

Rajiv Gandhi Institute of Technology, Kottayam

No. D3/3047/16/RIT

Dated: 24.01.2017

TENDER SCHEDULE

Superscription	: Tender No.D3/3047/16/RIT, purchase of various equipments for augumenting the testing facilities, in the Traffic Engineering/Pavement Lab and Material Testing Lab in the QIP research centre under Civil Engg.Department
Last date and time receipt of tender	: 14/02/2017 2 p.m
Date and time of opening of tender	: 18/02/2017 2 p.m
Last date and time of sale of tender form	: 14/02/2017 11 a.m
Date upto which the rates are to be firm	: 31/07/2017
Cost of tender form	: Original Rs.6,510/- include VAT 5% Duplicate Rs.Nil By Post Rs.Nil
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, KERALA, PIN - 686 501

List of Items Required

<u>Details of items</u>	<u>Quantity</u>
1 List attached	

PRINCIPAL

List of equipments required

Equipments required for the Traffic Engineering/Pavement Engg. Lab, CE Department

Sl.No	Item	Specification	Quantity
1	Digital video camera with accessories including tripod and battery	Video Camera HD, video code compatible with MPEG4; internal flash memory not less than 64GB; 12X optical zoom, 160X digital zoom; LCD display screen, built in zoom microphone; still image resolution not less than 24 megapixels; mass not exceeding 500g; Accessories: AC adaptor, rechargeable battery pack, carrying case, adjustable tripod with 3ways pan head function	2 nos
2	Handheld Directional Speed Radar	Stationary hand held directional Doppler radar with accuracy ± 1 km/h, LCD display with backlight, User selectable direction modes (towards, away, or both directions), faster target selection, Speed measuring range- 20-337 km/h, Power-Source - Six (6) AA NiMH batteries or detachable +12 VDC power cable with lighter plug	1 no
3	GPS unit	Handheld GPS unit with camera- Integrated high sensitivity GPS/SBAS receiver & antenna capable to record Longitude, Latitude, and Altitude, processor-800 MHz (minimum), memory-256 MB RAM (minimum), 2 GB flash Memory (minimum), Support microSD card up to 32 GB, Display-3.5 inch diagonal length, Integrated Camera-5 megapixel resolution (minimum) with auto focusing and geo-focusing facility, battery- Minimum 10 hours with GPS on, Removable & Rechargeable Li-Ion Battery.	1 no
4	Vacuum degassing oven	Standards to be met: ASTM D 6521-05 & AASHTO R 28-06. Bench top unit with stainless steel construction and standard dimensions. Holds up to (4) specimen containers and specimen removal tool maintained automatic vacuum system. Illuminated Pre-heat, Degas and End/ Stop Buttons, High Precision Controller featuring a digital display indicating time, temperature and the current stage of each process Audible and Visual alarm, indicating end of process Maintains temperature up to 170° C with an accuracy of $\pm 5^\circ$ C. Pressure Gauge indicated in both kPa and in.Hg Operating Pressure - Adjustable from 15 KPA to Atmosphere. Temperature Range 175°C $\pm 5^\circ$ C. Temperature Control Resolution 0.1° C. Test Temperature Uniformity $\pm 5^\circ$ C	1 no

Equipments required for the M.T Lab of CE Department

5	Wenner resistivity meter to assess the surface resistivity of soil and concrete, capable to use in both laboratory and outdoor environment; 50 mm probe spacing; fully integrated unit; digital display with measured resistivity and battery status; Measuring range 0 to 200k Ω cm (minimum); test strip and form contact should be provided along with the major unit	1 no
6	Electrically operated Core cutter with drill bits; heavy duty core cutter capable to take cores from bituminous and concrete roads, and reinforced concrete structures in vertical and horizontal positions; having diamond coated drill bits of diameter 30 mm; 70 mm; and 100 mm and length more than 50 cm.	1 no
7	Ultra sonic Pulse Velocity Tester to assess non-destructively the voids or cracks in concrete structures, works by transmission, transducer access from two sides; supplied along with a minimum of two P wave transducers of 54k Hz, capable to test concrete; capable to operate in conditions upto 90% RH and 40° C; digital display; pulse voltage 100-450 Vpp; having internal memory of minimum 4GB	1 no
8	Concrete cover meter capable of re bar localisation, cover measurement and diameter estimation; Digital display; capable to measure cover upto or more than 150 mm with an accuracy of ± 5 mm; capable to measure re bar diameter upto 25mm; at an accuracy of \pm one diameter capable to work both indoor and outdoor, at 90% RH; cover location at depth more than 150 mm and rebar diameter above 25 mm is desirable.	1 no
9	Compression testing machine Capacity 3000 kN capacity conforming to IS 14858: 2000, fully calibrated as per NABL with ± 1 % accuracy; preferably with digital display; suitable for testing both cement mortar and concrete cubes and cylinders of various sizes; supplied along with loading platens; electrically operated in single phase; 230 V	1 no