

HYDRO TURBINE ENGINEERING DIVISION

Purchase specification for Wiper seal

KUTTIYADI RMU (3 x 27.5 MW)**PI No.: 240214833**

1. TECHNICAL REQUIREMENTS

This product standard covers wiper seal, which protects cylinders against ingress of dirt. The seal shall be suitable for temperature range -35° C to 80° C. the size of the seals are specified at table-1.

2. MATERIAL

The material of wiper seals shall be Polyurethane with hardness 94 Shore A.

3. MARKING & PACKING

3.1 Non-working surfaces of each wiper seals shall be marked with

- a) Size d and D
 - b) Manufacturer's name or trade mark.
- Nothing else is to be marked on them.

3.2 Material shall be suitably packed to prevent damage from contamination and handling during transit.

3.3 Each package shall be legibly marked BHEL Order No., Batch No., Size and Quantity supplied, Supplier's/ Manufacturer's Name and Trade mark, if any.

4 DOCUMENT SUBMISSION**(i) After placement of order**

Inline with requirement of purchase specification vendor shall submit QA plan for approval.

(ii) Prior to dispatch

Vendor shall submit following documents prior to dispatch:

- (A) Material compliance certificate
- (B) TCs for hardness
- (C) TCs for dimensional measurements.

5 LIST OF DEVIATIONS IF ANY

If the supplier is unable to fulfill all the requirements mentioned in our purchase specification then a list of deviations is to be prepared by the supplier & and the same should be submitted to us along with quotation. Otherwise it will be understood that the supplier is meeting all the requirements specified by us.

6 GUARANTEE

The wiper seal shall be guaranteed for trouble free operation and good workmanship for a period of 24 months from the date of dispatch or 18 months from commissioning of equipment, whichever is earlier. The vendor shall undertake to replace the wiper seal free of cost, if found defective during guarantee period.

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CHECK LIST

**(To be filled in by the vendor and submitted along with the offer.
Offers with incomplete checklist will not be considered)**

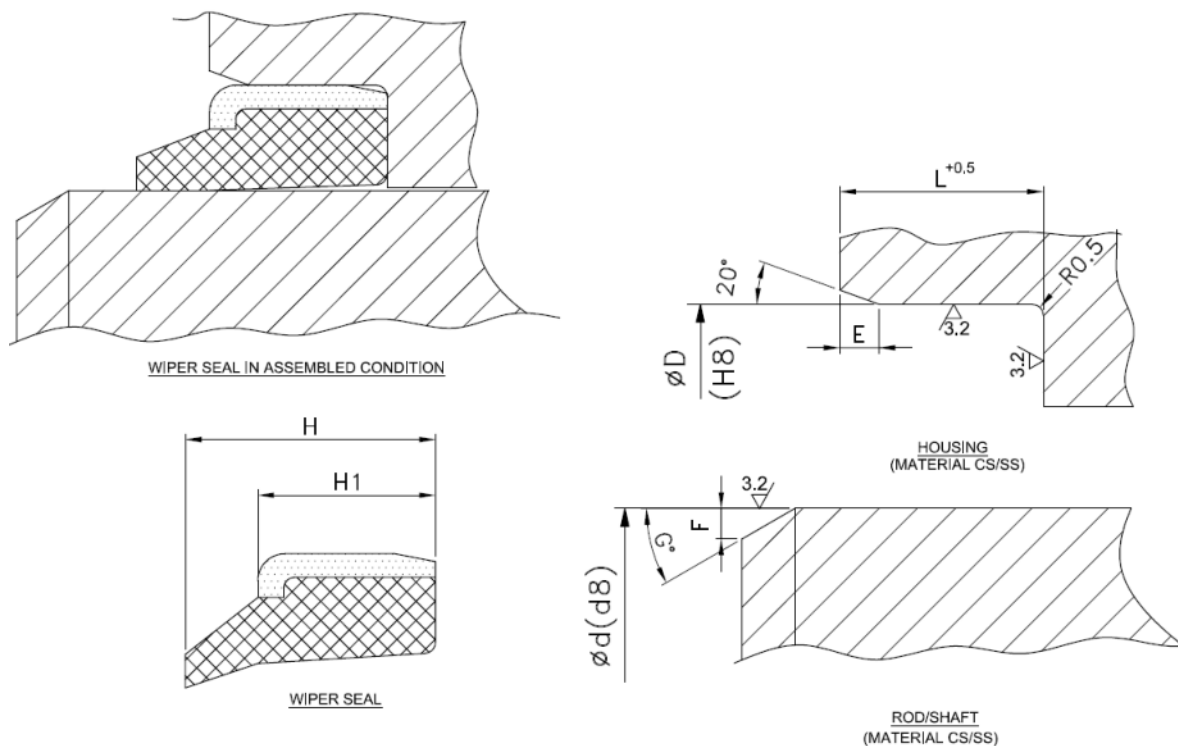
Sl. No.	Description	Vendor's comments
1	Material of wiper seal as per clause 2	Yes / No
2	Dimensions of seal are strictly as per input data sheet	Yes / No
3	Vendor shall submit documents as per clause 4	Yes / No
4	List of deviation if any	

BHEL's enquiry no. & date _____

Signature and stamp of vendor _____

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KUTTIYADI RMU (3 x 27.5 MW)**PI No.: 240214830****Input data sheet****(The information furnished is specific to indent no. given below)****Figure 1****Table-1**

S. No.	d	D	H ₁ /L	H	E	F	G
1	95	105	7	10	2	15	30°

Name of project: Kuttiyadi RMUPurchase Indent No. 240214833Date 01.04.2022

Sign and seal of BHEL's designer

Handwritten signature

आर. पी. सिंह
प्रबंधक (अभियन्ता)
एच.टी.ई. विभाग
बी.एस.ई.एल., नोवाहा

SL. NO		CHARACTERISTICS & CHECKS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK		REF. DOC.	ACCEPTANCE NORMS	FORMAT OF RECORD		AGENCY		REMARKS
					M	B					M	B	
1	2	3	4	5	6	7	8	9	10	11			
1.	Material Compliance	Major	Review	100%	100%	Drawing / relevant catalogue	Compliance certificate covering drawing TR	COC / TC	✓	P	V		
2.	Dimensions Check	Major	Measurement	100%	*	Drawing / relevant catalogue	Drawing / relevant catalogue	IR	✓	P	W		
3.	Visual Check	Critical	Visual	100%	100%	Drawing / relevant catalogue	Cracks, deformations, joints (if not called in drawing) & any deviation from drawing not acceptable.	IR	✓	P	W		
 आधार शर्मा वरिष्ठ निरीक्षण-अल टरमिनेल एच.टी.ई. विभाग / BHEL, BHOPAL		 अमित खरे वरिष्ठ निरीक्षण (अल टरमिनेल) / Sr. Manager एच.टी.ई. विभाग / H.T.E. Division बी.एल.ई.एल. भोपाल / BHEL, BHOPAL		LEGEND: RECORDS, IDENTIFIED WITH "TICK" (✓) SHALL BE ESSENTIALLY INCLUDED BY SUPPLIER IN QA DOCUMENTATION. ** M: MANUFACTURER/SUB-SUPPLIER B: BHEL/ BHEL APPOINTED INSPECTION AGENCY P: PERFORM W: WITNESS AND V: VERIFICATION (DOCUMENT SUBMISSION) IR- INSPECTION REPORT QCR-QC REPORT TC- TEST CERTIFICATE RR – REVIEW OF RECORD COC: CERTIFICATE OF COMPLIANCE								ACCEPTED BY (VENDOR'S QC REPRESENTATIVE)	
PREPARED& REVIEWED BY (BHEL QA & ENGINEERING)													

- Note: This QAP is commonly applicable for standard / catalogue rubber items procured by H.T.E. like- 1. Chevron Packing, 2. U Packing seal, 3. Moulded O Ring, 4. Piston Seal/ Piston Guide, 5. Two-Piece Seal. 6. J Seal, D Seal or other Special Seals as per drawing
- *Quantum of witness of dimension checks for BHEL appointed third party- ($N \leq 10$ nos--100%, $10 < N \leq 50$ --25%, $50 < N \leq 200$ --10%, $N > 200$ - BHEL QC will fix the quantum on case-to-case basis) N- Number of pieces of each type offered per lot.

769864/2022/HEP-HTE40201

Hydro Turbine EngineeringStandard Technical PQR for Procurement of Item/ Items through Open Tender (Non GEM)

PI No.: 240214833

Date: 29.03.2022

Item Description: Wiper seal as per specification: HTE/KUT/003


Following are the minimum eligibility requirements for considering vendors for the supply of above item/items.


Sl. NO	Description of Pre-Qualification Requirements	Vendor response	
		Complied	Bidders to submit following documents in compliance to PQR
1	Manufacturers with experience of design, manufacturing and supply of wiper seal shall be eligible to take part.	Yes / No	Copy of unpriced PO with any one of the following supporting document: <ul style="list-style-type: none"> • Completion Certificate • Invoice copy • Delivery challan
2	Agents / Subsidiaries of manufacturers are also allowed to take part on behalf of their principals. Experience of the principal / main manufacturer which is part of vendor's offer shall be considered for evaluation.	Yes / No	1. Agents / Subsidiaries to furnish valid authorization letter from principal / OEM. 2. Copy of unpriced PO with any one of the following supporting document: <ul style="list-style-type: none"> • Completion Certificate • Invoice copy • Delivery challan
3	Manufacturers or subsidiaries should have a Quality Management System (QMS) of their product / process / supply / service etc. Alternatively, ISO 9001-2015 or compliance with any other norms / standard should be existing.	Yes / No	QMS of manufacturers or subsidiaries with valid a document highlighting their compliance is required at the pre-qualification stage.

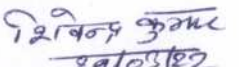
Note:


1. Compliance to above Pre-qualification requirements are mandatory. In the absence of compliance of above requirement vendor PQ application is liable to be rejected.
2. BHEL has right to verify information / confirmation furnished by asking additional documents, proofs etc.


29.03.22
Shri R P Singh
(Manager)


29/3/22
Shri Alok Kumar Bharti
(Sr. Mgr.)


29/3/22
Shri Harish Kumar
(DGM)


29/03/22
Shri Shivendra Kumar
(DGM)


Shri V S Rao
(AGM-HTE, HME & HPE)