

**TRADE: DRAUGHTSMAN CIVIL
LIST OF TOOLS & EQUIPMENTS**

Syllabus S.No.	Specification of Items	Quantity of
1	Box drawing instrument 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.(0.2,0.3,0.4 mm).	21 Nos.
2	Protractor celluloid 15 cm semi- circular.	21 Nos.
3	Scale card board- metric set of eight 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	21 Nos.
4	Scales plotting box wood 6 metric scales 30 cms long with offset scales.	21 Nos.
5	Set square transparent 20 cm, 2 mm thick with bevelled edges 45 degree .	21 Nos.
6	Set square celluloid 25 cm,2mm thick with bevelled edges 60 degrees.	21 Nos.
7	Board drawing 1250mm x 900 mm with stand & draughtman stool	21 Nos.
8	T-Square 1250mm/Mini drafter/ Parallel Bar	21 Nos.
9	Template –Architects and builders	21 Nos.

B. GENERAL MACHINERY SHOP OUTFIT

1	Geometrical models(wooden/plastic) as per given below: i) Cube 08 cm sides. ii) Rectangular parallel piped 8cmX15cm iii) Sphere 8cm dia. iv) Right circular cone 8 cm dia base and 15 cm vertical height v) Square pyramid 8cm side base and 15 cm vertical height vi) Cylinder 8 cm dia. 15 cm height. vii) Prisms triangular 8 cm sides triangle and 15 cm length. viii) Prism hexagonal 8 cm side's hexagon and 15 lengths	04 each
2	Templates – Circle, Ellipse, furniture, etc.	4
3	French curves - transparent plastic set of 12	4
4	Flexible curves 80 cm long	4
5	Radius curve metric 3 mm to 15 mm	4
6	Brass parallel rulers in a case	4
7	Calculator Scientific (Non-programmable)	4
8	Digital Planimeter	4
9	Proportional dividers 15 cm	4

C. LIST OF SURVEYING INSTRUMENTS

1	Steel tape 30 meters long.	4
2	Digital Theodolite latest model with laser <ul style="list-style-type: none"> • 2" angular accuracy - accurate enough for any construction job • Dual LCD with extra large characters 	2

	<ul style="list-style-type: none"> • Back-lit LCD and telescope reticle, 6 keys totally, built-in illumination • Various accessories Measurement Minimum Reading: 1" /5" Selectable Accuracy: 2" / 5" Optional Laser Distance: 120m Level & Compensation Plate Level: 30"/2mm Circular Level: 8'/2mm System Auto Compensator: Liquid-electric Detection ±4' Circular Level ±3' Vertical Compensator: Liquid-electric Detection ±1" Plate Level 30"/2mm General Communication Port: RS-232 Dimension (L x W x H): 165mm x 157mm x 318mm Weight: 4.3kg (including battery) Working Temp. : -20°C to +45°C Water/ Dust Proof: IP55 Operation Time: 10 Hours	
3	Instrument for Total Station with latest model, Angle Measurement Minimum Reading: 1" /5" Selectable Accuracy: 2" Compensation: Dual-axis Compensator Distance Measurement Single Prism: 5.0km Accuracy (with Prism):2mm+2ppm Data Storage & Communication Internal Memory: 2M/24000 point External Memory: SD Card (up to 2G) Optional Communication Port: RS-232, Mini USB General Dimension (L x W x H): 160mm x 150mm x 330mm Weight : 5.8kg (including battery) Working Temp. : -20°C to +50°C Water/ Dust Proof: IP55 Operation Time:10 Hours	2
4	GPS (latest model)	2
5	Auto level	2

D. LIST OF TOOLS & EQUIPMENTS

1	Personal computer with latest configuration min. 19 inch LED Screen and graphic card with latest operating system.	20
2	Laptop with latest configuration	2
3	Plotter A1 size	1
4	Printer (Desk jet / Laser jet) with scanner (multipurpose)	1
5	Server work station with latest configuration	1
6	Broad Band connection	1
7	UPS 5 KV	2
8	Computer Table	20
9	Computer Chair.	20
10	Furniture for server, printer, plotter	01 each
11	White Board (6' x 4')	2
12	DLP Projector (2000 lumens or higher)	2
13	First Aid Box	1
14	Screen for Projector (motorized)	2
15	Fire Extinguisher	1
16	Air Conditioner 2.0 Ton	2
17	Wall Clock	1
18	Document Camera / Visualiser	2
19	Smart Board / Inter Active Board	2
20	CCTV Camera	4
21	Steel Cupboard 180 x 90 x 45 cm	2
22	Steel Cupboard 120 x 60 x 45 cm	2
23	Book Shelf	2

E : LIST OF FURNITURE

1	Trainer's / Instructor's table (big size full secretariat) (6 feet x 4 feet)	1
2	Chair for Trainer / Instructor	2
3	Class room chairs (armless)	20
4	Class room table (armless) / Dual desk	20
5	Almirah steel (major) 6" / higher	2