

## University of Technology (Shuhada-e-APS), Nowshera

### Comparative Statement of Civil Labs Equipment Tender-009

Conversion rates as on 17.06.2021 under rule 39 of KPPRA (SBP selling rates) (opening date 24.06.2021)			USD	156.9416	EURO	188.2119		
S. No	Equipment	Qty	Bidders/Firms	Bidders/Firms quoted Price		Conversion into PKR (Total)	Lowest quoted value in PKR	Lowest Bidder/Firm
				Unit Price in FOREX	Total Value in FOREX			
<b>1. Fluid Mechanics Lab</b>								
1.1	<b>Francis Turbine:</b> Construction: 65 mm diameter bronze runner. Adjustable guide vanes. Hardened stainless steel shaft. Non-corrosion metal casing with transparent window. Ratings: Maximum speed approx. 3400 rpm. Maximum power over 25 W. Instruments Pressure: 0-3 kg/cm <sup>2</sup> pressure gauge. Torque: measured with spring balances. Speed: Portable tachometer. Flow rate: by water meter. Complete with frame.	1	M/S Cosmos Science Corporation (USD)	6,500	6,500	1,020,120	1,020,120	M/S Cosmos Science Coporation
1.2	<b>Pumping System:</b> Pump: 0.37 kW centrifugal pump with a maximum flow rate over 80 lpm. Bench top dimensions: 126 cm long x 77 cm wide. Open channel: 70 cm long x 25 cm wide x 17 cm deep. Measuring tank: Low flow 10 l, high flow 45 l. Main storage tank: 165 l. Power supply: 220 V, 1 Ph, 50 Hz. The unit in on a steel frame on wheels.	1	M/S Cosmos Science Corporation (USD)	3,400	3,400	533,601	533,601	M/S Cosmos Science Coporation
1.3	<b>Hydraulic Ram Pump Apparatus:</b> Pump material: Stainless steel. Reservoir: 150 mm diameter tank. Graduated cylinder: 1500 ml Adjustable supply head: up to 1000 mm Adjustable delivery head: up to 2000 mm. Complete with frame.	1	M/S Cosmos Science Corporation (USD)	2,200	2,200	345,272	345,272	M/S Cosmos Science Coporation
1.4	<b>Pelton Wheel Turbine:</b> Construction: 160 mm diameter stainless steel runner. Stainless steel nozzle, and shaft. Stainless steel casing with transparent window Ratings: Maximum speed approx. 1800 rpm Maximum power over 40 W. Instruments Pressure: 0-3 kg/cm <sup>2</sup> pressure gauge. Torque: measured with 2 spring balances. Speed: Portable tachometer. Complete with frame.	1	M/S Cosmos Science Corporation (USD)	4,600	4,600	721,931	721,931	M/S Cosmos Science Coporation
1.5	<b>Dead Weight Pressure Gauge:</b> Pressure gauge: 4 in. Bourdon tube, 0-3 kg/cm <sup>2</sup> / 0-30 N/cm <sup>2</sup> Piston cross-section: 250 mm <sup>2</sup> Piston weight: 0.5 kg Calibration weights: 1x0.5 + 2x1.0 + 2x2.0 kg.	1	M/S Cosmos Science Corporation (USD)	1,050	1,050	164,789	164,789	M/S Cosmos Science Coporation
<b>Total</b>		<b>5</b>	<b>-</b>	<b>17,750</b>	<b>17,750</b>	<b>2,785,713</b>	<b>2,785,713</b>	<b>-</b>

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<b>2. Environmental Engineering Lab</b>								
2.1	<b>Digital pH and Conductivity /TDS Meter and Thermometer:</b> Combination pH / EC / TDS tester / thermometer Temperature in °C or °F EC (Electrical Conductivity) in micro-Siemens TDS (Total Dissolved Solids) in ppm Measurement Stability Indicator Replaceable pH Electrode Automatic pH Calibration at standard and NIST Buffer Sets Automatic Temperature Compensation (ATC) Adjustable Temperature Coefficient Factor Rugged, Floating Waterproof Casing Range and accuracy: pH: 0-14±0.05 pH. Electric Conductivity (TDS) :0 to 3,999 µS/cm (0-2000ppm/cm) ±2% full scale. Temperature 0.0 to 60.0 ±0.5 °C Resolution: pH: 0.01 Electric Conductivity (TDS) :1µS/cm (1 ppm/cm). Temperature :0.1 °C.	1	M/S Intermark (Pvt) Ltd (USD)	1,598	1,598	250,793	250,793	M/S Intermark (Pvt) Ltd
2.2	<b>Portable Turbidity Meter:</b> Ranges: In automatic range mode: 0-9.99, 0-99.9 and 0-1000 NTS. Dimension: 22.2x9.5x8.9 cm.	1	M/S Intermark (Pvt) Ltd (USD)	1,720	1,720	269,940	269,940	M/S Intermark (Pvt) Ltd
2.3	<b>B.O.D. Apparatus:</b> Range: 0 - 700 mg/L Selectable: 0 - 35, 0 - 70, 0 - 350, or 0 - 700 mg/L BOD (Biochemical Oxygen Demand), Drift: < 3 mg/L BOD in 5 days. 6x473-ml amber glass BOD bottles, Power supply 115/230V, Power cords, 6x magnetic stir bars.	1	M/S Intermark (Pvt) Ltd (USD)	2,653	2,653	416,366	416,366	M/S Intermark (Pvt) Ltd
2.4	<b>C.O.D Apparatus:</b> Complete kit with COD Digester, COD Titrator, COD Vessels and Air Condensers. Glass Tube 38mm dia, 15 nos (5x3 rows), Sample Volume 20ml. Each. Temp. Range above ambient to 180 deg.C or higher.	1	M/S Intermark (Pvt) Ltd (USD)	1,692	1,692	265,545.19	265,545	M/S Intermark (Pvt) Ltd
2.5	<b>Incubator with Fan:</b> Temperature range: 0 to 45° C. Temperature uniformity: ±0.5 @ 20° C. Ext. Dimension: 48x53x95 cm.	1	M/S Intermark (Pvt) Ltd (USD)	3,980	3,980	624,628	624,628	M/S Intermark (Pvt) Ltd
2.6	<b>Autoclave:</b> Temp range 105°C to 138°C, Chamber Volume 120 Liter to 310 Liter.	1	M/S Intermark (Pvt) Ltd (USD)	7,844	7,844	1,231,050	1,231,050	M/S Intermark (Pvt) Ltd
2.7	<b>Analytical Balance:</b> 210g x 0.1mg.	1	M/S Intermark (Pvt) Ltd (USD)	1,836	1,836	288,145	288,145	M/S Intermark (Pvt) Ltd
2.8	<b>Digital Drying Oven:</b> 100 Liters, 200°C Temperature.	1	M/S Intermark (Pvt) Ltd (USD)	1,988	1,988	312,000	312,000	M/S Intermark (Pvt) Ltd
<b>Total</b>		<b>8</b>		<b>23,311</b>	<b>23,311</b>	<b>3,658,466</b>	<b>3,658,466</b>	

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<b>3. Concrete Lab</b>								
3.1	<b>Concrete Vibrating Table:</b> 80 x 40 cm. EN 12390-2. To facilitate compaction of concrete in the moulds. Vibrating surface 80 x 40 cm with rubber mat, electric vibrator 3,000 vibrations per minute. Pedal switch to start/stop vibration.	1	M/S Cosmos Science Corporation (EURO)	625	625	117,632	117,632	M/S Cosmos Science Coporation
3.2	<b>Heavy Duty Digital Balance:</b> (300 kg). Platform: 60 x 45 cm. Zeroing or caibrating key.	1	M/S Cosmos Science Corporation (EURO)	690	690	129,866	129,866	M/S Cosmos Science Coporation
3.3	<b>Air Entrainment Meter:</b> ASTM C 231 EN 12350-7. Used to determine the air content of fresh concrete, it comprises a sealed vessel of 5-liter capacity. Lid with fast-closing system incorporates a pressure gauge (0-2.5 bar). Range of measurement 0-10%. Graduated scale (0.1% divisions). With tamping rod and air pump. Supplied with calibration certificate.	1	M/S Cosmos Science Corporation (EURO)	850	850	159,980	159,980	M/S Cosmos Science Coporation
3.4	<b>Compressometer/Extensometer:</b> High sensitivity: 0.02 micron. Suitable for various sample size: cylinders up to dia. 160x320mm, cubes up to 200 mm, prisms 40x40x160 mm etc.	1	M/S Cosmos Science Corporation (EURO)	4,000	4,000	752,848	752,848	M/S Cosmos Science Coporation
3.5	<b>Moulds Cylinder:</b> 15 cm x 30 cm. EN 12390-1 ASTM C 31 ASTM C 192 BS 1881 DIN 51229 NF 18-400.	20	M/S Cosmos Science Corporation (EURO)	150	3,000	564,636	564,636	M/S Cosmos Science Coporation
3.6	<b>Sieve Shaker Electromagnetic:</b> UNI EN 932-5 ISO 3310-1. Houses up to 12 sieves diameter 200 mm plus pan and cover or 10 sieves diameter 300 mm plus pan and cover. Timer from 0 to 20 minutes. Variable vibration intensity Adjustable sieving modes: continuous or intermittent. Sieving duration and pauses are programmable.	1	M/S Cosmos Science Corporation (EURO)	1,150	1,150	216,444	216,444	M/S Cosmos Science Coporation
<b>Total</b>		<b>25</b>	<b>0</b>	<b>7465</b>	<b>10315</b>	<b>1941405.749</b>	<b>1941405.749</b>	<b>0</b>
<b>4. Surveying Lab</b>								
4.1	<b>Reflector Less Total Station:</b> Accuracy 5 second, 1 second reading double side display, GRAPHICAL DISPLAY both side screen. Range without prism 500 meters and with prism 3000 meters, memory 60,000 points, SD memory card, magnification 30X, aperture 45mm, laser plummet, electronic bubble and tube bubble in main body, with following surveying program ( RDM, reference point distance, MLM, area, stake out, point coordinates, circle radius, Liner arc intersection, road design, point to line, rectangular coordinate, VPM, COGO function) complete in case with standard accessories, aluminum tripod, single prism target set, with triple prism target set with optical plummet and its tripod.	5	M/S Asia Geomatics (USD)	8,200	41,000	6,434,606	6,434,606	M/S Asia Geomatics
<b>Total</b>		<b>5</b>		<b>8,200</b>	<b>41,000</b>	<b>6,434,606</b>	<b>6,434,606</b>	

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<b>5. Geotechnical Lab</b>								
5.2	<b>Direct Shear Machine:</b> ASTM D 3080 BS 1377:7 UNI CEN ISO/TS 17892-10. For 6 cm/side specimen, Variable speed from 0.00001 to 12 mm/min, Max force: 6 kN. All made in stainless steel. Sample cutter 6x6 cm, INOX. Calibrated weights 31.5kg. Brass made shear box 6x6 cm with silicon carbide porous discs. Bidirectional Load Cells of 5 kN capacity, 2 Potentiometric displacement transducers of 25 mm travel, Individual digital display unit of every parameter, Multiplexer with 3-way connector block and window based data acquisition program and processing software for Direct and Residual shear, Different speeds may be selected for forward and reverse drive, Displacement movements: 0.03 µm, Rapid approach speed (unloaded): 12 mm/min, Forward/reverse cycles: programmable up to 20 mm, Number of cycles: no limit to number which may be programmed, Microswitches prevent piston overtravel and dynamometer overload, Leverage system allows applied weights to be amplified by 10, 9, 7.92 and 6.125. A small handwheel serves to sustain/release the vertical load.	1	M/S Cosmos Science Corporation (EURO)	9,500	9,500	1,788,013	1,788,013	M/S Cosmos Science Coporation
5.2	<b>Sieve Shaker Electromagnetic:</b> UNI EN 932-5 ISO 3310-1. Houses up to 12 sieves diameter 200 mm plus pan and cover or 10 sieves diameter 300 mm plus pan and cover. Timer from 0 to 20 minute. Variable vibration intensity. Adjustable sieving modes: continuous or intermittent. Sieving duration and pauses are programmable.	1	M/S Cosmos Science Corporation (EURO)	1,150	1,150	216,444	216,444	M/S Cosmos Science Coporation
5.3	<b>Triaxial Testing Machine For (UU,CU,CD) Tests:</b> BS 1377:7 BS 1377:8 ASTM D 2850 ASTM D 4767 UNI CEN ISO/TS 17892-8 UNI CEN ISO/TS 17892-9. Triaxial Load Frame, Maximum capacity in compression and tension 50 kN, Continual speed selection between 0.00001 and 12 mm/min, Precise constant response, irrespective of load, Rapid approach/unloading speed 12 mm/min, Useful piston travel 100 mm, Accepts triaxial cells for samples up to 100 mm diameter electronic control console located in protected functional position, can be separated from machine, Visible micro-switches to prevent piston over-travel, Predisposition for command of micro-switch on load ring or electronic load cell, Maximum Vertical Clearance: 910 mm, Horizontal Clearance: 440 mm, Lower platen diameter: 160 mm and Weight: 140 kg. Stress and strain measurement 2 kN Proving Ring Complete with Calibration Certificate Dial Gauge, Precision 0.01 mm. Triaxial Cell holds Specimens up to 76.2 mm. Complete set of accessories for Specimen 38.1 mm. Pore Pressure Measurement, Digital Gauge 10bar, De-airing Block for Pressure Transducer. Volume Change Measurement Device made of bronze with a measurement capacity of 100 cc, supplied with 2 rolling membranes, Maximum working pressure: 1000 kPa and Weight: 6.5 kg. Dial Gauge, Precision 0.01 mm. Constant Pressure Sources Bladder Air-Water Cylinder (10 Bar) with Valve and Connectors (2 Required), Manometer 0 - 10 Bar with Support Column, Base and Valves, Bladder Sealing Ring Placing Tool, Pack of 6 Bladders, Silent Air Compressor - Silencer (63 dB) 10Bar - 3 Liters Tank, Capacity 340 l/min With Secondary Tank 50 Liters - 15Bar Air Dehumidifier with Refrigeration Cycle and Air Filter.	1	M/S Cosmos Science Corporation (EURO)	15,000	15,000	2,823,179	2,823,179	M/S Cosmos Science Coporation

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5.4	<b>Plate Load Test Apparatus:</b> ASTM D1194, ASTM D1195, ASTM D1196; DIN1834; BS1377 compliant. Load plate diameter:300mm. Jack with load capacity range:0-300KN. And stroke:120 mm. Measuring bridge span: 3000mm. Hand pump with rated pressure: 70Kpa. Stress test range: 0-25Mpa. Two displacement gauges with two normal and two magnetic stands and measurement range 30x0.01mm.	1	M/S Cosmos Science Corporation (EURO)	5,000	5,000	941,059.50	941,060	M/S Cosmos Science Coporation
<b>Total</b>		<b>4</b>		<b>30,650</b>	<b>30,650</b>	<b>5,768,695</b>	<b>5,768,695</b>	
<b>6. Material Testing Lab</b>								
6.1	<b>Strut Apparatus:</b> Basic frame: 2 columns and a sliding cross member with loading screw. Maximum strut length: 750 mm. Load cell: 150 kg. Force indicator: 3 1/2 digits. Dial gauge: 0-20 mm. x 0.01 mm. graduation. Weight hanger and weights: 4 x50 + 2 x 100 + 3 x 200 g. Strut supports: Knife edge: 2 each Built – in: 2 each, Struts specimens:6 each with knife edge ends: 3 x 20mm mild steel. Lengths: 500, 550, 600, 650, 700 and 750 mm. 3 each with knife edge ends: 6 (approx.) x 20 x 750 mm mild steel, brass and aluminum.	1	M/S Cosmos Science Corporation (USD)	5,200	5,200	816,096	816,096	M/S Cosmos Science Coporation
6.2	<b>Charpy's &amp; Izod Impact Test Apparatus:</b> ISO 179, ISO 180, ASTM D-6110, ASTM D256 compliant. Digital with touchscreen display and PC interface. Energy levels (max capacity): 5.5J, 11J, 22J (Izod Testing), 7.5J, 15J, 25J, 50J (Charpy Testing). Span of Charpy: 62mm. <b>Izod Testing:</b> Impact Speed: around 3.5m/s. Radius of striking edge R=0.8mm±0.2mm. Location of striking edge above top surface of support: 22mm±0.05mm. Notch A: 45°±1° Radius of the notch bottom R=0.25±0.05mm. Notch B: 45°±1° Radius of the notch bottom R=1±0.05mm. <b>Charpy Testing:</b> Impact Speed: 2.9m/s;3.8m/s. Radius of striking edge R=2mm±0.5mm. Angle of striking edge: 30°±1°. Measurement resolution: 0.01J. Notch A: 45°±1° Radius of the notch bottom R=0.25±0.05mm. Notch B: 45°±1° Radius of the notch bottom R=1±0.05mm. Notch C: 45°±1° Radius of the notch bottom R=0.10±0.02mm. Single Phase AC 220V power.	1	M/S Cosmos Science Corporation (EURO)	30,000	30,000	5,646,357	5,646,357	M/S Cosmos Science Coporation
6.3	<b>Curved Bar Apparatus:</b> Set of calibrated weights (4 x 2N; 3 x 5N; 1 x 10 N). Six specimens: including semi-circle; semi-circular bracket; double davit; quadrant; single davit curved; single davit straight. Specimen section approximately 25mm x 3mm, coated steel. Two special hangers for loading and connecting two displacement gauges. Two displacement gauges on moveable stands. Along with Frame and Stand and Comprehensive instruction manual.	1	M/S Cosmos Science Corporation (USD)	4,900	4,900	769,014	769,014	M/S Cosmos Science Coporation
6.4	<b>Extensometer:</b> Highly recommended for rebar testing. Self-supporting. Manual clamping. Measuring principle: strain gauge. Should be removed before specimen fracture. Class 0.5 according to EN ISO 9513. Standard Lo: 50. Maximum travel: 20 mm. Samples dimensions: Flat: from 15 to 30 mm width and 1 to 30 mm thick and round: from 4 to 30 mm diameter. Activation force: 150 cN.	1	M/S Cosmos Science Corporation (EURO)	6,850	6,850	1,289,252	1,289,252	M/S Cosmos Science Coporation

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6.5	<b>Beam Deflection Apparatus:</b> A range of beam materials and cross sections. Bench mounted test frame. Should include Three reaction-measuring piers incorporating an electronic load indicator. Fourth pier for clamping the end of a beam or cantilever. Three dial gauges on adjustable stands. Four load hangers. Digital display for viewing of forces and deflections. Along with software and comprehensive technical manual. Set of slotted weights included.	2	M/S Cosmos Science Corporation (USD)	8,000	16,000	2,511,066	2,511,066	M/S Cosmos Science Coporation
<b>Total</b>		<b>6</b>		<b>54,950</b>	<b>62,950</b>	<b>11,031,784</b>	<b>11,031,784</b>	
<b>7. Transportation Lab</b>								
7.1	<b>Los-Angeles Abrasion:</b> As per EN 1097-2, ASTM C 131. Drum rotated at 500 or 1000 revolutions. Safety guard with safety switches. Access via hatch fitted with a window, Drum turns at a pre-set speed (30-33 rpm) controlled by an inverter. Supplied with a special control for reversing drum rotation, tray for the collection of the material. Number of revolutions is programmable via the control panel. Power: 220 V, 50 Hz, single phase, 750 W. Set of 12 abrasive charges: size 1-13/16" (7 pieces) and 1-7/8" (5 pieces) to ASTM.	1	M/S Cosmos Science Corporation (EURO)	3,300	3,300	621,099	621,099	M/S Cosmos Science Coporation
7.2	<p><b>CBR Test Accessories:</b> ASTM D 1883 EN 13286-47 BS 1377 AASHTO T 193 CNR UNI 10009. Mould diameter 6" x 7" With collar and perforated base plate. Annular Surcharge 2.27 kg, Split Surcharge 2.27 kg Annular Surcharge 4.54 kg Annular Surcharge 9.08 kg.</p> <p><b>CBR Penetration Pistons</b> Product Dimensions: 7.5 x 1.954in (191 x 49.6mm) L x Dia. Estimated Shipping Weight: 7.0lb (3.18kg)</p> <p><b>CBR Spacer Disc</b> Product Dimensions: 5.94 x 2.41in (151 x 61mm) Dia.xH Estimated Shipping Weight: 20.0lb (9.07kg)</p> <p><b>CBR Swell Plate</b> Diameter: 5.875in (150mm) Estimated Shipping Weight: 4.0lb (1.81kg)</p> <p><b>CBR Swell Tripod with dial gauge</b> Range: 1 in Estimated Shipping Weight: 2 lb (0.91kg) Division: 0.01in Product Dimensions: 2.25 x 2 x 5.5in (57 x 51 x 140mm) Dia.xDxH</p> <p><b>CBR Cutting Edge</b> Product Dimensions: 6 x 2in (152 x 51mm) Dia.xH Estimated Shipping Weight: 4.0lb (1.81kg)</p> <p><b>Reusable CBR Filters</b> Diameter: 5.94in (151mm) Estimated Shipping Weight: 1.0lb (0.45kg)</p>	4	M/S Cosmos Science Corporation (EURO)	450	1,800	338,781	338,781	M/S Cosmos Science Coporation

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7.3	<b>CBR Laboratory Set:</b> BS 598, ASTM D 1559, CNR 30, EN 12697-12, EN 12697-34, AASHTO T 245. <b>Testing Machine,</b> 50 kN machine consists in its 6 speeds (pre-set and ranging from 0.6 to 50.8 mm/min.). Speed change is made via keypad. It is possible to set intermediate speeds other than those already pre-set. Max Vertical Span 600 mm, Min Vertical Span 100 mm Horizontal Span 380 mm Ram travel 100 mm Load Transmission Device <b>Dial Gauge,</b> Precision 0.01mm 50 kN <b>Proving Ring</b> Complete with Calibration Certificate <b>Bracket</b> for Dial Gauge CBR Mould 6"	1	M/S Cosmos Science Corporation (EURO)	7,400	7,400	1,392,768	1,392,768	M/S Cosmos Science Coporation
7.4	<b>Proctor Penetrometer:</b> ASTM D 1558. Designed for comparative checking of soil compaction. It may also be used for evaluating moisture/density relationship, determined in the laboratory, on an analogous soil sample. Supplied complete with 9 interchangeable needles: 1" - 3/4" - 1/2" - 1/3" - 1/5" - 1/10" - 1/20" - 1/30" - 1/40" and carrying case. Graduations 0-40 kg. (division 1 kg).	1	M/S Cosmos Science Corporation (EURO)	500	500	94,106	94,106	M/S Cosmos Science Coporation
7.5	<b>Soil Specific Gravity Test Sets:</b> (separate set for fine and for coarse particles/aggregate).	1	M/S Cosmos Science Corporation (EURO)	825	825	155,275	155,275	M/S Cosmos Science Coporation
7.6	<b>Digital Viscometer:</b> AASHTO T 316, ASTM D4402 compliant. Viscosity Range 100cP-40 million cP. Revolutions per Minute 0.01-200RPM. Accuracy ±1%. Reproducibility ±0.2%. Temperature Range 9°—260°C (40°—500°F). Touch screen digital display. 220v single phase 50Hz power.	1	M/S Cosmos Science Corporation (EURO)	18,000	18,000	3,387,814	3,387,814	M/S Cosmos Science Coporation
7.7	<b>Hydraulic Sample Ejector:</b> Hand-operated with hydraulic jack (3000 kg capacity). For the extrusion of 4" - 6" samples from moulds. Annular and slotted plates for quick set-up. It enables the extrusion of Marshall, Proctor, CBR samples.	1	M/S Cosmos Science Corporation (EURO)	600	600	112,927	112,927	M/S Cosmos Science Coporation
<b>Total</b>		<b>10</b>		<b>31,075</b>	<b>32,425</b>	<b>6,102,771</b>	<b>6,102,771</b>	

<b>Grand Total</b>	<b>63</b>	<b>-</b>	<b>173,401</b>	<b>218,401</b>	<b>37,723,440</b>	<b>37,723,440</b>	<b>-</b>
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Bidders/Firms	USD Value	EURO Value	Total in FOREX	2% Bid Security required		2% Bid Security submitted	
				USD Rate	158.0139	EURO Rate	188.5190
M/S Cosmos Science Corporation	56,350	125,890	182,240	652,735		778,000	
M/S Intermark (Pvt) Ltd	64,441	-	64,441	203,651		215,000	
M/S Asia Geomatics	48,190	-	48,190	152,294		155,000	
<b>Total</b>	<b>168,981</b>	<b>125,890</b>	<b>294,871</b>	<b>1,008,680</b>		<b>1,148,000</b>	