

15 CEILINGS

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
Beading			
15.01	Providing and fixing plain, chamfered edged 1st class local wood beading with screws or nails for walls, ceiling, etc. complete. <i>(Basis : CPWD Analysis of Rates, 2003 Vol-III - 375&376)</i>		
Details of cost for beading 5.00 m long.			
	(a) 50mm x 12mm	m	205.30
	(b) 50mm x 20mm	m	221.00
Wood			
15.02	Providing and fixing 20mm thick 1st class local wood planks ceiling with M.S. screws excluding frame work of base and beading.	sqm	938.80
15.03	Providing and fixing 20mm thick 2nd class local wood planks ceiling with M.S. screws excluding frame work of base and beading.	sqm	888.80
15.04	Providing and fixing 20mm thick teak wood planks ceiling with M.S. screws excluding frame work of base and beading.	sqm	888.80
15.06	60cm x 60cm raised box pattern ceiling ventilator with dressed planks top cover 13mm x 15mm galvanised wire netting inside in 1st class local wood frame and hinges.	No	1265.30
A.C sheet			
15.07	Supplying, fitting and fixing 4mm thick plain asbestos cement sheet ceiling with necessary nails complete excluding frame work of base and beading.	sqm	378.10
15.08	Supplying, fitting and fixing 6mm thick plain asbestos cement sheet ceiling with necessary nails complete excluding frame work of base and beading.	sqm	662.30
Bamboo			
15.09	Providing and fixing of bamboo turja ceiling woven in <i>malkalh</i> pattern in single layer including fixing with necessary nails complete excluding frame work of base and beading.	sqm	208.00
15.10	Providing and fixing of bamboo turja ceiling woven in <i>bawhtah</i> pattern in single layer including fixing with necessary nails complete excluding frame work of base and beading.	sqm	270.40
15.11	Providing and fixing of bamboo turja ceiling woven in <i>thumbawh</i> pattern in single layer including fixing with necessary nails complete excluding frame work of base and beading.	sqm	300.50

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SL NO	DESCRIPTION	UNIT	RATE (Rs p)
15.12	Supplying, fitting and fixing 6mm thick decorated bamboo particle board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	1440.40
15.13	Supplying, fitting and fixing 8mm thick decorated bamboo particle board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	1687.70
15.14	Supplying, fitting and fixing 3mm thick bamboo mat board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	1299.40
15.15	Supplying, fitting and fixing 6mm thick bamboo mat board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	1424.50
15.16	Supplying, fitting and fixing 6mm thick cement bonded particle board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	799.30
15.17	Supplying, fitting and fixing 8mm thick cement bonded particle board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	852.00
Asbestos			
15.18	Supplying, fitting and fixing 3.20mm thick decocial asbestos board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	852.00
Acoustical board			
15.19	Providing and fixing in ceiling perforated acoustical board 12mm thick of approved quality including fixing to frames with brass screws etc. complete. (frame work of base to be paid separately).	sqm	783.30
Others			
15.20	Providing and fixing in ceiling flat pressed 3 layer particle board (medium density) 12mm thick conforming to IS : 3087 with necessary nails etc. complete (frame work of base to be paid separately).	sqm	420.20
15.21	Providing and fixing recessed ceiling with 12.5mm tapered Gypboard which includes providing and fixing G.I perimeter funnels with nylon sleeves and screws intermediate channels fixed to GI seat and steel expansion fastener etc. all complete including rounding, filling and finishing the tapered and square of the board with jointing compound and two coats of primer suitable to Gypboard.	sqm	2173.10

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SL NO	DESCRIPTION	UNIT	RATE (Rs p)
15.22	Supplying, fitting and fixing aluminium composite panel board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	2273.40
15.23	Supplying, fitting and fixing calcium silicate board ceiling with necessary screws etc. complete excluding frame work of base and beading.	sqm	2536.60
Timber Frame work			
15.24	Providing and fixing 1st class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.	sqm	298.20
15.25	Providing and fixing 2nd class local wood frame works for ceiling consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. including cost of wood plugs complete.	cum	82164.80
Steel			
15.26	Providing and fixing G.I steel frame works for ceiling lining consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary screws, etc. complete.	sqm	1455.00
15.27	Providing and fixing aluminium frame works for ceiling lining consisting of battens 50x25mm fixed over wood plugs embedded in wall with necessary nails or screws, etc. complete.	sqm	1277.70
15.28	Providing and fixing 20mm thick wooden planks ceiling (frame work for base to be paid separately) with M.S. screws :		
	<i>(12.54 C.P.W.D 2002)</i>		
	(a) [12.54.1 teak wood.	sqm	845.10
15.29	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately) :		
	<i>(12.55 C.P.W.D 2002)</i>		
	A [12.55.1] - Natural colour insulating board		
	(a) [12.55.1.1] - 12 mm thick	sqm	596.55
	(b) [12.55.1.2] - 18 mm thick	sqm	597.00

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SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	B [12.55.2] - White face insulating board		
(a)	[12.55.2.1] - 12 mm thick	sqm	560.00
(b)	[12.55.2.2] - 18 mm thick	sqm	720.90
	C [12.55.3] - Flame retardant face insulating board		
(a)	[12.55.3.1] - 12 mm thick	sqm	517.30
(b)	[12.55.3.2] - 18 mm thick	sqm	657.10
15.30	Providing and fixing coir veneer board ISI marked (IS : 14842 - 2000), ceiling sheet with necessary nails etc., complete (frame work to be paid separately). <i>(12.56 C.P.W.D. 2002)</i>		
(a)	[12.56.1] - 3 mm thick	sqm	406.00
(b)		sqm	572.60
15.31	Providing and fixing flat pressed 3 layer medium density particle board or graded particle board (Grade I) IS: 3087 marked (Novapan, Ecoboard or Bhutan Board etc.,) in ceiling with necessary nails etc. complete (frame work to be paid separately) : <i>(12.57 C.P.W.D. 2002)</i>		
(a)	[12.57.2] - 12 mm thick	sqm	570.10
(b)	[12.57.3] - 18 mm thick	sqm	672.50
15.32	Providing and fixing plain A.C. sheet ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately) : <i>(12.58 C.P.W.D. 2002)</i>		
(a)	[12.58.1] - 4 mm thick	sqm	393.80
(b)	[12.58.2] - 6 mm thick	sqm	454.20
15.33	Extra for Circular cutting and waste in ceiling with: <i>(12.59 C.P.W.D. 2002)</i>		
(a)	[12.59.1] - teak wood planks 20 mm thick	m	245.40
(b)	[12.59.4] - Natural colour insulating board		
(i)	[12.59.4.1] - 12 mm thick	m	215.40

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
	(c) [12.59.5] - White face insulating board:		
	(i) [12.59.5.1] - 12 mm thick	m	210.90
	(ii) [12.59.5.2] - 18 mm thick	m	230.80
	(d) [12.59.6] - Flame retardant face insulating board:		
	(i) [12.59.6.1] - 12 mm thick	m	205.50
	(ii) [12.59.6.2] - 18 mm thick	m	222.80
	(e) [12.59.7] - Standard quality hard board sheet:		
	(i) [12.59.7.1] - 3 mm thick	m	188.50
	(ii) [12.59.7.2] - 4.5 mm thick	m	193.00
15.34	Extra for providing and fixing ceiling to curved surfaces in narrow widths .	sqm	162.60
15.35	Providing and fixing false ceiling with 12 mm thick plain/or with design ceiling tiles of BWP type phenol formaldehyde synthetic resin bonded pressed particle board conforming to IS:3087 finished with a coat of aluminium primer on both sides & edges and two coats of synthetic enamel paint of approved quality on exposed face fixed to a grid made out of anodised aluminium(with 15 micron anodic coating) T-sections 35 x15x1.5 mm size main runners and cross runners 23.5x19x1.5 mm fixed to main runners placed 600 mm centre to centre both ways so as to form a grid of 600 mm square. The frame work shall be suspended from ceiling by level adjusting hangers of 6 mm dia M.S rod fixed to roof slab by means of ceiling cleats. The suspenders shall be placed 600x 1200 mm centre to centre including fixing to the frame with C.P brace screws and applying a priming coat of zinc chromate yellow primer :	sqm	363.00
15.36	Extra for using 12mm thick semi perforated ceiling tiles instead of 12mm thick plain ceiling tiles in item above.	sqm	51.10
15.37	Extra for providing 3 mm thick translucent white acrylic plastic sheets of approved quality in false ceiling instead of 12 mm thick plain/or with design particle board ceiling tiles in item above.	sqm	257.90

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SL NO	DESCRIPTION	UNIT	RATE (Rs p)
15.38	Providing 10 mm thick plaster of Paris (gypsum anhydrous) ceiling upto a height of 5 m above floor level over first class focal wood strips 25x6 mm with 10 mm gap in between and reinforced with rabbit wire mesh fixed to wooden frame (frame work to be paid separately) : <i>(12.61 C.P.W.D. 2002)</i>		
	(a) [12.61.1] - Flat surfaces	sqm	1508.90
	(b) [12.61.2] - Curved surfaces	sqm	1633.70
15.39	Extra for any sunk or raised mouldings in the plaster of Paris (Gypsum anhydrous) ceiling :	sqm	584.90
15.40	Extra for providing plaster of Paris (Gypsum anhydrous) ceiling above 5 metres height from floor level .	sqm	94.60
15.41	Providing and fixing 12 mm thick plaster of Paris (gypsum anhydrous) ceiling tiles upto a height of 5 mtrs above floor level over wooden frames and rendered smooth with plaster of Paris (frame work to be paid separately)	sqm	1069.10
15.42	Extra for providing and fixing plaster of paris (Gypsum anhydrous) ceiling tiles beyond 5 mtrs height from floor level (Height beyond 5m to be measured for extra payment).	sqm	50.80
15.43	Providing, fixing and applying plaster of paris (POP) false ceiling consisting of frame work made with 50mm square M.S. tubes of 18 G thickness as main runner at 600mm c/c both ways, suspended/ supported with M.S. flats 25x4 mm from existing R.C.C. slab including providing and fixing expanded metal of size 5.25mmx1.25mm thickness welded to main runners and applying POP (calcium sulphate semihydrate variety) to the expanded metal of thickness not less than 10 mm finished smooth to line and level including necessary supports scaffolding etc. as required and also including applying a coat of red oxide zinc chromate primer over the M.S. frame work and suspenders complete.	sqm	1159.50
15.44	Providing and fixing plaster of paris (POP) false ceiling consisting of frame work made with 50mm square M.S. tubes of 18 G thickness as main runners at 600mm c/c both ways, suspended /supported with M.S. flats 25x4mm from existing R.C.C. slab including providing and fixing minimum 10 mm thick POP (calcium sulphate semihydrate variety) jute reinforced tiles of 600x600 mm of plain/or of approved design finished smooth to line and level including necessary supports scaffolding etc. as required and also including applying a coat of red oxide zinc chromate primer over the M.S. frame work and suspenders complete.	sqm	977.00

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
15.45	Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183 (Twiga Insul 1000/ 50mm or equivalent) density 24kg/m ³ , 50mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats (50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24g wire and mesh. for top most ceiling of building.	sqm	506.20
15.46	Providing and fixing thermal insulation with Resin Bonded Fibre glass wool conforming to IS : 8183 (Twiga Insul 1000/ 50mm or equivalent). Density 16kg/m ³ , 50mm thick, wrapped in 200G Virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.	sqm	215.50
15.47	Thermal Insulation of roofing with Expanded polystyrene fixed with suitable adhesive to the false ceiling as per the directions of the Engineer-in-charge : (12.67B C.P.W.D. 2002)		
	(a) [12.67B.1] - With Type N - Normal 50 mm thick	sqm	188.40
	(b) [12.67B.2] - With Type SE - Self Extinguishing type 50mm thick	sqm	221.60
15.48	Providing and fixing at all height false ceiling of 12.5mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm dia x230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the gypsum board with recommended filler, paper tapes, finisher and two coats of primer suitable for gypsum board as per manufactures specification and also including the coat of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer-in- Charge but	sqm	964.20

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
15.49	<p>Providing and fixing at all height false ceiling of 3mm thick PVC rigid foam sheet manufactured by M/s Rajshri or equivalent including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating 600 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm dia x 40mm long with 6mm dia bolts to the angle hanger of 25 x 25 x 5mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick botton wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the PVC rigid foam sheet with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of the PVC sheet as per manufacturers specification and including the cost of making opening for light fittings, grills, diffusers, cutouts made with the frame of perimeter channels suitably fixed all complete as per drawing and (12.82A C.P.W.D. 2002)</p>	sqm	992.00
15.50	<p>Providing and fixing 15mm thick USG - Radar Mineral Fibre False Ceiling Tiles or equivalent of size 600x600 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanized @ 170 gsm/sqm.) consisting of main "T" runner suitably spaced at joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form 15mm thick mineral fibre false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats fixed to ceiling with 6 mm dia and 50mm long dash fasteners, 4mm GI adjustable rods with galvanised level clips spaced at 1200m center to center along main T, bottom exposed width of 24mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-Charge.</p>	sqm	921.00