

KOLHAPUR FOUNDRY & ENGINEERING CLUSTER

With reference to 24th April 2016 Tender Notice published in Maharashtra Times & Times of India for GSR, Water Tank, Screw Compressor, LPG system, Lab testing equipments etc. the technical specifications are as follow. For more technical assistance you may please contact to **Mr. Narendra Patil**, GM of Sand Reclamation Plant, GOSHIMA **on cell no. + 91 9850007004.**

Technically Specification for Item A

Sintex Water Tanks	Capacity- 5000 Ltrs-2Nos Over head mounted on office roof, Water piping from over head tank to unit as per attached water piping layout No- KFC02-100-303B along with Water piping DN40 / 1.1/2" & valve, vertical air Vent pipe, drain valve with piping for cleaning etc.
Storage tank	Capacity – 50,000 Liters Under ground near toilet block, Make up water piping dia.1" from regular Goshima water supply line to storage tank & overhead tanks with float valves in each tanks, Lifting water piping from storage underground tank to overhead tanks by 1" monoblock 1 H.P., 120lpm, 1"BSP connections, suction head 2-3meter with foot valve, suction hose, hose nipple, clamps, discharge head 8-12meter, with cut off starter by low / high sensors in mini control panel including low/high level sensors & its wiring.
NOTE: After completion of piping to be measured at an actual on site.	

Technically Specification for Item B

Screw compressor	Capacity- 2.57 M3 /Min. / 90-100 CFM Pressure- 6-7 Kg/cm2, Kw / H.P. - Approximate. 15Kw /20H.P, Air cooled, Suitable Air tank along with safety valve, pressure gauge 'U'pipe, With Drain valve with pipe, man hole etc.
Exhaust air Duct as per compressor Exhaust port, along with Drawings	
Air piping: Air piping from compressor to units as per attached air piping-Layout No- KFC02-100-302B	
NOTE: After completion of air piping to be measured at an actual on site.	

Technically Specification for Item C

- A) Providing LOT Cylinder Manifold Installation,
L.P.G. system along with piping as per attached Layout No- KFC02-100-301B,
- B) Supplies of LPG in Cylinders,

* After completion of Gas piping to be measured at an actual on site.

Considering Recommended Diesel Consumption is 50 Litters /Hr. & above data, Please send your offer for the same along with technical details & drawings, running maintenance cost, comparison chart against Diesel.

NOTE: After completion of air piping to be measured at an actual on site.

Technically Specification for Item D

Lab Testing Equipment

Sr. No	Equipments Descriptions
01	SAND SIEVER
	USE: It is use to find out AFS [Fineness No.] of sand Specifications: Motor - 1/8 Hp Single Phase, Cycles – 50, Sieve Set as per ISS No 53, 75, 106, 150, 212, 300, 425, 600, 850, 1700 Micron. Dia. 200 mm, OR (Sieves As Per Requirement) Timer 0-15 Min.,
A	ELECTRONIC BALANCE (0.1 gm – 1 kg)
03	SAND WASHER
	USE: It is use to find out clay % of raw sand. Specifications: Motor - 1/20 Hp Single Phase, Cycles – 50, Speed Regulator, Timer, Glass Jar, Siphon, Wash Bottle, Sieve - 53 Micron Dia. 100 mm.
04	OVEN
05	HOT PLATE
06	DISTIL WATER PLANT 4 LITRE
	TYPE: Wall Mount Type Metallic Fitted With Safety with Ejection Type Immersion Heaters, Steam Baffle Is Provided To Take Steam Direct To The Condenser. A Constant Water Level Arrangement Is Also Provided. MOC: Complete Heavy Gauge Stainless SAFETY: Low Water Cut-Off Automatic. HEATING ELEMENT: Immersion Type Heaters MOUNTING: Bracket POWER: 240 V AC ACCESSORIES: Power Cord with Standard 3-Prong Plug, Bracket, CONNECTING TUBINGS
07	MUFFLE FURNACE
	<u>Muffle Furnace Rectangular-</u> Specifications:- Max temp - UPTO 1160 ⁰ C, Rating -3.5 K.W, Thermal Fuse for safety & is controlled by digital temp indicator cum controller. Complete with on/off switch, indicators to work on 230V Ac.50H2.Single Phase. Chamber Size- 12"x06"x06"
A	CRUCIBLE (25 CC)
B	PAINTING BRUSH
C	ANALYTICAL BALANCE 0.001 gm TO 200 gm
08	BURETTE STAND
A	BEAKER 1000ml
B	CONICAL 250 ml
C	GLASS ROD



TECHNICAL DATA BURNER

Model			RLS 190/M MZ		
Burner operation mode			Modulating gas side (with regulator and probes accessories) / two stage oil side		
Modulation ratio at max. output			2 1 (oil) / 3 1 (gas)		
Servomotor	run time	type	SQN 31		
		s	33		
Heat output		kW	550/1100 2150		
		Mcal/h	473/946 1849		
Working temperature		°C min./max.	0/40		
Oil	net calorific value	kWh/kg	11,86		
	viscosity	mm ² /s (cSt)	4 6		
	delivery	kg/h	46/93 181		
Pump	type		J7 C		
	delivery	kg/h	230 (at 12 bar)		
Atomised pressure		bar	12		
Fuel temperature		max. °C	60		
Fuel pre-heater			NO		
G20	net calorific value	kWh/Nm ³	10		
	density	kg/Nm ³	0,71		
	gas delivery	Nm ³ /h	55/110 215		
G25	net calorific value	kWh/Nm ³	8,6		
	density	kg/Nm ³	0,78		
	gas delivery	Nm ³ /h	64/128 250		
LPG	net calorific value	kWh/Nm ³	25,8		
	density	kg/Nm ³	2,02		
	gas delivery	Nm ³ /h	--		
Fan		type	Centrifugal with straight blades		
Air temperature		max °C	60		
Electrical supply		Ph/Hz/V	3N/50/230-400~(±10%)3/50/230~(±10%)		
Auxiliary electrical supply		Ph/Hz/V	1/50/230~(10%)		
Control box		type	LFL 1.333		
Total electrical power		kW	6,0		
Auxiliary electrical power		kW	1,5		
Heaters electrical power		kW	--		
Protection level		IP	44		
Pump motor electrical power		kW	0,55		
Rated pump motor current		A	3,6		
Pump motor start up current		A	9,5		
Pump motor protection level		IP	54		
Fan motor electrical power		kW	4,5		
Rated fan motor current		A	15,8 - 9,1		
Fan motor start up current		A	126 - 72,8		
Fan motor protection level		IP	54		
Ignition transformer		type	--		
		V1 - V2	230V - 2x5 kV		
		I1 - I2	1,9A - 30mA		
Operation			Intermittent (at least one stop every 24 h)		
Sound pressure		dB (A)	85		
Sound power		W	--		
Oil	CO emission	mg/kWh	< 10		
	grade of smoke indicator	N° Bacharach	< 2		
	CxHy emission	mg/kWh	< 2		
	NOx emission	mg/kWh	< 185		
G20	CO emission	mg/kWh	< 10		
	NOx emission	mg/kWh	< 120		
Directive			73/23 - 89/336 - 90/396 EEC		
Conforming to			EN 267 - EN 676		
Certification			CE - 0085BP0439		

Reference conditions:

Temperature: 20°C - Pressure: 1013 mbar - Altitude: 100 m a.s.l. - Noise measured at a distance of 1 meter.

