHEL considers any deviation in payment terms i.e. early payment based on vendor's request, then bids shall be evaluated with loading as per Clause-16 E.		
C	No advance payment is acceptable.		Non Deviatable
D	Performance Bank Guarantee (PBG): Supplier to submit security deposit / Performance bank guarantee @ 10% of the purchase order value (for the ordered lot value) within 30 days from the date of PO. The PBG should be valid for 90 days beyond the warrantee period of last rig of each lot.		
12	Penalty clause: a) 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 delivery schedule/milestones for completion of material supply including spares. Total order value for above shall be order value for Material supply including spares. Rig wise material delivery are mentioned in Delivery schedule at Section-4 of this tender document. 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 Installation, Commissioning & Training of M/S OIL personnel. Total order value for above shall be Rig wise lot order value for Material supply including spares, Installation & Commissioning and Training of M/S OIL personnel. Rig wise Lot sizes for Installation, Commissioning & Training are mentioned in Delivery schedule at Section-4 of this tender document. c) Maximum applicable penalty for (a)+(b) above 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. Total order value for above shall be Rig wise lot order value for Material supply including spares, Installation & Commissioning and Training of M/S OIL personnel.		
13	Excess materials supplied beyond tolerance limit quantity as specified in PO, will not be accounted for.		Non Deviatable
14	Rejected materials , if any, shall be collected by the vendor within 21 days of such communication to the vendor .Beyond 21 days a ground rent of 0.25 % of the value of the material per week will be levied for a maximum period of two weeks. Beyond this period the supplier forfeits their right to the materials.		Non Deviatable



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

15	Guarantee / Warranty Period : (Deviation to this clause is not acceptable.) Wherever required, and so provided in the specifications/Purchase Order, the seller shall guarantee that the goods supplied shall comply with the specifications laid down, for materials, workmanship and performance. If within the guarantee period, the delivery is found to be non-complaint, the seller shall on his own account, replace repair, or re-execute the delivery at Purchaser's discretion on the purchaser's first request or within the mutually agreed period, without prejudice to Purchaser's other legal rights. If the seller continues to default on their obligations, purchaser has the right to proceed to replace, repair or re-execute the order at the seller's expense, with or without help from third parties. Purchaser shall notify the seller of the exercise of this right in advance where ever possible. Unless otherwise specified, guarantee period shall be 12 months from the date of s u c c e s s f u l commissioning of each rig package at M/S OIL site (Deviation is not acceptable for Period of 12 months). The guarantee period shall be extended by the period during which the goods are not in compliance. A guarantee period as described above shall apply afresh to replaced, repaired or re-executed parts of a delivery. Supplier shall depute their service personnel to attend the Guarantee and warrantee issues within 7 days of intimation by BHEL.		Non Deviatable
----	--	--	---------------------------

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.16.

16	Price Bid Evaluation and Loading Criteria : (Refer Section-5 of tender document for Price bid format & other details) :		
A	Evaluation of prices shall be done for complete package (Equipment & services). Evaluation shall be on the basis of delivered cost, i.e. "Complete package cost to BHEL for 5 rigs" 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	In case of foreign bidders, the quoted FOB price for material shall be loaded by the following factors to arrive at the Total landed material cost at BHEL Hyderabad :		
i	- 0.5% of FOB value for unloading at Port of Destination in India. - Marine Freight 4% and Marine Insurance 1% of FOB Value. With this loading CIP value shall be arrived and shall be converted to Indian Rupees with SBI TT selling exchange rate.		
ii	- Import Custom duty and other statutory taxes as applicable at the time of Price bid (Part-2 bid) opening date shall be applied on CIP value to calculate the landed cost after clearance at port in Indian Rupees.		
iii	- Port handling/ clearing charges & inland freight and insurance: @ 3% on the above landed cost at port (16.B.ii) to arrive at the "Total landed material cost at BHEL Hyderabad"		
C	In case of Indigenous Bidders, Ex-works offers received (as against FOR Destination mentioned in enquiry) shall be loaded by 4% of Ex-works value to arrive at the "Total landed material cost at BHEL Hyderabad"		



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

D	Deviated LD Penalty : Any loading on LD penalty clause shall be 10% or to the extent to which the vendor has opted for deviation. This is applicable for Material portion only.
E	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. This is applicable for both Material and Service portions of the bids.
F	In case the quoted Service Charges for Installation & Commissioning/ Training/ Documentation 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 opening. This shall be applicable for respective heads if quoted charges in foreign currency. These Charges in Indian Rupees then shall be taken for bid evaluation as per price bid format in Section-5.
G	In case the quoted Service Charges for Installation & Commissioning/ Training / Documentation are in Indian Rupees, then quoted charges shall be directly taken for bid evaluation as per price bid format in Section 5.
17	Procurement directly from the manufacturers/ suppliers shall be preferred. However, no agent shall be allowed to represent more than one manufacturer/ supplier in the same tender. Moreover, either the agent could bid on behalf of the manufacturer/ supplier or the manufacturer / supplier could bid directly but not both. In case bids are received from both from the manufacturer/ supplier and the agent, bid received from the agent shall be ignored.
18	RIGHT OF REJECTION /NON- PLACEMENT OF PO: BHEL reserves the right to accept or reject any or all bid/s in full or part without assigning any reason whatsoever.
19	INTEGRITY PACT Vendors shall have to enter into Integrity Pact with BHEL as per Section-5 – for order value of rupees five crores and above and shall be signed by the competent authority before the issue of purchase order, failing which vendor's offer will be rejected.
20	Public Procurement
20 A	Make in India 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 Annexure-5 .
20 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. https://www.mea.gov.in/ to be referred for latest details of competent authority and exemptions. Proforma for self-certification for compliance is given in Annexure-6
20 C	---



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

21	For Indigenous bidders : For Claiming Payments for goods received at BHEL works / Site from Supplier Works) a. Original of Invoice marked as ORIGINAL FOR RECIPIENT b. Duplicate of Invoice marked as DUPLICATE FOR TRANSPORTER c. Packing List – clearly showing number of packages, gross weight and net weight. d. Warranty/Guarantee certificates (If applicable as per PO terms) e. Insurance certificate f. Third Party Inspection Certificates. g. LR Copy signed & stamped by Site incharge / Customer for site deliveries) (For material received at BHEL payment will be made against GR for accepted quantity)
22	Inspection Measuring and Test Equipment (IMTE) whether used by the Seller/ Contractor or sub-contractor shall be calibrated, maintained and controlled. Calibration shall be valid and IMTE maintained in sound condition during usage.
23	ISO-9001, ISO14001 and OHSAS 18001 shall be complied
24	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, Ramachandra puram , Hyderabad & Bhopal (hereinafter referred to as “BHEL” or the Purchaser) or its projects/customers. 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. 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.
25	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
26	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.
27	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.
28	Any other terms and conditions of the bidder attached / referred against the tender enquiry may not be considered.
29	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.
30	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 www.bhel.com



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

31	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.	
34A	'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.
34 B	'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 be. It may also be referred to as Bidder, Contractor, supplier or vendor.
34 c	'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. 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.
35	'Parties to the contract' shall mean the seller and the purchaser as named in the main body of the Purchase Order.
36	Ordering and confirmation of order after Pre-Bid Tie up (MOU)
	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. 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. 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.
37	Execution
	The whole contract is to be executed in the most workman like manner, substantial and approved as per the contracted terms.
38	Progress Report
	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. Milestones shall be periodically updated by vendor/subcontractor through PRADAN Portal (https://web.bhelhyd.co.in/mm/). Non upadation will adversely affect service rating of vendor performance.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

39	Product information, Drawings and documents / Non-disclosure and Information Obligations
	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. 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. 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. 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. 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-8 wherever applicable.
40 A	The equipment / item shall be manufactured by approved quality system and each part/component may be inspected and tested by the Purchaser / authorized third party inspector nominated by purchaser prior to shipment and shall fully comply with relevant requirements of Purchaser. Purchaser has the right to inspect at any stage during manufacture/ delivery. In the event of rejection, Purchaser shall inform the seller accordingly and Purchaser shall be entitled to replacement or repair at his discretion or may proceed to terminate or cancel the agreement. All this, does not affect Purchaser's right to recover compensation.
40 B	Purchaser or his authorized representative shall be entitled at all reasonable times during execution to inspect, examine and test at the seller's premises the material and workmanship of all equipment / items stores to be supplied under the contract, and if the part of the equipment/items are being manufactured at other premises, the seller shall obtain for purchaser or his authorized representative permission to inspect, examine and test as if the said stores equipment / items are being manufactured at the seller's premises. Such inspection, examination and testing, if made shall not release the seller from any obligation under the contract. For indigenous suppliers all costs related to first inspection request shall be borne by the purchaser and the cost of subsequent inspections due to non-readiness of material/rework/ rejections shall be borne by the seller. In case of imports all inspection charges including third party inspections if any shall be borne by the seller. The cost of inspection staff/third party specified by the Purchaser shall be borne by seller unless otherwise specifically agreed. Whether the contract provides for tests on the premises of the seller or any of his sub-contractor/s, seller shall be responsible to provide such assistance, labor, materials, electricity, fuels, stores, apparatus, instruments as may be required and as may be reasonably demanded to carry out such tests efficiently. Cost of any type test or such other special tests shall be borne by the seller unless otherwise specifically agreed in the contract. The Seller shall give the authorized representative of the purchaser reasonable notice in writing of the date on and the place at which any equipment / items will be ready for inspection/ testing as provided in the Contract. Annexure – 4 may be strictly be complied with for the time lines. Any delay in submission of the documents by the vendor will not alter the delivery date.
41	Quality and Condition of the Deliverables



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

	The seller shall be responsible for compliance with applicable technical, safety, quality, environmental requirements and other regulations in relation to his products, packaging and raw and ancillary materials.
42	Packaging and Dispatch
	The seller shall package the deliverables safely and carefully and pack them suitably in all respects considering the peculiarity of the material for normal safe transport by sea/air/rail/road to its destination suitably protected against loss, damage, corrosion in transit and the effect of tropical salt laden atmosphere. The packages shall be provided with fixtures/hooks and sling marks as may be required for easy and safe handling by mechanical means. Special packaging conditions/ environmental conditions as defined in the enquiry shall be fully complied. Each package must be marked with consignee name, P.O. number Package No. gross weight & net weight, dimensions (LxBxH) and seller's name. The packing shall allow for easy removal and checking of goods on receipt and comply with carrier's conditions of packing or established trade practices. Packing list of goods inside each package with P.O. item No. & quantity must also be fixed securely outside the box to indicate the contents. If any consignment needs special handling instruction, the same shall be clearly marked with standard symbols/instructions. Hazardous material should be notified as such and their packing, transportation and other protection must confirm to relevant regulations.
43	Delivery :
	Except as otherwise indicated in the Purchase order, delivery shall be FOB for imported orders. The delivery date (s) or delivery period (s) as stipulated in the agreement shall be firm and binding and shall apply to the entire delivery for each P.O. item. Partial shipments may however, be permitted by the purchaser on prior intimation from the Seller. Unless specifically agreed otherwise, transit insurance coverage will be by BHEL. Accordingly, the seller shall send an intimation to the Purchase officer/Manager giving Purchase Order No., shipping particulars, Invoice value etc., immediately on readiness of goods.
44	Late delivery Penalty
	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 52 (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. 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. Total order value for above shall be Rig wise lot order value for Material, Service charges for Installation, Commissioning and Training for M/S OIL personnel However, penalty for delayed delivery will be calculated on 100% of the purchase order value if the material supplied cannot be put to intended use. The penalty will be charged on the value of the purchase order excluding statutory levies, freight and insurance wherever not included in the price. Penalty amount so determined along with applicable GST thereon shall be recovered. Imposition, recovery or settlement of this penalty shall not affect Purchaser's right to performance, compensation and termination of the agreement. For delay analysis, period referred in Annexure-4 will be considered as standard time lines for various major activities.
45	Transfer of Ownership and Risk
	The risk for the delivery remains with the seller until the goods are delivered at the agreed place. However ownership shall get transferred as per terms of purchase order in line with INCOTERMS.
46	Price, invoicing and payment



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

	The agreed prices are fixed prices in the currency as specified in the Purchase Order. They shall include packing, forwarding, loading and carriage to the place specified by the purchaser and are exclusive of all applicable taxes, duties etc., except for those specifically agreed by the Purchaser. Invoices shall be submitted bearing the Purchase Order number & date, item number/s and supporting documents as called for in the Purchaser order. 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. 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.
	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. 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. In case of delay in receipt of supporting document details, consequential demurrage/wharf age /detention charges shall be to the account of the seller. 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.
47	Contract variations; Increase or decrease in the scope of supply
	Purchaser may vary the contracted scope during execution due to exigencies of project requirement. 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.
48	Short shipments/ warranty/guarantee replacements
	In case of any short shipment during initial supply which is subsequently dispatched by the seller or any guarantee / warranty replacements shall be dispatched on "DDP-Delivered duty paid BHEL stores" basis for imported items and "FOR-BHEL Stores/designated destination" basis for indigenous items. Taxes, if any paid by indigenous vendor for short supply, guarantee /warrantee replacement, repair activity shall be to vendor's account only. Vendor has to raise a credit note for short supplied quantity as per GST provisions
49	Rejection/Replacement
	The seller shall arrange replacement / repair under its obligation under the contract within one month from the date of intimation or mutually agreed period. The rejected goods shall be taken away by the seller and replaced on DDP/FOR-BHEL Stores/designated destination basis within such period. In the event of the seller's failure to comply. Purchaser may take appropriate action including disposal of rejections, at the cost and risk of the seller. Vendor has to raise a credit note for rejected quantity as per GST provisions.
	In case defects attributable to seller are detected during processing of the goods at purchaser's / his subcontractor works, the seller shall be responsible for replacement /repair of the goods as required by the purchaser at seller's cost.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

50	Export Administration Regulations
	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.
51	Cancellation / Termination of contract and risk purchase
	Purchaser shall have the right to completely or partially terminate the agreement by means of written notice to that effect without prejudicing their other rights in the event that : -The seller is declared bankrupt, its business has been shut down or liquidated, a substantial part of its assets have been attached/destroyed, or the business has been transferred to a third party. -Any misrepresentation or hiding of material fact if detected at a later stage. -The delivery is rejected after inspection or re-inspection. -In the event of termination, the risk of the items already delivered but not of use to Purchaser, as determined by purchaser, remains with the seller. The items shall then be at the seller's disposal and they are to be collected by the seller. The seller shall refund any payments made by purchaser in terms of the terminated agreement immediately, not later than 30 days, - In the event of Cancellation/ termination of contract, BHEL reserves the right to procure the items which are not delivered as per PO and charge the excess cost from the defaulting seller. Incase the excess cost is not repaid by or recovered from the defaulting seller within 30 days, apart from legal recourse for effecting such recoveries, Penal action in line with BHEL's Suspension of Business dealings will be taken.
52	Force Majeure
	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. 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. 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. 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.
53	Non-waiver of Defaults
	If any individual provision of the contract is invalid, the other provisions shall not be affected.
54	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 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

55	Arbitration & conciliation clause and Interest clause : (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. The Arbitrator shall pass a reasoned award and the award of the Arbitrator shall be final and binding upon the parties. 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. 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. 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. In case of contract with Public Sector Enterprise (PSE) or a Government Department, the following shall be applicable: 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. (2) INTEREST CLAUSE: In order to bring uniformity in all the contracts / agreements entered between BHEL and its contractors / vendors / suppliers / service providers etc., it is hereby advised to incorporate the following clause in all tenders and agreements. “No interest shall be payable by BHEL on earnest money or security deposit or any money due to the contractor by BHEL.”
56	Applicable Laws and jurisdiction of Courts 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.
57	BHEL-Fraud prevention policy shall be adhered to. 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 http://www.bhel.com and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice. Fraud prevention policy and list of nodal officers is hosted on BHEL Hyderabad website web.bhelhyd.co.in



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

ANNEXURE – 4

Suggested Major activity timelines			
S.NO	Activity	Agency	Timeline
1	PO acknowledgement	SUPPLIER	5 days from PO
2	Submission of drawings and QAP	SUPPLIER	21 days from PO
3	Approval of Drawings and QAP/FAT schedule	BHEL/M/S OIL	15 days from receipt
4	Raising of inspection call	Supplier	45 days before readiness of equipment
5	Inspection completion	Self/BHEL/Third party Inspection agency as mentioned in PO/contract	Within 15 days from readiness of equipment.
6	Dispatch instructions / Clearance	BHEL	10 days from inspection report

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



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

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 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

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 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

Annexure - 6

Proforma for self-certification by Supplier for Compliance to Clause No 20 (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

Sl No	Section	Title
1	SECTION – 3.1	TECHNICAL SPECIFICATION OF 2x125 MT WORKOVER RIG



TECHNICAL SPECIFICATION FOR 125 MT WORKOVER RIG

Single drum servicing and work over rig mounted on a self-propelled back in type carrier, fitted with diesel engine, transmissions, draw-works, telescopic mast. The Rig shall also have sub-structure, drilling / handling equipment, hydraulic, pneumatic, lighting systems etc., along-with necessary catalogues.

Rig and its equipment shall be suitable for Ambient Temp. 2 degree to 44 degree centigrade, relative humidity 95% maximum & altitude of 100-meter minimum. Rig engine should be above carrier deck and layout of all rig equipment should be such that there is ease of maintenance.

Technical details of various equipment of 125 MT workover rig is as follows:

A. MAST AND SUBSTRUCTURE

1) Telescopic Mast in accordance with API 4F (PSL – 2) with API monogram:

(i) Lightweight open faced four legged, two-section Telescoping Mast of efficient design having manufactured & monogrammed as per API Spec 4F, latest edition (PSL-2), with hydraulic mast tilting & 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.

(ii) API rated hook load capacity of minimum 125MT with 8 line strung and with required wind guy lines and cross guys to racking board, design & construction in accordance with API 4F, latest edition (PSL-2) and API monogrammed. (Guy lines should be complete with heavy duty turn buckles & guy posts). The wind Load Capacity of the Mast with full set back should be 80 miles/hours without setback (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.

(iii) Clear working height (ground to underside of crown frame) – 102 feet to 118 feet

(iv) Hydraulic mast tilting & extending systems and automatic locking device to lock the mast into its fully extended operating position as per Rig design. The system shall include manually operated bleed valve for removal of entrapped air.

(v) 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.

(vi) The Rigs should be equipped with Suitable capacity heavy-duty adjustable jackscrews with lock nuts for cantering / aligning of mast.

(vii) Automatic locking system shall be provided with additional safety manual lock. This is required after telescoping of mast to full height. Latch to automatically engage when in proper position and to be manually retracted.

(viii) Automatic erecting type racking board designed to eliminate possible interference with wellhead equipment during raising & 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 & 19Metres from top of sub structure to enable stacking of range-2 tubing in doubles at sub-structure floor with capacity to rake minimum 16000 feet of 2-7/8" tubing in doubles. Additional pipe raft to be provided if required to stack the required length of pipes. Racking board shall also be suitable for racking of 2-7/8" and 3-1/2" tubing & drill pipes. Racking board shall be provided with folding railing & safety belt.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

(ix) Racking board shall automatically lower into working position as mast is telescoped up & is raised into folded position as mast is telescoped down. Adjustable fingers are to be arranged for end racking only.

(x) 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.

(xi) Single standpipe of 3" size complete with upper tube turn, hammer union on upper end & steel elbow & hammer union at lower end shall be clamped to mast and opposite to operator's side. Working pressure shall be 5000 PSI.

(xii) Mast climbing ladder along with suitable fall prevention device for person climbing the ladder, starting not more than 2ft height from the derrick floor up to crown block shall be provided.

(xiii) Crown block platform (crown nest of minimum 0.6M width) shall be provided with handrails and entrance from ladder & floor of expanded metal.

(xiv) Two Hydraulic cat-works shall be fitted to the mast / floor.

(xv) Mast shall have an integral 'travelling block cradle' for use to secure travelling block while travelling.

(xvi) The mast shall be designed to withstand wind speed of 80 miles/hour with full pipe / setback with all guy ropes properly placed as per standard API pattern.

(xvii) 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 thimbles clips, come longs & boomers shall be provided. Also to include internal load lines from crown to carrier.

(xviii) Mast shall be painted as per the painting schedule indicated.

(xix) Raising, lowering, locking & telescoping controls at operators position near base section of mast clear view during operation.

(xx) Escape Device: Topman Emergency Escape device & escape line is to be provided as per OMR-2017. The Topman Emergency Escape device & Escape line shall conform to OMR-2017 and subsequent guidelines/notifications issued by DGMS. 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.

(xxi) 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 removing of carrier from site with mast lowered onto it, in travel position.

(xxii) 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.

(xxiii) Mast accessories: cable racks for guy lines storage on mast side.

(xxiv) Spinning line roller guides located in mast for hydraulic catworks system.

(xxv) One set of 2 counter weight for use with manual tongs installed on lower mast section must include weight buckets, guides, sheaves & wire line from buckets.

(xxvi) One additional sheave to be provided for rigging up Power tong.

(xxvii) Diving board to be provided with foldable extension & handrails & toe board.

(xxviii) Hydraulic Cat works-

Hydraulic make up (spinning) cylinder with stroke multiplier, giving 8 feet stroke providing 10000 lbs line pull. Hydraulic break out cylinder to provide 20000 lbs line pull with 7 feet stroke. Hydraulic Cat works is to be complete with all fittings, hydraulic controls, wire-lines, hoses piping to rig hydraulic system & installed on mast. Control for makeup & breakout to be located at Drillers console.

Bidder scope: BHEL will manufacture Mast as per API-4F-PSL-2 latest version. However, bidder is requested to go through the assembly drawings provided by BHEL and suggest for review/minor modifications if any, and design the carrier and carrier mounted equipment to suit BHEL mast. Also if any additional new drawings are required, bidder shall provide the same (in AutoCAD files). The same has to be confirmed by bidder in their technical offer and price bid.



(2) Crown block integral with the mast, monogrammed to API 4F, (PSL-2):

- (i) Static load capacity – 125 MT
- (ii) Five (05) sheaves with crown block & two (02) cat line sheaves as per API 8C.
- (iii) Integral design shall have 8 numbers of lines to block stung up.
- (iv) Wire line size 1.1/8" – 500ML long 6x19 construction, RH, regular, IWRC as per API 9A.
- (v) The sheave bearings shall have provision of lubrication from grease jerks provided at a convenient point.

Bidder scope: BHEL will supply Crown Block assembly

3) Sub structure API 4F, Latest Edition (PSL-2) with monogram:

- (i) Sub structure shall be collapsible, pin type and Hydraulically Telescopic type. Bracings on sub structure shall not obstruct handling, placement & removal of 7 1/16" – 3 stacks BOP of Hydril / Cameron / Shaffer / WOM make.
- (ii) Sub structure should provide working floor area (approximately 20' x16') with detachable railings on all sided and with provision to accommodate 17-1/2" rotary table. Rotary should be flushed with the working floor.
- (iii) The side railings shall have the toe boards welded (plate of 0.15 meter height all around, at the bottom)
- (iv) Collapsible substructure shall have clear working-height of 14 feet below rotary beam in work-over mode and the overall height of maximum 9 feet in collapsed condition for transportation.

(v) Substructure shall be rated for minimum 185 MT rotary load, minimum 90 MT set back load & minimum 275 MT simultaneous load.

(vi) Structure floor and folding wings shall be plated with chequered floor plate. Set back area shall be covered with 3" thick wood or any other material to withstand the weight.

(vii) Base area of substructure shall be plated with 10mm steel plate for improved floatation.

(viii) Suitable hydraulically operated mechanized system for easy and safe installation of Hydril / Shaffer / Cameron / WOM BOP of 7-1/16". 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 labor.

The substructure to be so designed that while placing against the well head no beam / member to full with the standard well head. The base of the substructure should have minimum clear area of 2.85M (length, along the outfit center line) X 2.25 M (Wide; perpendicular to the outfit center line).

(ix) Substructure shall be Provided with nameplate containing all information required as per API 4F, latest edition (PSL-2) in English.

(x) One ladder from sub structure floor to ground off driller's side & one ladder from substructure floor to carrier floor to be provided.

(xi) Every open – sided floor or platform 1.8 meters or more above adjacent floor or ground level any person is allowed to work or pass be guarded by a standard railing.

(xii) A platform at least 0.60 meters wide shall be provided on at least one side of the crown block. The platform shall be equipped on its outer edges with a two – rail railing at least one meter high and toe board of 0.15 meter high.

(xiii) Pins / locks required for fitting / removing during unfolding of sub structure should be at safe working height level and easily accessible.

Bidder scope: BHEL will manufacture Substructure as per API-4F-PSL-2 latest version. However, bidder is requested to go through the assembly drawings provided by BHEL and suggest for review/minor modifications if any, and design the carrier and carrier mounted equipment to suit BHEL Substructure. Also if any additional new drawings are required, bidder shall provide the same (in AutoCAD files). The same has to be confirmed by bidder in their technical offer and price bid.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

4) V-door pipe slide:

V - Door pipe slide of steel frame, metal plated with minimum 10mm thickness. Pipe-guide from catwalk level to substructure floor level should be provided. Slide unpins for transport. The pipe slide including a set of stair with railings from sub structure floor level to ground level and its slope should be such that pipe during lowering of singles, latching of the elevator can be handled easily. The distance between center of Rotary Table to V – Door should be minimum 3.25 meters. 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 placement will be decided during the use of outfit depending on the availability and orientation of the well site plinth area.

Bidder scope: BHEL will supply V-door pipe slide

5) Catwalk/pipe rack:

One 3'6"- 4' wide x 3'6" high x 37'-40' long in two pieces, catwalk plated with minimum 10mm thickness, steel plates along-with hinged pipe racks on each side. One sloping ramp at far end of cat walk with stairs to ground should also be provided.

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.

Bidder scope: BHEL will supply Catwalk/pipe rack

B. RIG CARRIER

1. Carrier ramps:

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.

Bidder scope: BHEL shall provide rig ramp assembly drawing. Bidder shall confirm for compatibility of the same and design carrier accordingly.

2) Carrier:

DIMENSIONS:

Overall Width: Maximum 2.9 meters with walkway (folded) including cathead of Drawworks.

Overall Height: Maximum 4.5 meters from ground.

Length - Carrier (without mast) : Maximum 18 meters.

Length – Overall (with mast) : Maximum 20 meters.

Rear Overhang: preferably not to exceed 30% of wheelbase.

Ground Clearance: Not less than 25 cm.

1. The carrier shall be robustly built to take the full load with the mast under difficult travelling condition through hilly terrain, cross country, slushy and loose earth roads in the fields. Carrier shall be self-propelled, right hand drive (Steering wheel shall be on the right hand side of the carrier when viewed from the rear).

2. Total weight of the carrier with the mast (Laden Weight) shall not exceed 60 MT as our roads and bridges are rated for 60 MT only.

3. Carrier shall be equipped with individual control levers installed in the hydraulic valve bank.

4. Casing spool space for cut and slip provision to be provided between hydraulic tank and driver cabin. However, manufacturer may locate it in any other convenient location looking into availability of space. Sufficient space should be allowed for maintenance of equipment.

5. Dead line anchor suitably mounted on the Carrier Frame for designed line size with API 8C (PSL-2) monogram as applicable. The dead line anchor to be of suitable construction and ensure positive reliable transmission of the deadline load signal to the sensor.

Bidder scope: Supply of carrier and carrier mounted equipment along with DeadLine Anchor

3) Drive and Axle:

1. Drive to be as per design, However, there shall be minimum of 3 (three) numbers Drive Axle at rear.

2. The carrier shall be provided with adequate numbers of Front and Rear axles to take the full load of the unit during stationary and travelling conditions. Individual Load on each axle (all front and rear) shall be within Maximum Permissible Gross Vehicle Weight (i.e. Total Axle Capacity) of the unit.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

3. Adequate numbers of heavy duty drive axles and multi-speed transmission to move the unit in difficult road condition. Axle loading shall be as per Indian Motor Vehicle Acts and Rules framed there under. However, there shall be a minimum 3 (three) numbers Drive Axle at rear. All drive axles shall have Inter Axle Lock and Differential Lock facilities. Axles shall be any of Rockwell, Fabco, Dana, Clarke, Meritor, Sisu, Axle tech makes or equivalent reputed make. Complete details, along with technical leaflet, of the axles offered should be provided along with the bid. All steering front axles.

4) Suspension:

1. Heavy duty suspension system both in the front and rear. Preferably Rocker Beam (Walking Beam) type suspension with auxiliary leaf spring support at rear axles and suitable Leaf Spring suspension at front axles with heavy duty double acting shock absorbers. Air Spring type suspension (both at front & rear) is not acceptable. Suspension shall be any of Hendrickson, Neway or equivalent reputed make. The technical details of the suspension offered must be provided along with the technical bid.

5) Load Distribution:

Proper positioning of all components / equipments on the platform for equal / even distribution of load on the all axles. Load distribution details on all axles shall be provided by the VENDOR along with the supply.

6) Steering and Turning radius:

1. Right Hand drive (Steering wheel shall be on the right hand side of the carrier when viewed from the rear), Hydraulically Power Assisted Steering system - power assistance on the all front wheels. "Minimum Turning Circle" (MTC) Radius shall not be more than 20 meters for the carrier fitted with mast. It shall be VENDOR's endeavour to supply the steering box of make Spicer, ZF, Sheppard, Rane, TRW; steering pump of VICKERS, PARKER or REXROTH makes. Details of Make, Model, Capacity of all major components viz. steering pump, steering box, power cylinders (if any) etc. of the steering mechanism shall be provided in the technical bid. The technical leaflets of the components offered (steering pumps, steering box etc.) should be provided in the technical bid. Layout diagram of steering system should also be provided in the technical bid.

7) Transmission:

1. The transmission (main transmission as well as transfer case) 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 output. The road drive gear shifter-preferably of pneumatic type for the main transmission shall be fitted inside the driver's cabin. Transmission shifter with locking arrangement for travelling / operations mode to be provided at convenient operating positions. This is to prevent accidental engagement of travelling transmission in Work-over mode.

8) Wheels, Rims and Tyres:

1. Suitable wheels with tube tyres available in India of adequate ply rating should be provided. It is preferred to have the same tyre size both in the front and rear axles. If it is not possible due to design constraint, two numbers front wheels and two numbers rear wheels shall be provided with each carrier as spare wheels (rims with tyres & tubes). The details of tyres / wheels (size, load bearing capacity, make etc.) should be provided in the technical bid. **Super Giant wheels will not be accepted.**

9) Brake System:

1. Service Brake: Multiple Circuit Pneumatic / Hydraulic Foot-operated Power Brake acting on all wheels.
2. Emergency / Parking Brakes: Automatically engaged Emergency Brake acting on all rear wheels in the event of low air pressure.
3. All Emergency / Parking Brake Servos shall have manual release mechanism (Screw Type) to release the brake manually in case of low / no air pressure for maintenance and towing the unit whenever necessary.
4. Manual Hand Operated Parking Brake acting on all wheels. All brake valves shall be of Bendix or Wabco or Rexroth make.
5. All wheel brake drums shall have dust cover.
6. Brake actuator shall be of S - cam type with slack adjuster.
7. Brake shall have anti-lock braking system (ABS).



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

10) Performance:

Speed limit in Highway: Approx. 40 Km/hr.
Gradeability: 30%.

11) Electrical System:

1. Light & reflectors viz. Headlights, Parking lights, Brake lights, Side marker lights, Indicator lights, Hazard warning lights, rear and side reflectors, cabin lights, etc. as per standard and suitable Reversing Audio Alarm with Blinker at rear of the unit.
2. In addition, 2(Two) powerful searchlights with protective guard at suitable locations at rear of driver's cabin for illuminating the entire platform area.
3. While all lights shall be covered to the extent possible with suitable guard to prevent damage all electrical fittings / components / connections shall be suitable to operate in hazardous oilfield area preferably with two wire system.

12) Pneumatic System:

1. Pneumatic system with suitable air Dryer and suitable System Protection Valve(s) to keep rest of the circuit active in the event of failure / leakage of air in a particular circuit(s). All valves / components, piping / tubing, etc. underneath the carrier at easy access locations-preferably mounted on inner walls of the chassis. All air tanks shall have Drain Plugs. Suitable tyre inflation valve with air pressure gauge shall be provided in the pneumatic system. High-pressure air hose of adequate length with nipple (for the said purpose) shall also be supplied along with the unit.

13) Exhaust Position:

Exhaust with spark arrestor cum silencer as mentioned to be provided.

14) Drivers Cabin:

1. Robust built comfortable full-width driver's cabin of pressed steel construction, suitably upholstered, rubber mattress covered floor, all controls at easy access positions, full view Windshield of non-splinter glass, adjustable type comfortable driver's seat with shock absorber and complete with all fittings / accessories viz. Windshield Wipers, Electric Fan(s), Roof Lamps, Sun visors, twin Rear View Mirror, Air & Electric Horns, Fire Extinguisher, First Aid Box, Handgrips / Handles, Footsteps, Lockable Door(s) with moving window glass, etc.

2. For maximum visibility on all sides for the driver, adequate number of windows with sliding lockable toughen / non-splinter glass at both sides and rear of the cabin as well as there shall not be any object behind and sides of the cabin obstructing view. The rear windows shall be provided with protective wire net cover from behind. Two (02) seat for Co-passenger (to assist driver in traffic) at left and right sides of the unit near driver seat. Carrier controls for selection of transmission speed, brake and on road application shall be provided inside the carrier cabin.

15) Gauges, Meters etc. in Driver's Cabin:

All standard gauges & meters like Speedometer with Odometer (KM calibration), Engine Oil Pressure Meter with low pressure warning buzzer, Engine Temperature Meter with high temperature warning buzzer, Engine Hour Meter, Engine Tachometer, Air pressure Meter with low pressure warning buzzer, Ampere Meter, Transmission Oil Pressure Meter with low pressure warning buzzer, Transmission Oil Temperature Meter with high temperature warning buzzer, etc. and Engine Power Switchover Switch with identification plate in driver's cabin. Calibration in all meters shall be in Metric System.

16) Towing Hooks:

Heavy-duty clevis pin type Towing Hooks both at front and rear capable of pulling / towing the unit from bogged down situation in slushy areas in oilfields from front as well as rear. (Pin size minimum 25 cm in length and 5.0 cm in diameter).

17) Fuel Tank:

Two Numbers 150 Gallons diesel tank, of adequate capacity made of stainless with filling cap, lock & key, drain plug, vent line etc. Digital / Analogue fuel tank level indicator to be provided on the instrument panel as well as with guard mounted at the top of the tank.

18) Walkways and Stairs:



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

Folding walk ways alongside of the unit on & off operator's side extending from rear of unit to engine area including stairway with hand rails from walk way to ground on both sides with checker plate decking throughout. Suitable locking arrangement shall be provided for the walkways and railings to keep in folded positions to prevent accident during travelling. Detachable Stairs shall be provided on both sides of the engine for quick access.

Bidder scope: Bidder shall supply all the above items Sl Nos 2 to 18 assembled/mounted on the carrier.

19) Spare Parts (For Carrier):

All spares in specified quantity as indicated in the Spare parts List for Carrier (**ANNEXURE-IV**) shall be supplied along with the unit. Specific description, Part number, Make etc. shall be clearly indicated in the technical bid. **Bidder to separately quote for the spares, the cost of which will be considered for bid evaluation purpose.**

20) Tool Kit:

(i) Complete Tool Kit for general maintenance of the carrier i.e. Wheel wrench / wrenches, Tyre inflating hose of minimum 20 meters long with nipple, Pressure Gauge, Heavy duty Grease gun, 50MT capacity Hydraulic Jacks with handles, 2 (Two) numbers Stopper Block for rear wheels with suitable storage arrangement at easy access location(s) - to prevent accidental movement of unit while in stationary position in addition to other necessary tools for general maintenance of the carrier components, to be supplied along with each carrier.

(ii) List of tools that shall be supplied under the Tool Kit to be submitted along with the technical bid. Two standard toolboxes shall be provided on each carrier.

Bidder scope: supply of above tool kit and standard tool boxes.

21) Painting:

DA Grey or any other suitable shade painting after applying primer. Under Coating with Anti Corrosive Treatment for cement & rust and polyurethane paint.

22) Manual and Catalogues:

Supply of 02 (two) sets of Spare Parts Catalogue and Workshop & Service Manual in printed form in addition to supply of the same in compact disc (CD) format for all major components / systems like steering, axles, front & rear suspension, pneumatic & electrical systems, brake system, etc. complete with all schematics along with the unit.

All above manuals, catalogues & CD shall contain only those components /systems that have been used in the unit i.e. the same must be CUSTOM ILLUSTRATED MANUALS/CATALOGUES ONLY - not the generalized ones.

23) Documentation and Bid Submission: VENDOR's response should clearly be defined - specific details / specification are to be provided in the bid. Response like - 'As per NIT Specifications / Technical Leaflet', 'Noted', 'Accepted' or in any similar fashion is not encouraged.

(i) The following documents shall be submitted along with the technical bid for bid evaluation. Technical leaflets with detailed diagram and specifications, Make & Model of chassis, axles, suspension, steering, wheel & rim, brake, pneumatic and electrical systems, etc.

b. Detailed dimensional drawing of Driver's cabin with construction and material description.

c. Layout drawing of all components on the carrier with details of load distribution.

d. List of tools that shall be supplied under Tool Kit.

e. Specific description, Part Nos., Make & Model, etc. as detailed in the Spare Parts List for Carrier provided in the Tender.

f. List of additional spares, if any, for 2(two) years maintenance as felt necessary but not covered in the Spare Parts List for Carrier provided in the Tender with Description, Part Nos., Make, etc. Procurement of the same spares however shall be as per BHEL discretion. The cost of additional spares, not covered in the Spare Parts List for Carrier provided in the Tender with Description, will not be considered for bid evaluation purpose.

g. A Checklist as per enclosed format (CHECKLIST FOR CARRIER) shall be furnished along with the technical bid.

(ii) The following documents are to be submitted along with the supply of the unit. VENDOR to categorically confirm compliance of the same in the technical bid:

a. Sale Letter, Pollution & Roadworthy Certificate (in similar format of Form 21, 22 & 22A of Indian Motor Vehicle Act - sample copies enclosed), Engine Emission Norms Certificate, etc.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

as required under Indian Motor Vehicle Act for registration of the unit in the name of end customer. Additionally, Type Approval Certificate from chassis manufacturer duly certified by inspecting authority of the country of origin and Body Fabrication Approval certificate from body builder to be provided. In this regard, the VENDOR is requested to note the conditions given in Chapter-87 of ITC (HS), 2012, Schedule-1- Import Policy, Section: XVII of INDIA.

b. Final Chassis Built Up / Vehicle Content Record documents.

c. Notwithstanding any clause mentioned elsewhere in the Tender, the invoice for CARRIER WITH ENGINE & TRANSMISSION shall be submitted separately, i.e. the same (invoice) shall include the cost of the chassis frame and all assemblies / components that are required for road movement of the unit only and the driver's cabin.

Bidder scope: All the documents shall be supplied as per above requirements wherever applicable.

24) Guarantee/Warranty:

As per NIT clauses



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

25.

A) CHECKLIST FOR RIG CARRIER (TECHNICAL):

Srl. No.	Parameters/Requirements				VENDOR's offer (to give details yes/no, applicable)	Remarks, if any.
1.	Overall Dimensions	a	Overall Width			
			i	Carrier		
			ii	Carrier with walkways (folded) including cathead of draw works etc.		
		b	Overall Height	i With mast		
				ii Without mast		
		c	Overall Length	i Carrier with mast		
				ii Carrier without mast		
		d	Front Overhang			
		e	Rear Overhang			
		f	Ground Clearance			
2.	Make & Model of Chassis (if any)					
3.	Make & Model of Transmission & Gear Shifter					
4.	Type of steering system (Hydraulically assisted or Mechanical)					
5.	Right Hand Drive Steering or Left Hand Drive Steering (When viewed from rear)					
6.	Make, Model of Steering Box.					
7.	Make, Model of Steering Pump.					
8.	Make, Model of Steering power cylinder (if any)					
9.	Transmission shifter with locking arrangement (Provided-Yes/No)					
10.	Drive					
11.	No. of Axles	a	Front			
		b	Rear			
12.	Positions of Drive Axles	a	Front			
		b	Rear			
13.	Make & Model of Axles	a	Front			
		b	Rear			
14.	Maximum Permissible GVW of the carrier					
15.	Total Weight (Laden Weight) of the unit					
16.	Axle capacity (per axle)	a	Front			
		b	Rear			
17.	Axle Loading (per axle)	a	Front			
		b	Rear			
18.	Nos. of Drive Axle at rear.					
19.	Inter Axle Lock					
20.	Different Lock (in all drive axles)					
21.	Make, Model & type of Suspension	a	Front			
		b	Rear			
22.	Load distribution details (provided Yes/No)					
23.	Make, Type, Size of Wheels &	a	Front			



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

	Tyres		b	Rear		
24.	No. of spare wheels (rims with tyres & tubes).		a	Front		
			b	Rear		
25.	Brake System	a	Type of Service Brake	a	Front	
				b	Rear	
		b	Type of Emergency/Parking Brake			
		c	Make of Manual Hand Operated Parking Brake			
26.	Brake actuator whether S-cam or not.					
27.	Minimum Turning Circle Radius.					
28.	Reversing Alarm with Blinker Lights.					
29.	2(Two) powerful searchlights with protective guard at suitable locations at rear of driver's cabin					
30.	Auto Electrical fittings/equipment suitable for hazardous oilfield area provided or not.					
31.	Calibration of all standard gauges & meters like Speedometer / Odometer, Engine Oil pressure Meter etc. in Metric (KM) calibration.					
32.	Provision of Air Dryer in truck's pneumatic system with suitable system Protection Valve(s).					
33.	Heavy duty clevis pin type Towing Hooks at front & Rear of the carrier.					
34.	Folding walking and stairs as per Tender specification.					
35.	Spare parts for carrier as per enclosed list.					
36.	List of tools under Tool Kit.					
37.	Painting of Carrier					
38.	Manual & Catalogue as per Tender.					

B) CHECKLIST FOR RIG CARRIER (DOCUMENTATIONS):

The following documents shall be submitted along with the technical bid for bid evaluation-

Sr. No.	Descriptions	Document enclosed (Yes or No)	Remarks, if any
1.	Technical leaflets with detailed diagram and specifications, Make & Model of chassis, axles, suspension, steering, wheel & rim, brake, pneumatic and electrical systems, etc.	YES/NO	
2.	Detailed dimensional drawing of Driver's cabin with construction and material description.	YES/NO	
3.	Layout drawing of all components on the carrier with details of load distribution.	YES/NO	
4.	List of tools that shall be supplied under Tool Kit.	YES/NO	
5.	Specific description, Part Nos., Make & Model, etc. as detailed in the Spare Parts List for Carrier provided in the Tender.	YES/NO	
6.	List of additional spares, if any, for 2(two) year maintenance as felt necessary but not covered in the Spare Parts List for Carrier provided in the Tender with Description, Part Nos., Make, etc. Procurement of the same spares however shall be as per end user discretion.	YES/NO	



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

C) CHECKLIST FOR RIG CARRIER (DOCUMENTATIONS):

The following documents shall be submitted along with the technical bid for bid evaluation-

Srl. No.	Descriptions	Document enclosed (Yes or No)	Remarks, if any
1.	Sale Letter, Pollution & Roadworthy Certificate (in similar format of Form 21 & 22 of Indian Motor Vehicle Act - sample copies enclosed), Engine Emission Norms Certificate, etc.	YES/NO	
2.	Final Chassis Built Up/Vehicle Content Record documents.	YES/NO	
3.	Notwithstanding any clause mentioned elsewhere in the Tender, the invoice for <i>CARRIER WITH ENGINE & TRANSMISSION</i> shall be submitted separately, i.e. the same (invoice) shall include the cost of the chassis frame and all assemblies/components that are required for road movement of the unit only and the driver's cabin.	YES/NO	

****BIDDER SHALL SUBMIT ALL THE ABOVE CHECKLISTS A,B,C SHALL BE SUBMITTED ALONG WITH TECHNICAL OFFER**



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

Attachment-I

SAMPLE COPY OF FORM 21, 22 & 22(A)

SAMPLE COPY OF FORM 21

Following is a sample copy of FORM 21 of Indian Motor Vehicle Act only. The certificate to be issued by supplier in their letter head, shall contain following minimum information -

FORM 21

[See Rules 47 (a) and (d)]

SALE CERTIFICATE

(To be issued by manufacturer/ dealer or officer of Defence Department (in case of military auctioned vehicles) for presentation along with the application for registration of a motor vehicle).

Certified that

.....
(Brand name of the vehicle)

Has been delivered by us toon.....(date).....

Name of the buyer.....

Son /wife / daughter

Address (Permanent)

(Temporary)

The vehicle is held under agreement of hire-purchase/lease/hypothecation with

The details of the vehicle are given below:

1. Class of Vehicle

2. Maker's name

3. Chassis No.

4. (Engine No. Or motor number in the case of Battery Operated Vehicles)

5. Horse power or cubic capacity

6. Fuel used

7. Number of cylinders

8. Month and year of manufacture

9. Seating capacity (including driver)

10. Unladen Weight

11. Maximum axle weight & number description of tyres (in case of transport vehicle)

(a) Front axle

(b) Rear axle

(c) Any other axle

(d) Tandem axle

12. Colour or colours of the body

13. Gross vehicle weight

14. Type of body

Signature of the Manufacturer /Dealer or Officer of defense Department



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

SAMPLE COPY OF FORM 22

Following is a sample copy of Indian Motor Vehicle Act only. The certificate to be issued by supplier shall contain the following minimum information. –

FORM 22

[See Rules 47 (g), 115, 124(2), 126-A and 127(1), 127(2)]

INITIAL CERTIFICATE OF COMPLIANCE WITH POLLUTION

STANDARDS, SAFETY STANDARDS OF COMPONENTS AND ROAD-WORTHINESS

(TO BE ISSUED BY THE MANUFACTURER)

Certified that the following vehicle complies with the provisions of the Motor Vehicles Act, 1988 and the rules made thereunder, including the following mass emission norms:

Brand name of the vehicle:

Chassis number:

Engine number/Motor number:

(In case of battery operated vehicles)

Sub-rule No.....of rule 115:

Emission norms:

[(Bharat Stage-IV Bharat (Trem) Stage-IV etc.)]

Signature of Manufacturer

[Form 22, shall be issued with the signature of the manufacturer duly printed in the Form itself by affixing facsimile signature in ink under the hand and seal of the manufacturer.]



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

SAMPLE COPY OF FORM 22 (A)

Following is a sample copy similar to FORM 22(A) of Indian Motor Vehicle Act only. The certificate to be issued by supplier shall contain following minimum information.-

PART – II

(TO BE ISSUED BY THE BODY BUILDER)

Certified that.....(brand name of the vehicle) bearing Chassis number and Engine numbercomplies with the Safety & Road Worthiness Standards as per provisions of the..... (Name of Motor Vehicles Act of country of origin).

It is also certified that body of the above vehicle has been fabricated by us and the same complies with the provisions of the (name of Motor Vehicles Act of country of origin).

Signature of body builder



C. 1. CARRIER ENGINE

- (i) Two (02) numbers Caterpillar C11, TIER 3, or *HIGHER* ACERT electronic Diesel engine (For each 125 MT work-over Rig), water cooled, complete with all mountings and accessories capable of developing 385 BHP (net) @ 2100 RPM at flywheel end [operating speed range 1800-2200 RPM] under standard atmospheric of 2°C-50°C, altitude not exceeding 150 Meters above mean sea level, relative humidity 95% at 35°C. The engine should have both electric and pneumatic starting system.
- (ii) **Engine will be either as per BS-(Bharat stage)-VI or complying with BS-(Bharat stage)-VI emission norms. However, in case of implementation of the updated version of Emission norms i.e. BHARAT STAGE-(LATEST EDITION) in India (including the state of Assam), at the time of delivery of the Work-Over rig packages, the Carrier Engine must then conform to BHARAT STAGE-(LATEST EDITION) of Equivalent Emission norms.**
- (iii) Engine shall consists of 01 (one) No. Mounted Air compressor on each engine with minimum capacity of 30 CFM (80 LPM), @2100 rpm @ 120psi or as per design for meeting complete air requirement of the rig package as per rig design with air tank of suitable capacity. It should be suitable for all control valves, clutches of rig system, rotary slips etc
- (iv) Pneumatically operated Inlet Air shut off device & Fuel shut off device should be provided with the engine for emergency shut off & designed in such a way that it can be operated from Engine as well as from Driller's console.
- (v) Laptop/Hand held based diagnostic tool along with licensed software to be provided for engine fault diagnosis.
- (vi) Sound Barrier (acoustic enclosure) to reduce the noise of the engine to be provided. The Sound Barrier should be sliding / easy removable type for ease of engine maintenance.
- (vii) Guarantee / Warranty: The complete package/unit shall be under warranty be the supplier for a minimum period of 01 (one) year from the date of successful commissioning of the complete unit at site. Warranty servicing should be carried out during the warranty period by the OEM's authorized dealer in India.

Details of carrier engine

Accessories / mounting on Engine and other miscellaneous items:

- a) Heavy duty Air Cleaner with per-cleaner & Vacuum Indicator.
- b) Spark Arrestor cum Silencer covered with heat resistant material & capable of max exhaust back pressure: 75mm Hg exhaust is diverted to off-operator side with 85dB muffler and spark arrestors.
- c) Heavy duty Radiator with Fan, Fan arrangement & low water level indication with alarm. The radiator must be having capacity of at least 20% in excess of total heat rejection of the engine.
- d) Pneumatically operated Intel Air shut off device & Fuel shut off device should be provided with the engine for emergency shut off & designed in such a way that it can be operated from engine as well as from Driller's console. Interconnection



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

drawing between the Driller's console & the Air-Shut off device must be provided.

- e) Instrument panel should have Oil & Fuel pressure gauge, Oil, Water & Exhaust temperature gauge, Electronic Tachometer with R/Hours meter, Emergency air shut-off switch etc. There should be sufficient space for maintenance and repair of the instrument Panel.
- f) Suitable Safety shut Off system with Alarm for Low lube oil pressure, High water temperature, Engine over speed etc. Detailed information and circuit diagram of the Safety Shut Off systems should be provided along with the supply.
- g) **Air dryer without heating system**, mounted before the air receiver with pipe connection, filter-regulator-lubricator & gauges is to be provided along with the supply.

Suitable capacity air receiver/s mounted on the carrier, size & capacity should be provided. Air receiver(s) and all Hard Pipe lines (Compressor to tank and tank to supply end) shall be tested as per applicable standard for any leakage. Test certificate to be provided along with the supply.

- h) The critical wiring should be in separate rodent proof conduit with proper marking from other wiring for following: -
 - 1) Engine shutdown signal.
 - 2) Engine Throttle signal from derrick & Cabin.
 - 3) Wiring which activates the special, modes of engine like PTO enable, engine de-idle RPM mode etc.
 - 4) Interfacing wiring between engine, transmission and safety system.

Note: Engine Harness wirings must be of OEM (Caterpillar) supplied.

- a) Engine starting system should have independent pneumatic & electric starter with interlock for of one starter at a time. 2 (two) No. Maintenance free Heavy duty battery suitable for hazardous area, complete with cable & 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.
- i) General:
 - 1) Vibration Dampener and guard.
 - 2) Lifting eyes.
 - 3) Fumes disposal.
 - 4) Crankcase breather.
 - 5) Heavy duty servicing hour meter.
 - 6) Maintenance tools.
 - 7) Standard Painting of the engine.
 - 8) Engine crank case design should be of shallow pan type.
- k) Operating Site Condition: the engine should be suitable for operation at the following site condition:
 - 1) Engine site temperature- 50° C(Max)
 - 2) Engine site temperature- 2° C(Max)
 - 3) Maximum relative humidity at 21°C- 100%
 - 4) Maximum relative humidity at 35°C- 95%
 - 5) Maximum relative humidity at 45°C- 70%
 - 6) Altitude above sea level-150m.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

7) Average annual rainfall -343 cms.

(k) Special Notes:

- i) The Engine Transmission must be mounted on a single rugged skid & should be anchored firmly with the main chassis of the workover Outfit. Alternately Engine and Transmission may be chassis mounted. The foundation bolts of the Engine & Transmission will be fastened in such a way that these can be removed easily from the Engine-Transmission platform without going under the Carrier.
- 2) **Annexure-I:** Technical Check List is attached with the Tender. VENDORS must fill up the same & return with offer for Technical Scrutiny.
- 3) **Annexure-II:** Details of Maintenance Tools with quantity is attached with the Tender as per clause no. 1(vi) (m) above. VENDORS must include the same in their scope of supply & offer.
- ii) Parts List, O&M Manual & service Manual – 01 set for each rig along with the supply.

Detailed dimensional drawing of all major parts and GA drawing along with the offer. Detail technical datasheet; catalogue etc must be provided along with the supply.

(l) Test Certificate:

Each Engine must be load tested at manufacturer's work & test certificate have to be provided along with the supply.

m) Tool Kit for Engine & Transmission:

01 (one) set of Standard Tools for each Work-over outfit of Snap-on / Stanley make in heavy duty 3/5 tray metal box with handles & locking arrangement for carrying out normal maintenance of engine as per Annexure –II (Item No. 1 to 33) to be supplied. Special tools should be supplied along with the consignment for carrying out engine major overhauling jobs as per enclosed Annexure-II (Item No. 34 to 39). These tools must be supplied in proper tool box. Specific description, part nos., make, etc. and unit price of each item shall clearly be indicated in the bid. Cost of the above tools as per **Annexure –II will be considered for evaluation purpose.**

(vii) Spare Parts for Engine: Below quantity mentioned is for total 2 workover rigs. Vendor is requested to quote along with part number the same for bid evaluation purpose.

Sl. No	ITEM	QUANTITY
1.	Primary Fuel Filter	20
2.	Secondary Fuel Filter	20
3.	Lube Oil Filter	20
4.	Air Filter	8
5.	Electric Starter	2
6.	Pneumatic Starter	2
7.	Charging Alternator	2
8.	Air Compressor Repair Kit	2
9.	Turbocharger Repair Kit	2
10.	Water-Oil Separator	4

(viii) Test Certificate:

Each Engine must be load tested at manufacturer's work & test certificate have to be provided along with the delivery of material.

The nature of after sales services, which the successful VENDOR will provide during initial commissioning and also in subsequent operation, should be clearly indicated. Supplier must categorically confirm regarding compliance with the inspection / test procedure and



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

other terms & conditions detailed above are very essential. Offers will be liable for rejection in the absence of such confirmation.

(ix) Deviation: Deviation in respect of any specification as detailed above should be highlighted with technical calculation / catalogue / literature etc.

(x) Guarantee / Warranty:

The complete package / unit shall be under guarantee / warranty by the supplier for a minimum period of 01 (one) year from the date of successful Commissioning of the complete unit at site. BHEL reserves the right to inspect, test & if necessary reject any part / parts after delivery at site in case of any fault on the part of the supplier. It shall in no way be waived by the reason that the unit / item was previously inspected & passed by BHEL as per Inspection Clause detailed elsewhere in the tender. To keep the unit fully operational, in case of failure of any item during the warranty period, it is the supplier's responsibility to arrange replacement / repairing at site at their own cost including custom duty, freight, etc. within a period of maximum 3 (three) weeks from the date of notification of such failure.

Bidder scope: Bidder shall supply, install and commission the Engines and controls including diagnostic system as per the latest pollution norms.

2) Transmission with integral torque convertor with each Carrier Engine.

- (i) Allison transmission Electronic – 4700 OFS Series or HIGHER to cater maximum output torque of the engine with retarder brake, lock up clutch and drop box for transmitting power for rig operation and carrier drive, having minimum five forward & one reverse speeds, with dual controls i.e. from driver's cabin and driller console along with indicator and with safety interlock facility.
- (ii) Parker Chelsea power take off (PTO) unit should be provided along with the transmission system for hydraulic pump operation.
- (iii) Driller's console gear selector should have removable connector at both ends.
- (iv) Transmission wiring should be in separate rodent proof conduit with proper marking from other wiring & 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.

(viii) Spare Parts for Allison Transmission: Below quantity mentioned is for total 2 workover rigs. Vendor is requested to quote the same along with part numbers for bid evaluation purpose.

Sl. No	ITEM	QUANTITY
1	Filter, Transmission Oil	4
2	Suction & Delivery Hose	2
3	Complete PTO	2
4	Transmission Oil (litres)	200

Bidder scope: Bidder scope: Bidder shall supply, install and commission the Transmission system.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

3) Power Transmission to Draw-works & Carrier:

Suitable power transmission system, as per rig design shall be provided for transmitting power 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.

Bidder scope: Supply of Power Transmission to Draw-works & Carrier

4) Hydraulic system:

(i) Complete with Hydraulic Pump [Make: Parker], hydraulic oil reservoir, suitable hydraulic lines, filters, hoses, pressure gauges, connections and valves, regulator etc. for the operations of / like mast raising / lowering, extending, levelling jacks, hydraulic cat works, hydraulic winches, hydraulic power tong drive, etc.

(ii) Capacity of the pump as per rig design, minimum 2500 PSI nominal working pressure. It shall be VENDOR's endeavour to supply the Hydraulic distributor, valve manifold, Hydraulic valves of VICKERS, COMMERCIAL HYDRAULICS, BENDIX, EATON, PARKER or REXROTH make only.

(iii) Hydraulic pump shall be driven from PTO of the Allison Transmission with pneumatic clutch and controls. Total Interface drawing of Engine, Transmission & Hydraulic pump shall be supplied along with the supply and accordingly in the technical bid.

(iv) Protection for hydraulic pipe with guide pipes & support at intermittent locations to avoid damages to the hydraulic pipe.

(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 & temperature gauges.

(vi) Hydraulic Test Certificates from reputed Certifying agencies to be made available for all hoses installed as per applicable SAE / DIN standards.

(vii) VENDOR should quote unit price for following spare parts. Item wise price of each spare part with part number should also be provided. Below quantity mentioned is for total 2 workover rigs. Spare Parts for Engine. Vendor is requested to quote the same for bid evaluation purpose.

Sl. No	ITEM	QUANTITY
1	Hydraulic pump, complete	2
2	Hose, suction complete, Hydraulic pump	2 sets
3	Hose, delivery complete, Hydraulic pump	2 sets

Bidder scope: Supply, installation and commissioning of total Hydraulic system.

D. RIG EQUIPMENT

1) Draw-works (Main winch) on the Carrier:

(i) Main drum suitable for hook load capacity of minimum 125 MT (136 ton) in accordance with API 7K as applicable.

(ii) Single drum dynamically balanced draw works should have Axially mounted, water cooled with Disc Brake as auxiliary brake, suitable for minimum 125 MT (136 ton), on the Brake Drum / shaft to carryout Retarding as well as Braking, also having provision of parking. The Band Type Brakes should also be provided as main Brakes. The Disc Brake and Band Brake should be complete with adjustment system & cooling system for working in 55 degree Celsius ambient temperature and at continuous full load. The electrical motor operated cooling system should either be mounted on the carrier or provided as a separate portable unit connected with the suitable hoses etc. The equipments should be mounted in such a way that safety during operation is ensured and there should be enough space for maintenance of the equipment. The Disc Brake is to be of National or Eaton Make. 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. Complete Rig operation should be possible independently with the help of Band Brakes as well as with the combination of Disc Brakes & Assist Brake.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

- (iii) 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).
- (iv) The Draw works and its brakes shall have suitable water cooling system. Manifold, valves, reservoir, pump, exchanger should be included as per design.
- (v) Disc Brake to be axially mounted on the draw works drum assembly. The pump for cooling system of the disc brake should be driven as per manufacturer's design. The same cooling system should also cater for the cooling of brake band assembly of the draw-works. The coolant tank and the heat exchanger of the cooling system will be as per VENDOR's design, and is preferably to be mounted on the carrier.
- (vi) Draw-works should have six forward speeds and one reverse speed.
- (vii) Main drum driven by high capacity air balloon type air flex or equivalent make, pneumatically operated clutches mounted outboard for easy accessibility & maintenance. (WICHITA-224 FULL AIR)
- (viii) All roller chains of cotter pin / riveted type, with API 7F, latest edition monogramming.
- (ix) DELETED.
- (x) Draw-works to have centralized greasing system.
- (xi) Chain drive shall be fully enclosed oil bath type, having lubrication as per design. Chain guards shall be designed to have inspection windows to carry out repair and replacement of chains easily.
- (xii) Automatic crown block saver safety shut off device to limit block travel, installed on Draw-works, automatically disengages clutch & sets main drum brake when block comes too close to crown block. (or required travel is reached).
- (xiii) Automatic floor saver safety shutoff device to limit block travel, installed on drawworks, automatically disengages clutch & sets main drum brake when block comes too close to rotary table. (or required travel is reached).
- (xv)(a) Automatic Hook load limiting device: Automatic Hook load limiting device installed to prevent overloading of mast, linked up to weight indicator. Limiting device receives signal from weight indicator and applies brake & disengages draw works clutch simultaneously when the set hook load is reached.
- (b) Suitable Casing Rope travel guide should be provided to prevent overlapping of the Rope on the Draw Works Drum.
- (xvi) Driller's console / Control panel (Suitable for Hazardous area classified as per Attachment -II):
Driller console to be located at rear of carrier with provision for elevating it to the base of 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.
- a) CONTROLS: Driller console should have Air control for main drum clutch, assist brake, engine throttle, engine shutdown and emergency shutdown, Hydraulic winch & Catwork control, Transmission shifter, Rotary drive clutch, Hydraulic pump, Pneumatic slip, provision for Mud pump controls, cooling water and assist brake water controls, Hydraulic pressure gauge and remote pressure control of tong circuit.
- (b) Driller console should have following GAUGES / INDICATORS - Air, hydraulic, Stand Pipe pressure gauges, Hook load, Tong torque, Transmission shifter indicators and provisions for installing Mud Pump pressure gauges & SPM Meter for mud pump.

Bidder scope: Bidder shall supply above Drawworks with all controls

2) Rotary drive system on Carrier:

- (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.
- (ii) Elevated drive to rotary table with suitable protective guards.
- (iii) Lubrication / grease header to be provided.
- (iv) Lubrication system to be provided as per rig design.
- (v) ***BHEL will manufacture and provide Drawings of only Elevated rotary drive assembly. Vendor shall check for compatibility of the same for drive. Total power transmission and clutch system to rotary table shall be in Bidder's scope of supply.***

3) Hydraulic Power tong circuit:

- (i) Hydraulic power tong circuit with pressure and return line pressure gauge, adjustable relief valve with hydraulic outlet up to rear bumper shall be provided.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

- (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 scope: Bidder shall supply Tubing Tong circuit. Hydraulic Tubing tong and end connections details shall be provided by BHEL at a later stage.

4) Hydraulic winch on Carrier – 02 Numbers

- (i) One to be mounted at suitable position on derrick floor and other on the carrier at a suitable position between draw-works and engine.
- (ii) Hydraulic winch, suitably mounted with grooved sheaves, under crown, and cable, having minimum capacity of 10,000 lbs at 2,000 PSI oil pressure, with fail safe brake. It should include remote air control valve in control box & piping from & to valves, filters, safety controls, pressure gauges & all necessary fittings.
It shall be VENDOR's endeavour to provide **Braden** –Model PD-12C make only.
- (iii) Additional control on sub structure towards pipe rack side shall be provided for the hydraulic winch mounted on the derrick floor.
- (iv) Safety guards shall be installed on both the winches.

Bidder scope: Bidder shall supply and install Hydraulic winches

5) Stand Pipe Manifold:

- (i) Stand pipe 3" x 5000 PSI working pressure including gooseneck and hammer union mounted on mast (male and female portion of hammer unions are to be suitably provided, wherever it is specified along with pipe / goose neck / reducer etc so as to complete the stand pipe for connection with mud pump discharge on one side and swivel on the other side). Stand pipe and manifold shall consist of-
 - (ii) Two (2) 2-1/16" 10,000 psi working pressure gate valves API 6A (PSL – 3) monogrammed.
 - (iii) Two (2) 2-1/16" 5,000 psi working pressure gate valves along with companion blind flange, API 6A (PSL – 3) monogrammed - to be supplied loose.
 - (iv) Three (3) 2" hammer unions, Fig 602.
 - (v) One (1) 2" Line pipe threaded box connection for pressure gauge.
 - (vi) One (1) 2" Line pipe threaded box connection for pressure transducers.
 - (vii) One 3" fig 602 x 2" fig 602 hammer union changeover.
 - (viii) API monogrammed 3" X 5000 PSI high pressure hammer union Fig 602, two (2) numbers to be supplied loose.
 - (ix) API monogrammed 2" X 10000 PSI high-pressure hammer union Fig 602, two (2) numbers to be supplied loose.
 - (x) API 6A, (PSL – 3) monogrammed 2 1/16" X 10,000 PSI working pressure gate valve two (2) numbers to be supplied loose.
 - (xi) Two (2) 2" x 12' long, 5000 PSI working pressure vibrator hose at pump discharge for connecting to high pressure line with 2" hammer union Fig 602 end connection at both ends.
 - (xii) One (1), 2" x 12' long x 5000 PSI working pressure vibrator hose for connecting to standpipe manifold.
- Kill line kit for field installation consisting of:
- (xiii) 2" NB, 5000 Psi WP Pipe with hammer unions Fig 602 on both ends, 10 ft long (unfolded) - 8 numbers; 6 ft long (unfolded)- 4 numbers and 4 ft long (unfolded) – 4 numbers.
 - (xiv) Four (4), 2" 5000 psi WP, corner pipe 90 degree swivel joints and with hammer unions Fig 602.
 - (xv) (a) 3", 5000 Psi WP Pipe with hammer unions Fig 602, 10ft long (unfolded) -10 Numbers (With hammer unions), (b) Equivalent Swivel style 10 - 10 Numbers, (c) Equivalent Swivel style 50 - 10 Numbers.
 - (xvi) 2 1/16", 5000 psi WP, Plug valve, female threaded ends - 04 Numbers , Check valve (screwed type) - 04 Numbers
 - (xvii) 3", 5000 Psi WP , Plug valve, female threaded ends - 04 Numbers, Check valve (screwed type) - 04 Numbers

Bidder scope: Bidder shall supply Standpipe manifold with accessories. BHEL will provide mast/substructure drawings to decide on the exact dimensions of standpipe manifold



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

6) Hydraulic tubing tong:

(i) One set of Light weight hydraulic tubing tong of minimum torque rating 8000 ft lbs, as per API 7K & Monogrammed, replaceable jaws type for 2.3/8", 2.7/8", 3 1/2" tubing, 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.

(ii) The tubing tong is to be supplied with jaws for 2-7/8" tubing and jaw sets for 2.3/8" & 3 1/2" tubing to be supplied loose. Hydraulic tongs to be run from rig hydraulic system only. 10 sets of spare inserts for 2-7/8" tubing, 06 sets of spare inserts for 2-3/8" tubing & 4 sets for 3-1/2" tubing to be provided loose.

Bidder scope: BHEL will supply Hydraulic Tubing Tong. Controls shall be provided by bidder in Drillers control panel.

7) Wire rope:

One roll casing line 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 will procure casing line of standard length.*

Bidder scope: Bidder shall supply metallic spool with smooth drive for rotation and the same shall be mounted on carrier at proper location behind deadline anchor. BHEL will supply wire rope, with API-9A monogram latest edition.

8) Elevator Links:

(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 Ton/pair.

v) The elevator links shall be manufactured, tested, certified & monogrammed as per API Spec. 8C, latest edition (PSL 2).

Bidder scope: Bidder shall supply elevator links.

9) Rotary Table: 17-1/2" Rotary Table as per API-7K monogrammed. Rotary table shall be complete with hub for torque shaft drive of sprocket for chain drive or any other drive accessory required as per the rig design to get drive from Rig power transmission.

Bidder scope: BHEL will manufacture Rotary table. Assembly drawings of Rotary tale and Elevated Rotary drive shall be provided by BHEL. Bidder shall provide and commission complete drive system for Elevated rotary drive/suggest for any modifications to suit the requirement.

10) WORKING TOOLS LIST PER RIG:

Minimum listed below and additional specific tools example for wheel repairs / replacement, air filling, cardon shaft / cross repair, chain replacement, bearing replacement pullers, torque wrench, compensator charging tool kit etc. as per rig requirement, Heavy-duty Grease gun – 2 (two) numbers and 50MT capacity Hydraulic Jacks with handles are to be supplied. **VENDOR to specify in the technical bid.**

(i) One set of 1/2" drive sockets set minimum 17 sockets, ratchet, hinge handle, speed handle, and 3 extensions.

(ii) Open end wrench set combination size 5/16" to 1 1/4".

(iii) Adjustable wrench set of 4 suitable sizes

(iv) Heavy duty pipe wrench set of 36" & 48" size.

(v) 10" pliers

(vi) Set of 2 Phillips screw driver suitable sizes

(vii) Allen wrench 7 piece set

(viii) 2 pound hammer & 5 pound hammer - 1 each

(ix) Tool box 24 x 9 1/2 x 9 1/2 w/tray

(x) Heavy-duty Grease gun – 02 (two) Numbers

(xi) Hydraulic Jacks 50MT capacity with handles is to be provided.

(xii) Heavy duty aluminium alloy pipe wrench of size 18" & 24" – 2 Numbers each.

(xiii) One Heavy duty Chain tong 36" to be provided.

(xiv) Slogging wrench open end as well as ring type, 2 numbers each of 36mm, 41mm, 46mm, 50mm, 55mm, 60mm & 75mm sizes to be provided.

Bidder scope: Bidder shall supply working tools



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

E) GUARANTEE / WARRANTY:

- (i) The complete package / unit shall be under guarantee / warranty by the supplier (or the successful VENDOR) for a minimum period of 01 (one) year from the date of successful commissioning of the complete unit at site.
- (ii) BHEL reserves the right to inspect, test and if necessary reject any part / parts after delivery at site (including incomplete manuals, catalogues, etc.) in case of any fault on the part of the supplier. It shall in no way be waived by the reason that the unit / item was previously inspected and passed by end user as per Inspection Clause detailed elsewhere in the Tender.
- (iii) To keep the unit fully operational, in case of failure of any item during the warranty period, it is the supplier's responsibility to arrange replacement / repairing at site at their own cost including custom duty, freight, etc. within a period of maximum 3 (three) weeks from the date of notification of such failure. The warranty for the repaired item shall be correspondently extended by a period equal to that from the date of failure to the date of re-commissioning. In case of replacements, the warranty shall be for (one) year from the date of commissioning of the replaced item.

INSPECTION / Testing of equipment at manufacturing stage:

Inspection shall be carried by any one of the end user approved third party inspection agencies viz. Lloyds / BV / DNV / RITES / IRS / Tuboscope Vetco as per requirements of various codes and standard mentioned in the supply order. All equipment of rig shall be tested as per standard test procedure of Rig manufacturer and equipment manufacturers and as per relevant API codes. Testing of mast shall be carried out as per API 4F. Testing of rig and systems should be carried out after final assembly of all rig modules, including carrier, substructure, mast, and after hooking up of the pneumatic & hydraulic lines between modules. Test certificates of equipment manufacturer for equipments & certificate of testing of rig after final assembly shall be submitted duly approved by TPI. Broad Scope of Third Party Inspection for Rig and Equipments shall be as under:-

- (i) Inspection of rig (s) and equipment shall be carried out as per standard test procedures of rig / equipment manufacturing and as per relevant codes, components, as per requirement of API Q1 and relevant API Code.
- (ii) Review / approval of QA plan and manufacturing program indicating various stages of inspection on receipt from manufacturer.
- (iii) Upon approval of QA plan, manufacturer shall intimate readiness for inspection in stages to inspecting agency giving sufficient advance notice for deputing their inspectors.
- (iv) Carry out all necessary NDT, Visual, Dimensional, Functional checks / tests as per QA approved plan including chemical and physical checks for raw material.
- (v) Review / verification of material test certificate, QC documentations, material traceability records etc. by inspecting agency on receipt from manufacturer.
- (vi) Visual inspection of various assemblies and sub-assemblies as per the specifications given in purchase order.
- (vii) Inspection for proper workmanship of various welding jobs and mountings.
- (viii) Witness final testing / performance testing of equipment by inspecting agency as per approved QA plan.
- (ix) To witness load test of mast to rated hook load capacity for 125 MT for 125 MT Rig at manufacturer premises for each rig and the load test certificate at specified load are to be submitted with the rig. During the test all assemblies, sub-assemblies are to be monitored for proper functioning.
- (x) Inspection shall also be carried out for all items of each individual rig package and the inspection certificate is to be issued.
- (xi) Issue of TPI certificate.

Note: VENDOR to quote third party inspection charges separately in the price bid only and the same will be considered for bid evaluation.

PRE-DESPATCH INSPECTION:

On satisfactory clearance of TPI (Third Party Inspection), pre-dispatch inspection call to be given to BHEL. Complete equipment along with engine package should be offered for



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

inspection & functional testing to BHEL by the supplier at manufacturer's premises at least 30 days prior to dispatch. The equipment shall be offered in fully assembled condition with all accessories fitted and ready for functional testing.

A multidisciplinary team will visit to the supplier's premises / manufacturing plant for inspection of complete rig package & functional testing of equipments prior to dispatch.

Pre-Dispatch Inspection charges (if any) should be quoted separately which shall be considered for bid evaluation.

The Inspection cum Acceptance process would include but not limited to the following minimum steps / tasks -

- a) Physical verification / inspection of all the items / fittings / accessories including Parts Catalogue, Maintenance & Service Manuals, Schematics, all tools under complete tool kit as well as other tools, all spares as per the Spare Parts List for engine etc.
- b) Any modification requirement arising out of design aspect consideration (on the part of the supplier) shall be in the scope of the supplier at no extra cost.
- c) The minutes of inspection process would be prepared at the end of the inspection and jointly signed by both the parties.
- d) Supplier shall confirm in writing compliance of all the points raised in the minutes of inspection as well as any other subsequent additions / changes, following deliberation with the inspector after arrival at BHEL.
- e) Any other testing / joint inspection indicated elsewhere in this tender.

TRAINING:

The supplier should arrange comprehensive training programme for the multidisciplinary team of engineers and technicians from end customer immediately after the completion of installation and commissioning of the rigs at customer designated site for a period of 2 (two) weeks on Maintenance, Troubleshooting & Working Principle of equipments, systems, items etc. of the unit amongst other relevant subjects. The training on Engine, transmission and other major items is to be arranged by the supplier but imparted by respective OEM's. [VENDOR should indicate the training module with duration in the technical bid. **Training charges should be quoted separately which shall be considered for bid evaluation**].

A broad guideline of training module for engineer / technician is as follows:

For Transport Engineer / Technician:

- I. Power assisted steering system including hydraulic pump and gearbox.
- II. Pneumatic system for brake & gear shifter (of the carrier) including different valves.
- III. Axle, brake & suspension systems.

For Equipment Maintenance Engineer / Technician:

- I. The operation, maintenance, trouble shooting & rectification related to Engine, Allison transmission, Generating Set [if any], Screw Air Compressor etc.
- II. Hydraulic system
- III. Pneumatic system
- IV. Draw-works, Rotary Swivel & other major rig equipment maintenance

For Electrical Engineer / Technician:

- I. Generating sets
- II. Power Control
- III. Power distribution

For Instrumentation Engineer / Technician:

- I. Training on instrumentation & control system of IC engines
- II. Driller's Console & Electronic sensors for monitoring drilling parameters
- III. Allison Transmission system

For Drilling Engineer / Technician

- I. Draw-works (with maintenance procedures)
- II. Hydraulic system
- III. Mast & controls
- IV. Raising & lowering of Mast, Assembling & disassembling of Mast & Substructure, Assembling & disassembling of Mast from carrier and packaging & unpackaging of Mast & Sub-structure for transportation purpose.



MANUALS & CATALOGUES:

The successful VENDOR shall also provide documented training modules as well as video & CD presentation of their equipment for operation & maintenance.

Four (05) sets (hard copies) of Operation & maintenance, repair / overhaul manuals, part books, P&ID,s / Drawings of all rig equipments, sub-assemblies, components, instrumentation, hydraulic, air, electric, lighting, power flow systems, mast, substructure, rig carrier and its components like steering system with pumps, carrier transmission system with prop shafts, gear shifter valves front axles, drive axles, differentials, suspension system, brakes system with shifters, valves & diaphragms, wheel rims, tyres, wheel studs, power flow and other systems, valves, manifolds, hydraulic pumps, generator, drillers console, crown-o-matic / floor-o-matic devices, air compressors, hydraulic catworks, BOP handling system, monkey board, hydraulic winch, pneumatic control valves, hydraulic control valves, tubing tongs, clutches, rotary drive system, PTO, pumps and motors, engines, transmissions, generators, light fittings, glands, tanks, hoses, couplings etc in English for each rig shall be supplied.

The VENDOR in addition to above shall also supply do's and don'ts for critical operations like carrier roading, carrier placing, mast raising & extending, engine and pumps startup and shut down, tripping etc along with operation procedure from starting engine upto doing various jobs as above. Besides, above sets of hard copies of all above manuals & drawings etc., the same are to be loaded on 2 sets of CD's per rig, and to be provided. Welding procedure for mast, substructure shall be provided.

Support for commissioning at end customer designated site: VENDOR shall also quote for support provided by VENDOR at customer-designated site for installation and commissioning of the supplied equipment. **The same will be considered for bid evaluation**

11) COMMISSIONING, ON SITE PERFORMANCE DEMONSTRATION / TESTING:

VENDOR shall provide supervisory support at BHEL Hyderabad for Interfacing of different rig equipment and the same supervision shall be provided by successful L1 VENDOR at end customer designated site. VENDOR shall quote these commissioning charges in all as single line item as mentioned in price bid format.

VENDOR to categorically confirm to the above and indicate the cost of commissioning in their offer, which will be considered for evaluation purpose.

PAINTING SCHEDULE: SUITABLE FOR CORROSIVE AND SALINE ENVIRONMENT:

Blast cleaning of all accessible surfaces to SA 2.5 standard. At least three (03) coats of polyurethane paint to be applied after applying primer and under carriage to be coated with Anti Corrosive Treatment for cement & rust.

The colour shade should be as under.

MAST – WHITE

Draw Works – Orange

Carrier Chassis – DA Grey or any other suitable shade painting

Substructure - Black

Brine Tanks – Grey

Bunkhouses: - White

Crown, Racking Board– Red

All working floors & walkways shall be painted with anti-skid paint suitable for corrosive coastal field atmosphere.

Note:

- **Approximate external transportation dimensions are 9m length, 2.5m width and 2.8m height** (with skid beam).
- **The name plate with the following details shall be engraved on every equipment supplied as per clause 11.5 of API-16D**
 - A) Manufacturers name or mark
 - B) API monogram of API license number if applicable
 - C) Model name or number
 - D) Date of manufacture
 - E) Weight of the equipment/component
 - F) Any other important/safety information



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

Spare Parts

- a) VENDOR shall confirm in offer that supply of spares for the offered model is guaranteed for minimum of 10 years after supply.
- b) Two years running spares (exclusive of mandatory spares as mentioned elsewhere in the tender) for various major components of the unit including the carrier to be quoted by the VENDOR.
- c) VENDOR shall also quote instrumentation
- (b) & (c) above will **not** be considered for bid evaluation purpose.

Documentation:

The vendor should provide the Operation, Maintenance / repair manual illustrating / indicating all parts by exploded part / assembly view – 4 sets as per clause 12.4 of API 16 D along with performance test and material test reports with certificates etc.

Wherever API 4F, 6A, 7F, 7K, 8C, 9A, 16A, etc. are mentioned, it is to be read with their corresponding API Q1 certificate and the items / equipments shall be API monogrammed.

Any item / equipment / accessory not included but necessary for efficient Control and operation of the system shall be provided and indicated by the VENDOR in the bid.

The motors, starters and the cable glands should be suitable for use in hazardous areas and duly certified by CMRI and approved by DGMS for Zone I and Gas group IIA & IIB of Oil Mines. The VENDOR shall submit copies of CMRI certificates & DGMS approvals for all the flameproof electric motors, starters and cable glands along with the supply and categorically confirm submission of the same in technical bid.

12. GENERAL NOTES (In addition to notes mentioned elsewhere in this tender)

- (a) The offered Mobile Rig package shall be brand new, unused, of recent manufacture, and free from any manufacturing defect. This shall be categorically stated by the VENDORS in their quotations.
- (b) Any deviation(s) from the tender specification should be clearly highlighted specifying justification in support of deviation.
- (c) Offers shall be complete in all respects and all the items / equipment as specified in the tender must be included in the package. Offers deemed to be incomplete shall be out rightly rejected. (VENDORS may quote additional items / equipment or accessories not covered in this enquiry, if felt necessary for the completeness and efficient operation of the rig package).
- (d) The VENDOR shall categorically confirm that the compatibility of all equipment offered has been thoroughly scrutinized and verified for smooth and trouble-free operation of the entire package to avoid unwarranted hitches during commissioning support.
- (e) Quotations shall be accompanied by detailed technical specifications, manufacturer's printed specification sheets, literature, drawings & catalogues as indicated.
- (f) VENDORS should specifically note the document submission schedule indicated elsewhere (i.e. in sections) including special documents requiring statutory clearances.
- (g) All equipment to be supplied with the Rig Package shall be in full conformance to and monogrammed per the respective API Specification as mentioned in the tender viz. API Spec 4F, API Spec 5L, API Spec 6A, API Spec 7F, API Spec 7K, API Spec 8C, API Spec 9A, API RP 500 & API RP 13E, etc wherever applicable.
- (h) VENDORS shall confirm categorically that Installation & Commissioning of the Rig Package with all accessories would be carried out by their competent personnel at customer's designated drill site.
- (i) VENDORS, quoting for any bought out items should undertake and comply with Guarantee / Warranty clause indicated elsewhere in this tender.
- (j) VENDOR is to confirm to provide the cost of the rig package broken down to major components like Carrier, Mast, Engine, Draw-works, Transmission etc. within 30 days of placement of order. The indicative list of major items is attached as Annexure – V.
- (k) VENDOR should confirm in their technical bid that they would provide services on call out basis after the normal warranty & guarantee (as stated elsewhere in this tender) for a period not less than 3 years. The charges for such call out services should be indicated in the commercial bid but will not be considered in evaluation of the tenders.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

ANNEXURES

ANNEXURE-I

TECHNICAL CHECK LIST FOR ENGINE			
Part I TECHNICAL		The following check list must be completed and returned with the offer. Please ensure that all these points are covered in your offer. These will ensure that your offer is properly evaluated. Please indicate details or Yes / No as applicable to the following question, in the right hand column.	
Sl. No.	PARAMETERS/REQUIREMENTS	VENDOR'S OFFER (To indicate details or yes/no, as applicable)	REMARKS, IF ANY
1.	Whether separately highlighted deviation from the technical specification?		
2.	Whether a detailed specification of Engine as per NIT specifications with manufacturer's technical literature / catalogue enclosed?		
3.	Whether the offered outfit engine is compatible to be fitted with offered Allison transmission as per NIT specifications?		
4.	Whether test certificate of the engine will be submitted?		
5.	Whether CAT diagnostic tools for both outfit as well as genset engine offered?		
6.	Whether Lube oil dispensing & evacuating pump sets offered?		
7.	Whether Sound level meter offered?		
8.	Whether spare parts for Engine, Allison Transmission, Screw Compressor offered.		
9.	Make & Model of outfit & Generating set Engine		
10.	Make & Model of Air Compressor [Primary & Auxiliary both]		
11.	Make & Model of Steering pump		
12.	Make & Model of Air Shut off Device		



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

Part II DOCUMENTATIONS			
Sl. No.	DESCRIPTIONS	DOCUMENT ENCLOSED (Yes or No)	REMARKS, IF ANY
1.	Whether O&M Manual, Engine built up records, Parts list of engine & Allison Transmission in soft as well as hard copy provided?		
2.	Whether documents of Lubrication, fuel, hydraulic & electrical system of the engine provided?		
3.	Whether documents of Performance rating curves of the engine provided?		
4.	Whether documents of Specific fuel consumption of the engine provided?		
5.	Whether documents of Emission norms of the engine provided?		
6.	Whether documents of Heat load calculation of the engine provided		
7.	Whether sketch / drawing for steering pump drive provided?		
8.	Whether drawing of dimensional layout diagram with foot print of the engine offered?		

ANNEXURE- II

LIST OF TOOLS		
Sl No	Description of Item	Quantity
1.	Open Jaw Double Ended Spanner set in Metric & Inch-12P/C per each set.	01 Set
2.	Double Ended Ring Spanner [deep offset hexagon ring] set in Metric & Inch – 12 P/C per each set.	01 Set
3.	Heavy duty Double Hexagon Standard Socket compatible for ½” Sq. Drive in Metric & Inch - 8mm to 36mm [1/4” to 1 3/8”] per each set.	01 Set
4.	Reversible [quick release] Ratchet compatible for ½” Sq. Drive- overall length 250mm - 01per set.	01 Set
5.	Sliding T-Bar compatible for ½” Sq. Drive - 01per set.	01 Set
6.	Extension Bar compatible for ½” Sq. Drive- overall length 75mm - 01per set.	01 Set
7.	Extension Bar compatible for ½” Sq. Drive- overall length 125mm - 01per set.	01 Set
8.	Extension Bar compatible for ½” Sq. Drive- overall length 250mm - 01per set.	01 Set
9.	Universal Joint compatible for ½” Sq. Drive- overall length 78mm - 01per set.	01 Set
10.	L- Handle compatible for ½” Sq. Drive- overall length 250mm - 01per set.	01 Set
11.	Adapter ¾” F X ½” M; 01per set.	01 Set
12.	Adapter ½” F X ¾” M; 01per set.	01 Set
13.	Universal Socket Wrench ½”; 01per set; [universal joint ½”].	01 Set
14.	Screw Driver Standard Blade, Cushion grip- 8mm X 250mm - 01per set.	01 Set



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

15.	Screw Driver 9 Tips with handle, Cushion grip - 01per set.	01 Set
16.	Adjustable Spanner- 200mm [8"] - 01per set.	01 Set
17.	Adjustable Spanner- 300mm [8"] - 01per set.	01 Set
18.	Allen Key Set-Long- Metric & Inch - 1.5mm to 12mm [12nos] & 1/16" to 1/2" [12nos] - 01per set.	01 Set
19.	Combination Pliers - 200mm [8"] - 01per set.	01 Set
20.	Long Nose Plier - 150mm - 01per set.	01 Set
21.	Circlip Plier-Straight Tip [internal Circlip puller]-Length 175mm [7"] - 01per set.	01 Set
22.	Circlip Plier-Bent Tip [external Circlip puller]-Length 175mm [7"] - 01per set.	01 Set
23.	Center Punch-Forged tool Steel hardened & tampered - 6mm X 100mm [1/4" X 4"] - 01 per set.	01 Set
24.	Ball Pen Hammer- Head length 355mm [14"] - 16 OZ - 01 per set.	01 Set
25.	Soft Face [Polymer] Hammer - Head Ø25mm - 01 per set.	01 Set
26.	Feeler Gauge- 25 Blades-300mm Long in Metric & Inch - 01 each per set; Make: Freeman.	01 Set
27.	Measuring Tape - 5Mtrs metallic -Auto retractable - 01 per set; Make: Freeman.	01 Set
28.	Tin snips - Drop forged carbon steel, hardened & tempered-Size 300mm [12"] - 01 each per set.	01 Set
29.	Thread Gauge - BSW, Metric, UNC, UNF - 01 each per set.	01 Set
30.	Caliper - Inside & Outside - 150mm [6"] - 01 each per set.	01 Set
31.	Screw Extractor Set - Hexagonal Head - 3mm to 18mm [1/8" to 3/4"]; - 01 per set.	01 Set
32.	Spirit Level - ABS Plastic-3vials [horizontal, plumb & 45°] - 01 per set.	01 Set
33.	Cold Chisel - Forged Chrome-Vanadium steel, hardened, quenched & tempered - 12mm X 150mm & 25mm X 150mm - 01each per set.	01 Set
34.	Liner Puller	01 Set
35.	Piston Insert tool	01 Set
36.	Piston ring expander	01 Set
37.	Injector puller	01 Set
38.	Timing adjustment tool	01 Set
39.	Bearing puller for fan shaft	01 Set

Bidder scope: Bidder shall supply above List of tools per each rig. Make shall be as per mentioned in ANNEXURE-III.

ANNEXURE - III

MAKE OF RIG ACCESSORIES

Make of major rig accessories for supply with rig package should be as per the following options.

Sl. No.	Equipment / Accessories	Make / Name of Vendor	API Specification
1.	Mast & Sub-Structure	Rig OEM	4F (PSL-2)
2.	Disc Brake	1. Eaton Corporation	-



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

3.	Draw-works & Rotary Chains	1. Diamond Chain Company 2. Regina Catene Calibrates.P.A. 3. Rexnord Kette GMBH	7F (Continuous API certification for 05 years preceding original BCD without any break)
4.	Drilling Instruments & Gauges	1. Martin Decker 2. Can Global 3. Wagner 4. Oteco	
5.	Engine	1. Caterpillar	
6.	Carrier Axles	1. Rockwell 2. Fabco, 3. Dana, 4. Clarke, 5. Meritor, 6. Sisu 7. Axle Tech 8. Equivalent make	-
7.	Dead line anchor	National Oilwell Varco	8C (PSL-2) (Continuous API certification for 05 years, at PSL-2, preceding original BCD without any break)
8.	Elevator links	1. American Block Company 2. Blohm& Voss GMBH 3. National Oilwell Varco	8C (PSL-2) (Continuous API certification for 05 years, at PSL-2, preceding original BCD without any break)
9.	Casing/ Drilling line	Usha Martin	9A (Continuous API certification for 05 years preceding original BCD without any break)
10.	Heavy duty suspension system	1. Hendrickson 2. Neway 3. Equivalent Make	
11.	Steering Box	1. Spicer 2. ZF 3. Sheppard 4. Rane 5. TRW	
12.	Steering Pump	1. VICKERS 2. PARKER 3. REXROTH	
13.	Carrier brake valves	1. Bendix 2. Wabco 3. Rexroth	



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

14.	Pneumatic balloon type Clutches	Wichita	
15.	TOOL KIT FOR ENGINE & TRANSMISSION	1. Snap on 2. Equivalent make	
16.	Hydraulic distributor, valve manifold, Hydraulic valves	1. VICKERS, 2. COMMERCIAL HYDRAULICS, 3. BENDIX, 4. EATON, 5. PARKER 6. REXROTH 7. Rig OEM make	
17.	Hydraulic winch	1. Braden	
18.	Auxiliary Air Compressor	1. IR 2. SULLAIR	
19.	Rig Instrumentation	Martin Decker	
20.	Hydraulic Pump	1. PARKER	
Note: The equipment confirming to API specifications must have the API monogram die stamped on the body			

Bidder scope: Bidder shall supply all the equipment as per given makes only.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

ANNEXURE – IV

SPARE PARTS LIST FOR CARRIER FOR TWO RIGS:

A	FRONT AXLE	1. Wheel stud with nut(s) 2. Axle Stud with nut 3. Wheel hub oil seal 4. Wheel hub bearing 5. Differential oil seal (if any)	16 sets 16 sets 16 sets 16 sets 08 sets
B	REAR AXLE	1. Wheel stud with nut(s) 2. Axle Stud with nut 3. Wheel hub oil seal 4. Wheel hub bearing 5. Differential oil seal 6. Differential Filter Element (if any)	20 sets 20 sets 20 sets 20 sets 09 sets 09 sets
C	DRIVE LINE (PROPELLER SHAFT)	1. UJ Cross (Spider and Bearing) 2. UJ Cross (if any) for steering pump	04 sets 04 sets
D	STEERING	1. Steering oil filter element 2. Steering pump Repair kit 3. Steering Box repair kit 4. Steering Power cylinder Repair kit 5. Tie rod end 6. Steering pump 7. Steering power cylinder 8. Power cylinder hose 9. Steering column UJ Cross 10. Pressure relief valve 11. Directional control valve	15 sets 10 sets 10 sets 10 full sets 08 sets 04 numbers 08 numbers 06 sets 06 sets 06 sets 06 sets.
E	PNEUMATIC SHIFTER OF STEERING PUMP	1. Shifter 2. Shifter Repair kit 3. Actuator for shifter (if any) 4. Repair kit for Actuator (if any) 5. Pneumatic Hoses for Shifter system	04 numbers 04 sets 02 numbers 06 sets 04 complete sets
F	BRAKE & PNEUMATIC CIRCUIT	1. Foot Brake Valve repair kit 2. Front wheel Servo repair kit 3. Rear Wheel Servo repair kit 4. Air Dryer Filter Element. 5. Repair Kit for all pneumatic valves 6. Maxi brake (parking brake) 7. Foot brake valve assembly 8. Brake servo assembly- Front 9. Brake servo assembly- Rear)	10 sets 16 sets 20 sets 15 numbers 12 sets each for each valve 06 sets 04 numbers 08 numbers 12 numbers
G	Gear Shifter (Inside the Driver's cabin	1. Gear shifter 2. Gear shifter repair kit 3. Gear shifter Hoses	2 no 6 sets 6 sets
H	SUSPENSION	1. U-BOLT. 2. Centre bolt 3. Shackle bush 4. Front shock absorber 5. Rear shock absorber	20 numbers 10 numbers 04 sets 10 numbers 10 numbers



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

	6. Leaf spring set (front)	06 sets
	7. Walking beam (rear)	06 sets

Bidder scope: Bidder shall supply above list of items as per the quantity mentioned. The list given is for two rigs. **The same is considered for bid evaluation purpose.**

ANNEXURE – V:

LIST OF MAJOR COMPONENTS OF RIG (FOR EACH UNIT)

***Price to be indicated in Price bid only. Price/rate should not be mentioned in the technical bid; else the bid shall be rejected. Below prices shall be valid for 10 years. The same is not considered in for price bid evaluation.

	Major Components	Unit Cost
1.	Total Mast & Sub-Structure drawings, crown, v door pipe slide, etc...	
2.	Disc Brake *	
3.	Draw-works inclusive of chains	
4.	Hydraulic Winches	
5.	Rig Engine	
6.	Rig Carrier	
7.	Carrier Axles	
8.	Heavy duty suspension system	
9.	Steering Box	
10.	Steering Pump	
11.	Carrier brake valves	
12.	Pneumatic balloon type Clutches	
13.	Hydraulic distributor, valve manifold, Hydraulic valves	
14.	Auxiliary Air Compressor	
15.	Hydraulic Pump	
16.	Hydraulic Tubing Tong	

Note: Items indicated with (*) may require certification confirming conformance to OMR-2017 and subsequent Guidelines / notification of DGMS to be used under the notified hazardous area of the well site. Any additional item of the rig package as per the specification of the tender requiring such certification has to be mentioned under the list indicated with price break up.

COMMERCIAL CHECK LIST

THE CHECK LIST MUST BE COMPLETED AND RETURNED WITH YOUR OFFER. PLEASE ENSURE THAT ALL THESE POINTS ARE COVERED IN YOUR OFFER. THESE WILL ENSURE THAT YOUR OFFER IS PROPERLY EVALUATED. PLEASE SELECT "Yes" OR "No" TO THE FOLLOWING QUESTIONS, IN THE RIGHT HAND COLUMN.

Sl#	REQUIREMENT	COMPLIANCE
1.0	Whether bid submitted under Single Stage three Bid System?	Yes / No
2.0	Whether quoted as manufacturer?	Yes / No
3.0	Whether ORIGINAL Bid Bond (not copy of Bid Bond) as per Revised Format (Annexure VII Revised) Sent separately? If YES, provide details	Yes / No



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

	(a) Amount :	
	(b) Name of issuing Bank :	
	(c) Validity of Bid Bond :	
4.0	Whether offered firm prices ?	Yes / No
4.1	Whether quoted offer validity of 180 days from the bid closing date of tender?	Yes / No
4.2	Whether quoted a firm delivery period?	Yes / No
4.3	Whether agreed to the NIT Warranty clause?	Yes / No
4.4	Whether confirmed acceptance of tender Payment Terms of 80% against shipment/dispatch documents and balance 20% after successful commissioning/testing along with commissioning/testing charges?	Yes / No
5.0	Whether confirmed to submit PBG as asked for in NIT?	Yes / No
5.1	Whether agreed to submit PBG within 30 days of placement of order?	Yes / No
6.0	Whether Price submitted as per Price Schedule (refer Para 12.0 of BRC vide Annexure – II)?	Yes / No
6.1	Whether quoted as per NIT (without any deviations)?	Yes / No
7.0	Whether cost of Recommended Spares for 2 years of operations quoted?	Yes / No
7.0	Whether quoted any deviation?	Yes / No
7.1	Whether deviation separately highlighted?	Yes / No
8.0	Whether indicated the country of origin for the items quoted?	Yes / No
8.1	Whether technical literature / catalogue enclosed?	Yes / No
8.2	Whether weight & volume of items offered indicated?	Yes / No
9.0	For Foreign Bidders - Whether offered FOB / FCA port of despatch including sea / air worthy packing & forwarding?	Yes / No
9.1	For Foreign Bidders – Whether port of shipment indicated. To specify:	Yes / No
9.2	For Foreign Bidders only - Whether indicated ocean freight up to Mumbai port (Excluding marine insurance) ?	Yes / No
9.3	Whether Indian Agent applicable ?	Yes / No
	If YES, whether following details of Indian Agent provided?	
	(a) Name & address of the agent in India – To indicate	
	(b) Amount of agency commission – To indicate	
	(c) Whether agency commission included in quoted material value?	
10.0	For Indian Bidders – Whether indicated the place from where the goods will be dispatched. To specify :	Yes / No
10.1	For Indian Bidders – Whether road transportation charges up to Hyderabad quoted?	Yes / No
10.2	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	Yes / No
10.3	For Indian Bidders only - Whether indicated import content in the offer?	Yes / No
10.4	For Indian Bidders only - Whether offered Deemed Export prices?	Yes / No
10.5	For Indian Bidders only – Whether all applicable Taxes & Duties have been quoted?	Yes / No
11.0	Whether all BRC/BEC clauses accepted ?	Yes / No
12.0	Whether Integrity Pact with digital signature uploaded?	Yes / No
12.1	Whether all the clauses in the Integrity Pact have been	Yes / No



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

	accepted?	
12.2	Whether all Financial documents as per BRC Financial have been uploaded?	Yes / No



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

CERTIFICATE OF ANNUAL TURNOVER & NET WORTH

TO BE ISSUED BY PRACTISING CHARTARD ACCOUNTANTS' FIRM ON THEIR LETTER HEAD		
<u>TO WHOM IT MAY CONCERN</u>		
This is to certify that the following financial positions extracted from the audited financial statements of M/s.....(Name of the bidder) for the last three (3) completed accounting years upto..... (as the case may be) are correct		
YEAR	TURN OVER In INR (Rs.) Crores/ US \$ Million) *	NET WORTH In INR (Rs.) Crores / US \$ Million) *
*Rate of conversion (if used any): USD 1.00 = INR		
Place:		
Date:		
Seal		
Membership No:		
Registration Code:		
Signature		

*Applicable only for GLOBAL tenders

BID EVALUATION CRITERIA (BEC)/BID REJECTION CRITERIA (BRC)

The bids must conform to the specifications, terms and conditions given in the tender. Bids shall be rejected in case the item(s) offered do not conform to the required minimum/maximum parameters stipulated in the technical specifications and to the respective international / national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected:

BID REJECTION CRITERIA (BRC)

A. TECHNICAL:

- 1) Mobile Rig Package shall be suitable for operating in end user fields with the following environmental conditions. Bidders to categorically confirm.
 - a) Max. recorded ambient temp = 41 deg. Celsius
 - b) Min. recorded ambient temp = 5 deg. Celsius
 - c) Average annual rainfall: 250 / 300 cm
 - d) Humidity - 100% @ 21°C, 95% @ 35°C & 70% @ 41°C
- 2) The Input Horse Power Rating of the Draw-works of Mobile Rig shall not be less than 550 HP.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

- 3) The Carrier shall have two (02) numbers Caterpillar, model C-11 engines capable of developing minimum 300 HP (net) @ 2100 RPM at flywheel end [operating speed range 1800-2200 RPM] as mentioned in technical specification.
- 4) The Minimum Static Hook Load Capacity of the Mast shall be minimum 125 MT (136 tons, 275577.8 lb) with 8 lines strung for each of the offered mobile rig package.
- 5) Substructure shall be rated for minimum 185 MT (203.9 ton) rotary load, minimum 90 MT (99.2 ton) set back load & minimum 275 MT (303.1 ton) simultaneous load for each of the offered mobile rig package.

CLAUSE WISE COMPLIANCE SHEET:

ANNEXURE-VI

Sl No.	Specification Clause No.	Complied (Yes/No)	Bidder Remarks/deviations taken if any
1.	A.1		
2.	A.2		
3.	A.3		
4.	A.4		
5.	A.5		
6.	B.1		
7.	B.2		
8.	B.3		
9.	B.4		
10.	B.5		
11.	B.6		
12.	B.7		
13.	B.8		
14.	B.9		
15.	B.10		
16.	B.11		
17.	B.12		
18.	B.13		
19.	B.14		
20.	B.15		
21.	B.16		
22.	B.17		



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

23.	B.18		
24.	B.19		
25.	B.20		
26.	B.21		
27.	B.22		
28.	B.23		
29.	B.24		
30.	B.25A		
31.	B.25B		
32.	B.25C		
33.	C.1		
34.	C.2		
35.	C.3		
36.	C.4		
37.	D.1		
38.	D.2		
39.	D.3		
40.	D.4		
41.	D.5		
42.	D.6		
43.	D.7		
44.	D.8		
45.	D.9		
46.	D.10		
47.	D.11		
48.	D.12		
49.	ANNEXURE-I		
50.	ANNEXURE-II		
51.	ANNEXURE-III		



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

52.	ANNEXURE-IV		
53.	ANNEXURE-V		

BIDDER SCOPE: Bidder to fill above compliance sheet Clause wise. If any deviations are observed, bidder is requested to fill the Remarks column above along with technical offer.



SECTION – 4

PRICEBID FORMAT



PRICE BID FORMATS

- Price bid format for foreign vendors:

- (A) Unit Cost of total package
- (B) Total material cost (unit cost X 2) (other than Sl. No. C to I below)
- (C) Cost of Spares for Carrier (refer Annexure IV)
- (D) Cost of Tools for Carrier Engine (refer Annexure II)
- (E) Cost of Spares for Carrier Engine
- (F) Cost of spares for Allison Transmission.
- (G) COST FOR REVIEW OF BHEL DRAWINGS/NEW DRAWINGS IF ANY
- (I) Cost of Commissioning spares, if any
- (J) Third party Inspection charges
- (K) Grand Total Material Cost, $(B + C + 2 \times D + E + F + G + I + J)$
- (L) Packing & FOB Charges
- (M) Pre shipment INSPECTION CHARGES IF ANY
- (N) Total FOB port of shipment charge $(K+L+M)$
- (O) Ocean Freight Charges upto Mumbai, India
- (P) Banking and Insurance Charges @ 1.5% on total FOB value vide N above
- (Q) Total CIF Mumbai value, $(N + O + P)$
- (R) ISGT @5% on R
- (S) Compensatory cess on R if any
- (T) CIF + IGST Value $(Q+R+S)$
- (U) Installation & Commissioning supervision Charges:
- (V) GST & Applicable Compensatory Cess if any; on Installation & Commissioning Charges vide U above:
- (W) Training charges, if any
- (X) GST & Applicable Compensatory Cess If any; on Training charges vide W above
- (AA) Grand Total Value $(T+U+V+W+X)$
- (BB) grand total in WORDS
- (CC) gross WEIGHT
- (DD) Gross Volume

Price Bid Format for Indigenous Bidders:

- (A) Unit Cost of Total package:
- (B) Total material cost (Unit cost X 2) (other than Sl. No. C to J below):
- (C) Cost of Spares for Carrier(refer Annexure IV):
- (D) Cost of Tools for Carrier Engine(refer Annexure II):
- (E) Cost of Spares for Carrier Engine:
- (F) Cost of Spares for Allison Transmission:
- (G) COST FOR REVIEW OF BHEL DRAWINGS/NEW DRAWINGS IF ANY
- (J) Cost of Commissioning spares, if any:
- (K) Third party Inspection charge:
- (L) Grand Total Material Cost, $(B + C + 2 \times D + E + F + G + J + K)$:
- (M) Packing and Forwarding Charges:
- (N) Pre-shipment Inspection charges, if any:
- (O) Total Ex-works value, $(L + M + N)$ above:
- (P) GST on (O) above:



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

- (Q) Compensatory Cess, If any on (P) :
- (R) Total FOR Despatching Station value (O + P +Q):
- (S) Inland Freight Charges upto BHEL Hyderabad including GST :
- (T) GST included Transit Insurance Charges @ 0.5 % of (R):
- (U) Total FOR Hyderabad value, (R + S + T) above :
- (V) Installation & Commissioning supervision charges:
- (W) GST & Applicable Compensatory Cess If any; on Installation & Commissioning Charges vide (V) above:
- (X) Training charges, if any:
- (Y) GST & Applicable Compensatory Cess If any; on Training charges vide (X) above:
- (Z) Grand Total Value (U + V + W + X + Y):
- (AA) Grand Total value in words:
- (BB) Gross Weight :
- (CC) Gross Volume :
- (DD) Import Content, if any:

Spare parts: Bidder shall confirm in technical bid that the listed spare parts are quoted in price bid. If bidder failing to quote the same, the bid will not be further evaluated.

Note : i) Please indicate HSN /SAC Code of the quoted material & services. Cost of the individual items should be shown separately and total thereto should be shown as called in the Price Bid Format (SUMMARY).

Bidder shall accept and comply with the following clauses as given in the Bid Document/ Instruction To Bidder (ITB), failing which bid shall be liable for rejection:

- i) Liquidated Damages
- ii) Warranty/Guarantee of material
- iii) Arbitration / Resolution of Dispute
- iv) Force Majeure
- v) Applicable Laws



SECTION – 5

INTRIGRITY PACT FORMAT



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

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 B. Krishnan AGM/BHEL	Ph: +910423183414 Mo.:+919490492122 krishbadur_h@bhel.in
2	Shri Rajeev Kumar DGM/BHEL	Ph: +910423185290 Mo.:+919490746965 raj31@bhel.in



BHEL-IP

AA:SSP:IP:R02 dtd 10.07.2018

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

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

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

Section 1- Commitments of the Principal

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

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

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

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

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



BHEL-IP

AA:SSP:IP:R02 dtd 10.07.2018

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

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

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

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

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to



demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

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

- 6.1 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors. In case of sub-contracting, the Principal contractor shall be responsible for the adoption of IP by his sub-contractors and shall continue to remain responsible for any default by his sub-contractors.
- 6.2 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

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

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

Section 8 - Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality in line with Non- disclosure agreement.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

BHEL-IP

AA:SSP:IP:R02 dtd 10.07.2018

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

Section 9 - Pact Duration

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

Section 10 - Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

BHEL-IP

AA:SSP:IP:R02 dtd 10.07.2018

- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal

(Office Seal)

Place-----

Date-----

Witness:_____

(Name & Address) _____

For & On behalf of the Bidder/

Contractor

(Office Seal)

Witness:_____

(Name & Address) _____



SECTION – 6

PERFORMANCE BANK GUARANTEE FORMAT



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited ¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____ ² hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated ³ valued at Rs..... ⁴ (Rupees - -----)/FC.....(in words.....) for ⁵ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- (Rupees -----) without any demur, immediately on a demand from the Employer, .

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

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



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

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

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

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

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

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

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



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

Unless a demand or claim under this guarantee is made on us in writing on or before the⁷we shall be discharged from all liabilities under this guarantee thereafter.

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

Notwithstanding anything to the contrary contained hereinabove:

a) The liability of the Bank under this Guarantee shall not exceed.....

⁸

b) This Guarantee shall be valid up to⁹

c) Unless the Bank is served a written claim or demand on or before¹⁰

all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

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

For and on

behalf of

(Name of

the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

⁸ BG AMOUNT IN FIGURES AND WORDS.



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

⁹ VALIDITY DATE

¹⁰ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 2/3 months after validity date.
2. In Case of Bank Guarantees submitted by Foreign Vendors-
 - a. From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India) can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
 - b. From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at **sl.no. b.1** will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
 - b.4 The BG should clearly specify that the demand or other doc



SECTION – 7

NON DISCLOSURE AGREEMENT



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 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

- 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 decodes 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)



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

arising out of or in connection with any unauthorized or any other breach of the terms and 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 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02

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

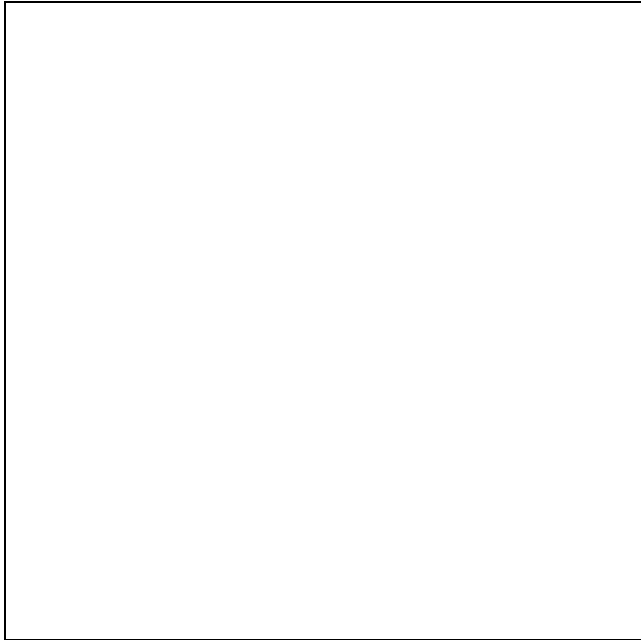
PROJECT

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



Tender specifications for 2X125 MT Rig Equipment

Specification No. OE54159 Rev-02



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) _____.