

Rajiv Gandhi Institute of Technology, Kottayam

No. D1/8030/17/RIT

Dated: 13.06.2018

TENDER SCHEDULE

Superscription	: Tender No. D1/8030/2017/RIT
Last date and time receipt of tender	: 19/07/2018 1 pm
Date and time of opening of tender	: 19/07/2018 3 pm
Last date and time of sale of tender form	: 18/07/2018 1 pm
Date upto which the rates are to be firm	: 31/05/2019
Cost of tender form	: Original Rs. 1008/- Duplicate Rs. 560/- By Post Rs. 35/- Extra
Address of the Officer from whom Tender Forms are to be obtained to whom tenders are to be send	: THE PRINCIPAL, Rajiv Gandhi Institute of Technology Velloor P. O, Pampady Kottayam - 686501

List of Items Required

Details of items	Quantity
1 Detailed Specification attached	

PRINCIPAL

LIST OF ITEMS

Sl. No.	Details & Technical specification of Items	No. of Items
1	<p><u>Steel Moulds</u> confirming to IS 10086:1982</p> <p>Cube moulds - 20X20X20 cm size</p>	6
2	<p><u>Steel Mould</u> for making specimens to test shrinkage of concrete</p> <p>Made of steel or cast iron</p> <p>size 7.5 cm X 7.5 cm X 28.5 cm with smooth reference points single compartment type</p> <p>Dimensional tolerance confirming to IS 10086:1982</p>	6
3	<p><u>Air entrainment meter</u> to check the air content of fresh concrete having aggregates of size upto 20 mm as per IS 1199, using pressure method.</p> <p><u>Measuring Bowl</u> :- Flanged, cylindrical bowl of steel or hard metal, Capacity 5 litre, Diameter/height : 1 to 1.25</p> <p><u>Conical Cover Assembly</u>:- Flanged cover of steel or hard metal, Fitted with graduated stand pipe. Fitted with pressure gauge, Arrangement for sealing, Fitted with air and water valves.</p> <p>Pressure Range : Minimum: 0.5 kg/m³, Maximum: 2 kg/m³</p>	1
4	<p><u>Digital length Comparator</u>, for measuring the shrinkage of concrete and mortar specimens of length 28.5 cm</p> <p>Confirming to ASTM C490. Having dial micrometer or other measuring device graduated to read in 0.002 mm or less.</p> <p>Maximum range: at least 8 mm. Provided with reference bar.</p>	1
5	<p><u>Tile Abrasion Testing Machine confirming to IS:1237</u></p> <p>Diameter of horizontally fixed smooth grinding disc - 750 mm (min)</p> <p>Material for grinding path - Cast iron</p> <p>Scale hardness of grinding path - 30 to 50</p> <p>Grinding path - 200 mm wide annular space on the grinding disc between distances of 120 and 320 mm from centre</p> <p>Rotating disc revolving rate - 30± 1 rpm</p> <p>With proper mechanism to hold the specimen</p> <p>Loading - net load on the specimen 300 N; permissible deviation-1%</p>	1

	Supplied with minimum 1 kg of abrasive chare (having aluminium oxide content not less than 95% by mass and gradation as per IS 1237) and thickness measuring device capable to measure thickness to an accuracy of 0.01 mm.	
6	<u>Concrete Penetrometer</u> to determine the setting time of concrete by penetration resistance as per IS 8142 - 1976. Pluggger graduated in 1 Kg divisions, Maximum capacity 60 Kg, Supplied with sox needle points with areas 645, 323, 161, 65, 32 and 16 mm ² .	1
7	<u>Digital Demountable Mechanical Strain Gauge (Digital demee gauge)</u> Suitable for use on a loading member, Portable, Demountable measuring head, Gauge lengths - 150 mm, Supplied along with Reference Test Bar and digital dial gauge 0.001X25mm.	1
8	<u>Vicat Apparatus</u> for determining the consistency of standard cement paste, initial and final setting times of cement as per IS 5513 Provided with plunger for determining the standard consistency and needles for measuring initial and final setting times of cement. Thr product should have BIS certification marking.	3
9	<u>Pycometer</u> to measure the specific gravity of aggregates as per IS 2386 Part III Made of glass, fitted with rubber washer, screw ring, brass conical top having 6 mm diameter hole at top.	12