

E3/34/16 DRAWING INSTRUMENTS FOR D-CIVIL TRADE

SL NO	SI No in the syllabus	Item Description	Recommended specification	Quantity Required								TOTAL		
				CHENGANNUR (W)	KANJIKUZZHI	MALAMPUZHA	VENGOOR	DESHAMANGALAM	ARAKUZZHA	VADAKARA	VALAYAM		CHERYAMUNDAM	
1	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).	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).	21		9	10					10	2	52
2	2	Protractor celluloid 15 cm semi- circular.	Protractor celluloid -, complying IS:1563, 15 cm semi-circular., 2mm thick graduated in degrees and half	21		10						10	2	43
3	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	Card board scale - long metric (set of eight) M1 to M8 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, 1:800,1:1000,1:2000 complete in a box complying all other IS:1491 norms.	42		12		10				10	2	76

4	4	Scales plotting box wood 6 metric scales 30 cms long with offset scales.	Plotting scale- made of perpex,6 metric scales 30cm long with offset scales, graduation on both sides in a wooden case 1:10, 1:20, 1:50, 1:100,1:200, 1:400	21		12		10			42	2	87
5	5	Set square transparent 20 cm, 2 mm thick with bevelled edges 45 degree	Set square- , complying IS:1561, non-brittle plastic, celluloid 2 mm thick with bevelled edges 45 degree 20 cm length graduated on both sides.	21		8					26	2	57
6	6	Set square celluloid 25 cm,2mm thick with bevelled edges 60 degrees.	Set square- , complying IS:1561, non-brittle plastic,celluloid 2mm thick with bevelled edges 30 - 60 degrees ,25cm graduated on both sides.	21		4					26	2	53
7	7	T-Square 1250mm/Mini drafter/ Parallel Bar	T- square- , complying IS 1360:1989, having blade graduated in mm and cm made of trasparent plastic	21		21		10			10	2	64
8	8	Template –Architects and builders	Template - architect and builders, complying IS:12353, made of transparent plastic 20cmx10cm or	42		4					10	2	58
9	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	Geometrical models - 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	4	2					2	2	4	14

