

Name of the Trade		Surveyor		
S.No	Name of the Equipment	Std List No	Type of Equip. (Machinery / Tool)	Specifications
1	2	3	4	5
1	Engineering Instrument Box	1	T.Tool Kit	Engineering Instrument Box ment containing one 15 cm compass with pin point, pin point & lengthening bar, one pair spring bows, rotating compass with interchangeable ink and pencil points, drawing pens with plain point & cross point, screw driver and box of leads.
2	Protractor 15 cm full circular	2	T.Tool Kit	Protractor 15 cm full circularMade from virgin acrylic sheet.Graduated by engine divided process
3	Card board/ plastic metric scale set- A to H	3	T.Tool Kit	Card board/ plastic metric scale set- A to H in a box 1: 1, 1:2, 1:2:5, 1: 5, 1:10, 1:20, 1:50, 1:100,1:200, 1:500, 1:1000, 1:2000,1:1250, 1:6000, 1:38 1/3, 1:66 2/3
4	Diagonal scale, electroplated	4	T.Tool Kit	Diagonal scale, electroplated
5	Celluloid set square 45° & 60°	5	T.Tool Kit	Celluloid set square 45° & 60° transparent with bevelled edges 20cm.Made from 2 mm virgin transparent acrylic sheet. Precision 0.5 degree scale. Ideal for both pencil and ink.
6	T square 1250 mm/ Mini drafter	7	T.Tool Kit	T square 1250 mm/ Mini drafter ,channels are made from Aluminum by pressure die-coasting process to provide better grip and free working. Arms made from bright bars and its powder coated square plate channel protect against corrosion and enhances finish. Brass Rivets made out from Extruded grade Brass, Scale made out from Polycarbonate.
7	Erasing shield small size	8	T.Tool Kit	Erasing shield small size made of high quality stainless steel.Polished finish.
8	Architect's & builder's template	9	T.Tool Kit	Architect's & builder's template
9	Chisel- steel 80 mm blade	10	T.Tool Kit	Chisel- steel 80 mm blade10

10	French curve- set of 12	12	T.Tool Kit	French curve- Made from 2 mm virgin transparent acrylic sheet
11	Abney level	1	Equipment	Tube is 5 1/8 in. long, Radius arc of 1 1/8 in. graduated in degrees in both directions,Vernier reading of 10 minutes,Slope scale 1:1 and 1:10,Padded belt-loop case included
12	Ammonia printing box	2	Equipment	Ammonia printing box 160 cm *40*30 cms. Max Printing Speed: 8M/Minute, Lamps Installed: 6 x 140 watts
13	Box sextant	3	Equipment	75mm dia (3") divided from 0 to 140 degree, fitted with Vernier to read accurately andmagnifier for reading with telescope, shades etc. Complete in leather sling case
14	Boning rod	4	Equipment	Boning rod
15	Binocular	5	Equipment	Magnification (x) 8 ,Objective diameter (mm) 42,Angular field of view (Real/degree) 8, Angular field of view (Apparent/degree) 58.4 ,Field of view at 1,000m ,140, (m),Exit pupil (mm) 5.3,Relative brightness 28.1, Eye relief (mm) 17.1, Close focusing distance (m) 2.5,Interpupillary distance adjustment (mm) 56-72
16	Chalk board/White board	6	Equipment	white board 6' x 4' ferrous base sheet to hold magnetic duster with white finish surface.
17	Cupboard (Big)	7	Equipment	Cupboard (Big)
18	Celon ghat tracer	8	Equipment	complete in wooden box with target and poleWorking Power: AC 220V(1±10%) 50Hz(1±5%) Radiation Frequency: 15KHz 33KHz Corrosion resistance
19	Scientific calculator	9	Equipment	calculator scientific (big size) dual power , 8 digit , LCD panel and display of both scientific and arithmetic operations simultaneously
20	Computing scales two hectares	10	Equipment	Computing scales two hectares
21	Computing scales five hectares	11	Equipment	Computing scales five hectares
22	Wooden cross staff- box type	12	Equipment	Wooden cross staff- box type
23	Wooden cross staff- open type	13	Equipment	Open cross staff made up wooden box with a wooden pole of 1.5m long and 3cm dia, provided with iron shoe at bottom.

24	Drawing board imperial size	14	Equipment	Drawing board imperial size 1250x900x22mm, made of seasoned wood, top mica
25	Engineer's chain	15	Equipment	Land measuring chain 100' long made from 8 swg dia mild steel wires divided into 100 links , with brass tags at every 10 links intervals in distinguishable pattern , with brass handles with swivel joint and with 10 arrows made up of good quality M.S wires of 4mmφ and 40 cm length
26	Engineer's level	16	Equipment	Engineer's level Image erect, magnification<28X, Objective Aperture <38mm, Object Glacc Diameter 40mm, Short Focus 1.5 M, Stadia ratio 1:100, Additive Constant 0, Accuracy +- 2-3mm/Km, Circle diameter<95mm, Graduations 10Minutes, Plate Level sensitivity 40"/2mm. Complete In plastic case with Aluminium Stand.
27	Dumpy level	17	Equipment	Dumpy level Image erect, magnification<28X, Objective Aperture <38mm, Object Glacc Diameter 40mm, Short Focus 1.5 M, Stadia ratio 1:100, Additive Constant 0, Accuracy +- 2-3mm/Km, Circle diameter<95mm, Graduations 10Minutes, Plate Level sensitivity 40"/2mm. • ACCESSORIES Aluminum Telescopic Tripod Plastic Box Tools kit: Screw Driver, Plumb bob, Brush, Diaphragm extractor
28	Auto Level	18	Equipment	Image erect, magnification<28X, Objective Aperture <38mm, Object Glacc Diameter 40mm, Short Focus 1.5 M, Stadia ratio 1:100, Additive Constant 0, Accuracy +- 2-3mm/Km, Circle diameter<95mm, Graduations 10Minutes, Plate Level sensitivity 40"/2mm. • ACCESSORIES Aluminum Telescopic Tripod Plastic Box Tools kit: Screw Driver, Plumb bob, Brush, Diaphragm extractor
29	Tilting level	19	Equipment	Objective lens 35 mm, Magnification 26X, Min. focus 0.5m , Main level sensitivity 120"/2mm , Tilting range $\pm 20'$, Standard deviation for reciprocating 1km ± 2 mm

30	Fire extinguisher	20	Equipment	Capacity (Kg.) 9 ,Type of Fire ABC, Type of Extinguisher Stored Pressure/Gas Cartridge,Type of Extinguishing Media DCP (Mono AmmoniumPhosphate) ISI 14609/4308 ,Expellant Pressurized with N2 gas/ 200gm Gas Cartridge,Minimum Effective Discharge (%)90 , Minimum let Length (mtrs.) 6 ,Discharge Time (Sec.)More than 13 sec, Hydraulic Test Pressure (kgf/cm2) 35 ,Operating Position Upright,Charged Pressure (kgf/cm2) 15,Operating Temperature-10C to 55C ,Operating Valve Squeeze Grip Type with Nozzle
31	Gunter's chain	21	Equipment	Land measuring chain 66' long made from 8 swg dia mild steel wires divided into 100 links , with brass tags at every 10 links intervals in distinguishable pattern , with brass handles with swivel joint and with 10 arrows made up of good quality M.S wires of 4mmφ and 40 cm length
32	Hand press for numbering & lettering	22	Equipment	Hand press for numbering & lettering
33	Canvass bag	23	Equipment	Canvass bag Sufficent space to hold the survey assosreies
34	Height indicators	24	Equipment	Height indicators (survey of India)
35	Hold all canvas for instruments	25	Equipment	Hold all canvas for instruments (S.O.I.)
36	Hones in case	26	Equipment	Hones in case (Survey of India)
37	Instructor's chair	27	Equipment	Standard revolving with wheel
38	Instructor's table	28	Equipment	4'X2'X2.5' with steel tubular frame & sun mica top
39	Tracing board with lamp	29	Equipment	Tracing board with lamp
40	Leveling staff	30	Equipment	Leveling staff telescopic
41	Metric chain- 30 m & 20 m	31	Equipment	Metric chain- 30 m & 20 m Land measuring chains 30 & 20 meters.Made of Galvanized steel rod 8 SWG
42	Magnifying glass	32	Equipment	Magnifying glass having magnification 15 times.
43	Magnet bar (for magnetizing through compass needles)	33	Equipment	Magnet bar (for magnetizing through compass needles)

44	Plastic tubes for keeping drawings	34	Equipment	Good Quality Plastic tubes for keeping drawings dia. 100mm and 1 meter long
45	Pen knife	35	Equipment	Pen knife
46	Pentagraph	36	Equipment	Pentagraph Size 48" (1200mm) full brass Most imported pattern, with castors or screw clamps, prepared circular socket with tracing point,pencil holder, for enlarging and reducing maps and drawing etc. Graduate arms are made of brass
47	Prismatic compass	37	Equipment	Prismatic compass With Aluminium stand , size 4" DIA
48	Planimeter (digital)	38	Equipment	Planimeter (digital) Type Roller Type With Computing Functions.Display Symbol 8 Digit,10- Symbol Balt- E, Scale, Memo, Hold CM2,M2,Km,IN2,FT2,Acre, Convert Function Unit & Scale Value Accumulated Max. 10M2(scale 1:1) Measuring Value Max. Verticle width:325,Accuracy Within 0.2(within 2/1000 Pulse) With Built in nicd batery rechargeable by AC adapter. having minimum 30 hours continue battery back up.
49	Proportionate compass	39	Equipment	Proportionate compass 6" divider with precise rack and pinion movementMoveable pivot point adjusts ratio one end to the other. in a plastic case or Velvet lined case.
50	Plane table with stand & water proof cover	40	Equipment	Size 600 mm x 750mm size plane table board with techno metric leveling head having 3 foot screws and tripod stand. packed in water proof canvas cover
51	Telescopic alidade	41	Equipment	Telescopic alidade made of brass,175mm internal focussing,vertical circle graduated to read 30 minute vernier with extendable base plate to 375mm and half degree divided giving angle of elevation and depression, mounted on topof telescope, telescope provided with stadia diaphragm, provided with all acessories, namely trough compass, U-frame with brass bob etc.complete in wooden box
52	Indian pattern clinometers	42	Equipment	Tangent clinometer with rack and pinion arrangement withface of vane divided on one side for elevation and depression in degrees and other side with scale of tangent with bubble and levelling screw etc. complete in a wooden case

53	Ranging rod 4 m	43	Equipment	Offset Rods 4m made of well seasoned pine wood.Alternately painted either black and white or red and white in length of 20cm
54	Offset rod	44	Equipment	Offset Rods 4m made of well seasoned pine wood.Alternately painted either black and white or red and white in length of 20cm.A recessed hook is provided at top.
55	Optical square	45	Equipment	Made of brass PWD Pattern, heavy type of wooden box
56	Railway curve	46	Equipment	Railway curves set of 50 in box, made up of transparent plastic
57	Steel almirah (Big)	47	Equipment	195 x90 x 48 cm outer sheet 20 SWG inner partition with four selves of 22Swg
58	Stool	48	Equipment	A Standard stool made up of wood of height of 18 to 24 inch and top should be of 12 inch X 12 inch wide and should be made up of Matt finished laminated surface and structural arrangement should be of MS Square pipe 16 SWG with first quality enamel paint
59	Survey plating scale with offset scale in Box	49	Equipment	Plotting scale 8 metric scales 30cm long with offset scales, graduation on both sides, 1:10,1:20,1:50,1:100,1:200,1:400, 1:800,1:1000 complete in a box
60	Stencil set	50	Equipment	Stencil set in complete box 6 H.
61	Substance bar	51	Equipment	Substance bar
62	Metallic tape 30 m	52	Equipment	Metallic tape 30 m
63	Metallic tape 60 m	53	Equipment	Metallic tape 60 m
64	Steel tape 30 m	54	Equipment	Steel tape 30 m metres long in leather case.
65	Steel band 30 m & 20 m	55	Equipment	Steel band 30 m & 20 m
66	Surveyor's umbrella	56	Equipment	Made of best quality double layer of drill cloth, the top layer is of Khaki colour drill cloth and the inner layer of blue.Size 2 Meters Dia With telting arrangement

67	Theodolite transit	57	Equipment	Theodolite transit Tele scope :- Image Erect, Length< 175 mm, Magnification 25X, EFFECTIVE Aperture < 38mm,field of view 2.6 M at 100M,Stadia ratio 02:40:00AM, Stadia Constant 0,Resolving Power 4", Circle Diameter < Hz 110mm,V 100mm,graduation 10', Vernier Reading 10", Plate Level sensitivity 45"/2mm,V.Circle level 1'/2mm
68	Digital Theodolite	58	Equipment	latest model With all accessories
69	Rules ebonite plain for drawing lines	59	Equipment	Rules ebonite plain for drawing lines
70	Wooden set square, T square & Compass (for chalk board)	60	Equipment	Wooden set square, T square & Compass (for chalk board)

71	Computer & software	61	Equipment	<p>Computer & software Computer (latest version), with 19" colour monitor with all accessories with latest configuration.</p> <p>Windows® 8 Standard, Enterprise, or Professional edition, Windows® 7 Enterprise, Ultimate, Professional, or Home Premium edition (compare Windows versions), or Windows XP® Professional or Home edition (SP3 or later) operating system</p> <p>For Windows 8 and Windows 7: Intel® Pentium® 4 or AMD Athlon™ dual-core processor, 3.0 GHz or higher with SSE2 technology</p> <p>For Windows XP: Pentium 4 or Athlon dual-core processor, 1.6 GHz or higher with SSE2 technology</p> <p>4 GB RAM (4 GB recommended)</p> <p>6 GB free disk space for installation</p> <p>1,024 x 768 display resolution with true color (1,600 x 1,050 recommended)</p> <p>Microsoft® Internet Explorer® 7 or later web browser</p> <p>Install from download or DVDUPS 650 VA offline. With</p> <p>VA Rating .: 650VA</p> <p>Real Power Rating : 390W</p> <p>Input</p> <p>Phase : Single Phase +N</p> <p>Voltage : 100/110/120/220/230/240V±25%</p> <p>Frequency: 50/60Hz±10%</p> <p>Output</p> <p>Voltage: 100/110/120/220/230/240V±10%</p> <p>Waveform: Sine Wave(Mains); Square Wave(Inverter)</p> <p>Frequency: AC Mode: 50/60Hz±1%(Battery)</p> <p>Crest Factor: 3:1</p>
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72	Total station Leica	62	Equipment	Total station (Digital Theodolite) for educational purpose.Total station with prism 1 no. & battery charger, AC adaptor, USB downloads port & software with stand. - 2" accuracy ,Suitable for Surveying, Layout, Free Station Key Features:2" accuracy, Dual Side display,Touch screen,Laser Plummet for centering,Windows based, Alphanumeric key pad,Dual axis tilt sensor,Without prism measurement up to 300mtrs,2 Batteries and One Charger,Expandable memory up to 2GB
73	Hand GPS Latest Version	63		GPS 60 with battery charger ,AC adaptor USB Download port & Software. High sensitivity receiver Base map Water proof USB interface Built in memory accept data card way points /etc Routes 200 Track log 10,000 points Altimeter, compass,hunt fish calender ,sun &moon information.tide tables,Area calculation Dimensions 16.0 X 6.1 X 3.6 cm Battery type /life 2 x AA 20 hours weight approx 260 g
74	A3 size Printer-colour	64		Printer A3 (Desk jet/ Lazer jet with scanner • Main Features: Colour And B&W A3 Printer • Print Speed: Up To 25Ppm For Colour And B&W • Print DPI: 600 X 600Dpi; 1200 X 1200Dpi; 1200 X 2400Dpi • Sheet Capacity: 400 Sheets (A4) / 200 Sheets (A3), Face Down • Wired/Wireless: Wired • 2 Sided Printing: Optional
75	Computer table	65		Standard with drawers & self to accommodate UPS&CPU
76	Computer chair	66		Revolving type metal based & metal wheel standard one

77	Printer table	67		<p>Printer table Caster/glide/wheel: Four casters (2 locking)</p> <ul style="list-style-type: none"> • Capacity (weight): 75 lbs • Color: Black • Shelves Included: Yes • Casters Included: Yes • Number of Shelves: 1 • Mount Type: Desktop • Finish: Black • Cable Management: Yes <p>Dimensions</p> <ul style="list-style-type: none"> • Overall Width - Side to Side: 17 Inches • Overall Depth - Front to Back: 13.25 Inches • Adjustable Height: Yes
78	UPS-5KVA	68		UPS-5KVA, Pure Sine Wave, 1-Phase In 1-Phase Out,