

List of manufacturing facilities to be available with the firm for supply of
Fabricated/Cast cum fabricated/Casted magnet frame of TM4601:-

Sl No.	Description	Requirement
1.	Fully Fabricated Magnet Frame	1. As per ref. ANNEXURE-I
2.	Cast cum fabricated Magnet Frame	1.Fab. facilities as per ANNEXURE-I 2. Procurement from RDSO approved Class'A' foundry as per latest RDSO(M.P) vendor directory. Current vendor directory attached herewith (Ref. QM-M-7.1.1valid from 01.07.2011 to 31.12.2011)
3.	Fully Cast Magnet Frame	Procurement from RDSO approved Class'A' foundry as per latest RDSO(M.P) vendor directory. Current vendor directory attached herewith (Ref. QM-M-7.1.1valid from 01.07.2011 to 31.12.2011)
4.	Labour basis (Fully fab. Or Cast cum fab. Magnet Frame)	1.Fab. facilities as per ANNEXURE-I 2. Procurement from RDSO approved Class'A' foundry as per latest RDSO(M.P) vendor directory. Current vendor directory attached herewith (Ref. QM-M-7.1.1valid from 01.07.2011 to 31.12.2011)

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MACHINERY & PLANT (M & P)FOR MANUFACTURING

The following is the indicative list of manufacturing facilities to be available with the firm:

Sl. No.	Description	Availability	
		Yes	No
1	Oil Fired, LPG Fired or Electric Heat Treatment Furnace fitted with thermocouples and pyrometer etc. with Auto cut-in and cut-off and with strip chart recorder capable to go upto 650 deg.C and with digital display.		
2	Templates, jigs and fixtures for cutting of plates as per required geometry.		
3	Plano-miller / Big Size Vertical Milling Machine for edge preparation		
4	Three roll Electro -hydraulic bending machine for bending.		
5	Welding Machine for Submerged Arc Welding/ MIG welding Machine.		
6	Drilling Machine with Tapping Arrangement of sufficient bed length to accommodate the magnet frame.		
7	Marking/measuring Table of suitable size		
8	Facilities for stamping of identification markings as per specification.		
9	Crane with proper handling facility as per requirement.		

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LIST OF TESTING FACILITIES:

Supplier to give details (Make, Capacity, Calibration details, In-house /offloaded etc.) of following facilities which are required to be available with the firm alternatively can be outsourced.

- 1.0 Calibration of the Testing / Measuring Equipments should be done at least once in a year unless stated otherwise.
- 2.0 Inspection Staff conducting non-destructive testing shall be adequately trained and qualified by recognized agency and shall have adequate experience.
- 3.0 Staff conducting tests like Chemical Analysis and Mechanical Properties shall have adequate skill & competence and shall have undergone sufficient training. Skill of such staff shall periodically be qualified by making them carry out tests on blind samples.

Following testing facilities should be available with the firm, alternatively can be outsourced :

METALLURGICAL AND CHEMICAL LABORATORY

Sl. No.	Description of the Facilities	Details
1	Availability of Emission Spectrometer with necessary standard and automatic printer shall be preferred for verification of chemical composition of material.	
2	Radiography Testing facilities.	
3	Magnaflux/Dye Penetrant Test (DPT) facilities for checking of surface cracks.	
4	Magnetic Particle Inspection (MPI) facilities for checking sub-surface flaws.	
5	Metallurgical Microscope with magnification power up to 500x & metallographic sample preparation facilities with appropriate accessories to take photographs of slides.	

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PHYSICAL LABORATORY:

Sl. No.	Description of the Facilities	Details
1	Universal Testing Machine of 40 tonne capacity with graphical recording facilities for conducting tensile tests.	
2	Direct reading Hardness Tester of capacity 95-500 BHN.	
3	Impact Testing Machine (Charpy V-Notch) of 0-300 Joules capacity for conducting impact test with facilities for notch cutting & undertaking this test at sub-zero temperatures as per the specified standard.	
4	Shadowgraph facilities for assuring correct notch profile and dimension for impact test specimen.	

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Details of approved firms appear in the following format for Item No. 70 to 71

S.N.	Vendor's name	Approval given for	Capacity
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70. Dye Penetrant Chemicals for Detection of Surface Defects (Spec. No. M&C/NDT/105/2001)

Part-I

1.	Non-Destructive Test Appliance Pvt. Ltd., NDTA House, Plot No. F-2, Block-GP, Sector-V, Saltlec, Kolkata- 700091	i. Type-I (Fluorescent) water washable. ii. Type II (Visible) Solvent Removable.	48000 L
2.	Pradeep Metal Treatment Chemicals Pvt Ltd., Plot Nos. A 488/489, Road U/25, Wagle Estate, MIDC, Thane-400604	i. Type-I (fluorescent) water washable ii. Type-II (visible) solvent removable	27600 L
3.	P-Met High Tech Co. Pvt. Ltd., 1- 5/6 Indl. Estate, Gorwa, Vadodara- 390 016	i. Type-I (Fluorescent) water washable. ii. Type-I (Fluorescent) Solvent removable. iii. Type -II (visible) water washable. iv. Type-II (visible) solvent removable.	150KL
4.	The Oriental Chemical (P) Ltd., 1/1B, Gobinda Addy Road, Chetla, Kolkata- 700027.	i. Type-I (Fluorscent) water washable ii. Type-II (Visible) Solvent removable	26900 L

Part-II

1.	Anand Engineers Pvt Ltd, 66, MIDC RoadNo.13, Andheri (East) Mumbai- 400093	i. Type-II (Visible) Solvent removable	240KL
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71. Magnetic Particle Test Consumables (Spec. No. RDSO/M&C/NDT/109 Rev. 01)

Part-I

1.	Non-Destructive Test Appliance Pvt. Ltd., NDTA House, Plot No. F- 2, Block-GP, Sector-V, Saltlec, Kolkata- 700091	Magnetic Powder for Magnetic Particle Testing: i. Type-I Non fluorescent for Dry & Wet method ii. Type-II Fluorescent for Wet method only	24000 kg (Magnetic Particles) 180000 L (Magnetic Ink)
2.	Pradeep Metal Treatment Chemicals Pvt Ltd., Plot Nos. A 488/489, Road U/25, Wagle Estate, MIDC, Thane- 400604	Magnetic Powder for Magnetic Particle Testing: i. Type-I Non fluorescent for Dry & Wet method ii. Type-II Fluorescent for Wet method only	27600 L

Part-II

1.	The Oriental Chemical (P) Ltd., 1/1B, Gobinda Addy Road, Chetla, Kolkata-700027.	Magnetic Powder for Magnetic Particle Testing: i. Type-I Non fluorescent for Dry & Wet method ii. Type-II Fluorescent for Wet method only	30000 Ltrs./Kg.
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Facility Approval by QA(Mech.) Directorate

72. RDSO approved firms for Class 'A' Foundry as per IS 12117:1996

S.N.	Name of Firms	Address
1.	A.D. Electro Steel Co. Pvt. Ltd.	Balitkuri, Surkimill, Kalitala, Howrah-711113.
2.	A.K. Multimetals Pvt. Ltd.,	A-1, Focal Point, Mandi Govindgarh-147301, Punjab, India
3.	Affine Steels (P) Ltd.	Sector-7, Plot No. 98, IIE Ranipur, Sidcul, Haridwar
4.	Asansol Steel Casting Pvt. Ltd.,	Sripur Village Road, P.O. Ningha Asansol, Dist. Burdwan-713370 (W.B.)
5.	Atul Engineering Udyog	Nunhai, Agra-282006.
6.	Bagree Alloys Ltd.,	72A-73C, Industrial Area No.-1, A.B. Road, Dewas-455001 (M.P.)
7.	Beekay Engineering & Castings	26-28, Light Industrial Area, Bhilai-490026 (C.G.)
8.	BESCO Ltd.	(Foundry Division), Baraipur, Kolkata-700144.
9.	Bhilai Engineering Corporation Ltd.	Hathkhot, Industrial Area, Bhilai-490026 (Chhattiasgarh).
10.	Braithwaite & Co. Ltd.,	(A Govt. of India Undertaking)Subsidiary of BBUNL 5, Hide Road, Kolkata-700043.
11.	Brand Alloys Ltd.	NH-2, Delhi Road, Chatra, Sreerampore, Hooghly (W.B.)-712223.
12.	Burn Standard Co. Ltd.	20-22, Nityadhan Mukherjee Road, Howrah-711101.

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13.	Calcutta Spring Ltd.,	P.O.- Bighati, NH-2, PS-Bhadreswar, Distt-Hooghly-712124 (WB).
14.	East India Steels Limited.	Industrial Area, Rourkela-769004 Distt-Sundargarh (Orissa).
15.	Frontier Alloy Steels Ltd.	KM-25/5 & 6 Kalpi Road, Rania, Kanpur Dehat, Kanpur
16.	Gnat Foundry Private Limited,	4/1, M.I.D.C. Shirol, Kolhapur-416122, Maharashtra
17.	Hemco Engineering Pvt. Ltd.	53, Industrial Area, Malanpur-477117, Distt. Bhind, M.P.
18.	Hindustan Engineering & Industries Ltd.	National Highway-2, Dankuri, P.O. Bamunari, Distt. Hooghly, Pin-712205.
19.	Hindustan Foundry & Engg. Works	10, Industrial Area, Rajgamar Road, P.O. & Distt. Korba (C.G.)-495677.
20.	Hyper Steel Casting Pvt. Ltd.,	Plot No.19&20, Sector B, Industrial Area, Mandideep, Dist. Raipur (M.P.)
21.	Jagdamba Liquified Steels Ltd.	Roorkee Saharanpur Road, 16-17 K.M. Mile Stone, Village-Raipur, Distt. Haridwar (U.K.)
22.	Jayaswal Neco Ltd.	T-41/42, MIDC Industrial Area, Higna Road, Nagpur-440016 (MS)
23.	Jugal Kishore Alloys	Faizabad Road, Vill. Semra, Chinhat, Lucknow-226019
24.	Jupiter Alloys & Steel (India) Ltd.	Shahgunj, Chinsurah, Dist.-Hooghly-712104, West Bengal
25.	Kashi Enterprises,	B-25-29, Industrial Estate, Bazpur Road, Kashipur 244713 Distt-U.S. Nagar (Utrakhnad)
26.	Kharagpur Metal Reforming Industries Pvt. Ltd.,	Koushallya, Kharagpur-721301, Dist.- Paschim Midnapore (W.B.)
27.	N.F. Forgings Pvt. Ltd.	Dhulagarh Industrial Park, N.H.-6 (Bombay Road), Dhulagarh, Sankrail, Howrah (W.B.)
28.	Orient Steel & Industries Ltd.,	9, Gopal Ram Pathak Road, Liluah, Howrah-711204.
29.	Raneka Industries Ltd.	16-A & 17, 18-A Sector-III, Pithampur, Distt. Dhar (M.P.)
30.	Rausheena Ugyog Ltd.(Engineering Division)	Industrial Growth Centre Chaygaon, Village-Chatabari, P.O.-Birpara, Dist.-Kamrup, Assam-781123
31.	Rine Engineering Pvt. Ltd.	Plot No. 73 A, B & C, HPSIDC, Industrial Area, Baddi-173205, Distt. Solan (H.P.)
32.	Saurabh Metals Pvt. Ltd.	Plot No. 22, New Industrial Area, Mandideep-462026, Distt. Raipur (M.P.)
33.	Siena Engineering Pvt. Ltd.	S-3/3 & 22, Sector-III, Pithampur, Dist. Dhar (M.P.)
34.	Simplex Casting Ltd.	Urla Industrial Estate, Vill.- Sarora, Raipur (C.G.)-492023.
35.	Someshwar Castings Pvt. Ltd.,	C-8, Industrial Area, Naini, Allahabad (UP)
36.	Texmaco Ltd.	Steel Foundry Division, Belgharia, Kolkata-700056.
37.	Titagarh Wagons Ltd.(Unit: Titagarh Steels)	113, Park Street, Kolkata-700 016.
38.	Titagarh Wagons Ltd.	Heavy Engineering Division, P.O. Hindmotor-712233, Dist. Hooghly, West Bengal.
39.	VAE VKN Industries Pvt. Ltd.	42, Mile Stone, G.T. Road, Bahalgarh, Sonapat, Haryana-131021.