

**Technical Specification of Tender No. 65.11.8002 for the supply of OPTICAL PROFILE CUTTING MACHINE**

1.	Major Parameter	
1.1	Nos. of cutting torches	04 nos. mounted on machine 'B'
1.2	Cutting thickness capacity	l) Mild steel to IS 2062 thickness up to 5mm- 50mm with all four torches working simultaneously Mild steel to IS: 2062 thickness up to 5mm to 100 mm with two torches.
1.3	Cutting width	1500 mm for m/c 'A' & 'B'
1.4	Cutting length	4500 mm for m/c 'A' 6000mm for machine 'B'
1.5	Max. Circle cut	1500mm for m/c 'A' & 'B'
	(No deviation shall be permitted against clause 1.1, 1.2, 1.3 1.4 & 1.5	
2.0	OTHER PARAMETERS	
2.1	Type of cutting torches	Nozzle mixing type with automatic ignition.
2.2	Type of torch adjustment	Motorized (and also with manual/vertical adjustment)
2.3	Minimum distance two cutter between two torches	135 mm
2.4	Cutting accuracy	+/-0.8 mm per meter
2.5	Inter gap for operator to stand	650 mm
2.6	Cutting speed range (mm/minute)	70 to 700 mm/min
2.7	Tracing width	1500mm for m/c 'A', &'B'
2.8	Tracing length	As per requirement of cl. 1.4
2.9	Tracing accuracy	+/-0.4 mm
2.10	Repeating accuracy	+/-0.3 mm
2.11	Height of the tracing table	To suit cutting table of 800 mm height
3.0	The tenderer should furnish the following information relating to machine offered.	
3.1	Machine model	
3.2	Nos. of Tracing tables & sizes to suit cl. 2.7 and 2.8	
3.3	Length of hose and cable conveyor.	
3.4	Tracing speed in mm/min	
3.5	Machine dimensional specification	
3.5.1	Machine overall length/track length	
3.5.2	Machine overall width	
3.5.3	Track span/gauge	
3.5.4	Beam length with cantilever	
4.0	The tenderer should also furnish cutting and consumption tables showing cutting speed, pressure and gas consumption for full range of thickness 5 mm to 250 mm. However, the cutting speeds for following thickness of MS plates (as per IS: 2062) should be specifically given for demonstration of cutting quality cuts.	
4.1	5.00mm thick MS plate	
4.2	10.00mm thick MS plate	
4.3	15.00mm thick MS plate	
4.4	20.00mm thick MS plate	
4.5	25.00mm thick MS plate	
4.6	15.00mm thick MS plate	
4.7	32.00mm thick MS plate	
4.8	50.00mm thick MS plate	
4.9	75.00mm thick MS plate	
4.10	100.00mm thick MS plate	

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