



**Expression of Interest (EOI) for supplying
Serrated Lock Washers for traction
application**

Traction Machines Engg. Division

Ref: TME/EOI/SERRATED LOCK WASHER/01

Date: 03/11/2020

**EXPRESSION OF INTEREST (EOI) FOR SUPPLYING SERRATED LOCK
WASHERS FOR TRACTION APPLICATION**

Dear Sir,

BHEL invites Expression of Interest (EOI) from established manufacturers, for supplying Serrated Lock Washers know by different names viz. Disc Lock, Lockrite, Nord Lock etc. for traction application, to BHEL Bhopal.

The annual expected requirement of the Serrated Lock Washers in near future is approx. 5000 nos.

The interested vendors may submit their application as per Annexure-A, compliance of technical PQR and supporting documents within 90 days of the EOI publication date through email. Technical Pre-Qualification requirement (PQR) criteria for "Serrated Lock Washers for Traction application" is attached as Annexure-B.

Interested vendors may submit above-mentioned documents to following BHEL Bhopal representative through email:

Anurag Sharma
Manager/ TME
BHEL Bhopal
Piplani-462021 (MP), India

Ph.: +91-755-250-2021

Email: 1) a_sharma@bhel.in
2) mohitparothia@bhel.in



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ANNEXURE A

Information to be submitted by vendor along with offer

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:
 - a) Technical Credentials – Relevant Product/System catalogues, Experience /Reference List, Copies of Customer Certificates, Engineering strengths, quality accreditations, etc.
 - b) Financial Credentials – Copies of Audited Financial statements (Annual Reports) for last 3 years, Credit Rating, Market share (Domestic/International), Segmental Revenue in the applied category (ies).
 - c) Documents required as per Pre-Qualification requirement (PQR)

(Sign & Company Seal)
Authorized signatory



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ANNEXURE B

Vendor to comply following technical requirements and provide necessary documents for consideration of its offer:

Cl. No.	Description	Vendor to comment	
		Complied / Not complied	Supporting relevant document to be submitted
1.	Vendor shall supply serrated lock washers as per drawing no. 34391560001 Rev.04 without any deviation.	Yes/No	Catalogue indicating different sizes of Serrated Lock Washers under manufacturing range of supplier and its technical details.
2.	Vendor should have experience of manufacturing & supplying of lock washers of size M10 (or above) and conforming to material as per note-2 of drawing no. 34391560001 or equivalent.	Yes/No	a. Priced/ Un-priced PO copies. b. Material test certificate. c. Supply proof (invoice). (Vendor to ensure that experience proof submitted for b) & c) shall correlate with the submitted P.O. copy.)

(Seal and sign of Supplier's representative)

THE INFORMATION ON THIS DOCUMENT IS THE PROPERTY OF BHARAT HEAVY ELECTRICALS LIMITED.
IT MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY
WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

DRG. NO. - 34391560001

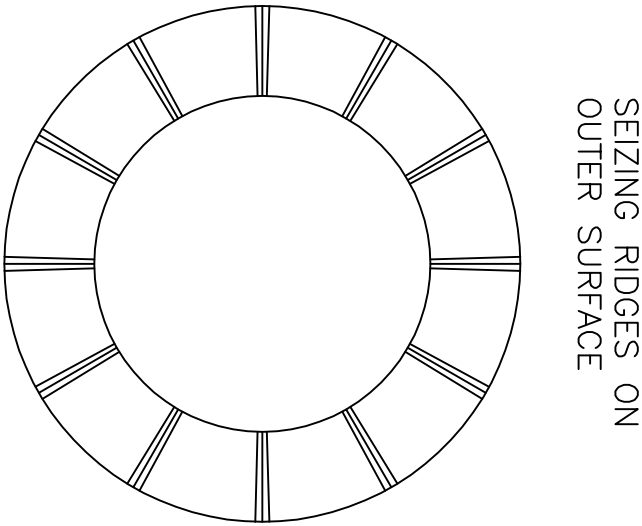
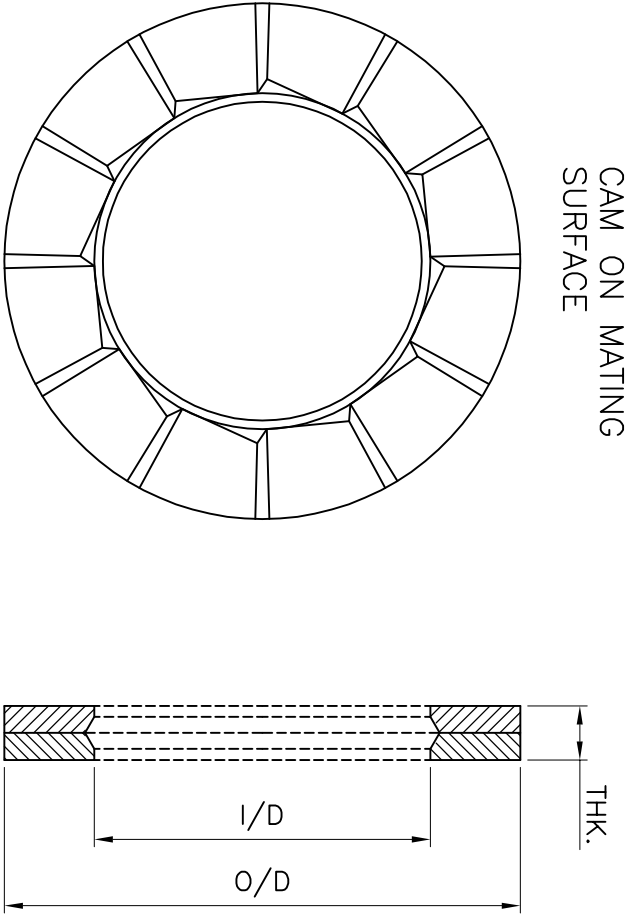


TABLE-1 (ALL DIMENSIONS ARE IN MM)

SL. NO.	SIZE	I/D	O/D	THK.	REF. ASSY. DRG. NO.	ITEM NO.
1	M12	A. 13.00±0.2	A. 19.60±0.2	A. 2.50±0.25	04391531106	014
		B. 12.95±0.2	B. 19.60±0.2	B. 4.22±0.25	04391413001	014
					04391527001	015
2	M12	A. 13.00±0.2	A. 19.60±0.2	A. 2.50±0.25	04391580002	014 & 037
		B. 12.95±0.2	B. 19.60±0.2	B. 2.50±0.25	04451509051	016
3	M30	A. 31.50±0.2	A. 47.00±0.3	A. 6.60 ⁰ _{0.5}	04393180001	011
		B. 32.39±0.2	B. 47.63±0.3	B. 6.73 ⁰ _{0.5}	04393131106	017
					44453109001	002
4	M36	A. 37.30±0.2	A. 55.10±0.3	A. 6.60 ⁰ _{0.5}	04393113002	016
		B. 36.32±0.2	B. 55.78±0.3	B. 5.84 ⁰ _{0.5}	04393127007	016
5	M16	A. 17.00±0.2	A. 30.70±0.2	A. 3.30±0.25	04394001001	010
		B. 16.53±0.2	B. 31.67±0.2	B. 4.79±0.25		
6	M24	A. 25.40±0.2	A. 39.10±0.2	A. 3.30±0.25	04394001001	010
		B. 25.78±0.2	B. 41.30±0.2	B. 6.50±0.25		
7	M10	A. 10.55±0.2	A. 16.5±0.2	A. 2.5±0.25	04451509051	015

NOTES:

1. SUPPLIER CAN OFFER THE WASHER AS PER EITHER 'A' OR 'B' AGAINST EACH SERIAL NO. AS MENTIONED IN TABLE 1
2. MATERIAL OF SERRATED LOCK WASHER SHALL BE CONFORMING TO EITHER OF THE FOLLOWING:
 - a) AISI 1010: CARBON STEELS
 - b) EN 1.7182
 - c) 50Cr V4 TO DIN17222
3. SURFACE COATING—DELTA PROTEKT (®) BASE COAT (KL100) AND TOP COAT (VH302GZ)
4. ONE SERRATED LOCK WASHER COMPRISE OF TWO PARTS ONE UPPER HALF AND ONE LOWER HALF. BOTH HALVES OF WASHER SHALL BE GLUED TOGETHER.
5. PROCUREMENT OF M12 DISC LOCK WASHER FOR TM4303, IM3302 SHALL BE AS PER SL NO. 02 OF TABLE-1.

[illegible]

REV.						ADDITIONAL INFORMATION							TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT							
REV. DATE ALTERED A.J.HARIA						STATUS OF DRAWING							BHARAT HEAVY ELECTRICALS LTD. BHOPAL DRN. VJAY NAME SIGN DATE NO. OF VAR. D.K. Melange 18.03.13 A.S. 18.03.13 00							
04 17.10.19 CHECKED APPROVED A.JAIN																				
ZONE IN TABLE-1, SL. NO. 2 & 3, REF. ASSY. DRG. NO. 04451509051 & 44453109001 ADDED. NOTE-5 MODIFIED. IN TABLE-1, SL. NO. 7 ADDED.						DISTRIBUTION OF PRINTS TME-1, TXM-3, TNX-1														
REV. DATE ALTERED						REV. DATE ALTERED							DEPT. UNTOL. DIMS. GR. SCALE WEIGHT (K.G.)							
03 23.01.15 CHECKED APPROVED						02 12.07.14 CHECKED APPROVED							TIME CODE 405 - NTS -							
ZONE IN TABLE-1, SL. NO. 1, REF. ASSY. DRG. NO. 04304581001 ADDED & SL. NO. 2, REF. ASSY. DRG. NO. 04304581001 DELETED. NOTE-5 ADDED.						ZONE IN TABLE-1 SL. NO.-5 WAS ON. IN TABLE-1 IT.006 ADDED. IT.002 ASSY.REF. DRG. NO. & IT. NO. 04304581001 & 037 ADDED.							TITLE SERRATED LOCK WASHER DRAWING NO. 34391560001 REVIEW SHEET NO. 01 NO. OF SHEET 01							
INVENTORY NO.						SIGN. & DATE							REV.							