

## CHAPTER NO. 12

### STONE MASONRY

**Notes :-**

- (i) The labour rates include the cost of water, tools and plant, labour and materials for scaffolding and centring and shuttering, ladders, plant & templates wherever required and cost of good earth for mud mortar where required.
- (ii) Unless otherwise stated, the labour rates include the rehandling of materials within 100 metres.
- (iii) The labour rates including the cost of dressing stones according to the relevant PWD Specifications.
- (iv) The labour as well as through rates for item nos. 12.11, to 12.13, 12.16 to 12.24, 12.28 to 12.33 are applicable when quarried stone is used. When work is built with small boulders or with stone obtained by breaking large boulders, the above rates will be increased by Rs.180.00 per cum on account of extra labour involved in dressing.
- (v) The through rate of the stone masonry, include the cost of stone at the site of work irrespective of the distance from the source, but stone masonry will normally be constructed in such area, where stone is available locally, or in the vicinity of the site of the work. Variations in actual lead in such cases will be taken care of, by premium/*abatement* over the schedule rates. Where, however stone is not available near at hand but has to be brought from long distances, item of stone masonry should not be specified, and if, some work has to be constructed in stone due to very special reasons, extra provision for carriage of stone should be made in the estimates.

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	<b>ASHLAR MASONRY</b>					
12.1	Fine ashlar in cement mortar (1:3) up to 6 metres above plinth level.	cum	6694.29	7723.18	7363.72	8392.61
12.2	Fine ashlar in cement mortar (1:6) up to 6 metres above plinth level.	cum	6694.29	8383.51	7363.72	9052.94
12.3	Rough tooled bastard ashlar in cement mortar (1:3) up to 6 metres above plinth level.	cum	4679.47	5903.91	5147.42	6371.86
12.4	Rough tooled or bastard ashlar in cement mortar (1:6) up to 6 metres above plinth level.	cum	4679.47	5653.32	5147.42	6121.27
12.5	Rustic ashlar in cement mortar (1:3) up to 6 metres above plinth level.	cum	4619.44	5843.88	5081.38	6305.82
12.6	Rustic ashlar in cement mortar (1:6) up to 6 metres above plinth level.	cum	4619.44	5593.29	5081.38	6055.23

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
12.7	Extra for above items for every additional storey of height up to 4 metres above the top of structural roof of lower storey.	cum	124.53	124.53	136.98	136.98
12.8	Extra for arch work excluding centring and shuttering.	cum	268.56	268.56	295.42	295.42
12.9	Cut stone work in cornices, string courses, etc. in cement mortar 1:3.	cum	9979.35	11008.24	10977.29	12006.18
12.10	Cut stone work in cornices, string courses, etc. in cement mortar 1:4.	cum	9979.35	10940.05	10977.29	11937.99
<b>Block in Course Rubble Masonry</b>						
12.11	Block in course up to 4 metres above plinth level in cement mortar 1:4	cum	3623.10	4813.72	3985.41	5176.03
12.12	Block in course up to 4 metres above plinth level in cement mortar 1:5	cum	3623.10	4714.65	3985.41	5076.96
12.13	Block in course up to 4 metres above plinth level in cement mortar 1:6	cum	3623.10	4647.62	3985.41	5009.93
12.14	Extra for above items for every additional storey of height up to 4 metres above the top of structural roof of lower storey.	cum	102.67	102.67	112.94	112.94
12.15	Add extra for arch work including centring and shuttering.	cum	268.56	339.55	295.42	366.41
<b>Squared or Rectangular Pillars of Rubble Masonry</b>						
12.16	Squared rubble masonry coursed (coursed rubble) in foundations and plinth in cement mortar 1:4	cum	1113.00	2394.95	1224.30	2506.25
12.17	Squared rubble masonry coursed (coursed rubble) in foundations and plinth in cement mortar 1:5	cum	1113.00	2269.66	1224.30	2380.96
12.18	Squared rubble masonry coursed (coursed rubble) in foundations and plinth in cement mortar 1:6	cum	1113.00	2188.07	1224.30	2299.37
12.19	Squared rubble masonry coursed (coursed rubble) in foundations and plinth in mud mortar	cum	972.66	1561.29	1069.93	1658.56

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
12.20	Squared rubble masonry coursed (coursed rubble) in foundations, plinth and superstructure laid dry.					
	(a) Where building stone is specially arranged by the contractor.	cum	701.18	1289.81	771.30	1359.93
	(b) Where stone is available within 100 metres from rock cutting already done.	cum	705.06	-	775.57	-
	(c) Where stone is available within 100 metres from dismantled or failed structure.	cum	546.82	-	601.50	-
12.21	Squared rubble masonry uncoursed or built to courses in foundations and plinth in cement mortar 1:4 to a pattern if specified.	cum	1212.85	2494.80	1334.14	2616.09
12.22	Squared rubble masonry uncoursed or built to courses in foundations and plinth in cement mortar 1:5 to a pattern if specified.	cum	1212.85	2369.51	1334.14	2490.80
12.23	Squared rubble masonry uncoursed or built to courses in foundations and plinth in cement mortar 1:6 to a pattern if specified.	cum	1212.85	2287.92	1334.14	2409.21
12.24	Squared rubble masonry uncoursed or built to courses in foundations and plinth in mud mortar to a pattern if specified.	cum	1045.05	1633.68	1149.56	1738.19
12.25	Add for work in super structure up to 4 metres above plinth level.	cum	185.36	185.36	203.90	203.90
12.26	Extra for above items for every additional storey of height up to 4 metres above the top of structural roof of lower storey.	cum	118.97	118.97	130.87	130.87
12.27	Extra for arch work including centring and shuttering.	cum	268.56	339.55	295.42	366.41
	<b>Random Rubble Masonry</b>					
12.28	Random rubble masonry or polygonal rubble masonry (Kentish Rag) or random or polygonal rubble built to courses in foundations and plinth in cement mortar 1:8	cum	943.75	1971.69	1038.13	2066.07

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
12.29	Random rubble masonry or polygonal rubble masonry (Kentish Rag) or random or a polygonal rubble built to courses in foundations and plinth in cement mortar 1:7	cum	943.75	2029.96	1038.13	2124.34
12.30	Random rubble masonry or polygonal rubble masonry (Kentish Rag) or random or polygonal rubble built to courses in foundations and plinth in cement mortar 1:6.	cum	943.75	2096.99	1038.13	2191.37
12.31	Random rubble masonry or polygonal rubble masonry (Kentish Rag) or random or polygonal rubble built to courses in foundations and plinth in mud mortar	cum	542.44	1131.07	596.68	1185.31
12.32	Random rubble masonry or polygonal rubble masonry (Kentish Rag) or random or polygonal rubble built to courses in foundations and plinth and superstructure laid dry.					
	(a) Where building stone is specially arranged by the contractor.	cum	659.87	1248.50	725.86	1314.49
	(b) Where stone is available within 100 metres from rock cutting already done.	cum	460.17	-	506.19	-
	(c) Where stone is available within 100 metres from dismantled or failed structure.	cum	602.26	-	662.49	-
12.33	Boulder masonry in cement mortar (1:6) in foundations and plinth.	cum	943.75	2175.14	1038.13	2269.52
12.34	Boulder masonry in mud mortar in foundations and plinth.	cum	542.44	1131.07	596.68	1185.31
12.35	Add for work in super structure 4 metres above plinth level.	cum	185.36	185.36	203.90	203.90
12.36	Extra for above items for every additional storey of height up to 4 metres above the top of structural roof of lower storey.	cum	109.60	109.60	120.56	120.56
12.37	Rough hammer dressing of boulders :-					

Sr. No.	Description	Unit	Plains		Sub-Mountainous	
			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	(a) Quartzite stone 2-3 faces	cum of masonry	316.94	-	348.63	-
	(b) Quartzite stone 4-5 faces	cum of masonry	521.49	-	573.64	-
	(c) Sand stone 2-3 faces	cum of masonry	255.51	-	281.06	-
	(d) Sand stone 4-5 faces	cum of masonry	426.08	-	468.69	-
12.38	Hammer dressing of stone for face work	sqm of face area	99.65	-	109.62	-
12.39	Fine chisel dressing (three-line dressing) of stones.	sqm of dressed area	363.74	-	400.11	-
12.40	Ordinary chisel dressing (two-line dressing) of stones.	sqm. of dressed area	198.41	-	218.25	-
12.41	Rough tooled dressing (one-line dressing) of stones.	sqm. of dressed area	151.99	-	167.19	5.00
12.42	Dry stone masonry for work of purely temporary nature (excluding dressing)	cum	283.45	-	311.80	-
12.43	Stone filling behind retaining walls.	cum	156.04	676.61	171.64	692.21

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			Labour Rate	Through Rate	Labour Rate	Through Rate
1	2	3	4	5	6	7
	<b>DHAJJI WALLING</b>					
12.44	Walling 12.5cm thick kail framing unwrought with stone in cement mortar 1:6 with plaster and white washing but including treatment of frame work for plastering.	sqm	-	-	302.50	2887.09
12.45	Walling 12.5cm thick kail framing unwrought with stone in mud mortar without plaster and without white washing but including treatment of frame work for plastering.	sqm	-	-	293.70	2780.12
12.46	Extra for laying stone masonry in or under water and/or liquid mud including cost of pumping or bailing out water and removing slush etc. complete	cum	212.00	212.00	233.20	233.20