

DHARMSINH DESAI UNIVERSITY

College Road, Nadiad. Pin : 387001, Gujarat, India.

FOUNDRY LABORATORY EQUIPMENTS/TOOLS REQUIREMENT FOR YEAR 2015-16 REF. TENDER NOTICE NO :

SR NO	EQUIPMENT NAME	EQUIPMENT SPECIFICATION	EQUIPMENT TO USE FOR	REQ. QTY.
1	Aluminium Alloy Melting Furnace	5 kg Capacity (Scooping Type) , 4KW	Melting of Aluminium metal	1
2	Oil Fired Lift out type Crucible Furnace with LAP type Burner, Blower, Electric Starter-2 Nos., Graphite Crucible and 20 Ltrs Oil Tank	For Melting 8 Kg. Aluminum Metal	Melting of Aluminium metal	1
3	Moulding Sand Sampler	As per foundry Standard requirement	It is use to collect the representative sand sample	1
4	Sand Splitter	Split housing with container suitable for preparation of AFS or DIN cylindrical specimen	It is use to collect the representative sand sample with proper mixing.	1
5	Sand Washer (Clay Content Tester)	Motor - 1/20 Hp Single Phase, Cycles – 50, Speed Regulator, Timer, Glass Jar, Syphon, Wash Bottle, Sieve - 53 Micron Dia. 100 mm.	It is use to find out clay % of raw sand	1
6	Methylene Blue Clay Tester	Stirrer - Magnetic Type, Titration Stand, Burette -50 ml. Methylene Blue Bottle, conical flask.	It is use to find out active clay % of sand.	1
7	Sand Siever with Sieve Set as per ISS No 53, 75, 106, 150, 212, 300, 425, 600, 850, 1700 Micron. Dia. 200 mm, Timer 0-15 Min	Motor - 1/8 Hp Single Phase, Cycles – 50	It is use to find out AFS [Fineness No.] of sand	1
8	Rapid sand Drier	Infra Red Lamp, 275 Watts, Drying Chamber Drying Pan	It is use to drying the sand sample	1
9	Liquid Limit	Includes Rubber Base, Sliding Carriage, Metallic Bowl, Gauge Block And Grooving Tool	It is use to find out liquid limit of Bentonite	1
10	Sand Muller (5 kg)	Capacity - 5 Kg [Batch], Motor with Gear Box 1/2 HP Single Phase/Three Phase, Scraper, Roller - 2 Nos. two ploughs, water sprinkling system	It is use to mixing mulling purpose of Green Sand	1
11	Sand Mixer (5 kg)	Capacity - 5 Kg [Batch], Motor with Gear Box 1/4 HP Single Phase/ Three Phase, Scraper - 2 Nos.	It is use to mixing for co2 sand, two parts No-bake sand.	1
12	Rapid Moisture Tester	Capacity 10 % Moisture With Single Pan Balance, Absorbent Compound And Carrying Case	It is use to determine moisture % in Raw sand and Green sand	1
13	Infrared Moisture Tester / Torsion Balance Moisture Tester	Capacity 10 gm Moisture With Single Pan Balance, Infrared lamp 250 w, Dimmer switch, Thermometer, On off switch, sample pan, reading window	It is use to determine moisture % in sand with dry and wet method	1
14	Sand Rammer	With Sliding Weight, Lifting And Ramming Cam, Specimen Tube, Pedestal Cup And Stripper	It is use to prepare standard sand specimen for further test.	1

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15	Attachment to Sand Rammer (15a to 15j)			
15a	Base Block	Compatible with Sand Rammer		1
15b	Tube Filler			1
15c	Tensile Core Box			1
15d	Transverse Core Box			1
15e	Split Specimen Tube			1
15f	Compatibility Tester			1
15g	Flow Ability Tester			1
15h	Co ₂ Gassing Accessory For Compression Specimen	Compression Specimen Holder With Gas Sealing Facility	It is a accessory to passing the co2 gas In Standard	1
15i	Co ₂ Gassing Accessory For Tensile Specimen	Tensile Specimen Holder With Gas Sealing Facility	It is used to prepare the standard specimen for	1
15j	Co ₂ Gassing Accessory For Transverse Specimen	Transverse Specimen Holder With Gas Sealing Facility	It is a accessory to passing the co2 gas In	1
16	Gang Core Box For Compressin Specimen	Core Box to prepare 5 compression specimen at a time	It is used to prepare the standard specimen for	1
17	Gang Core Box For Tensile Specimen	Core Box to prepare 5 tensile specimen one time	It is used to prepare the standard specimen for	1
18	Gang Core Box for Transverse Specimen	Core Box to prepare 5 transverse specimen at a time	it is used to prepare the standard specimen for	1
19	Permiability Tester	With Air Tank, Water Tank, Manometer Unit, Permeability Chart, 2 Orifices And Syphon Unit	It is use to determine porosity in Raw sand, Green, Nobake sand	1
20	Universal Strength Machine (Hydraulic)	Suitable For Compression Strength, Tensile Strength, Transverse Strength With The Help Of Attachment, Capacity: For High Gauge 13 Kg/Cm2 On Compression Scale, For Low Gauge 1600 Gms/Cm2 On Compression Scale With Compression Pads	It is use to determine Compression Shear, Tensile strength of Green sand and No-bake sand ,co2 sand.	1
21	Attachments To Strength Machine (21a to 21g)			
21a	High Dry Strength Attachments (For Hydraulic) Range 0-150 Kg/Cm2	Compatible with Universal Strength Machine (Hydraulic)		1
21b	Shear Sterngh Attachments			1
21c	Tensile Sterngh Attachments			1
21d	Transverse Sterngh Attachments			1
21e	Splitting Strength Attachments			1
21f	Twin Transverse Strength Attachments			1
21g	Deformation Attachments (Hydraulic)			1
22	Mould Strength Tester	With Dial Indicator with Special Tip to Measure Compression Strength on direct Mould. Capacity 2 Kg/cm2	It is use to determine compression strength of Mould.	1
23	Mould Hardness Tester ("B" Scale)	Dial Indicator To Measure Hardness of Mould 0 – 100 No	It is use to determine surface hardness of Green Mould	1
24	Mould Hardness Tester ("C" Scale)	Dial Indicator To Measure Hardness of Mould 0 - 100 No.	It is use to determine surface hardness of Green Mould	1
25	Core Hardness Tester	Harden Tip to Measure Hardness of Cores 0 To 100 No.	It is use to determine surface hardness of Core Mould.	1
26	Mouldability Tester	Sieve Drum, Timer, Infra Red Lamp, Pan & 9.5mm Sieve	It is use to determine the mouldability index of green sand.	1

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SR NO	EQUIPMENT NAME	EQUIPMENT SPECIFICATION	EQUIPMENT TO USE FOR	REQ. QTY.
	FOUNDRY TOOLS			
27	Cast Iron Moulding Box - 12" x 12" x 4"			4
28	Cast Iron Moulding Box - 14" x 15" x 4"			4
29	Cast Iron Moulding Box Rundle Type - 350 x 380 x 100 mm			4
30	Wooden Moulding Board			2
31	Strike off Bar			2
32	Runner Pin			2
33	Riser Pin			2
34	Gate Cutter			2
35	Smoother			2
36	Trowels			2
37	Hand Rammer			2
38	Spirit Level			2
39	Lifter			2
40	Heart and Square			2
41	Hand Riddle			2
42	Bucket			2
43	Draw Spike			2
44	Galvanized vent wire			2
45	2" Brush			2
46	Draw Screws and lifting plate			2
47	Electronic Weighing Balance (10 kg Capacity, 0.5 gm)			2
48	Shovel			2
49	Bellows			2
50	Wooden Mallet			2
51	Moulding Tool Kit Set of 29 Nos.			1
52	Medium weight rowing head with handle			2
53	Light weight rammed head			2
54	Sieve for sand of different sizes of mesh 3 sieves			2
55	Plastic Mug			2
56	Graphite Crucible no. 3			2

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SR NO	EQUIPMENT NAME	EQUIPMENT SPECIFICATION	EQUIPMENT TO USE FOR	REQ. QTY.
PATTERNS				
57	Flange Model (Aluminium)			2
58	Gland Model (Aluminium)			2
59	Bush Model (Wooden)			2
60	Gear Pattern (Aluminium)			2
61	Straight Pipe With Core Box (Split Type - Wooden)			1
62	Bend Pipe with Core Box (Split Type -Aluminium)			1
63	Cube Pattern (Wooden)			1
CONSUMABLES ITEMS				
64	Bentonite Powder			50 Kg.
65	Coal Powder			50 Kg.
66	Fire Clay Powder			50 Kg.
67	Core Oil (Linseed Oil)			20 Litre
68	Foundry Moulding Sand			10 tons
SAFETY EQUIPMENTS				
69	Fire Extinguisher , CO ₂ Capacity - 02 Kgs.			02 Nos.

TERMS & CONDITIONS :

- 1 Partly supplied quotations will not be considered.(Quotation for all above requirement is mandatory)
- 2 Supplied quotation should be included with all relevent taxes , Installation charges ,Transfortation Charges and any additional charges if applicable, F.O.R ,DDU ,Nadiad.
- 3 Payment terms and conditions should be as per university norms.
- 4 Delivery date for the required equipments should be clearly mentioned in the quotation.
- 5 Sealed quotation should be addressed to " **The Vice Chancellor , Dharmsinh Desai University , College Road , Nadiad ,Pin : 387001 ,Gujarat "**
- 6 Quotation should reach on or before **04.11.2015** to above said address.Late received quotation will not be considered.