

Corrigendum-02-Enquiry no 431700241-High Temperature Vertical Spin Test Rig

Sl. No.	Clause	Read instead	Read as	Remarks
1	1.5	Sensor system consisting of high temperature strain measurement system using high temperature strain gauges, Digital Image Correlation (DIC) technique, crack monitoring system, temperature measurement sensors and accessories.	Sensor system consisting of high temperature strain measurement system using high temperature strain gauges, crack monitoring system, temperature measurement sensors and accessories.	
2	3.1.3	The spin chamber shall contain Viewports with special glass to be provided for pyrometer, DIC strain measurement system, visual inspection of the test rotor during testing (refer clause 3.9.10) and any other requirement for the safe and continuous operation of the system.	The spin chamber shall contain Viewports with special glass to be provided for pyrometer, visual inspection of the test rotor during testing (refer clause 3.9.10) and any other requirement for the safe and continuous operation of the system.	
3	3.1.4	The spin chamber shall have provision for installation of high speed video camera (refer clause 3.9.11)	Null & Void	Clause removed
4	3.6.7	Vendor to supply Nitrogen gas Tank and specify the tank capacity (in liters) to meet the continuous operations. Frequency of replenishment and replacement of Nitrogen gas to be specified.	Null & Void	Clause removed
5	3.7.7	100% redundancy in heating system for continuous operation during heating cycle and steady state operation of the test rotor. In case of failure of one set of heating system, the redundant heating system should start automatically for uninterrupted testing.	Null & Void	Clause removed
6	3.8.10	—	Vendor to supply Nitrogen gas Tank and specify the tank capacity (in liters) to meet the continuous operations. Frequency of replenishment and replacement of Nitrogen gas to be specified.	Clause added
7	3.9.5	DIC (Digital Image Correlation) system for strain measurement on the rotor surface throughout the length of the test rotor for temperature up to 820 deg. C (refer Annexure-IV)	Null & Void	Clause removed
8	3.9.10	The Viewports in the chamber shall facilitate measurement using pyrometer, DIC strain measurement system, visual inspection of the test rotor during testing and any other requirement for the safe and continuous operation of the system.	The Viewports in the chamber shall facilitate measurement using pyrometer, visual inspection of the test rotor during testing and any other requirement for the safe and continuous operation of the system.	

9	3.9.11	High speed (minimum 10000 frames/sec and minimum resolution of (512x512) video recording system to record events inside the chamber	Null & Void	Clause removed
10	3.10.1	System shall continuously acquire, monitor and store data for the parameters as mentioned in clause 3.9 during the test rig operation. Conventional signals can be logged in the data acquisition system. Data from specialized systems like DIC, crack detection, video recording etc. shall be logged into the main or designated computer	System shall continuously acquire, monitor and store data for the parameters as mentioned in clause 3.9 during the test rig operation. Conventional signals can be logged in the data acquisition system. Data from specialized systems like crack detection etc. shall be logged into the main or designated computer	
11	3.10.12	Data acquisition and control will be through standalone hardware (Input/ Output i.e. I/O modules and real time operating system (RTOS) based controller). The controller should NOT be computer (PC) or non-RTOS based. The hardware should be housed in panel or cabinet. Provision for addition of extra I/O modules in panel or cabinet for future use. Specialized sensing systems like crack growth, radial growth, DIC, video recording etc. can have separate hardware (data acquisition system i.e. DAS) to send the data to main console.	Data acquisition and control will be through standalone hardware (Input/ Output i.e. I/O modules and real time operating system (RTOS) based controller). The controller should NOT be computer (PC) or non-RTOS based. The hardware should be housed in panel or cabinet. Provision for addition of extra I/O modules in panel or cabinet for future use. Specialized sensing systems like crack growth, radial growth, etc. can have separate hardware (data acquisition system i.e. DAS) to send the data to main console.	
12	3.10.18	Vendor shall supply the suitable control room/Cabin with required Heating, Ventilation and Air Conditioning (HVAC)	Vendor shall submit the required specifications and drawings of control room within 60 days of PO placement and Control Room construction will be in BHEL scope.	
13	3.13	Necessary mechanical, electrical, electronic and hydraulic spares parts for three years of trouble free continuous operation after warranty period to be indicated. Itemized breakup price of spares for the following systems shall be quoted in the price bid. 3.13.1 Spin chamber 3.13.2 Chamber Lid 3.13.3 Drive system 3.13.4 Lube oil system 3.13.5 Vacuum system 3.13.6 Heating System for test rotors 3.13.7 Cooling System for test rotors 3.13.8 Instrumentation & Sensor system 3.13.9 Data Acquisition & Control system.	Necessary mechanical, electrical, electronic and hydraulic spares parts for five years of trouble free continuous operation after warranty period to be indicated. Itemized breakup price of spares for the following systems shall be quoted in the price bid. 3.13.1 Spin chamber 3.13.2 Chamber Lid 3.13.3 Drive system 3.13.4 Lube oil system 3.13.5 Vacuum system 3.13.6 Heating System for test rotors 3.13.7 Cooling System for test rotors 3.13.8 Instrumentation & Sensor system 3.13.9 Data Acquisition & Control system.	

		3.13.10 Electrical System 3.13.11 Any other spares which may be required Note-1: Price of recommended spares beyond warranty period will be included in cost comparison. Note-2: Availability of spares is to be ensured for ordering beyond the warranty period, for a min. of 10 years.	3.13.10 Electrical System 3.13.11 Any other spares which may be required Note-1: Price of recommended spares beyond warranty period will be included in cost comparison. Note-2: Availability of spares is to be ensured for ordering beyond the warranty period, for a min. of 10 years.	
14	5.0	The layout to be proposed by vendor and approved by BHEL. The vendor shall supply 3 copies of equipment General Arrangement and foundation drawings and acceptance norms within 60 days of purchase order acknowledgement. Vendor should supply the design and drawing details to BHEL which should include information like reinforcement details, construction joints details, details of load considered, Grade of concrete to be used, any anti-vibrational mounting if required. BHEL will provide the foundation as per vendor design. Vendor shall also indicate detailed specifications of grouting compound and any additives, grouting procedure and grouting bolts or any special parts required during the foundation. Any special foundation accessories to be supplied by the vendor shall be listed, quoted and supplied separately ahead of main supply. Vendor may indicate to BHEL for any site data like Soil investigation data, foundation data of adjacent buildings. INDIAN STANDARDS code of practice (for machine foundation, other foundations, for geotechnical data, concrete design etc.) to be followed for the foundation design. Foundation will be made by BHEL. Soundness of the foundation to be checked and certified by the vendor within 30 days of work completion intimation by BHEL.	The layout to be proposed by vendor and approved by BHEL. The vendor shall supply 3 copies of equipment General Arrangement and foundation drawings and acceptance norms within 60 days of purchase order acknowledgement. Vendor should supply the design and drawing details to BHEL which should include information like reinforcement details, construction joints details, details of load considered, Grade of concrete to be used, any anti-vibrational mounting if required. BHEL will provide the foundation as per vendor design. Vendor shall also indicate detailed specifications of grouting compound and any additives, grouting procedure and grouting bolts or any special parts required during the foundation. Any special foundation accessories to be supplied by the vendor shall be listed, quoted and supplied separately ahead of main supply. Vendor may indicate to BHEL for any site data like Soil investigation data, foundation data of adjacent buildings. INDIAN STANDARDS code of practice (for machine foundation, other foundations, for geotechnical data, concrete design etc.) to be followed for the foundation design. Foundation will be made by BHEL.	
15	8.3 (w)	Details of the DIC strain measurement system,	Null & Void	Clause removed
16	10.1	Warranty for all parts (for all systems and sub-systems): Warranty for 36 months from the date of successful demonstration and acceptance at R&D. Vendors shall quote and supply the spares (including low-shelf life spares) required	Warranty for all parts (for all systems and sub-systems): Warranty for 12 months from the date of successful commissioning or 18 months form the date of dispatch, whichever is earlier. Vendors shall quote and supply the	

		for this warranty period. Warranty spares are to be identified (both in quantity and nomenclature) in the technical bid and supplied along with the equipment. All the warranty spares are to be classified and tagged along with the respective sub-systems for ease of identification. Unutilized warranty spares shall be retained by BHEL after expiry of warranty period. For low shelf-life items less than three years spares to be supplied at appropriate time for enabling continuous operation of entire system.	spares (including low-shelf life spares) required for this warranty period. Warranty spares are to be identified (both in quantity and nomenclature) in the technical bid and supplied along with the equipment. All the warranty spares are to be classified and tagged along with the respective sub-systems for ease of identification. Unutilized warranty spares shall be retained by BHEL after expiry of warranty period. For low shelf-life items less than 18 months from dispatch, spares to be supplied at appropriate time for enabling continuous operation of entire system	
17	11.4.5	--	Vendor has to do strain gauging (minimum 3 No's) and temperature gauging (minimum 10 No's) on PDI rotor for validating the high temperature strain & temperature sensors, telemetry and data acquisition system for heating and cooling cycles. However gauging on Test rotors will be done by BHEL. Vendor to supply the strain gauges for BHEL rotors. BHEL engineers to be trained by the vendor for the installation of the above strain and temperature sensors during PDI at vendor's work and at BHEL R&D during commissioning.	Clause added
18	14 a)	Non-comprehensive AMC charges shall be quoted for 3 years beyond the stipulated warranty period (of 3 years) quoted on per year basis as a % of basic equipment cost as per Annexure -XII enclosed with the enquiry	Non-comprehensive AMC charges shall be quoted for 5 years beyond the stipulated warranty period (Ref Warranty terms) quoted on per year basis as a % of basic equipment cost as per Annexure- XI enclosed with the enquiry	
19	14 c)	BHEL will add the quoted AMC charges of three years for cost evaluation while deciding the tender priorities	BHEL will add the quoted AMC charges of five years for cost evaluation while deciding the tender priorities	
20	14 d)	BHEL reserves the right to place a separate order/ orders for AMC contract for 3 years and / or part thereof, at the rates quoted after warranty period.	BHEL reserves the right to place a separate order/ orders for AMC contract for 5 years and / or part thereof, at the rates quoted after warranty period.	
21	16	The equipment enquired forms a part of a Government of India funded Project (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date. Vendor shall comply with this required period.	The equipment enquired forms a part of a Government of India funded Project (Scheme) and the delivery period mentioned below has been derived keeping in view of the Scheme completion date.	

	Vendor should quote time period separately for ‘Supply’ and ‘E&C’ of equipment 16.1. Supply period: For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., Order acceptance, submission of drawings etc., should not be linked to the delivery period. Supply period indicated by vendor should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the vendor shall submit milestones for various activities in correlation with Supply and E&C period quoted by him. Time period required for dispatch Ocean Bill of Lading (OBL) date for out-side India Suppliers / Lorry Way Bill(LWB) date for FOR-BHEL R&D Stores for Indian Suppliers) from the date of Purchase Order in the “Vendor’s confirmation” below. DELIVERY PERIOD (in Weeks) REQUIRED BY BHEL (SUPPLY PORTION) (PO date to OBL/LWB date): 52 Weeks DELIVERY PERIOD (in Weeks) OFFERED BY VENDOR(SUPPLY PORTION) (PO date to OBL/LWB date):_____ 16.2. E&C and demonstration period: – within 8 weeks after intimation of readiness of the site. E&C start date within 30 days from the intimation of site readiness by BHEL. E & C and DEMONSTRATION PERIOD (in Weeks) REQUIRED BY BHEL: 08 Weeks E & C PERIOD (in Weeks) OFFERED BY VENDOR (E & C PORTION): _____ However, while evaluating the offers, those offers which are not conforming the requested delivery and E & C and demonstration period by BHEL, COMMERCIAL LOADING	Vendor should quote the best time periods separately for ‘Supply’ and ‘E&C’ of equipment 16.1 Supply period: For Supply portion, duration shall be counted from the date of Purchase Order. Vendors are required to indicate the best delivery period i.e., Order acceptance, submission of drawings etc., should not be linked to the delivery period. Supply period indicated by vendor should include reasonable time required for approval of drawings and other inputs from BHEL. In the Techno-Commercial Bid, the vendor shall submit milestones for various activities in correlation with Supply and E&C period quoted by him. Time period required for dispatch Ocean Bill of Lading (OBL) date for out-side India Suppliers / Lorry Way Bill(LWB) date for FOR-BHEL R&D Stores for Indian Suppliers) from the date of Purchase Order in the “Vendor’s confirmation” below. DELIVERY PERIOD (in Weeks)- DESIRED BY BHEL 52 Weeks (SUPPLY PORTION) - PO date to Dispatch - 1. OBL(Ocean bill of lading for foreign shipment) 2. LWB (Lorry way bill for Indian shipments): BEST DELIVERY PERIOD (in Weeks) OFFERED BY VENDOR(SUPPLY PORTION) (PO date to OBL/LWB date):_____ Vendor to quote the best delivery period which will be mutually worked out before price bid opening. 16.2 E&C and demonstration period: – within 8 weeks (preferred) after intimation of readiness of the site. E&C start date within 30 days from the intimation of site readiness by BHEL.	
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		@½% of the purchase order value per week will be done for the EXTRA PERIOD requested. Commercial loading on the offered price will be done during evaluation of the offers.	E & C and DEMONSTRATION PERIOD (in Weeks) REQUIRED BY BHEL: 08 Weeks E & C and DEMONSTRATION PERIOD (in Weeks) OFFERED BY VENDOR (E & C PORTION): _____ For loading details: ref commercial terms.	
22	20.10	The Vendor should quote these charges as % of basic equipment price also separately in un-priced and priced bids as per enclosed Annexure-VII and Annexure-IX respectively. Only in case where quoted value is less than the value (in %) specified above or separate value is not mentioned in the offer, value for E&C shall be deemed to be considered as the value indicated above (10%) and accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as per Payment terms- under Commercial terms and conditions of enquiry.	The Vendor should quote these charges as % of basic equipment price also separately in un-priced and priced bids as per enclosed Annexure-VIII and Annexure-IX respectively. Only in case where quoted value is less than the value (in %) specified above or separate value is not mentioned in the offer, value for E&C shall be deemed to be considered as the value indicated above (10%) and accordingly supply value will be adjusted from that quoted value and balance will be released as E&C payment as per Payment terms- under Commercial terms and conditions of enquiry.	
23	23.3	Post-installation charges at site of installation should be quoted separately in unpriced and priced bids as per Annexure-VII and Annexure-VIII respectively.	Post-installation charges at site of installation should be quoted separately in unpriced and priced bids as per Annexure-VIII and Annexure-IX respectively.	
24	Sl. No. 24: NDA and Confidentiality of the Shared Technical information	---	Technical information shared by the Vendors during technical bid submission and evaluation process will remain confidential i.e. within BHEL and will not be disclosed outside. NDA with the bidders can be executed at an appropriate time.	Clause added
25	Annexure-IV	Specification of DIC(Digital Image co relation) strain measurement system for the test rotor	Not Applicable	Annexure Removed
26	Other Terms & conditions- Sl. No. 7, Contract Execution	The successful vendor shall have to furnish a Contract Execution Bank Guarantee (CEBG) for 10% of the Total PO value in the prescribed format within 30 days from the date of P.O. but before L/C opening. CEBG shall be from one of the Consortium Banks of BHEL or from a reputed Bank and confirmed by any Consortium Bank of BHEL. All bank charges on account of issuance and	Null & Void	Clause Removed

	Bank Guarantee (CEBG)	conformation of CEBG whether incurred in India or outside India will have to be borne by the vendor. CEBG shall be kept valid until 30 days after the date of E&C Certificate, which will be issued on completion of Erection & Commissioning of equipment which includes erection, commissioning, job proving, performance test, and training to operators etc. as prescribed in PO. If the supplier fails to submit the CEBG even within 60 days from the date of PO, BHEL reserves the right to cancel PO & forfeit the EMD, if any, given by the supplier. In addition, in such case, action will be initiated in line with extant guidelines for Suspension of Business dealings with Suppliers		
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Note: - The due date for bid submission and tender opening extended by three weeks i.e. upto 27.06.17.

ANNEXURE-VIII: I

**REVISED UN-PRICED BID FORMAT FOR HIGH TEMPERATURE
VERTICAL SPIN TEST RIG SYSTEM – INDIAN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supplies

S. No.	Item Description	Units	Qty	Unit Rate (INR)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL. No 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.0	High Temperature Vertical Spin Test Rig System as per specifications with the following items:					
1.1	Spin chamber, Lid and with associated Accessories	Set	1	Quoted	Quoted	
1.2	Drive System including Support/ Adapter for holding the test rotor	Lot	1	Quoted	Quoted	
1.3	Rotor Assembly Stand	Lot	1	Quoted	Quoted	
1.4	Lube Oil system with redundancy	Lot	1	Quoted	Quoted	
1.5	Vacuum system with redundancy	Lot	1	Quoted	Quoted	
1.6	Integrated Heating System	Set	1	Quoted	Quoted	
1.7	Integrated rotor Cooling System with redundancy	Set	1	Quoted	Quoted	
1.8	Instrumentation & Sensor system					
1.8.1	Strain Gauges	Lot	1	Quoted	Quoted	
1.8.2	Thermocouples	Lot	1	Quoted	Quoted	
1.8.3	Vibration Monitoring system	Set	1	Quoted	Quoted	
1.8.4	Residual unbalance monitoring & measurement system	Set	1	Quoted	Quoted	
1.8.5	Telemetry for Strain, temperature	Set	1	Quoted	Quoted	

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High Temperature Vertical Spin Test Rig- Bid Formats-Indian Supplier – Indian Currency

S. No.	Item Description	Units	Qty	Unit Rate (INR)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL. No 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.8.6	Radial Crack growth / Crack detection system.	Set	1	Quoted	Quoted	
1.8.7	Other Sensors for operative parameters of Lube oil, Heating, Cooling and Vacuum systems and other sensors mentioned in specification No: CRD/HTVSTR/2017/01	Set	1	Quoted	Quoted	
1.9	Data Acquisition and Control system	Set	1	Quoted	Quoted	
1.10	Electrical System & accessories	Set	1	Quoted	Quoted	
1.11	Essential Tool Kit	Lot	1	Quoted	Quoted	
1.12	Foundation /accessories if any	Lot	1	Quoted	Quoted	
1.13	Mandatory Spares during Warranty Period	Lot	1	Quoted	Quoted	
1.14	Recommended Spares during AMC Period, Beyond Warranty	Lot	1	Quoted	Quoted	
1.15	PDI Rotor	Lot	1	Quoted	Quoted	
1.16	Other (Misc.) charges					
1.17	Packing and Forwarding charges	Lot	1	Quoted	Quoted	
1.18	Subtotal					
1.19	Excise Duty (ED)	0%				
1.20	Sub Total				Quoted	
1.21	Taxes/duties, CST/ VAT, Form 'C' will not be issued.	%	-----	Quoted	Quoted	
1.22	Subtotal (EXW Price)				Quoted	
1.23	Charges for Loading at supplier's works, incl taxes, if any	Lot	1	Quoted	Quoted	
1.24(a)	F.O.R Charges (Freight & Insurance, entry tax, octroi, etc). to BHEL R&D Stores, incl. taxes	Lot	1	Quoted	Quoted	

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High Temperature Vertical Spin Test Rig- Bid Formats-Indian Supplier – Indian Currency

S. No.	Item Description	Units	Qty	Unit Rate (INR)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL. No 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.24(b)	For ex-works shipment, Freight and Insurance charges shall be added	%	3	BHEL	BHEL	
1.25	Unloading charges at BHEL R&D Stores	Lot	1	Quoted	Quoted	
1.26	Total Price (Delivery to BHEL Stores) (1.22+1.23+1.24(a) or 1.24 (b) + 1.25)					
1.27	Pre Dispatch Inspection (PDI) Charges	Lot	1	Quoted	Quoted	
1.28	Training at OEM works	Lot	1	Quoted	Quoted	
1.29	Service Tax	%	—----- —	Please Specify	Please Specify	
1.30	Sub Total					
Erection and Commissioning at site/ BHEL						
1.31	Erection and Commissioning	Lot	1	Quoted	Quoted	
1.32	Demonstration at site of installation	Lot	1	Quoted	Quoted	
1.33	Post-installation training	Lot	1	Quoted	Quoted	
1.34	Sub Total	%	—----- —	Please Specify	Please Specify	
1.35	Service Tax	%	—----- —	Please Specify	Please Specify	
1.36	Sub Total					

** Items may be quoted in same format only as per actual nomenclature and part numbers with quantity and unit price at appropriate location. All columns to be filled. If any item does not carry any value it must be mentioned as zero (0).

#Actual taxes/ rates as applicable at the time of placement of Purchase Order

Note:

1. BHEL R&D do not issue 'C' form. Suppliers are requested to submit their bids clearly stating applicable taxes/duties and fill the applicable Excise duty, CST/VAT and Service tax as % and actuals for the items.
2. In case any Taxes/ Duties exempted, a self-declaration for the same may be attached to the offer along with support document.
3. Please note that we are availing Input Tax Credit on Service Tax to the tune of 14.5% against the current prevailing Service tax rate of 15%, i.e., we will be considering 0.5% of Service tax rate while arriving at the calculation of landed cost to BHEL. Service Tax shall be released on submission of proof of remittance. Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and Service tax registration no.
4. Central Excise Duty Exempted as per Government Notification No. 16/2007-Central Excise dated 01-Mar-2007; valid for shipments up to 31.03.2021. **Excise Duty:** Indian Supplies will be evaluated

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considering Excise Duty as **Nil, if applicable**. Excise Duty Exemption Certificate will be issued to the supplier before dispatch.

5. All suppliers have to accept Concessional taxes/duties available to BHEL as on date of dispatch.

6. Suppliers are requested to quote on FOR BHEL (R&D) Stores, Hyderabad. In case of EXW, Please specify the Works address.

7. This Un-Price bid format should be submitted along with Techno-Commercial Bid.

8. Unit rate of spares shall have validity of 5 years post stipulated warranty period.

9. Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares

10. Rates to be quoted in figures with corresponding words.

11. Rates quoted against supply shall be inclusive of warranty as per warranty clause of specification No: **CRD/HTVSTR/2017/01**

12. Insurance charges @1% & Freight charges @2% against Sl.No.1.24 (b) respectively will be taken towards cost calculations for evaluation.

13. All taxes and Duties to be submitted in Unpriced Bid also

14. Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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REVISED UN-PRICED BID FORMAT - TRAINING CHARGES AT OEM WORKS

Training charges* (per day basis)	For One BHEL Engineer (To be quoted as % of basic equipment value)	For Two BHEL Engineers (To be quoted as % of basic equipment value)
1st day	_____ %	_____ %
2nd day	_____ %	_____ %
3rd day	_____ %	_____ %
4th day	_____ %	_____ %
Sub Total	_____ %	_____ %

*** Rows may be added/ deleted as required, according to training schedule**

NOTE:

- a) Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
- b) Travel and hospitality for BHEL engineers will be to BHEL's account.
- c) Detailed training at OEM works / factory has to be provided by factory engineer to BHEL officials on working of all modes of the equipment along with the accessories.
- d) Training should also be provided on safety features, task to be performed in case of emergency, etc.
- e) Detailed training schedule must be submitted along with the bid.
- f) All Offers shall be evaluated for the training charges quoted for the total no. of days. However, payment shall be released on actual no. of days of training undergone by BHEL Engineer(s) at supplier's works.
- g) The above training charges at actuals, shall be released after completion of E&C along with 20% supply value stage payment.
- h) Please note that we are availing Input Tax Credit on Service Tax to the tune of 14.5% against the current prevailing Service tax rate of 15%, i.e., we will be considering 0.5% of Service tax rate while arriving at the calculation of landed cost to BHEL. Service Tax shall be released on submission of proof of remittance. Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and Service tax registration no.
- i) Rates to be quoted in figures with corresponding words.
- j) Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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REVISED UN-PRICED BID FORMAT
ANNUAL MAINTENANCE CHARGES (AMC)- Non-Comprehensive Type only
(SPARES excluded)

AMC charges* after stipulated Warranty for	To be quoted as % of Basic Equipment Value
1 st Year	_____ %
2 nd Year	_____ %
3 rd Year	_____ %
4 th Year	_____ %
5 th Year	_____ %
Sub Total	_____ %

Rows may be added/ deleted as required

NOTE:

- a) Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares.
- b) During AMC service, 2 routine visits per year, each visit shall include general service and maintenance, calibration (if any), etc. and breakdown visits (as and when required) have to be made for ensuring continuous operation of the system/ machine
- c) The service personnel should report within 7 days for attending the problem during emergency visit as a part of AMC.
- d) All software upgrades have to be provided free of cost during AMC period.
- e) The AMC charges will be paid on half-yearly basis after completion each half year of the AMC service period and with submission of service report along with the original invoice as per the terms and conditions of Letter Order during AMC period. These charges will be paid within 30 days from date of submission of service report and original invoice.
- f) AMC Order(s) may be placed after expiry of standard warranty quoted at the unit rate(s) quoted. The AMC charges Quoted shall be firm and valid for the period quoted.
- g) If during the AMC period there is any breakdown of the equipment for a cumulatively duration beyond 15 days from the date of reporting, AMC period will be extended by that duration. This should be complied by the vendor
- h) AMC Charges quoted for the total number of years shall be considered for landed cost comparison.
- i) Please note that we are availing Input Tax Credit on Service Tax to the tune of 14.5% against the current prevailing Service tax rate of 15%, i.e., we will be considering 0.5% of Service tax rate while arriving at the calculation of landed cost to BHEL. Service Tax shall be released on submission of proof of remittance. Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and Service tax registration no.
- j) Rates to be quoted in figures with corresponding words.
- k) Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

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ANNEXURE-IX: I

**REVISED PRICED BID FORMAT FOR HIGH TEMPERATURE
VERTICAL SPIN TEST RIG SYSTEM – INDIAN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supplies

S. No.	Item Description	Units	Qty	Unit Rate (INR)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL. No 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.0	High Temperature Vertical Spin Test Rig System as per specifications with the following items:					
1.1	Spin chamber, Lid and with associated Accessories	Set	1			
1.2	Drive System including Support/ Adapter for holding the test rotor	Lot	1			
1.3	Rotor Assembly Stand	Lot	1			
1.4	Lube Oil system with redundancy	Lot	1			
1.5	Vacuum system with redundancy	Lot	1			
1.6	Integrated Heating System	Set	1			
1.7	Integrated rotor Cooling System with redundancy	Set	1			
1.8	Instrumentation & Sensor system					
1.8.1	Strain Gauges	Lot	1			
1.8.2	Thermocouples	Lot	1			
1.8.3	Vibration Monitoring system	Set	1			
1.8.4	Residual unbalance monitoring & measurement system	Set	1			
1.8.5	Telemetry for Strain, temperature	Set	1			

SIGNATURE OF THE BIDDER WITH SEAL

High Temperature Vertical Spin Test Rig- Bid Formats-Indian Supplier – Indian Currency

S. No.	Item Description	Units	Qty	Unit Rate (INR)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL. No 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.8.6	Radial Crack growth / Crack detection system.	Set	1			
1.8.7	Other Sensors for operative parameters of Lube oil, Heating, Cooling and Vacuum systems and other sensors mentioned in specification No: CRD/HTVSTR/2017/01	Set	1			
1.9	Data Acquisition and Control system	Set	1			
1.10	Electrical System & accessories	Set	1			
1.11	Essential Tool Kit	Lot	1			
1.12	Foundation /accessories if any	Lot	1			
1.13	Mandatory Spares during Warranty Period	Lot	1			
1.14	Recommended Spares during AMC Period, Beyond Warranty	Lot	1			
1.15	PDI Rotor	Lot	1			
1.16	Other (Misc.) charges					
1.17	Packing and Forwarding charges	Lot	1			
1.18	Subtotal					
1.19	Excise Duty (ED)*	0%				
1.20	Sub Total					
1.21	Taxes/duties, CST/ VAT, Form 'C' will not be issued.**	%				
1.22	Subtotal (EXW Price)					
1.23	Charges for Loading at supplier's works, incl taxes, if any	Lot	1			
1.24(a)	F.O.R Charges (Freight & Insurance, entry tax, octroi, etc). to BHEL R&D Stores, incl. taxes	Lot	1			

SIGNATURE OF THE BIDDER WITH SEAL

High Temperature Vertical Spin Test Rig- Bid Formats-Indian Supplier – Indian Currency

S. No.	Item Description	Units	Qty	Unit Rate (INR)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL. No	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.24(b)	For ex-works shipment, Freight and Insurance charges shall be added based on Weight/ dimensions	%	3	BHEL	BHEL	
1.25	Unloading charges at BHEL R&D Stores	Lot	1			
1.26	Total Price (Delivery to BHEL Stores)(1.22+1.23+1.24(a) or 1.24 (b) + 1.25)					
1.27	Pre Dispatch Inspection (PDI) Charges	Lot	1			
1.28	Training at OEM works	Lot	1			
1.29	Service Tax***	%				
1.30	Sub Total					
Erection and Commissioning at site/ BHEL						
1.31	Erection and Commissioning	Lot	1			
1.32	Demonstration at site of installation	Lot	1			
1.33	Post-installation training	Lot	1			
1.34	Sub Total****	%	-----			
1.35	Service Tax *****	%				
1.36	Sub Total					

1. Rates to be quoted in figures with corresponding words.
2. Rates quoted against supply shall be inclusive of warranty as per warranty clause of specification No: **CRD/HTVSTR/2017/01**
3. *to***** All taxes and Duties to be submitted in Unpriced Bid also
4. Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE- X: IB

REVISED PRICE BID FORMAT - TRAINING CHARGES AT OEM WORKS

Training charges* (per day basis)	For One BHEL Engineer (To be quoted as % of basic equipment value)	For Two BHEL Engineers (To be quoted as % of basic equipment value)
1st day	Submitted in Unpriced Bid	Submitted in Unpriced Bid
2nd day	Submitted in Unpriced Bid	Submitted in Unpriced Bid
3rd day	Submitted in Unpriced Bid	Submitted in Unpriced Bid
4th day	Submitted in Unpriced Bid	Submitted in Unpriced Bid
Sub Total	Submitted in Unpriced Bid	Submitted in Unpriced Bid

*** Rows may be added/ deleted as required, according to training schedule**

- Rates to be quoted in figures with corresponding words.
- Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

ANNEXURE-XI: IB

REVISED PRICE BID FORMAT

ANNUAL MAINTENANCE CHARGES (AMC)- Non-Comprehensive Type only (SPARES excluded)

AMC charges* after stipulated Warranty for	To be quoted as % of Basic Equipment Value
1st Year	Submitted in Unpriced Bid
2nd Year	Submitted in Unpriced Bid
3rd Year	Submitted in Unpriced Bid
4th Year	Submitted in Unpriced Bid
5th Year	Submitted in Unpriced Bid
Subtotal	Submitted in Unpriced Bid

***Rows may be added/ deleted as required**

NOTE:

- Rates to be quoted in figures with corresponding words.
- Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE-VIII: F

**REVISED UN-PRICED BID FORMAT FOR HIGH TEMPERATURE
VERTICAL SPIN TEST RIG SYSTEM – FOREIGN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supplies

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL NO-1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
	High Temperature Vertical Spin Test Rig System as per specifications with the following items:					
1.1	Spin chamber, Lid and with associated Accessories	Set	1	Quoted	Quoted	
1.2	Drive System including Support/ Adapter for holding the test rotor	Lot	1	Quoted	Quoted	
1.3	Rotor Assembly Stand	Lot	1	Quoted	Quoted	
1.4	Lube Oil system with redundancy	Lot	1	Quoted	Quoted	
1.5	Vacuum system with redundancy	Lot	1	Quoted	Quoted	
1.6	Integrated Heating System	Set	1	Quoted	Quoted	
1.7	Integrated rotor Cooling System with redundancy	Set	1	Quoted	Quoted	
1.8	Instrumentation & Sensor system					
1.8.1	Strain Gauges	Lot	1	Quoted	Quoted	
1.8.2	Thermocouples	Lot	1	Quoted	Quoted	
1.8.3	Vibration Monitoring system	Set	1	Quoted	Quoted	
1.8.4	Residual unbalance monitoring & measurement system	Set	1	Quoted	Quoted	
1.8.5	Telemetry for Strain, temperature	Set	1	Quoted	Quoted	
1.8.6	Radial growth / Crack detection system.	Set	1			
1.8.7	Other Sensors for operative parameters of Lube oil, Heating, Cooling and Vacuum systems and other sensors mentioned in specification No: CRD/HTVSTR/2017/01	Set	1	Quoted	Quoted	
1.9	Data Acquisition and Control system	Set	1	Quoted	Quoted	
1.10	Electrical System & accessories	Set	1	Quoted	Quoted	
1.11	Essential Tool Kit	Lot	1	Quoted	Quoted	

SIGNATURE OF THE BIDDER WITH SEAL

High Temperature Vertical Spin Test Rig- Bid Formats -Out-side India Supplier – Foreign Currency

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
1.12	Foundation /accessories if any	Lot	1	Quoted	Quoted	
1.13	Mandatory Spares during Warranty Period	Lot	1	Quoted	Quoted	
1.14	Recommended Spares for AMC period, Beyond Warranty	Lot	1	Quoted	Quoted	
1.15	PDI Rotor	Lot	1	Quoted	Quoted	
1.16	Other (Misc. charges)					
1.17	Packing and Forwarding charges	Lot	1	Quoted	Quoted	
1.18	Sub. total (EXW Price)					
1.19	Any other Charges like Export Clearance Charges etc.	Lot	1	Quoted	Quoted	
1.20(a)	FOB (Nearest Gateway Sea Port) Charges	Lot	1	Quoted	Quoted	
1.20(b)	CFR Charges (Mumbai/ Nhavasheva / Chennai seaport/CPT- ICD Sanathnagar, Hyderabad)	Lot	1	Quoted	Quoted	
1.21	Sub Total, CFR-India Seaport				Quoted	
1.22	Exchange rate on Technical bid opening date, to be filled by BHEL			BHEL	BHEL	
1.23	Sub Total, CFR-India Seaport in Indian Currency (INR), to be filled by BHEL			BHEL	BHEL	
1.24	Insurance (INR)	%	1			
1.25	Customs duty, (INR) @5.15%			BHEL	BHEL	
1.26	Local Transport, India seaport to BHEL R&D Stores (for CFR-Mumbai/ Nhavasheva/ Chennai seaport shipment, (INR)	%	2			
1.27	Loading and Un-Loading Charges at India seaport and BHEL R&D Stores, (INR)	Lot	1	BHEL	BHEL	
1.28	Sub Total, imports (Delivery to BHEL R&D Stores), (1.23 to 1.27), (INR)					

SIGNATURE OF THE BIDDER WITH SEAL

1.29.0. If there is/are any supply Sourced from India that are certified by OEM, they have to be quoted in Indian currency on FOR-BHEL R&D Stores basis only, with order placement address in India

S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.29.1	Please specify, item-wise.	Lot	1	Quoted	Quoted	
1.29.2	Taxes/duties, ED	%	1	Quoted	Quoted	
1.29.3	Taxes/duties, CST/ VAT, Form 'C' will not be issued.	%	-----__	Quoted	Quoted	
1.29.4	Packing and Forwarding charges					
1.29.5	F.O.R Charges (Freight & Insurance, entry tax, octroi, etc). to BHEL R&D Stores, incl. taxes					
1.29.6	Sub. total (Delivery to BHEL R&D Stores), indigenous					
1.29.7	Total, (Imports + Indigenous) = 1.28 + 1.29.6					

2.0 SERVICES

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
	Applicable Service outside India to be quoted in foreign Currency.					
2.1	Pre Dispatch Inspection (PDI) Charges	Lot	1	Quoted	Quoted	
2.2	Training at OEM works	%	___	Quoted	Quoted	
2.3	Service Tax to BHEL account			BHEL	BHEL	
2.4	Landed cost (2.1 + 2.2+2.3)					

SIGNATURE OF THE BIDDER WITH SEAL

3.0. TRAINING / E&C, DEMONSTRATION ETC

3.a	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor, to be quoted in foreign Currency.					
S. No.	Item Description	Units	Qty	with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
	Erection and Commissioning at site/ BHEL					
3.1	Erection and Commissioning	Lot	1	Quoted	Quoted	
3.2	Demonstration at site of installation	Lot	1	Quoted	Quoted	
3.3	Post-installation training	Lot	1	Quoted	Quoted	
3.4	Sub Total	%	—	Please Specify	Please Specify	
3.5	Service Tax to BHEL account			BHEL	BHEL	

Note:- Withholding tax will be deducted as per Income tax act 1961, India and DTAA agreement. In case of non-acceptance of deduction of withholding tax, the offer will be rejected.

Alternately

3.b	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor's India Office Engineer/ Indian Agent / Distributor in India, to be quoted in Indian Currency					
S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
	Erection and Commissioning at site/ BHEL					
3.1	Erection and Commissioning	Lot	1	Quoted	Quoted	
3.2	Demonstration at site of installation	Lot	1	Quoted	Quoted	
3.3	Post-installation training	Lot	1	Quoted	Quoted	
3.4	Sub Total	%	—	Please Specify	Please Specify	
3.5	Service Tax	%	—	Quoted	Quoted	

Note: Income tax will be deducted as per Income tax act 1961, Please furnish PAN No and Service tax no. Service tax shall be released on submission of proof of remittance.

4. Indian agency commission is included in the price quoted: _____% (please specify the line item / items). Please attach Agency agreement copy.

** Items may be quoted in same format only as per actual nomenclature and part numbers with quantity and unit price at appropriate location. All columns to be filled. If any item does not carry any value it must be mentioned as zero (0).

Actual taxes/ rates as applicable at the time of placement of Purchase Order

SIGNATURE OF THE BIDDER WITH SEAL

Note:

1. If authorized Indian agent/ service provider is carrying out Supply/ Service activity, the Supplier has to fill the applicable CST/VAT and Service tax as % and actuals for the items. (Central Excise Duty Exempted as per Government Notification No. 16/2007-Central Excise dated 01-Mar-2007; valid for shipments up to 31.03.2021). All the foreign supplies will be evaluated by considering concessional Customs Duty @5.15%.
2. This Un-Price bid format should be submitted along with Techno-Commercial Bid.
3. **TERMS OF DELIVERY:** (Please tick A1 or A2 only)
A1) CFR – MUMBAI / Nhavasheva Seaport / Chennai Seaport. Insurance @1% (Supplier's seaport to BHEL R&D Stores, Hyderabad) + local transport charges (Mumbai / Nhavasheva / Chennai Seaport to BHEL R&D Stores, Hyderabad) based on weight/dimensions furnished by the supplier in the tender shall be added for landed cost evaluation.
A2) CFR-ICD Sanathnagar, Hyderabad, India. Insurance @1% (Supplier's seaport to BHEL R&D Stores, Hyderabad) shall be added for landed cost evaluation.
4. Unit rate of spares shall have validity of 5 years post stipulated warranty period.
5. **If there is/are any local supply/ service(s) provision that are certified by OEM, they have to be quoted in Indian currency only.**
6. Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
7. In respect of any taxable services provided or agreed to be provided by any person who is located in non-taxable territory and received by any person located in the taxable territory, Service tax at the prevailing rate of 15% is to be borne by the service receiver. The same shall be considered for evaluating the landed cost
8. All the Non-resident of India either individual or company as defined under Indian Income tax act 1961, who are providing services of technical in nature like erection & commissioning, training etc in India are subject to withholding tax on the payments made to them. The technical bidders from countries for which DTAA agreement exist are required to submit the following documents:
 - (a) PAN Copy (Permanent Account Number allotted to foreign Supplier in **India** which is referenced for withholding tax OR Form 10F for Current Year disclosing the Company's Name, e-mail ID, Contact Number, address in the country of residence, Tax Identification Number and Tax Residency Certificate.
 - (b) While determining the rate of tax (when DTAA agreement exist) the lower of the two shall be considered:
 - Rate as per Withholding Tax Provisions of India
 - Rate as per DTAA (Double Taxation Avoidance Agreement between the Country of OEM and India
 - In case of foreign Supplier where DTAA agreement does not exists, the rate as per Indian Income Tax Provisions will attract.
9. Rates to be quoted in figures with corresponding words.
10. Rates quoted against supply shall be inclusive of warranty as per warranty clause of specification No: **CRD/HTVSTR/2017/01**
11. Supplier's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE- X: FA

REVISED UN-PRICE BID FORMAT - TRAINING CHARGES AT OEM WORKS

Training charges* (per day basis)	For One BHEL Engineer (To be quoted as % of basic equipment value)	For Two BHEL Engineers (To be quoted as % of basic equipment value)
1st day	____%	____%
2nd day	____%	____%
3rd day	____%	____%
4th day	____%	____%

*** Rows may be added/ deleted as required, according to training schedule**

NOTE:

- a) Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares
- b) Travel and hospitality for BHEL engineers will be to BHEL's account.
- c) Detailed training at OEM works / factory has to be provided by factory engineer to BHEL officials on working of all modes of the equipment along with the accessories.
- d) Training should also be provided on safety features, task to be performed in case of emergency, etc.
- e) Detailed training schedule must be submitted along with the bid.
- f) All Offers shall be evaluated for the training charges quoted for the total no. of days. However, payment shall be released on actual no. of days of training undergone by BHEL Engineer(s) at supplier's (OEM's) works.
- g) The above training charges at actuals, shall be released after completion of E&C along with 20% supply value stage payment.
- h) In respect of any taxable services provided or agreed to be provided by any person who is located in non-taxable territory and received by any person located in the taxable territory, Service tax at the prevailing rate of 15% is to be borne by the service receiver. The same shall be considered for evaluating the landed cost.
- i) In respect of foreign Supplier, as per Indian Income tax act 1961 and DTAA agreement, Income tax/ Withholding tax has to be recovered and remitted to the revenue authorities, and necessary recovery certificate shall be issued to that effect. In case of non-acceptance of deduction of withholding tax, the offer will be rejected.

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE-XI: FA

REVISED UN-PRICE BID FORMAT
ANNUAL MAINTENANCE CHARGES (AMC)- Non-Comprehensive Type only
(SPARES excluded)

AMC charges* after stipulated Warranty for	To be quoted as % of Basic Equipment Value
1st Year	____%
2nd Year	____%
3rd Year	____%
4th Year	____%
5th Year	____%
Subtotal	____%

*** Rows may be added/ deleted as required**

NOTE:

- a) Basic equipment value is defined as price of equipment with accessories and auxiliaries (if any), excluding spares.
- b) If the AMC Order is to be placed on Supplier's Indian office/ Authorized Service provider/Agency in India (certified by OEM), then order shall be placed in INR (Rs.) with exchange rate as specified elsewhere in the tender. No revision of AMC charges in INR on account of exchange rate variation or revision of prices by OEM is applicable.
- c) During AMC service, 2 routine visits per a year, each visit shall include general service and maintenance, calibration (if any), etc. and breakdown visits (as and when required) have to be made for ensuring continuous operation of the system/ machine
- d) The service personnel should report within 7 days for attending the problem during emergency visit as a part of AMC.
- e) All software upgrades have to be provided free of cost during AMC period.
- f) The AMC charges will be paid on half-yearly basis after completion each half year of the AMC service period and with submission of service report along with the original invoice as per the terms and conditions of Letter Order during AMC period. These charges will be paid within 30 days from date of submission of service report and original invoice.
- g) If during the AMC period there is any breakdown of the equipment for a cumulative duration beyond 15 days from the date of reporting, AMC period will be extended by that duration. This should be complied by the vendor
- h) AMC Order(s) may be placed after expiry of standard warranty quoted at the unit rate(s) quoted. The AMC charges Quoted shall be firm and valid for the period quoted.
- i) AMC Charges quoted for the total number of years shall be considered for landed cost comparison
- j) AMC Order(s) may be placed after expiry of standard warranty quoted at the unit rate(s) quoted. The AMC charges Quoted shall be firm and valid for the period quoted.
- k) AMC Charges quoted for the total number of years shall be considered for landed cost comparison.
- l) Rates to be quoted in figures with corresponding words.
- m) Supplier's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

PRICE BID FORMAT

ANNEXURE-IX: F

**REVISED PRICED BID FORMAT FOR HIGH TEMPERATURE VERTICAL
SPIN TEST RIG SYSTEM – FOREIGN SUPPLIER**

Enquiry Description	Enquiry No	Enquiry Date	Vendor's Name and Address	

1.0 Supplies

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
	Deliverable Items**					
	High Temperature Vertical Spin Test Rig System as per specifications with the following items:					
1.1	Spin chamber, Lid and with associated Accessories	Set	1			
1.2	Drive System including Support/ Adapter for holding the test rotor	Lot	1			
1.3	Rotor Assembly Stand	Lot	1			
1.4	Lube Oil system with redundancy	Lot	1			
1.5	Vacuum system with redundancy	Lot	1			
1.6	Integrated Heating System	Set	1			
1.7	Integrated rotor Cooling System with redundancy	Set	1			
1.8	Instrumentation & Sensor system					
1.8.1	Strain Gauges	Lot	1			
1.8.2	Thermocouples	Lot	1			
1.8.3	Vibration Monitoring system	Set	1			
1.8.4	Residual unbalance monitoring & measurement system	Set	1			
1.8.5	Telemetry for Strain, temperature	Set	1			
1.8.6	Radial growth / Crack detection system.	Set	1			
1.8.7	Other Sensors for operative parameters of Lube oil, Heating, Cooling and Vacuum systems and other sensors mentioned in specification No: CRD/HTVSTR/2017/01	Set	1			
1.9	Data Acquisition and Control system	Set	1			

SIGNATURE OF THE BIDDER WITH SEAL

High Temperature Vertical Spin Test Rig- Bid Formats -Out-side India Supplier – Foreign Currency

	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.10	Electrical System & accessories	Set	1			
1.11	Essential Tool Kit	Lot	1			
1.12	Foundation /accessories if any	Lot	1			
1.13	Mandatory Spares during Warranty Period	Lot	1			
1.14	Recommended Spares for AMC Period, Beyond Warranty	Lot	1			
1.15	PDI Rotor	Lot	1			
1.16	Other (Misc. charges)					
1.17	Packing and Forwarding charges	Lot	1			
1.18	Sub total (EXW Price)					
1.19	Any other Charges like Export Clearance Charges etc.	Lot	1			
1.20(a)	FOB (Nearest Gateway SeaPort) Charges	Lot	1			
1.20(b)	CFR Charges (Mumbai/ Nhavasheva/ Chennai seaport/ CPT- ICD Sanathnagar, Hyderabad)	Lot	1			
1.21	Sub Total, CFR-India Seaport					
1.22	Exchange rate on Technical bid opening date, to be filled by BHEL			BHEL	BHEL	
1.23	Sub Total, CFR-India Seaport in Indian Currency (INR), to be filled by BHEL			BHEL	BHEL	
1.24	Insurance (INR)	%	1	BHEL	BHEL	
1.25	Customs duty, (INR) @5.15%			BHEL	BHEL	
1.26	Local Transport, India seaport to BHEL R&D Stores (for CFR-Mumbai/ Nhavasheva/ Chennai seaport shipment, (INR)	%	2	BHEL	BHEL	
1.27	Loading and Un-Loading Charges at India seaport and BHEL R&D Stores, (INR)	Lot	1	BHEL	BHEL	
1.28	Sub Total, imports (Delivery to BHEL R&D Stores), (1.23 to 1.27), (INR)					

1. Rates to be quoted in figures with corresponding words.
2. Rates quoted against supply shall be inclusive of warranty as per warranty clause of specification No: CRD/HTVSTR/2017/01
3. Insurance charges @1% & Freight charges @2% against Sl.No.1.24 and 1.26 respectively will be taken towards cost calculations for evaluation.
4. Vendor's undertaking: I/We have read and understood the NIT terms and conditions.

SIGNATURE OF THE BIDDER WITH SEAL

1.29.0. If there is/are any supply Sourced from India that are certified by OEM, they have to be quoted in Indian currency on FOR-BHEL R&D Stores basis only, with order placement address in India

S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
			(A)	(B)	C=A*B	
1.29.1	Please specify, item-wise.	Lot	1			
1.29.2	Taxes/duties, ED*	0%	1			
1.29.3	Taxes/duties, CST/ VAT, Form 'C' will not be issued.**	%				
1.29.4	Packing and Forwarding charges					
1.29.5	F.O.R Charges (Freight & Insurance, entry tax, octroi, etc). to BHEL R&D Stores, incl. taxes					
1.29.6	Sub. total (Delivery to BHEL R&D Stores), indigenous					
1.29.7	Total, (Imports + Indigenous) = 1.28 + 1.29.6					

*, **All taxes and Duties to be submitted in Unpriced Bid also

2.0 SERVICES

S. No.	Item Description	Units	Qty	Unit Rate with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
	Applicable Service outside India to be quoted in foreign Currency.					
2.1	Pre Dispatch Inspection (PDI) Charges	Lot	1			
2.2	Training at OEM works	Lot	1			
2.3	Service Tax to BHEL account			BHEL	BHEL	
2.4	Landed cost (2.1 + 2.2+2.3)					

SIGNATURE OF THE BIDDER WITH SEAL

3.0. TRAINING / E&C, DEMONSTRATION ETC

3.a	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor, to be quoted in foreign Currency.					
S. No.	Item Description	Units	Qty	with Currency	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
	Erection and Commissioning at site/ BHEL					
3.1	Erection and Commissioning	Lot	1			
3.2	Demonstration at site of installation	Lot	1			
3.3	Post-installation training	Lot	1			
3.4	Sub Total*	%				
3.5	Service Tax to BHEL account			BHEL	BHEL	

Alternately

3.b	Applicable Services in India (TRAINING / E&C, DEMONSTRATION ETC) provided by Foreign Vendor's India Office Engineer/ Indian Agent / Distributor in India, to be quoted in Indian Currency					
S. No.	Item Description	Units	Qty	Unit Rate, INR (Rs.)	Total C=(A*B)	Corresponding reference of item specs./ general terms and conditions to be indicated; Remarks
COL 1	2	3	4	5	6	7
	Erection and Commissioning at site/ BHEL					
3.1	Erection and Commissioning	Lot	1			
3.2	Demonstration at site of installation	Lot	1			
3.3	Post-installation training	Lot	1			
3.4	Sub Total*	%				
3.5	Service Tax**	%				

*,** All taxes and Duties to be submitted in Unpriced Bid also

SIGNATURE OF THE BIDDER WITH SEAL

ANNEXURE- X: FB

REVISED PRICE BID FORMAT - TRAINING CHARGES AT OEM WORKS

Training charges* (per day basis)	For One BHEL Engineer (To be quoted as % of basic equipment value)	For Two BHEL Engineers (To be quoted as % of basic equipment value)
1st day	Submitted in Unpriced Bid	Submitted in Unpriced Bid
2nd day	Submitted in Unpriced Bid	Submitted in Unpriced Bid
3rd day	Submitted in Unpriced Bid	Submitted in Unpriced Bid
4th day	Submitted in Unpriced Bid	Submitted in Unpriced Bid

*** Rows may be added/ deleted as required**

ANNEXURE-XI: FB

REVISED PRICE BID FORMAT
ANNUAL MAINTENANCE CHARGES (AMC)- Non-Comprehensive Type only
(SPARES excluded)

AMC charges* after stipulated Warranty for	To be quoted as % of Basic Equipment Value
1st Year	Submitted in Unpriced Bid
2nd Year	Submitted in Unpriced Bid
3rd Year	Submitted in Unpriced Bid
4th Year	Submitted in Unpriced Bid
5th Year	Submitted in Unpriced Bid

*** Rows may be added/ deleted as required**

- Rates to be quoted in figures with corresponding words.
- Supplier's undertaking: I/We have read and understood the NIT terms and conditions

SIGNATURE OF THE BIDDER WITH SEAL