

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 |
| | ASHLAR MASONRY | | | | | |
| 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 |

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|---|--|------|-------------|--------------|-----------------|--------------|
| | | | 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 |
| Block in Course Rubble Masonry | | | | | | |
| 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 |
| Squared or Rectangular Pillars of Rubble Masonry | | | | | | |
| 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 |

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|---------|---|------|-------------|--------------|-----------------|--------------|
| | | | 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 |
| | Random Rubble Masonry | | | | | |
| 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 |

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|---------|---|------|-------------|--------------|-----------------|--------------|
| | | | 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 :- | | | | | |

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|---------|--|---------------------------|----------------------|-------------|--------------|-----------------|--------------|
| | | | | 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 |
| | DHAJJI WALLING | | | | | |
| 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 |