

E3/31/16 Drawing Instruments for Surveyor trade

SL NO	Sl No in the syllabus	Item Description	Recommended specification	Quantity Required								TOTAL	
				CHACKAI	KAZHAKOOTTAM	CHANDANATHOPPE	KOLLAM (W)	ETTUMANOOR	CHENGANNUR	KOZHIKODE	KANNUR		KASARKODE
1	1	Engineering Instrument Box	Drawing instrument box-(Engineer's), complying IS:3221-1966, made of high density plastic box with moulded seating containing one 15cm compass,15 cm divider with pin point and lengthening bar , one pair spring bow rotating compass with interchangeable ink and pencil points drawing pen with pin point and cross point , screw driver and box of leads. The instrument shall be made of brass with chromium plating(13 parts).	5	25			4	11	25	42	4	116
2	2	Protractor 15 cm full circular	Protractor celluloid- 15 cm full- circular, 2mm thick graduated to read degrees and half degrees	21	26	18		3	5	10	42		125
3	3	Card board/ plastic metric scale set- A to H	card board scale- 30cm long, metric set of eight M1 toM8 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;300, 1:600, 111111;400, 1:800,1:1000,1:2000 in a case	18	26			21	21	26	42	5	159
4	4	Diagonal scale, electroplated	Diagonal Scale- designated as C as per IS 1562-1962, made of brass	20	2	18	20	10	10	19	20		119
5	5	Celluloid set square 45° & 60°	Celluloid set square set - square - 45 degr - made of celluloid 2mm thick with bevelled edges graduated to read cm amd mm ; 20 cm long & set - square - 60 degr x30 degr - made of celluloid 2mm thick with bevelled edges graduated to read cm amd mm ; 25 cm long	12	25			5		25	42	4	113
6	6	T square 1250 mm/ Mini drafter	T - square - a T - scale having blade graduated in millimeter made of transparent plastic 5mm thick , 1250mm (nearest) long with bevelled working edge and drilled hole for hanging at the lower end of blade and 10mm thick stock	5	25	42		3	21	25	42	4	167
7	7	Erasing shield small size	Erassing shield- made of stainless steel 15 cm x5cm or nearest size	42	22	14		3	5	26	42	5	159
8	8	Architect's & builder's template	Template -(architects &builders) made of transparent plastic , having 20x15cm (or nearest) sizewith different shapes / blocks of sanitary wares and symbols used in civil Engg cut on it for architect & builders	10		20		10	10	20	20	10	100

9	9	Chisel- steel 80 mm blade	Chisels- steel 80mm blade with wooden handle	10	6	16	12	5	10	19	20	2	100
10	10	French curve- set of 12	French curves- made of transparent plastic in a wooden box of at least 200mm x 100mm or nearest size with a set of 12 nos having different curves.	2		16		6	6	16		6	52
11	9	Scientific calculator	Calculator- scientific 12 digit dual powered LCD panel and display, both scientific and arithmetic operations simultaneously with three year service warranty	38		41		21	21	21			142
12	22	Hand press for numbering & lettering	Hand press- for numbering and lettering	1	1	2		2	2	1	2	1	12
13	45	Optical square	Optical square- brass box type , circular 50mm ϕ ,with handle	1	1			5	1	1	1		10
14	46	Railway curves-Set of 50 in a box	Railway curves -set of 50 in box, made up of transparent plastic of radius ranging from 15" to 20"	3	3	3		4	3	3	4		23
15	49	Survey plotting scale-8 scales with offset scale in box	Plotting scale- 8 metric scales made of plastic, 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	2	5	11		21	21		1	20	81
16	50	Stencil set	Stencils- set of 6H for lettering both numerals and letters with pen,ink etc. complete	2	3			5	3	3	3	3	22
17	59	Rules ebonite plain for drawing lines	Rules- made of ebonite plain 1m long for drawing lines					21	21	20	21	5	88
18	60	Wooden set square, T square & Compass in a box (for chalk board)	Wooden set squares, Tee-square and compass for black board work complete in a box made up of wood.	1		1							2