

Requirement for Foundry / Forging Plant & Machineries

Brakes Auto (India) Limited is one of the oldest Company established in 1976 for manufacturing Automotive Brakes in India. The Company is installing one new Plant at Nardhana Industrial Area, Dhule (MS) for the production of 100 MT per day of CI Castings / Steel Castings in foundry and 100 MT per day forgings with machining facility. There is a similar proposal for the manufacture of 100 MT per day of Automotive Brakes System and 100 MT forgings for light & Heavy Vehicles and other castings / forgings for Defence and Railways at Kolkata and Chennai is also under proposal with an investment of 200 crores.

The following Plant & Machineries are required: - **New / Second hand in running conditions for which sealed tenders are invited along with tender cost as per items in favor of M/s Brakes Auto (India) Limited payable at Mumbai which is non refundable from the Qualified Manufacturer / Authorised Dealers / Bankers and Financial Institutions / Importers / collaborators in two separate Bid Technical and Commercial up to 5:00 p.m. on 30th APRIL, 2007.**

PART - A (Castings)

<u>No.</u>	<u>Item</u>	<u>Quantity</u>	<u>Tender Cost</u>
1	2.50 MT High frequency Induction Furnace with spare crucible including necessary spares & accessories with installation and pollution control equipment, Panels, Frequency Converters, Water Cooling Systems, Mineral Water Plant etc.	2 Nos.	5000.00
2	Cupola Furnace capacity 5.00 MT per/hour with accessories such as Air Blower and Air Drier, Pollution Control Equipment Charging Platform Hoist etc.	4 Nos.	1000.00
3	Oil Fired Rotary Furnace with Pollution Control Equipments Capacity 2.5 MT	2 Nos.	1000.00
4	Ladles – Slag arrest lip pouring ladles		
	capacity 2.50 MT liquid metal	15 Nos.	500.00
	capacity 100/250 Kg Liquid metal	20 Nos.	500.00
5	Automatic Sand Plant including Sand Muller (2 Nos.) With Sand Conveying System for 75 MT per hour capacity with knock out and returned sand to silos including Pollution Control Equipment to supply sand to 6 pneumatic moulding machines and 4 high pressure moulding machines with shake out to return sand silos with suitable layout plan in one bay.	1 Nos.	5000.00
6	Pneumatic Moulding machines jolt / squeezing type with suitable Mould boxes and Mould conveying system suitable for work at 100 PSI Size : 500 mm x 800 mm pattern plate and size : 1000 mm x 1250 mm pattern plate. Mould box height will be approx. 400 mm.	6 Nos.	5000.00
7	High pressure moulding machines jolt / squeezing type with Mould boxes and mould conveying system size : 800 mm x 1000 mm or 1000 mm x 1250 mm Pattern Plate Mould box height will be approx. 400mm with suitable infrastructure requirements.	4 Nos.	5000.00
8	Sand mixer for oil sand core making and facing sand		
	Capacity : 300 kg.	3 Nos.	500.00
	Capacity : 500 kg	2 Nos.	500.00
9	Oil core baking oven with platform moving elevator	2 Nos.	750.00
	Mould Drying Owan 8ft x 10ft	1 No.	250.00
10	Sand Laboratory apparatus / Testing instruments Permeability tester, moisture tester, sample maker, Universal sand tester	1 each	500.00
11	Overhead manorial for pouring moulds to lift 100-250 kg Ladles of liquid metal.	1 No.	500.00
12	Chemical Laboratory equipments, strolin apparatus, Physical balance & glassware's, burette, pipette, bickers and hot oven	2-10 Nos.	500.00
13	Overhead Cranes – capacity 2 MT	12 Nos.	1000.00
14	Overhead Cranes – capacity 5 MT	3 Nos.	1000.00

15	Spectrometer / Quantavac machine for chemical test including sample cutter and grinder for CI and Steel with testing samples	2 Nos.	3000.00
16	Metallurgical Microscope and sample polishing	2 Nos.	500.00
17	Pneumatic compressor – capacity 500 CFM	4 Nos.	1250.00
	- capacity 1000 CFM	4 Nos.	2750.00
18	Shot blasting machine with pollution control equipment 96” swing frame.	4 Nos.	4000.00
19	D.G.Set- 250KVA, 500KVA. 1000KVA	2 No. each	1000.00,1500.00, 2000.00 respectively
20	Hoist – 1 MT capacity	25 Nos.	1000.00
	- 500 kg capacity	20 Nos.	500.00
21	6 inches Pneumatic grinders	22 Nos.	250.00
	½” Pneumatic chipping	16 Nos.	250.00
	12 inches Pedestal grinder	6 Nos.	250.00
22	Inspection instruments / Testing Equipments		
	BHN hardness tester	4 Nos.	500.00
	Rockwel hardness tester	3 No.	500.00
	40 MT Universal Testing Machine	1 No.	1000.00
	Poldi hardness tester	2 No.	100.00
	Marking table / Face plate 4’x4’	1 No.	400.00
	Face plate 6ft x 4ft	1 No.	400.00
	Height gauge 2 feet	2 No.	250.00
	Vernier Calipper 6 inches	8 Nos.	100.00
	10 inches	4 Nos.	100.00
	24 inches	2 No.	250.00
	Steel Scale 12 inches	4 Nos.	
	Ultra sonography Machine with probs	1 Nos.	500.00
	Magnatic Crack Detactor	2 Nos.	500.00
23	Office furniture (Tables, Chairs, etc.)	20 Nos.	1000.00
24	Computers with printers	20 Nos.	1000.00
25	Photocopier – heavy duty	2 No.	500.00
26	Draftsman – drawing board, table, stools etc	4 Nos each	250.00
27	Drawing storage cabinet	2 Nos.	250.00

PART - B (Forgings)

No.	Item	Quantity	Tender Cost
28	Bandsaw Machine	3 Nos.	1000.00
29	Shearing Machine	1 Nos.	1000.00
30	Platform Gas Cutting Machine	2 Nos.	1000.00
31	Hydraulic Drop Hammers - Capacity 1000 MT to 6000 MT suitable for multiple forgings		
	a) 60/100 kg Forgings	3 Nos.	5000.00
	b) 40 kg Forgings	2 Nos.	3000.00
	c) 20 kg Forgings	3 Nos.	3000.00
32	Trimming Machine to suit Forgings	4 Nos.	3000.00
33	Die Sinking Machine	2 Nos.	3000.00
34	Pressing Machine / Forming Press	4 Nos.	3000.00
35	Oil Fired Reheating Furnace for Forgings with Control Temperature - size 5ft x 10ft	10 Nos.	3000.00
36	Machine Shop / Tool Room Machineries		
	12" to 18" Chuk High Productive Lathe Machine	20 Nos.	5000.00
	Miling Machine	14 Nos.	4000.00
	Radieal Drill Machine ½" to 1½"	16 Nos.	4000.00
	Slotting Machine	2 Nos.	1000.00
	Surface Grinder	4 Nos.	500.00
	Special Crank Shaft Grinding Machine	2 Nos.	1000.00
	Shapping Machine	4 Nos.	1000.00
	Verticle Boring Machine (2ft Chuk)	1 No.	1000.00
	Die Sinking Duplicating Machine	1 No.	3000.00
37	Electric / Oil Fired Heat tratment Furnaces with uniform temprature control for Annealing / Normalizing with extra Hearth - Capacity 10 MT	7 Nos.	3000.00
38	Tempering Furnace with Quenching Facilities	2 Nos.	2000.00
39	Shot Tumbler Machine	2 Nos.	500.00
40	Gas Cutting Machine	8 Nos.	250.00

Detailed description, specification with foundation drawings, layout plan and other infrastrucutre facilities required with competitive Prices, installation cost, terms & conditions against the above tender to be sent to :

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