



स्टील फाउंड्री
सेन्ट्रल फाउंड्री फोर्ज प्लान्ट
भारत हेवी इलेक्ट्रिकल्स लिमिटेड

SPECIFICATION FOR SINGLE ROPE MECHANICAL CLAMSHELL GRAB - CAPACITY 0.85 cum
SPECIFICATION NO. FT/SP/72 REV 00

Sl. No.	Details	Requirement from Vendor	Vendor's Response Yes (OK) /No
Vendor must confirm/specify details as demanded against each clause of this specification. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance. In case of response is "NO" against any clause the justification of that may be provided separately mentioning the clause number with its detail however non acceptance generally will be considered as noncompliance and hence offer may be rejected.			
1.0	OBJECTIVE:		
1.1	Grab Bucket shall be used to lift Silica sand having density 1.6 MT/Cum.	Vendor to confirm	
1.2	Grab Bucket shall be hanged in a single hook of EOT crane and Sand shall be shifted from PITs (Dim = Length X Width X Depth = 6 X 4 X 3 m) to outside.	Vendor to take note and confirm	
2.0	PRE-QUALIFICATION CRITERIA:		
2.1	Offer shall be considered from original manufactures only.	Vendor to provide certificate of incorporation.	
2.2	The manufacturer should have supplied equipments as specified in Clause 1.1 of the capacity 0.75 CuM or more. Proof of supply of at least 2 numbers of equipment in last seven years (year ending tender opening date) to be submitted along with offer.	To be submitted: Purchase orders copies of supplies, preferably with performance certificate	
3.0	SCOPE OF SUPPLY: Scope of supply includes design, manufacturing, supply and commissioning of the Grab Bucket at CFFP/BHEL Haridwar.		

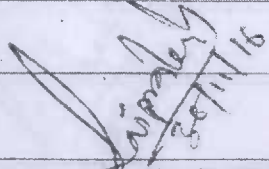
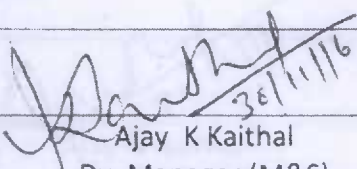
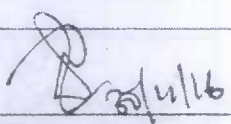
Prepared by		Checked & Approved by
Jai Prakash Singh Manager (SF)	Ajay K Kaithal Dy. Manager (M&S)	Tushar Dave DGM (FT & PS)



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	The technical and general requirements of the Grab are given below.		
3.1	Type : Heavy Duty Mechanical Clamshell Grab	Vendor to take note and confirm	
3.2	Capacity : 0.85 Cum	Vendor to take note and confirm	
3.3	Proof Load : 1.25 times the rated capacity	Vendor to take note and confirm	
3.4	Bushes : Gun Metal	Vendor to take note and confirm	
3.5	Wire rope : 12 mm minimum	Vendor to take note and confirm	
3.6	Dead Weight : 2250 Kg. minimum	Vendor to take note and confirm	
3.7	Material to be Handled : Warm Silica sand of 1.6 MT/Cum Density	Vendor to take note and confirm	
3.8	Operating Heights : Closed Condition: 3400 mm (Approx.) Open Condition : 4500 mm Maximum Width: 1250 mm (Approx.)	Vendor to take note and confirm	
3.9	Finish : Two coats of Yellow Synthetic Enamel paint with black zebra stripes on two coats of ZINCHROMTE primer	Vendor to take note and confirm	
4.0	<u>MATERIAL OF CONSTRUCTION:</u>		
4.1	Lip Plates : Hardened to 500 BHN Scoops : IS 2062 PINs : EN9/C45 Bars : IS 2062	Vendor to take note and confirm	

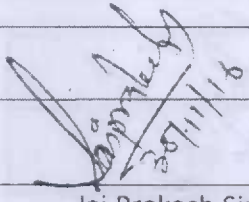
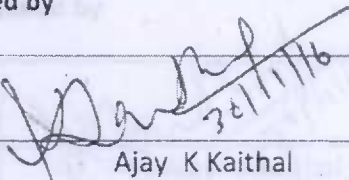
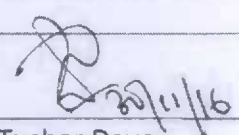
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5.0	GENERAL REQUIREMENTS:		
5.1	Machine should be of portable in nature with proper lifting arrangements.	Vendor to take note and confirm	
5.2	On placement of order and before start of manufacturing, Vendor to submit detailed drawing showing dimensions & Material of Construction etc. Vendor to get approval from CFFP/BHEL for drawings and materials to be used before manufacturing of equipment.	Vendor to take note and confirm	
6.0	PACKING		
6.1	The equipment should be supplied in suitable packing to avoid any damage during handling, transit and storage.	Vendor to take note and confirm	
7.0	DETAILS TO BE SUBMITTED ALONG WITH OFFER		
	Following details to be submitted along with offer.		
7.1	GA drawing showing overall dimension, material and layout of equipment.	Vendor to take note and submit	
7.2	List of spares, if any, required for trouble-free operations for 2 years to be submitted.	Vendor to take note and submit	
8.0	DOCUMENTS TO BE SUPPLIED ALONGWITH EQUIPMENT		
	Five sets of following documents shall be supplied alongwith equipment:	Vendor to take note and confirm	
8.1	Operation and maintenance manual.	Vendor to take note and	

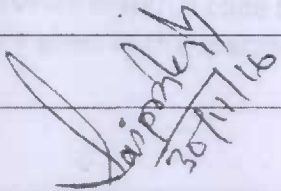
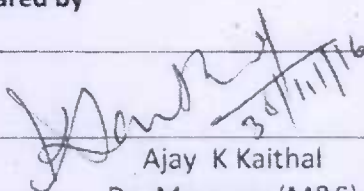
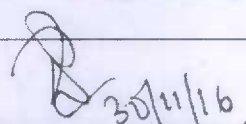
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		confirm	
8.2	Assembly drawings	Vendor to take note and confirm	
8.3	Details of all bought out items with their specification, addresses of Vendors.	Vendor to take note and confirm	
8.4	Test certificate and guarantee certificate for the equipment as a whole and test certificate of individual bought out components.	Vendor to take note and confirm	
9.0	INSPECTION		
9.1	BHEL reserves the right to inspect equipment at site before dispatch. The supplier shall be given prior intimation in such case. However inspection at BHEL shall be final. The supplier shall offer BHEL representative all reasonable test facilities without charge to satisfy the latter that the equipment is being furnished in accordance with this specification.	Vendor to take note and confirm	
9.2	The equipment shall be tested at CFFP, BHEL and will be binding on supplier. If the equipment received at CFFP is not found in accordance with the requirements, it shall be rejected.	Vendor to take note and confirm	

Prepared by		Checked & Approved by
 30/11/16	 30/11/16	 30/11/16
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