SPECIFICATION FOR AUTOMATIC DRILL POINT GRINDER NOTE:-

- 1. The vendor (OEM) must fill the "offered" column in compliance to specified requirements and also "Deviations". (OEM- Original Equipment Manufacturer)
- 2. The Vendor must submit complete information against Qualifying conditions at Sl. No. 15. The offer meeting this clause would only be processed.
- 3. The offer and all the documents enclosed with the offer should be in English language only.

	ADDRESS OF THE SUPPLIER:	ADDRESS OF THE INDIAN AGENTS : TELEPHONE NOS.: FAX NOS.:			
	TELEPHONE NOS.:				
	FAX NOS.:				
	E-MAIL ADDRESS: E-MAIL ADDRESS:				
SCOPE:	SPECIFICATION FOR A	SPECIFICATION FOR AUTOMATIC DRILL POINT GRINDER			
SL. NO.	DESCRIPTION OF BHEL REQUIREMENT	REQUIRED	OFFERED	DEVIATION	REMARKS
1.0	APPLICATION				
	Quick precision grinding and sharpening of all shank type cutting tools like standerd drills, core drills, countersunk drills, pilot drills, taps etc. with auto feed mechanism & powered work head for automatic rotation & cam action.	Vendor to offer			
2.0	JOB REQUIREMENT:				
	Repetitive grinding /regrinding and sharpening of drills /core drills etc of various drill length and diameters as follows:	Vendor to offer			
2.1	Size of drills /core drills etc. from dia 10 mm to 80 mm.	Vendor to offer			
3.0	TECHNICAL SPECIFICATION:				
3.1	Capacity: -suitable for 10 to 80 mm diameters (both even & odd flute) Drills, Core drills, Taps, Countersunk drills etc	Vendor to offer			
	Length of drill- upto 500 mm or more	Vendor to offer			
3.2	Shank Details:				
	Taper Shank/ Parallel shank	Vendor to offer			
3.3	Flute type				
	Two/ three/four flute type	Vendor to offer			
3.4	Chuck				
	6 jaws precision	Vendor to offer			
3.5	Point				
	80 degree to 160 degree	Vendor to offer			
3.6	Web Thinning				
	After point grinding without removing drill to ensure accuracy	Vendor to confirm			
3.7	Grinding Head Motor				
	Capacity to be mentioned with calculations by vendor	Vendor to inform			
3.8	Grinding spindle speed and web thinning wheel speed				

	To be furnished by vendor	Vendor to inform
3.9	Coolant Motor & Pump capacity	
	To be furnished by vendor	Vendor to inform
3.10	Longitudinal & crosstravel drive motor	Vendor to inform
	capacity:	
	To be furnished by vendor	
3.11	Weight of the machine & dimensions	Vendor to inform
	To be furnished by vendor	
3.12	Vendor to submit technical literature/ write-up/ leaflet for following	Vendor to submit
	feature of the machine along with offer:	
	Auto feed mechanism & powered work head for automatic rotation &	
	cam action of Automatic Drill Point Grinder	
4.0	TECHNICAL FEATURES:	
	The drill point grinders should be heavy duty and complete in	
	ready-to-use condition having following standard features:	
4.1	Machine should be equipped with auto feed mechanism & powered	Vendor to offer
	work head for automatic rotation & cam action	
4.2	Holding Chuck:	
	3 0 11	Vendor to offer
	drill etc. sizes as mentioned above	
4.3	All the cutting edges of drills to be ground uniformly in one operation	Vendor to confirm
	producing correct cutting angle and precision point	
4.4	Fitted with adjustable work head which can be set and locked in any	Vendor to confirm
	angle to achieve point angle from 80 degree to 160 degree	X 1
4.5	Provision for adjusting clearance angle with proper measuring scale	Vendor to confirm
4.6	The work head should be fitted on robust compound slide	Vendor to confirm
4 7	Provision for point thinning immediately after point grinding (without	Vendor to offer
	removing the drill) to achieve accurate ground drill point	X7 1
4.8	Drive motor should be heavy duty ball bearings with dynamically	Vendor to confirm
	balanced rotor for smooth and vibration free grinding finish for long life	
4.9	Main chuck should be fitted with friction less bearings and spring	Vendor to confirm
4.9	loaded precision thrust bearings to ensure smooth and balanced	Vehidor to continui
	operation of the work head for long period	
4.10,	Rigid base section having provision for storing the accessories/ tools/	Vendor to confirm
4.10,	grinding discs etc. with locking arrangement. The working height	vehior to confittii
	should be such that operator can work in standing position comfortably	
	without fatigue	
5.0	ACCESSORIES, TOOLINGS AND ATTACHMENTS:	
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5.1	The drill point grinders should be complete with standard accessories	Vendor to offer			1
	and toolings including coolant pump, tank,machine lamp, grinding				
	disc, hand tools so that the grinders are in ready -to-operate condition.				
5.2	Cables and hoses including input cable (5.0 meter), earthing cable,	Vendor to offer			1
	coolant hoses and also starter, switches, connectors, lamp should be				
	provided with the grinder.				
5.3	Attachments needed for grinding different type of drills, core drills,	Vendor to offer			
	taps, pilot drills 180 degree flat bottom drills etc.				
5.4	Recommended mechanical/ electrical spares (including complete	Vendor to offer			
	grinding spindle), toolings & consumables for minimum two years of				
	smooth operation of the grinder with individual identification no. &				
	price				
5.5	Tool box containing tools required for day-to-day operation and	Vendor to offer			
	maintenance such as Wrench, spanner, allen key, pliers etc.				
6.0	WORKING CONDITION:				
6.1	Input Power Supply:				
	$220V \pm 10\%$; Single phase, 50 Hz $\pm 3\%$ or $440V \pm 10\%$; 3 phase, 3-	Vendor to note			
	wire system, 50 Hz ±3% variation				
6.2	Ambient Condition:				
	Ambient temperature 3 to 50 degree C.	Vendor to note			
	Relative humidity upto 95% in rainy season	Vendor to note			
7.0	Makes:				
7.1,	Motor:				
	Siemens/ ABB/ Kirloskar/ Crompton / Reputed made	Vendor to confirm			
7.2,	Electricals like Stator switches etc.				
	Siemens/ L&T / Reputed made	Vendor to confirm			
7.3,	Bearing:				
	SKF/ FAG/Reputed made	Vendor to confirm			
8.0,	Five sets of operation/ maintenance manuals (in English language)				1
J.0,	to be provided along with supply consisting of:				
8.1,	Operating & maintenance instructions with mechanical diagrams.	Vendor to confirm			1
8.2	Dos and Don'ts.	Vendor to confirm			1
8.3,	Trouble shooting & remedies.	Vendor to confirm			1
8.4,	Complete spare and consumable list with identification nos of each	Vendor to confirm			1
,	spare & consumables.				
8.5,	Mechanical diagrams of main components/ sub-assemblies, electrical	Vendor to confirm			
	& electronic circuit diagram with proper wire nos and component				
	identification, make and model type.				

9.0	Pre Dispatch Inspection:	Vendor to note &
	Pre dispatch inspection will be carried out by BHEL/ BHEL nominated	accept
10.0	agency at vendor's work	
	Erection & Commissioning & Job Proving:	Vendor to confirm
	Erection, commissioning and job proving at BHEL works by vendor.	
	Supplier to take full responsibility for carrying out the erection, start	
	uptesting of machine, its control & all types of other supplied accessories/ attachment and job proving.	
11.0	Foundation:	
	Foundation items like foundation blots, clamps, washers etc. to be	Vendor to confirm
	provided by the vendor	
	Foundation drawing/ details with electrical connection details to be	Vendor to confirm
	provided within one month of receipt of Purchase Order	
12.0	Training:	Vendor to confirm
	Training to BHEL personnel to be provided for operation &	
	maintenance by vendor at BHEL works	
13.0	Guarantee:	Vendor to confirm
	Guarantee for 2 years trouble free operation and prompt after sales	
440	service during and after guarantee period to be confirmed	XX 1
14.0	Packing:	Vendor to confirm
	Sea worthy & rigid packing for all items of complete machine to	
	avoid any damage/ loss during transit Qualifying Conditions:	
	Only those vendors who have supplied and commissioned at	
	least one AUTOMATIC DRILL GRINDING MACHINE of same/	Vendor to submit
	higher capacity for similar application in the past ten years (on	vendor to submit
	the date of opening of tender) and such machine is presently	
	working satisfactorily for more than one year after	
	commissioning, should quote. The following information should	
	be submitted by the vendor about the companies where similar	
	machines have been supplied.	
	Name of the customer/ company where similar machine have	
	been supplied	Vendor to submit
15.3	Complete postal address of the customer	
15.4	Month & year of commissioning	Vendor to submit
13.4	Michari & year or commissioning	Y CHOOL TO SOUTHIL
	Name & designation of the contact person of the customer	Vendor to submit
15.6	Phone/ FAX/ email address of the contact person of the	
	customer	Vendor to submit
	Performance certificate from the customer regarding satisfactory	
	performance of the machine	Vendor to submit

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BHEL reserves the right to verify the information submitted by			
vendor. In case, the information is found to be false/ incorrect,	Vendor to accept		
15.8 the offer shall be rejected.	& confirm		