

BHEL BHOPAL	SPECIFIC CONFIRMATION REQUIRED FROM SUPPLIER	CHECK LIST NO. CL/CDE/125
SPHERICAL WASHER		
S. NO.	TECHNICAL REQUIREMENTS	CONFIRMATION / COMMENTS OF SUPPLIER (YES / NO)

01 **MATERIAL OF CONSTRUCTION**

As per BHEL drawing.

YES / NO

02 **SIZE AND QUANTITY**

As per BHEL drawing (For size).

& Enq./P.O. (For Quantity).

YES / NO

03 **TOLERANCE ON DIMENSIONS**

All dimensions tolerance shall

Be as per BHEL drawing only.

YES / NO

04 **HEAT TREATMENT**

- As per BHEL drawing.

YES / NO

- Heat treatment to be done in proper
Calibrated Furnace. Calibration TC shall
Be shown to BHEL / BHEL IA in case of demand.

YES / NO

- No. of Spherical Washers Heat Treated
In Single Heat Charge (i.e. **Heat Lost** Size)

YES / NO

05 **HARDNESS CHECK**

- To be performed on all Spherical Washer including
Test piece also. Hardness to be checked on flat
Surface only. Out of 100% check by spherical washer
manufacture 5% (selected Randomly by BHEL IA)
need to be witnessed by BHEL IA and to be a part of
Inspection report.
- Corresponding Test sample shall be drawn
From same Heat of original Washer material
And shall be Heat Treated along-with the Main Washer
(i.e. Same Heat Charge).
- Proper co-relation should be there complying
the above requirements.
- Proper calibrated instruments shall be used
For checking the hardness.
- Minimum Hardness shall be as per
BHEL drawing only.

YES / NO

YES / NO

YES / NO

YES / NO

YES / NO

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06 TEST / INSPECTION CERTIFICATE

- Proper co-related MTC
(Showing both chemical & mechanical properties)
Shall be submitted along with the final documents. YES / NO
- Subsequent to Heat Treatment.
Mechanical Testing (UTS, Yield & Elongation)
Need to be performed at **NABL Approval Lab** only.
Same shall also to be submitted
Along with the final documents. YES / NO
- Inspection records for dimensional check
For each washer need to be also submitted. YES / NO
- All Test Certificates (including MTC) shall
Be duly reviewed & signed by BHEL IA. YES / NO

07 INSPECTION AGENCY

- BHEL-IA
(BHEL appointed Third Party Inspection Agency
as mentioned in BHEL P.O.)
- Quality Plan CDE-15-3080 (attached with indent)
to be followed while inspection. YES / NO

08 PROTECTIVE COATING

Oil based easily removable rust preventive
Shall be applied. YES / NO

09 IDENTIFICATION & PACKING

- Each washer shall get identified with unique identification no.
so as to co-relate the same with all its inspection reports
(i.e. Hardness, dimensional check, etc.). identification
Shall be done using indelible ink. YES / NO
- Washers shall be suitably packed
to avoid damage during transit and storage. YES / NO

**10 LIST CLEARLY FOR DEVIATION IF ANY FROM
BHEL REQUIREMENTS. OTHERWISE IT WILL
BE PRESUMED THAT THE OFFER IS IN LINE
WITH THE ENQUIRY / PO REQUIREMENTS.**

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Special Note :

- (1) Item description is already there in the enquiry. Hence BHEL shall not consider any item description details (given by supplier in their offer) while reviewing the technical bid. Hence it is advisable not to mention / repeat the same any-where in the offer. **In the technical part, supplier to only fill the above checklist and mention for specific deviation (giving clause reference of applicable spec.) if any.**

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