

**VQC for OIL COOLER 176.32.001CB-A**

Sl no.	Nomenclature & drawing No.	Manufacturing technology & Testing / Inspection Facilities required to produce the item	Must be possessed by the vendor in his premises (P & M list and testing / inspection equipment list to be submitted)	Desirable ( May be posses by the vendor in his premises or out sourced)(MoU / Undertaking shall be submitted by the firm.)	FIRM Compliance (Y/N)	Remarks	
1	OIL COOLER 176.32.001CB-A	TECHNOLOGY-1 RAW MATERIAL		Cold rolled steel sheet 1.5mm, Fire refined copper sheet 0.15&0.25mm, 0.25&0.4mm extruded seamless oval hard brass tubes,			
2		TECHNOLOGY-2 PRESS		Hydraulic press of 50T capacity and working area 75x700mm.			
3		TECHNOLOGY-3 FORMING		Roll Forming machine suitable for handling brass and copper sheets of 0.15 to 0.5mm thickness and 50mm width minimum.			
4		TECHNOLOGY-4 RADIAL DRILLING		Radial drilling machine of minimum 20mm drilling capacity. Working area 400x700mm minimum			
5		TECHNOLOGY-5 TURNING			Turning machine Dia.300 or more, with 0.020mm diametrical accuracy.		
6		TECHNOLOGY-6 Milling Machine			CNC.Milling machine of 250x500mm or above with 0.020mm accuracy		
7		TECHNOLOGY-7 PIPE/ROD BENDING			Pipe/Rod bending facility up to 25mm or more.		
8		TECHNOLOGY-8 SOLDERING		General Soldering facility and Dip soldering bath of size 50x630x500mm minimum.			
9		TECHNOLOGY-9 WELDING		Electric gas shield arc welding capacity number 2 to 6mm.			
10		TECHNOLOGY-10 SURFACE COATING			Backlite varnish coating, Primer with Enamel coating.		

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11	TEST / INSP-1	INSPECTION	Surface Table. Templates, gauges shall be positioned after placement of supply order. Undertaking shall be submitted by the firm.	
12	TEST / INSP-2	TESTING	Vibrator stand test with air pressure up to 10 kgf/cm <sup>2</sup> to be carried out as per drawing specification. It shall be positioned after placement of supply order. Undertaking shall be submitted by the firm.	

Note: 1) The Firm may indicate the Alternate Machines / Process by which the Component can be manufactured as per the Spec. mentioned in the Drawing.  
 2) The Firm may indicate the Machines and Facilities available at Vendors' premises for the Process mentioned under "Desirable" column.

Sl. No.	Part Name	Material	Quantity	Process	Machine / Facility	Remarks
1	FLANGE	STAINLESS STEEL	1000	CNC TURNING	CNC LATHE	
2	SHAFT	STEEL	1000	TURNING	LATHE	
3	WHEEL	STEEL	1000	TURNING	LATHE	
4	BEARING HOUSING	CAST IRON	1000	MACHINING	MACHINING CENTRE	
5	BEARING	STEEL	1000	TURNING	LATHE	
6	GEAR	STEEL	1000	TURNING	LATHE	
7	KEY	STEEL	1000	TURNING	LATHE	
8	WASHER	STEEL	1000	TURNING	LATHE	
9	NUT	STEEL	1000	TURNING	LATHE	
10	SCREW	STEEL	1000	TURNING	LATHE	