

**Mandatory Pre-Qualification requirements for MC-Socket**  
**Material Code- W96413503068 as per Drawing 31350601092 REV-04**

**Description:**

The MC-Socket is utilized for connecting the wires from inside to outside the generator through lead in plate. It is connected to the 3 mm diameter pin of Lead-in-Plate from inside and outside. MC-Socket should be of very reliable and proven design to maintain the required electrical connection.

- 1.0** The vendor should be a regular manufacturer of such MC-Socket with minimum following requirements -

Sl No.	Parameter	Value
(i)	Conductor Connection	0.5 mm <sup>2</sup> , Diameter 0.5 to 0.8 mm
(ii)	Insertion and Extraction Force	7 to 13 N tested with steel pin $\phi 3_{hp}$
(iii)	Nominal Current per individual contact	35A
(iv)	Contact Resistance	$\leq 0.35m\Omega$
(v)	Material	CuZn36Pb1.5F38 or equivalent
(vi)	Hard Silver plated	$6\mu\pm 2$
(vii)	Suitable for Crimping	8PT crimping tool
(viii)	Silver Plating	$6\mu\pm 2$

- 2.0** In support of above serial number-1, vendor shall furnish technical details of MC-Socket in below mentioned format for at least two nos. (2) of the P.O. executed in past 10 years (from date of enquiry) along with P.O. copies.

S. No.	Brief technical details	Application	Name & address of customer	Date of supply
1	<ul style="list-style-type: none"> <li>Nominal Current per individual contact</li> </ul>			
2	<ul style="list-style-type: none"> <li>Contact Resistance</li> <li>Material</li> <li>Silver Plating</li> </ul>			

- 3.0** Vendor to furnish correlated test certificates /Certificate of compliance against any one of the P.O. submitted as per clause 2.
- 4.0** Vendor to furnish acceptance certificate from the end user of MC-Socket against the P.O. submitted as per clause 2. (Original Certificate or through e-mail directly from the customer). Acceptance certificate should contain information like item details and its application or correlation with P.O.

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- 5.0 The vendor should have in-house manufacturing and testing facilities for MC-Socket. Vendor to confirm.
- 6.0 The testing facilities available at vendor's works should be duly calibrated against measurement standards traceable to national/international measurement standards. Vendor to confirm the same. Alternatively, vendor to indicate their tie-up with accredited laboratory for performing Type tests or agree to carry out at NABL/ILAC/APLAC approved lab and provide the details for the same.

**Note:** BHEL reserves the right to verify information submitted by vendor. In case the information is found to be false / incorrect, the offer shall be rejected.

MANUFACTURER'S NAME AND ADDRESS			QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM			QP NO.							
					REV							
		DRG. NO.	AS PER PO									
		SPEC.	AS PER PO									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS	AGENCY			REMARKS
1	2	3	4	5	6	7	8	9	D	10		11


Note: All page of inspection documents shall be numbered in chronology with the QAP clause , dully mentioning the corresponding QAP clause nos. at the top of each page. One index page containing the documents descriptions, their page no & QAP clause shall be attached upfront the inspection documents.

MANUFACTURER/SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	
		! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.		APPROVED BY
		M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		