

Technical Bid
for Procurement of 1 Number of Universal Portable Drilling Machine

Bid Invitation No:6300035660

Clause No	Description	Essential / Desirable	Supplier Confirmation	Supplier Remarks
1	Capacity			
1.1	Drilling in Steel (Tensile strength 600 N/mm ²)	Dia 50 mm		
1.2	Drilling in Cast Iron	Dia 65 mm		
1.3	Threading in Steel	M48 X 3		
2	Drill Head			
2.1	Spindle Nose	MT 5		
2.2	Maximum Spindle travel	340 mm		
2.3	Number of Spindle Speed	15		
2.4	Spindle Speed Range	16 -800 rpm		
2.5	Number of Power Feeds	6		
2.6	Power Feed Range: Standard	0.05-0.5 mm/rev		
3	Working Range			
3.1	Distance of Spindle Axis from Column surface with Spindle in Vertical position max/min	2070 / 1220 mm		
3.2	Drilling Radius with Spindle in Vertical Position max / min	2270 / 1420		
3.3	Horizontal Traverse of Arm	850 mm		
3.4	Distance between Spindle Face & Floor level (with spindle retracted and in Vertical Position)	1545 / 295 mm		
3.5	Vertical Traverse of Arm	1250 mm		
3.6	Distance between Drilling Spindle Axis in Horizontal Position & Floor level max/min	2725 / 295 mm		
3.7	Angle of Arm Rotation	360 degree		

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3.8	Angle of Drill Head Rotation	360 degree		
3.9	Angle of Drill Head Swivel from Horizontal upwards & downwards	90 degree		
3.10	Column Traverse along Bed	1200 mm		
4	Power			
4.1	Motor for Drilling Spindle	3.7 / 1500 kw/rpm		
4.2	Total Input of machine	13 KVA		
5	The machine should be latest commercially proven design, brand new and should confirm to National / International standards with good performance record established under stringent operating conditions.	Mandatory		
6	All bearings used in the machine should be SKF, FAG, NSK, TIMKEN, NTN, INA, RHP or any other international reputed make. The actual make & details of bearing fitted in the machine should be mentioned.	Mandatory		
7	Maintenance tool kit for carrying out mechanical maintenance should be supplied along with the machine	Mandatory		
8	All induction motors make should be of Siemens / ABB / GEC or any other reputed make as per IEC standard easily available in India, should be provided with motor protection circuit breakers (MPCB) of suitable capacity. Safety devices, degree of protection should be in accordance with IEC standard.	Mandatory		
9	The supplier should ensure that spares and service support for the whole machine to be made available for fifteen years minimum.	Essential / Desirable		

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10	DOCUMENTS TO BE SUPPLIED - 1. User Documents 2. Operating Manual 3. Maintenance Manual	Mandatory		
11	The machine will be inspected by BEML or his Authorised representative at the Firm's premises. The manufacturer should intimate the readiness of the machine at least two month in advance.	Mandatory		
12	Supplier to take full responsibility for carrying out the erection, start up, testing of machine, it's control & all types of other supplied equipment .	Mandatory		
13	Warranty: Entire Machines Inclusive of all Electrical, Mechanical and Electronics Systems/ Accessories should be warranted for 12 Months from the date of commissioning against all the Design, Material or Manufacturing Defects	Mandatory		

Sign of the Bidder with Seal