

INSTITUTE OF TECHNOLOGY, KORBA (C.G.)
 Schedule of Requirements : Civil Engg. Laboratory Equipment
 Package No. :
 Package Name : Enviornmental Engg. Lab

| S. No. | Code | EQUIPMENT REQUIRED | DETAILS OF SPECIFICATION | QTY. |
|--------|----------|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1 | C_ENV_01 | Digital Microscope | <p>Item S.No. 01, Code C_ENV_01 equipment required Digital Microscope, the following specification should be quoted</p> <p>Microscope: Microscope of standard make with objective lense 4X,10X,40X&100X power with 10X eyepiece lense. BINOCULAR RESEARCH MICROSCOPE VISION PLUS Magnification : 40x to 1000x Obsevation Head : Binocular 45°, 360° rotatable, with interpupillary and dioptre adjustment Stand : Sturdy and durable pressure die cast aluminium stand Mechanical Stage : Co-axial low drive double plate mechanism system travel on ball bearing guid ways. Focusing system : Co – axial coarse & fine focusing system supported on ball bearing Illumination : The illuminator incorporated 3W LED lamp and has adjustable brightness. Quadruple Nose piece : Quadruple ball bearing Nose piece with click stops. Substage Condenser : Abbe type N.A. 1.25 with iris diaphragm for resolution and contrast control</p> | 1 |

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H.O.D. Civil Engg.



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| 20 | C_EG_20 | resistivity meter | <p>Item S.No. 20, Code C_EG_20 equipment required resistivity meter, the following specification should be quoted</p> <p style="text-align: center;">Transmitter : 400 V – 125 W – 2A</p> <p>Accuracy</p> <ul style="list-style-type: none"> • 24 bit voltage and current measurements • Noise monitoring before injection • SP compensation including linear drift • Digital stacking for noise reduction • Standard deviation computation <p>Reliability</p> <ul style="list-style-type: none"> • Shock resistant case • Protection From Solar Radiation, Lightning, Current Leakage, Temperature, Humidity, Voltage/current Fluctuation <p>Data Interpretation Software</p> <ul style="list-style-type: none"> • IX1D or WINSEV (PC), for electrical sounding interpretation (horizontally layered earth hypothesis) • RES2DINV for pseudo-section inversion to true resistivity 2D section • RES3DINV (PC) for resistivity inversion of 3D surveys <p>Output Current Specifications</p> <ul style="list-style-type: none"> • Current upto 2A • Voltage up to 400V (800V peak to peak) • Power up to 125 W • Selectable cycle time of 0.25, 0.5 , 1, 2, 4 or 8s • Current measurement precision: 0.5% | 1 |



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| | | | Input Voltage Specifications <ul style="list-style-type: none"> • Automatic ranging and calibration • Input impedance : 50 MΩ • Rejection filters for 50 Hz and 60 Hz >95dB • Voltage measurement precision: 0.1% • Noise reduction: continuous stacking • SP compensation through linear drift correction • Resistivity accuracy: 1% • Chargeability (IP) optional • Resistance Range 10⁻⁵ to 10⁴ Ohms General Specifications <ul style="list-style-type: none"> • Error Signal for Poor Current and Potential electrode grounding and Discontinuity • USB Link for data download • Data memory : 16GB • Power supply: Receiver (Rechargeable Lithium Ion), Transmitter - internal rechargeable 12V, 7 AH battery or external 12V car battery • Emergency push button for Security • Weight: ~10 kg | |

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