



**Y.S.R. ENGINEERING COLLEGE
OF YOGI VEMANA UNIVERSITY
PRODDATUR-516360, YSR (Dt.)
Ph:08564-254770, 254771 (F)**

No: YSREC/ME & MMT/Foundry Lab/2014

13.11.2014

From
The Principal

To
The Dealers/Suppliers

Sir,

Sub: Y.S.R. Engineering College of Yogi Vemana University, Proddatur-Procurement of Foundry Lab (Sand Testing) equipments—Call for quotations-Requested-Reg.

You are requested to send your lowest quotation in duplicate towards the supply of Foundry Lab (Sand Testing) equipments with the specifications as listed below. The quotations should be in the name of **“the Registrar, Yogi Vemana University, Vemanapuram, Kadapa- 516 003, Y.S.R. Dist., A.P”**. It should reached to “The Registrar, Yogi Vemana University, Vemanapuram, Kadapa—516003, Y.S.R. Dist., A.P”.on or before 28th November 2014 by speed post or registered post.

The sealed quotation should invariably be super scribed as **“Kind Attention to Y.S.R. Engineering College of Yogi Vemana university, Proddatur: Quotation – Foundry Lab, Enquiry No: YSREC/ME & MMT/Foundry Lab/2014 dated 13.11.2014, Due Date: 28th November, 2014”**. You are also requested to send the catalogues if any. Quotations include terms & conditions, unit price, taxes, warrant period, validity of quotation, payment mode, etc.

Thanking You,

Yours faithfully,

Sd/-

PRINCIPAL

Copy to

1. Web Committee, Yogi Vemana University, Kadapa with a request to place the call letter in the website of Yogi Vemana University.
2. P.A. to Hon’ble Vice-Chancellor, Yogi Vemana University, Vemanapuram, Kadapa for information.
3. P.A. to The Registrar, Yogi Vemana University, Vemanapuram, Kadapa for information.

**Specifications of Foundry (Sand Testing) Laboratory
Instruments & Accessories**

S.No.	Description of the Item	Quantity
1.	<p>SIEVE SHAKER MODEL VGH consists of sieving mechanism, to accommodate 10 Nos.of sieves of 200 mm.dia.& 35 mm. height, working on 230 V., 50 cycles A.C. Supply and suitable timer, with the following set of sieves.</p> <p>SET OF SIEVES set of sieves 200 mm dia & 35mm.height of each sieve consisting of ISS No. in microns 1700,850,600, 425, 300,212, 150,106,75,53 with lid & receiving pan.</p>	01
2.	<p>CLAY WASHER MODEL VCW consists of stirrer with FHP motor, glass jar, syphon, timer unit, 53 mic. sieve and wash bottle working on 230 V., 50 cycles A.C.supply.</p>	01
3.	<p>PERMEABILITY METER MODEL VP consists of air tank, water tank manometer unit, permeability chart, two orifices rubber seal and syphon.</p> <p>ACCESSORIES</p> <p>(a) MOULD PERMEABILITY TESTER MODEL VPR consists of adaptor, measuring head & tube to read relative permeability directly on moulds.</p> <p>(b) CORE PERMEABILITY TUBE MODEL VD consists of sealing tube and air pump, to read the permeability of dried specimen</p> <p>(c) BASE PERMEABILITY MODEL VBP consists of standard specimen tube and two screen plates, to read the permeability of raw sand.</p>	01
4.	<p>SAND RAMMER MODEL VR consists of calibrated sliding weight actuated by cam, one specimen tube, one cup, one stripper to prepare the standard specimen of 50 mm diameter, 50 mm height.</p> <p>ACCESSORIES:</p> <p>(a) BASE BLOCK MODEL VRB To mount sand rammer for uniform ramming of specimen.</p> <p>(b) TUBE FILLER ACCESSORY MODEL VTF consists of base plate to accommodate specimen tube with cup, supporting base & funnel. Sieve 3.35mm., 130mm diameter.</p> <p>(c) TRANSVERSE BOX MODEL VTB consists of split core box to get specimen of 5cm square, cross sectional area, base plate, hopper and plunger to match the shape of the core box.</p> <p>(d) TENSILE CORE BOX MODEL VCB consists of dumbbell split core box to get specimen of 5 cm, cross sectional area, base plate, hopper and plunger to match the shape of the core box.</p> <p>(e) SPLIT SPECIMEN TUBE MODEL VST consists of split tube for 50mm diameter specimen, locking rings and two drying plates.</p> <p>(f) COMPACTIBILITY TESTER MODEL VCT consists of special specimen tube and compactibility scale, knife.</p> <p>(g) FLOWABILITY METER MODEL VF consists of a Dial to read percentage of flowability of green sand, arrangement to swivel the Dial.</p>	01
5.	<p>UNIVERSAL SAND STRENGTH MACHINE (PENDULUM TYPE) consists of frame, pendulum, movable arm, loading wheel arrangement to lift the pendulum, scale magnet and set of compression pads, compression range green upto 1350 gms/cm² and dry upto 6750 gms/cm².</p>	01

	<p>ACCESSORIES:</p> <p>(a) SHEAR STRENGTH ATTACHMENT MODEL VPS consists of two shear pads to fix on VUM, range upto 5300 gms/cm²</p> <p>(b) TRANSVERSE STRENGTH ATTACHMENT MODEL VPA consists of specimen holder and knife edge, range upto 6750 gms/cm².</p> <p>(c) TENSILE STRENGTH ATTACHMENT MODEL VPE consists of specimen holder assembly, aligning pin, range up to 3375 gms/cm².</p> <p>(d) SPLITTING STRENGTH ATTACHMENT MODEL VPL consists of two splitting pads, range up to 1080 gm/cm²</p> <p>(e) HIGH DRY STRENGTH ATTACHMENT MODEL VPH consists of holder assembly to read Compression upto 20Kg/cm².</p>	
6.	<p>RAPID MOISTURE TESTER MODEL VM consists of single pan balance, spoon, 500 gms of absorbent compound in polythene bottle, moisture meter capacity 10% complete in carrying case.</p>	01
7.	<p>SHATTER INDEX TESTER MODEL VSI consists of base, pillar, ejection mechanism, anvil, Brass sieve pan.</p>	01
8.	<p>CORE HARDNESS TESTER MODEL VCH consists of carbide tipped plough, dial indicator to read hardness of dry core from 0 to 100.</p>	01
9.	<p>MOULD HARDNESS TESTER B SCALE MODEL VMH (B) consists of dial indicator to read hardness of mould from 0 to 100.</p>	01
10.	<p>SAND WEIGHING SCALE FOR SAND RAMMER Beranger Model Counter Scale of 2 Kg capacity and weight set of 5g to 1 kg (10 Nos. per set)</p>	01
11.	<p>SAND WEIGHING SCALE FOR RAPID DRIER, SAND WASHER & SIEVE SHAKER Sand Weighing Scale for Rapid Drier, Sand Washer & Sieve Shaker as per ISS No.1433-1965 capacity 200 gms.</p>	01
12.	<p>Table top Ultrasonic Cleaner Make : LIFECARE "Fast Clean" Model : EN-50-US Capacity : 5 liters Tank size : 8"x8"x 5" (H)</p> <p>Technical Specifications : Ultrasonic power : 120 Watts Ultrasonic Frequency : 33 + 3 KHz Tank Material : SS 304 Enclosure : SS Lid & basket : SS 304 Ultrasonic Generator: High Frequency Built in MOSFET/ IGBT based\SMPS. U/s Transducer : Imported PZT Sandwich type bonded at the bottom of the tank. Input Supply : 230 VAC, ± 10% single phase, 50Hz</p> <p>Control panel consisting of : 1. Timer : 0 – 99 Minutes Digital count down with display. 2. Auto Degassing : Preset 10 minutes 3. PSP : Pulse Sweep Power for Uniform distribution of Ultrasonic energy. 4. Heater : With digital temperature controller upto 60° C</p> <p>Standard Accessories: Basket : 1 No. Input Cord : 1 No. Lid : 1 No. Operating Manual : 1 No.</p>	01

13.	<p>Laboratory based crucible type tilting furnace for Aluminum melting</p> <p>Specifications: Working Size : 600 X 600 MM Operating Temperature : 1000° C Power : 2 KW / Single Phase - 240V</p> <p>Construction : Out side chamber is fabricated with M.S and in the front side, 3mm thick plate is provided. Inside, ceramic wool insulation is provided for power saving and for fast rise in Temperature. Kanthal A1 Heating element is used for high temperature, rested on closed ceramic boards in Crucible.</p> <p>Electrical Control Panel: Micro process based – Digital Temperature Controller with ‘K’ type Sensor and adjustable Hystoresis Control, Power Contactor, Control Switches, connectors, Indication lamps, etc.,</p>	01
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