			ω	ь	SI.No.
). 			HULL BOTTOM PLATE MIDDLE(CMD) Drg.No . 172.01.010-9 LF.No. 6201201135	HULL BOTTEM FRONT PLATE (CMD) Drg.No. 172.01.009- 16 LF.No. 6201201134	Nomenclature & Drawing No.
Technology 4	Technology 3	Technology 2	Technology 1		Manufacturing Technology & Testing /Inspection Facilities required to produce the item
FORMING	HEATING FOR FORMING AND HARDNENING	GAS CUTTING	RAW MATERIAL		echnology & on Facilities uce the item
Hydraulic Press - 10000 T Pressing Force 7500-10000T Holding time 10-15 seconds. Transfer time of blank from furnace till complete dipping in water Max. 4 minutes. Cooling time in water Min.1.5 minutes Water temperature 20-40°C Straightening Hydraulic Press 400T.	Gas Fired Chamber Furnace: 3000X5500 MM, Loading temperature in furnace: 900-1000°C Heating temperature: 900-980 °C Heating time: 20-40 minutes. Holding time: 40-70 minutes with facilities:- Rotary loading unit 7T, Over Head Crane 10T & Water bath:				Must be possessed by the vendor in his own premises (List of Plant & Machinery and Testing/Inspection facility to be submitted
		CNC Gas Cutting Machine:- Capacity to cut 20 mm thick plate.	approved by HVF in future or Russia OEM with suitable documents proof required.	Under taking by Vendor that vendor will procure Raw material from SAIL (Who is the approved source of Raw material for HVF as of now) or any other source	Must be possessed by the vendor in his own premises (or) may be out sourced. (Name and Address of subcontractor, list of Plant & Machinery and Testing / Inspection facility to be submitted).

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Technology 8	Technology 7	Technology 6	Technology 5	Manufacturing Technology & Testing /Inspection Facilities required to produce the item
TESTING	MILLING	SURFACE TREATMENT	HIGH TEMPERING	Technology & ction Facilities oduce the item
Surface Table for inspection, Measuring instruments, profile/receiver gauges. Portable / Universal Hardness testing equipments.			Gas Fired Chamber Furnace: 3000X5500 MM Loading temperature in furnace: 570-620°C Heating temperature: 580-620°C Heating time: 1.0-1.50 Hrs Holding time: 1.0-1.50 Hrs Transfer time Max.4 minutes, Cooling time in water Minimum 2 minutes water temperature 20 - 60 °C with facilities:- Rotary loading unit 7T, Over Head Crane 10T & mechanized bath.	Must be possessed by the vendor in his own premises (List of Plant & Machinery and Testing/ Inspection facility to be submitted
	Vertical Milling Center	Shot Blasting Machine		Must be possessed by the vendor in his own premises (or) may be out sourced.(Name and Address of sub-contractor, list of Plant & Machinery and Testing / Inspection facility to be submitted).

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