

CFF/SMS/2012/01		TECHNICAL SPECIFICATION FOR DIAMOND WHEEL REFRACTORY BRICK CUTTING MACHINE	
Rev. No. 02			
Date:11/06/2016			
Clasuse No	Description	Supplier Remarks	
1	Objective: This Technical specification covers the requirements for Diamond wheel Refractory brick cutting machine in steel melting shop.		
2	Scope: The scope of supply cover Design, Engineering, Errection and commissioning of Diamond wheel Refractory brick cutting machine in steel melting shop of CFFP The machine shall be capable of cutting high alumina bricks (70-95% alumina) and magnesia carbon of length 250-400 mm, width 130-190 mm and thickness 100mm.		
3	Technical Requirement		
3.1	Wheel Diameter = 16"		
3.2	Drive motor : 7.5 HP (Minimum)		
3.3	Marks of drive motor : ABB/ Siemens/Crompton Only.		
3.4	starter : Fully automatic (L&T or Siemens make only)		
3.5	construction of machine : Sturdy and Robust.		
3.6	Coolant pump : Yes, Capacity 0.1 KW (Minimum)		
3.7	Coolant tank : Yes		
3.8	Blade Guard : Yes		
3.9	Blower for dust : Yes Capacity of motor 2 HP		
3.1	Water tank : HDPE PLASTIC.		
3.11	Trolley : sliding Trolley with self gripping rubber.		
3.12	All necessary electronics are in the supplier's scope and have to be housed in dust and heat proof panel. Motor control system should be of fusels type i.e. MCCB of suitable rating. The main motor should be Siemens/ ABB/ Crompton make only and rating should be minimum 7.5 HP		
3.13	Spare: The following items are to be supplied as spares. 1) Diamond Cutting wheel : 02 Nos. 2) Spanner for diamond saw. 3) One set of belts. 4) Adjustable measurement device. 5) Motor guard for dust and water.		
3.14	Utility to be provided by CFFP/BHEL. : Power Supply = 415 ± 5%, 3 phase, 4 wire		
4	General Requirements :		
4.1	Pre-inspection at supplier works: Supplier shall inform BHEL in advance for pre inspection of the equipment at supplier works. Supplier shall demonstrate the ability of equipment to meet BHEL/ CFFP requirement.		
4.2	Supplier shall provide a list of users in India for the model quoted.		
4.3	Services center shall be available in India.		
4.4	Supplier shall provide detailed operation & maintenace manuals a along with all circuit diagram in three sets of hard copies in english only.		
4.5	Refractory cutting machine shall be capable of operating 24*7 hours.		
4.6	Refractory cutting machine must be guaranteed for good working for atleast one year from the date of commissioning.		
4.7	The time required by the Supplier to come & attend any break down should not exceed 96 hrs.		
4.8	The equipment shall be commissioned at our works by the supplier.		
4.9	All capabilities of the refractory cutting machine shall be demonstrated by the supplier.		
4.9	Equipment shall be supplied in packed condition and has to reach CFFP its original condtion.		
4.10	The external surface should be mechanically cleaned and there should be two coat of primer with final paint.		
4.11	Equipment shall confirm to Indian safety norms.		
4.12	Supplier shall give his equipment details clause wise as per BHEL specification No. CFF/SMS/2012/01, Rev 02.		

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