



BHARAT HEAVY ELECTRICALS LIMITED
HEEP HARIDWAR INDIA-PIN 249403
FAX NO: 0091 1334 226462
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REQUIREMENT OF O-RING

The Heavy Electricals Equipment Plant (HEEP) located in Haridwar, India is one of the major manufacturing plants of Bharat Heavy Electricals Ltd. The core business of HEEP includes design and manufacture of large steam and gas turbines, turbo generators, Defense Items and so on.

Details of items details as below:

SI. NO.	MAT CODE	ITEM DISCREPTION	Quantity (Nos)	Delivery (Days)
1	W97011201033	W97011201033 O-RING SIZE: P/N 1576-38-104	2	45

1. ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY
2. KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.
3. KINDLY ARRANGE TO **SUBMIT TECHNO-COMMERCIAL CHECKLIST** ALONG WITH YOUR OFFER.
4. VENDOR TO CONFIRM TO PROVIDE MATERIAL & DIMENSIONAL TEST CERTIFICATES OF THE ITEMS ALONG WITH MATERIAL DISPATCH.
5. VENDOR TO CONFIRM TO MENTION PO NUMBER, ITEM DESCRIPTION, MANUFACTURERS NAME, BATCH NUMBER, MILITARY SPECIFICATION NUMBER, CURE DATE & SHELF LIFE IN T.C. AS WELL AS ON ITEMS PACKING.
6. VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY.
7. VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH.
8. VENDOR TO CONFIRM TO PROVIDE PACKING AS PER PACKING INSTRUCTION.
9. EARLY DELIVERY ACCEPTABLE.

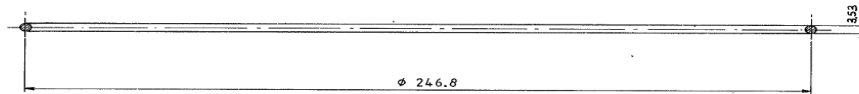
QUALIFYING CONDITIONS for O-RINGS

Sl. no.	PQR Requirement	Action	Vendor Response (Yes / No)
1.	Only those should quote who can manufacture or supply SYNTHETIC RUBBER (ASTM D2000) O-RINGS per BHEL specification.	Vendor / Dealer to confirm	
2.	Vendors has understood the requirements as per BHEL technical specification sheet	Vendor to confirm	
3.	Vendor can provide Material Test Certificate (MTC) from Govt. approved / NABL certified / OEM certified labs.	Vendor to confirm	
4.	Vendor to provide Certificate of Conformance.	Vendor to confirm	

AGM/DPE

TECHNICAL PARAMETERS CHECK LIST
DATA VALUES TO BE FILLED AND CONFIRMED BY VENDOR

ITEM CODE W97011201033
ITEM NAME O-RING
ITEM PART NO P/N 157638104
INTERNATIONAL EQUIVALENT -



SN.	PARAMETERS	VALUES	UNIT	RESPONSE TYPE	VENDOR RESPONSE
1	Dimensions	as per above sketch	MM	Input Value →	
3	MATERIAL	SYNTHETIC RUBBER	-	To confirm →	
4	MATERIAL CONFORMING TO SPEC	MIL STD 417 / ASTM D2000	-	Specify Spec. →	
5	COLOUR	BLACK	-	To confirm →	
6	MATERIAL PROPERTIES (to be reported in MTC)	TB710-A4 B3 C2 E3 E5 F7 S1 Z (Equivalent grade as per ASTM D2000 : M3 DH707-A26 B16 EO36 F17-Z)	-	To confirm →	
6.1	TB710 (DH710)	HIGH TEMPERATURE AND OIL RESISTANT	-	To confirm →	
6.1.1	durometer hardness number	70 +/-5	-	To confirm →	
6.1.2	tensile strength, min.	7	MPA	To confirm →	
6.1.3	elongation, min.	200	%	To confirm →	
6.2	A26	RESISTANT TO HEAT AGING 70 HOURS AT 150 DEG C	-	To confirm →	
6.2.1	Hardness change (max)	10	%	Input Value →	
6.2.2	Tensile change (max)	-25	%	Input Value →	
6.2.3	Elongation change (max)	-30	%	Input Value →	
6.3	B16	COMPRESSION SET AFTER 22 HOURS AT 150 DEG C	-	To confirm →	
6.3.1	Change (max)	30	%	Input Value →	
6.4	EO36	RESISTANT TO OIL AGING, 70 HOURS AT 150 DEG C , ASTM OIL NO. IRM 903 (TEST D 471)		To confirm →	
6.4.1	Hardness change (max)	-15	%	Input Value →	
6.4.2	Tensile change (max)	-30	%	Input Value →	
6.4.3	Elongation change (max)	-30	%	Input Value →	
6.4.4	Volume change (max)	+25	%	Input Value →	
6.5	F17	LOW TEMERATURE BRITTLNESS AT -40 DEG C FOR 3 MINUTES (TEST D 2137)	pass	To confirm →	
6.6	Z	96 HR SEA WATER RESISRANCE @ 80 DEG	-	To confirm →	
6.6.1	hardness change after dipping	+/-10 POINT	%	Input Value →	
6.6.2	change in wt/volume	+5% -0 %	%	Input Value →	
7	SHELF LIFE	MINIMUM 10 YEARS	-	To confirm →	
8	PACKING	CURE DATE AND SHELF LIFE TO BE INDICATED ON INDIVIDUAL PACKING ALONG WITH THE PART NUMBER AND DESCRIPTION OF ITEM	-	To confirm →	
9	CERTIFICATION	MTC from NABL/Govt approved lab/OEM lab. MTC to include test report for 6.1 to 6.6 above.	Y	Confirm to supply →	
10	VENDOR REMARKS: Vendor to give here details of quoted item and deviations, if any. Deviation, if any >>				

TECHNO-COMMERCIAL CHECKLIST

SL. NO.	TERMS & CONDITION	VENDOR CONFIRMATION /REMARKS / REPLY
1	BIDDER NAME	
2	GEM BID NO	
3	ITEM IS TO BE SUPPLIED AS PER TECHNICAL SPECIFICATION	
4	ALL VENDORS TO PROVIDE POINT WISE REPLY/CONFIRMATION ALONG WITH RELEVANT SUPPORTING DOCUMENTS TO EACH AND EVERY POINT OF PRE-QUALIFICATION REQUIREMENT/PQR FOR ALL ENQUIRY ITEMS. NONCOMPLIANCE OF THESE MAY LEAD TO REJECTION OF OFFER AS THESE ARE ESSENTIAL CONDITION FOR PARTICIPATING IN TENDER ENQUIRY	
5	KINDLY UPLOAD/ATTACH THE SPECIFICATION DETAILS/ CATALOGUE OF OFFERED ITEMS.	
6	VENDOR TO CONFIRM TO PROVIDE MATERIAL & DIMENSIONAL TEST CERTIFICATES OF THE ITEMS ALONG WITH MATERIAL DISPATCH	
7	VENDOR TO CONFIRM TO MENTION PO NUMBER, ITEM DESCRIPTION, MANUFACTURERS NAME, BATCH NUMBER, MILITARY SPECIFICATION NUMBER, CURE DATE & SHELF LIFE IN T.C. AS WELL AS ON ITEMS PACKING	
8	VENDOR TO CONFIRM TO PROVIDE DOCUMENTS KEEP PROPER CORRELATION WITH PO ITEMS AND THEIR QUANTITY	
9	VENDOR TO CONFIRM TO PROVIDE CERTIFICATE OF CONFORMANCE ALONG WITH MATERIAL DISPATCH	
10	VENDOR TO CONFIRM TO PROVIDE PACKING AS PER PACKING INSTRUCTION.	
11	RISK PURCHASE: IN CASE OF ABNORMAL DELAYS (BEYOND THE MAXIMUM LATE DELIVERY PERIOD AS PER LD CLAUSE) IN SUPPLIES / DEFECTIVE SUPPLIES OR NONFULFILLMENT 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 / ALTERNATIVE SOURCE 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. IN CASE FOR COMPELLING REASONS BHEL ACCEPTS THE OFFER WITHOUT ACCEPTANCE OF THIS CLAUSE BY THE BIDDER AND IN THE EVENTUALITY OF RISK PURCHASE, APPROPRIATE ACTION WILL BE TAKEN AS PER BHEL EXTANT RULES. THIS WILL BE WITHOUT PREJUDICE TO ANY OTHER RIGHT OF BHEL UNDER THE CONTRACT OR UNDER GENERAL LAW.	
12	ACTION AGAINST BIDDERS / VENDOR / SUPPLIER / CONTRACTOR IN CASE OF DEFAULT: IN ORDER TO PROTECT THE COMMERCIAL INTERESTS OF BHEL, BHEL SHALL TAKE ACTION AGAINST SUPPLIES / CONTRACTORS BY WAY OF SUSPENSION OF BUSINESS DEALINGS, WHO EITHER FAIL TO PERFORM OR ARE IN DEFAULT WITHOUT ANY REASONABLE CAUSE, CAUSE LOSS OF BUSINESS/ MONEY/ REPUTATION, INDULGE IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR ANY OTHER MISCONDUCT OR FORMATION OF CARTELS SO AS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE ETC. SUSPENSION OF BUSINESS DEALINGS COULD BE IN THE FORM OF “HOLD” OR “BANNING” A SUPPLIER/ CONTRACTOR OR A BIDDER AND SHALL BE AS PER “GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS” AVAILABLE AT BHEL’S WEBSITE “ https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors ”	

Bidder's Signature & Seal

Packing/labelling instructions are as follows:

- Each Rubber Item like ORING, SEAL, PACKING, STRIP, GASKET, PAD, GUARD etc should be individually packed & labelled.
- Heat sealable opaque materials should be used unless not practical to prevent distortion of the packaged product.
- Suitable materials for packing are polyethylene (PE)-coated Kraft paper, aluminum foil/paper/PE laminate and opaque PE film. PE is suitable as a single wrapping and should be at least 0.075 mm thick.
- The packing shouldn't be sealed using stapler Pin / Tape. The Packing should be Hot sealed/Machine sealed.
- Packing should be temper-proof & Marking on printed stickers of the labels should be long lasting (enough till the life of the Seals/O-rings)
- Following minimum details are to be labeled/Printed on each packets:
 - i) PO NUMBER
 - ii) ITEM DESCRIPTION
 - iii) MANUFACTURERS NAME
 - iv) MANUFACTURERS BATCH NUMBER
 - v) MILITARY SPECIFICATION NUMBER
 - vi) CURE DATE
 - vii) SHELF LIFE

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10. **ACTION AGAINST BIDDERS / VENDOR / SUPPLIER / CONTRACTOR IN CASE OF DEFAULT:**
IN ORDER TO PROTECT THE COMMERCIAL INTERESTS OF BHEL, BHEL SHALL TAKE ACTION AGAINST SUPPLIES / CONTRACTORS BY WAY OF SUSPENSION OF BUSINESS DEALINGS, WHO EITHER FAIL TO PERFORM OR ARE IN DEFAULT WITHOUT ANY REASONABLE CAUSE, CAUSE LOSS OF BUSINESS/ MONEY/ REPUTATION, INDULGE IN MALPRACTICES, CHEATING, BRIBERY, FRAUD OR ANY OTHER MISCONDUCT OR FORMATION OF CARTELS SO AS TO INFLUENCE THE BIDDING PROCESS OR INFLUENCE THE PRICE ETC.
SUSPENSION OF BUSINESS DEALINGS COULD BE IN THE FORM OF "HOLD" OR "BANNING" A SUPPLIER/ CONTRACTOR OR A BIDDER AND SHALL BE AS PER "GUIDELINES FOR SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS/ CONTRACTORS" AVAILABLE AT BHEL'S WEBSITE <https://www.bhel.com/guidelines-suspension-business-dealings-supplierscontractors>
11. BIDDERS ARE ADVISED TO CHECK APPLICABLE GST ON THEIR OWN BEFORE QUOTING. BUYER WILL NOT TAKE ANY RESPONSIBILITY IN THIS REGARDS. GST REIMBURSEMENT WILL BE AS PER ACTUALS OR AS PER APPLICABLE RATES (WHICHEVER IS LOWER), SUBJECT TO THE MAXIMUM OF QUOTED GST %.
12. BIDDER SHALL SUBMIT THE FOLLOWING DOCUMENTS ALONG WITH THEIR BID FOR VENDOR CODE CREATION:
A. COPY OF PAN CARD B. COPY OF GSTIN C. COPY OF MSE CERTIFICATE
13. DEDICATED /TOLL FREE TELEPHONE NO. FOR SERVICE SUPPORT: BIDDER/OEM MUST HAVE DEDICATED/TOLL FREE TELEPHONE NO. FOR SERVICE SUPPORT.
14. DATA SHEET OF THE PRODUCT(S) OFFERED IN THE BID, ARE TO BE UPLOADED ALONG WITH THE BID DOCUMENTS. BUYERS CAN MATCH AND VERIFY THE DATA SHEET WITH THE PRODUCT SPECIFICATIONS OFFERED. IN CASE OF ANY UNEXPLAINED MISMATCH OF TECHNICAL PARAMETERS, THE BID IS LIABLE FOR REJECTION.

15. SCOPE OF SUPPLY (BID PRICE TO INCLUDE ALL COST COMPONENTS): ONLY SUPPLY OF GOODS.
16. PRODUCTS SUPPLIED SHALL BE NONTOXIC AND HARMLESS TO HEALTH. IN THE CASE OF TOXIC MATERIALS, MATERIAL SAFETY DATA SHEET MAY BE FURNISHED ALONG WITH THE MATERIAL.
17. WHILE GENERATING INVOICE IN GEM PORTAL, THE SELLER MUST UPLOAD SCANNED COPY OF GST INVOICE AND THE SCREENSHOT OF GST PORTAL CONFIRMING PAYMENT OF GST.

18. PAYMENT TERMS SHALL BE AS PER FOLLOWINGS:

- a) **For Non-MSME bidders:** 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 90 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order. (MSME means Micro, Small & Medium Enterprises) (THIS IS IN SUPERSESSION OF 10 DAYS' TIME AS PROVIDED IN CLAUSE 12 OF GEM GTC).
- b) **FOR MSE BIDDER:** For MSEs (covered under MSME Act) which are registered and periodically renewed with BHEL, the payment will be made within 45 days or as prescribed in the relevant act. Benefits of MSE (such as EMD Waiver, Tender fee exemption, Price preference, Payment preference etc.) will be given only to those MSE Vendors who are manufacturers of offered items against the NIT. No MSE benefits shall be provided to Agents / Stockists /Dealers / Traders etc. for the items offered but not manufactured by themselves.”
- c) **FOR MEDIUM ENTERPRISES:** 100% payment along with taxes, freight & insurance will be made after receipt and acceptance of material and within 60 days from the date of invoice subject to submission of non-discrepant documents within 15 days of supply as per terms and conditions of Purchase Order.
- d) Please note that vendor to adhere to the payment terms as per above. No deviation in payment terms shall be accepted. Vendor to submit their offer accordingly.