

SECTION 30 MISCELLANEOUS TASKS

0635. Site Clearance. Most road construction projects entail site clearance. This may involve clearing grass, scrub, or jungle, by hand or with mechanical equipment, and removing tree stumps or large boulders by blasting. Typical tasks are listed in Table 6.12 which gives estimates of the amount of clearing achieved according to the method and equipment employed.

0636. Miscellaneous Tasks using Hand Labor. In some tasks, such as road repair, the use of plant may be uneconomical or impracticable and hand labor may prove the best method. Table 6.13 gives some Figures which may be used as a guide in planning small projects employing hand labor.

TABLE 6.12(a) ESTIMATES FOR SITE CLEARANCE

Serial	Task	Method	Output
(a)	(b)	(c)	(d)
1	Cutting weeds, grass, etc	Mower towed by light tractor	8,350 m ² /hr
2	Cutting weeds, grass, etc	Hands tools	65 m ² /man-hr(i)
3	Clearing bushes and scrub	Medium dozer	835 m ² /hr
4	Clearing bushes and scrub	Hands tools	35 m ² /man-hr(i)
5	Clearing dense undergrowth with saplings up to 100 mm diameter and larger	Medium dozer	835 m ² /hr
6	Clearing dense undergrowth with saplings up to 100 mm diameter and larger	Hands tools	12.5 m ² /man-hr(i)
7	Clearing primary jungle (SE Asia) with trees 900 mm diameter and larger	Heavy dozer and 6 men with hand tools	520 m ² in 30 m strips per hour leaving 3 or 4 trees of 900 mm diameter or larger to be cleared by hand party
8	Clearing trees (including stumps) 100 to 250 mm diameter	Medium dozer	3 to 10 min per tree

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9	Clearing trees (including stumps) 300 to 760 mm diameter	Medium dozer	20 to 60 min per tree
10	Grubbing stumps by blasting	3-man team with pneumatic tools	30 to 60 min per stump
11	Breaking up boulders by blasting	3-man team with pneumatic tools	40 to 60 min per boulder 1.8 to 2.7 m diameter

TABLE 6.12 (b) ESTIMATES FOR SITE CLEARANCE USING HAND TOOLS

Serial (Serials relate to Table 6-7(a))	Single traffic lane 9 m wide (man-hrs per 100 m)	Duble traffic lane 13 m wide (man-hrs per 100 m)
(a)	(b)	(c)
2	14.0	19.0
4	27.5	38.5
6	80.0	110.0

TABLE 6.13 ESTIMATES FOR MISCELLANEOUS TASKS USING HAND LABOUR

Serial	Task	Labour required (man-hrs per m ³)
(a)	(b)	(c)
1	Break out concrete, nit exceeding 300 mm thick	18.50
2	Break out hardcore	5.20
3	Break out waterbound macadam and hardcore under	6.5
4	Break out tarmacadam and hardcore under	7.30
5	Lay clinker	0.90
6	Lay hardcore	1.17
7	Lay water bound macadam	1.17
8	Lay tarmacadam	1.56