

Sr. No.	Description	Unit	Rate (Rs.)	
			Labour	Composite
3.1	Earth work excavation undressed, lead upto a single throw of kassi, phaorah or shovel.			
a)	In ashes, sand, soft soil or silt clearance.	Cu.m. Cu.ft..	61.00 1.75	61.00 1.75
b)	In ordinary soil	Cu.m. Cu.ft..	76.25 2.15	76.25 2.15
c)	In hard soil	Cu.m. Cu.ft..	106.75 3.00	106.75 3.00
d)	In shingle or gravel	Cu.m. Cu.ft..	213.50 6.05	213.50 6.05
3-2	Earth work excavation undressed, lead upto 50 ft. (15m.)			
a)	In ashes, sand, soft soil or silt clearance.	Cu.m. Cu.ft..	67.10 1.90	67.10 1.90
b)	In ordinary soil	Cu.m. Cu.ft..	83.90 2.40	83.90 2.40
c)	In hard soil	Cu.m. Cu.ft..	117.45 3.35	117.45 3.35
d)	In shingle or gravel	Cu.m. Cu.ft..	234.85 6.65	234.85 6.65
3-3	Bed clearance in ordinary soil and dressing slopes of drains to required section including removal of weeds, roots etc. and disposal of excavated material within 50 ft. (15m) lead.			
a)	Excavated material undressed	Cu.m. Cu.ft..	122.00 3.45	122.00 3.45
b)	Excavated material dressed in specified manner.	Cu.m. Cu.ft..	140.30 3.95	140.30 3.95
3-4	Borrow pit excavation depth upto 10 ft. (3 m) undressed lead upto 100 ft. (30m)			
a)	Sand	Cu.m. Cu.ft..	112.85 3.20	112.85 3.20
b)	Ordinary soil	Cu.m. Cu.ft..	140.30 3.95	140.30 3.95
c)	Hard soil	Cu.m. Cu.ft..	170.80 4.85	170.80 4.85
d)	Shingle or gravel	Cu.m. Cu.ft..	274.50 7.75	274.50 7.75



Sr. No.	Description	Unit	Rate (Rs.)	
			Labour	Composite
3-5	Earthwork for embankment lead upto 100 ft. (30m) and compaction by mechanical means at optimum moisture content, dressing to designed section including laying, leveling and watering.			
	<b>A. Sand</b>			
i)	95% maximum modified AASHTO dry density	Cu.m. Cu.ft..	152.50 4.30	372.10 10.55
ii)	90% maximum modified AASHTO dry density	Cu.m. Cu.ft..	152.50 4.30	298.90 8.45
iii)	85% maximum modified AASHTO dry density	Cu.m. Cu.ft..	152.50 4.30	225.70 6.40
	<b>B. Ordinary soil</b>			
i)	95% maximum modified AASHTO dry density	Cu.m. Cu.ft..	183.00 5.20	402.60 11.40
ii)	90% maximum modified AASHTO dry density	Cu.m. Cu.ft..	183.00 5.20	329.40 9.35
iii)	85% maximum modified AASHTO dry density	Cu.m. Cu.ft..	183.00 5.20	256.20 7.25
	<b>C. Hard soil</b>			
i)	95% maximum modified AASHTO dry density	Cu.m. Cu.ft..	213.50 6.05	433.10 12.25
ii)	90% maximum modified AASHTO dry density	Cu.m. Cu.ft..	213.50 6.05	359.90 10.20
iii)	85% maximum modified AASHTO dry density	Cu.m. Cu.ft..	213.50 6.05	286.70 8.10
	<b>D. Shingle or gravel</b>			
i)	95% maximum modified AASHTO dry density	Cu.m. Cu.ft..	320.25 9.05	539.85 15.30
ii)	90% maximum modified AASHTO dry density	Cu.m. Cu.ft..	320.25 9.05	466.65 13.20
iii)	85% maximum modified AASHTO dry density	Cu.m. Cu.ft..	320.25 9.05	393.45 11.15
3-6	Earthwork for embankment lead upto 100 ft. (30m) and compaction by manual labour at optimum moisture content, dressing to designed section, laying, leveling and watering.			
a)	Sand	Cu.m. Cu.ft..	164.70 4.65	164.70 4.65
b)	Ordinary soil	Cu.m. Cu.ft..	192.15 5.45	192.15 5.45
c)	Hard soil	Cu.m. Cu.ft..	292.80 8.30	292.80 8.30

Sr. No.	Description	Unit	Rate (Rs.)	
			Labour	Composite
d)	Shingle or gravel	Cu.m. Cu.ft..	399.55 11.30	399.55 11.30
3-7	Earthwork excavation in open cutting upto 5 ft. (1.5 m) depth for storm water channels, drains, sullage drains in open area, roads, streets, lanes including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches dressed to designed level and dimension, trimming, removal of surface water from trenches, backfilling and disposal of surplus excavated material upto 50 ft. (15 m) including dressing			
a)	Sand	Cu.m. Cu.ft..	157.40 4.45	173.15 4.90
b)	Ordinary soil	Cu.m. Cu.ft..	184.85 5.25	203.35 5.75
c)	Hard soil	Cu.m. Cu.ft..	215.35 6.10	236.90 6.70
d)	Shingle or gravel	Cu.m. Cu.ft..	416.65 11.80	458.30 13.00
3-8	Earthwork excavation in open cutting upto 5 ft. to 10 ft. (1.5 m to 3 m) depth for storm water channels, drains, sullage drains in open area, roads, streets, lanes including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches dressed to designed level and dimension, trimming, removal of surface water from trenches, backfilling and disposal of surplus excavated material upto 100 ft. (30 m) including dressing			
a)	Sand	Cu.m. Cu.ft..	166.55 4.70	183.20 5.20
b)	Ordinary soil	Cu.m. Cu.ft..	203.15 5.75	223.45 6.35
c)	Hard soil	Cu.m. Cu.ft..	233.65 6.60	257.00 7.30
d)	Shingle or gravel	Cu.m. Cu.ft..	434.95 12.30	478.45 13.55
3-9	Excavation in shingle or gravel formation and rock, not requiring blasting, undressed lead upto 100 ft. (30m)			
a)	Dry	Cu.m. Cu.ft..	280.60 7.95	280.60 7.95
b)	Wet	Cu.m. Cu.ft..	335.50 9.50	335.50 9.50
c)	In flowing water	Cu.m. Cu.ft..	408.70 11.55	408.70 11.55
d)	Under water including dewatering	Cu.m. Cu.ft..	152.50 4.30	488.00 13.80

Sr. No.	Description	Unit	Rate (Rs.)	
			Labour	Composite
3-10	Earthwork excavation in irrigation channels drains etc. to designed section, grades and profiles excavated material disposed off and dressed within 50 ft (15m) lead.			
a)	Sand	Cu.m. Cu.ft..	101.85 2.90	101.85 2.90
b)	Ordinary soil	Cu.m. Cu.ft..	117.10 3.30	117.10 3.30
c)	Hard soil	Cu.m. Cu.ft..	132.35 3.75	132.35 3.75
d)	Shingle or gravel formation	Cu.m. Cu.ft..	311.10 8.80	311.10 8.80
3-11	Excavation in rock dressed to designed section, grades and profiles, excavated material disposed of within 100 ft.(30 m) & lift upto 6.5 ft. (2m.)			
a)	Soft rock, slate, shale, schist or laterite work, with pick and crow bar.	Cu.m. Cu.ft..	344.65 9.75	344.65 9.75
b)	Medium hard rock requiring occasional blasting	Cu.m. Cu.ft..	419.70 11.90	461.65 13.05
3-12	Excavation in hard rock requiring blasting and disposal of excavated material (blasted material) upto 50 ft. (15m) lead, (including dressing and levelling to designated section).			
a)	Grade I	Cu.m. Cu.ft..	220.20 6.25	264.25 7.50
b)	Grade II	Cu.m. Cu.ft..	242.22 6.85	317.10 9.00
c)	Grade III	Cu.m. Cu.ft..	266.44 7.55	380.50 10.80
d)	Grade IV	Cu.m. Cu.ft..	371.50 10.50	445.80 12.65
e)	Grade V	Cu.m. Cu.ft..	408.65 11.55	490.38 13.90
f)	Grade VI	Cu.m. Cu.ft..	449.52 12.75	539.42 15.30
3-13	Excavation in hard rock requiring blasting but blasting prohibited and disposal of excavated material within 50 ft. (15m) lead, (including dressing and levelling to designed section etc.).			
a)	Grade I	Cu.m. Cu.ft..	425.50 12.05	489.30 13.85
b)	Grade II	Cu.m. Cu.ft..	531.90 15.05	611.60 17.30



Sr. No.	Description	Unit	Rate (Rs.)	
			Labour	Composite
c)	Grade III	Cu.m.	664.90	764.55
		Cu.ft..	18.85	21.65
d)	Grade IV	Cu.m.	709.15	850.95
		Cu.ft..	20.10	24.10
e)	Grade V	Cu.m.	780.00	936.00
		Cu.ft..	22.10	26.50
f)	Grade VI	Cu.m.	858.05	1029.65
		Cu.ft..	24.30	29.15
3-14	Rehandling of earthwork			
a)	Lead upto a single throw of Kassi, phaorah or shovel	Cu.m.	39.65	39.65
		Cu.ft..	1.10	1.10
b)	Upto a lead of 50 ft. (15 m.)	Cu.m.	51.85	51.85
		Cu.ft..	1.45	1.45
3-15	Rehandling of gravel work or excavated rock, lead upto 50 ft. (15m.)	Cu.m.	152.50	152.50
		Cu.ft..	4.30	4.30
3-16	Filling, watering and ramming earth under floors.			
a)	With surplus earth from foundation etc.	Cu.m.	76.85	76.85
		Cu.ft..	2.20	2.20
b)	With new earth excavated from outside, lead upto 100 ft. (30m) and lift upto 5 ft. (1.5m)	Cu.m.	151.90	151.90
		Cu.ft..	4.30	4.30
3-17	Filling, watering and ramming earth under floors for every 50 ft. (15m) additional lead or part thereof. (Maximum upto 1000 ft. (300 m)			
a)	For earthwork soft, ordinary, hard and very hard	Cu.m.	4.90	4.90
		Cu.ft..	0.15	0.15
b)	For gravel, shingle or rock	Cu.m.	6.10	6.10
		Cu.ft..	0.15	0.15
3-18	Dressing and levelling of earthwork to designed section.			
a)	Ashes, sand, silt or soft soil	Cu.m.	5.50	5.50
		Cu.ft..	0.15	0.15
b)	Ordinary or hard soil	Cu.m.	11.00	11.00
		Cu.ft..	0.30	0.30
c)	Gravel work or soft rock not requiring blasting	Cu.m.	31.10	31.10
		Cu.ft..	0.90	0.90
3-19	Dressing dowels of canal banks, marginal bunds and flood protection bunds.	R.M.	6.70	6.70
		R.ft..	2.05	2.05
3-20				
a)	Dressing slopes of banks or ground surface	Sq.m.	7.95	7.95
		Sq.ft..	0.75	0.75
b)	Dressing of earthwork by machinery or otherwise and left undressed	Sq.m.	9.15	9.15
		Sq.ft..	0.85	0.85



Sr. No.	Description	Unit	Rate (Rs.)	
			Labour	Composite
3-21	Excavation in foundation of buildings, bridges, and other structures including layout, dressing, refilling around structures with excavated earth, watering & ramming lead upto 100 ft. (30m) & lift upto 5 ft. (1.5m)			
a)	Sand, ashes or loose soil	Cu.m. Cu.ft..	137.30 3.90	137.30 3.90
b)	Ordinary soil	Cu.m. Cu.ft..	146.40 4.15	146.40 4.15
c)	Hard soil or soft murum	Cu.m. Cu.ft..	167.80 4.75	167.80 4.75
d)	Shingle or gravel	Cu.m. Cu.ft..	213.50 6.05	213.50 6.05
3-22	Cutting hard rock such as granite, ballast, hard lime stone or sand stone etc. with chisels and hammers for small foundation.	Cu.m. Cu.ft..	1012.60 28.70	1207.50 34.20
3-23	Extra for excavation requiring shoring.	Cu.m. Cu.ft..	20.90 0.60	28.20 0.80
3-24	Compaction of earthwork (soft, ordinary, or hard soil)			
a)	Mixing, moisturing earth to optimum moisture content in layers for compaction.	Cu.m. Cu.ft..	14.00 0.40	14.00 0.40
b)	Compaction by rolling with animal driven roller/hand rammed.			
i)	Soft and sandy soil	Cu.m. Cu.ft..	16.10 0.45	16.10 0.45
ii)	Ordinary soil	Cu.m. Cu.ft..	16.70 0.45	16.70 0.45
iii)	Hard soil	Cu.m. Cu.ft..	18.00 0.50	18.00 0.50
iv)	Shingle or gravel	Cu.m. Cu.ft..	19.80 0.55	19.80 0.55
c)	Ramming earth work (all type of soil)	Cu.m. Cu.ft..	24.80 0.70	24.80 0.70
d)	Ramming earth work behind retaining wall	Cu.m. Cu.ft..	31.00 0.90	31.00 0.90
3-25	Compaction of earthwork in embankment to full depth and width by approved mechanical means in layer not exceeding 10 inches (230mm) in depth at optimum moisture content including watering by mechanical means.			
a)	95% maximum modified AASHTO dry density.	Cu.m. Cu.ft..	18.60 0.55	151.30 4.30
b)	90% maximum modified AASHTO dry density.	Cu.m. Cu.ft..	18.55 0.55	170.25 4.80
c)	85% maximum modified AASHTO dry density.	Cu.m. Cu.ft..	18.55 0.55	155.70 4.40



Sr. No.	Description	Unit	Rate (Rs.)	
			Labour	Composite
3-26	Extra for wet earthwork (Supporting man's weight)	Cu.m.	61.00	61.00
		Cu.ft..	1.75	1.75
3-27	Extra for slush or daldal including dewatering (Not supporting man's weight)	Cu.m.	137.25	137.25
		Cu.ft..	3.90	3.90
3-28	Extra for excavation requiring shoring.	Cu.m.	88.45	88.45
		Cu.ft..	2.50	2.50
3-29	Earthwork on small rain water drains, along canal banks, roads and plantation drains dressed.	R.M.	15.25	15.25
		R.ft..	4.65	4.65
3-30	Filling and compacting soil, earth and boulders behind retaining walls (including excavation of soil and lead upto 50 ft. (15m)	Cu.m.	134.20	134.20
		Cu.ft..	3.80	3.80
3-31	Dag belling 3" (75 mm.) deep	Per Km.	732.00	732.00
		Per Mile	1178.05	1178.05
3-32	Turving slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Truf obtained from within a distance of 8km (5 miles) and maintained for 15 days).	Sq.m.	91.50	91.50
		Sq.ft..	8.50	8.50
3-33	Berm Cutting.			
a)	Lead upto a single throw of kassi, phaorah or shovel (without dressing)	Cu.m.	73.20	73.20
		Cu.ft..	2.05	2.05
b)	Lead upto 50 ft. (15 m.), including dressing	Cu.m.	122.00	122.00
		Cu.ft..	3.45	3.45
3-34	Berm trimming both sides of channels.			
a)	Upto 3 ft. (1.0 m) depth	Per Km.	2952.40	2952.40
		Per Mile	4751.45	4751.45
b)	Exceeding 3 ft. to 5 ft. (1.0 m to 1.5 m) depth	Per Km.	4001.60	4001.60
		Per Mile	6439.95	6439.95
c)	Exceeding 5 ft. to 8 ft. (1.5m to 2.5m) depth	Per Km.	6441.60	6441.60
		Per Mile	10366.75	10366.75
3-35	Ploughing and levelling borrow pits.			
a)	Upto 3 ft. (1 m) depth	Per Hec.	1952.00	1952.00
		Per Acre	789.95	789.95
b)	Above 3 ft. (1 m) depth	Per Hec.	3904.00	3904.00
		Per Acre	1579.90	1579.90
3-36	Making boundary or service roads including dagbelling, levelling and dressing.			
a)	Unploughed land			
i)	From 10 ft. to 20 ft. (3 m. to 6 m.) wide	R.M.	18.30	18.30
		R.ft..	5.60	5.60
ii)	From 20 ft. to 40 ft. (6 m. to 12 m.) wide	R.M.	21.35	21.35
		R.ft..	6.50	6.50

Sr. No.	Description	Unit	Rate (Rs.)	
			Labour	Composite
b)	Carriage by boats upto 1000 ft. (300 m)			
i)	From 10 ft. to 20 ft. (3 m to 6 m) wide	R.M. R.ft..	19.20 5.85	19.20 5.85
ii)	From 20 ft. to 40 ft. (6 m. to 12 m.) wide	R.M. R.ft..	22.40 6.85	22.40 6.85
3-37	Earthwork by boats, including hire charges of boats.			
a)	Digging and loading into boats upto 50 ft. (15 m) lead	Cu.m. Cu.ft..	122.00 3.45	122.00 3.45
b)	Carriage by boats upto 1000 ft. (300 m)	Cu.m. Cu.ft..	30.50 0.85	30.50 0.85
c)	Extra for every additional 100 ft. (30m) or part thereof beyond 1000 ft. (300m)	Cu.m. Cu.ft..	3.05 0.10	3.05 0.10
d)	Carriage by boats upto 1000 ft. (300 m)	Cu.m. Cu.ft..	61.00 1.75	61.00 1.75
3-38	Unloading earth from B.G. trucks and clearing 5 ft. (1.5 m) from rail	Cu.m. Cu.ft..	51.85 1.45	51.85 1.45
3-39	Earthwork by tramway, digging and loading into trucks, upto 50 ft. (15m) lead	Cu.m. Cu.ft..	122.00 3.45	122.00 3.45
3-40	Unloading earth from B.G. trucks and spreading upto 50 ft. (15m) from rail	Cu.m. Cu.ft..	85.40 2.40	85.40 2.40
3-41	Supplying clean and screened river or pit sand within 500 ft. (150m)	Cu.m. Cu.ft..	152.50 4.30	152.50 4.30
3-42	Excavation in open cutting for sewers and manholes as shown in drawings, dressing to correct sections and dimensions according to templates and levels and removing surface water in all types of soil except rock			
a)	<b>Upto 5 ft. (1.5 m) depth</b>			
i)	Sand	Cu.m. Cu.ft..	91.50 2.60	91.50 2.60
ii)	Ordinary soil	Cu.m. Cu.ft..	122.00 3.45	122.00 3.45
iii)	Hard soil	Cu.m. Cu.ft..	137.25 3.90	137.25 3.90
iv)	Shingle or gravel	Cu.m. Cu.ft..	244.00 6.90	244.00 6.90
b)	<b>Below 5 ft. to 10 ft. (1.5 m to 3.0 m) depth</b>			
i)	Sand	Cu.m. Cu.ft..	122.00 3.45	122.00 3.45
ii)	Ordinary soil	Cu.m. Cu.ft..	146.40 4.15	146.40 4.15



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			Labour	Composite
iii)	Hard soil	Cu.m. Cu.ft..	164.70 4.65	164.70 4.65
iv)	Shingle or gravel	Cu.m. Cu.ft..	292.80 8.30	292.80 8.30
<b>c) Below 10 ft. to 15 ft. (3.0 m to 4.5 m) depth</b>				
i)	Sand	Cu.m. Cu.ft..	146.40 4.15	146.40 4.15
ii)	Ordinary soil	Cu.m. Cu.ft..	175.70 5.00	175.70 5.00
iii)	Hard soil	Cu.m. Cu.ft..	197.65 5.60	197.65 5.60
iv)	Shingle or gravel	Cu.m. Cu.ft..	351.35 9.95	351.35 9.95
<b>d) Below 15 ft. to 20 ft. (4.5 m to 6.0 m) depth</b>				
i)	Sand	Cu.m. Cu.ft..	175.70 5.00	175.70 5.00
ii)	Ordinary soil	Cu.m. Cu.ft..	210.80 5.95	210.80 5.95
iii)	Hard soil	Cu.m. Cu.ft..	237.15 6.70	237.15 6.70
iv)	Shingle or gravel	Cu.m. Cu.ft..	421.65 11.95	421.65 11.95
3-43	Providing and fixing close shuttering and timbering for excavation in open cutting for sewers and manholes as shown in drawings and removing of timbering after completion of job.			
a)	For depth upto 5 ft. (1.5 m.).	Sq.m. Sq.ft..	33.10 3.10	160.55 14.90
b)	For depth below 5 ft. to 10 ft. (1.5 m to 3.0 m.)	Sq.m. Sq.ft..	37.80 3.50	176.35 16.40
c)	For depth below 10 ft. to 15 ft. (3.0 m to 4.5 m.)	Sq.m. Sq.ft..	42.55 3.95	248.65 23.10
d)	For depth below 15 ft. to 20 ft. (4.5 m to 6 m.)	Sq.m. Sq.ft..	47.25 4.40	280.40 26.05
3-44	Providing and fixing open shuttering and timbering for excavation in open cutting for sewers and manholes as shown in drawings and removing of timbering after completion of job.			
a)	For depth upto 5 ft. (1.5 m.).	Sq.m. Sq.ft..	33.10 3.10	115.95 10.80
b)	For depth below 5 ft. to 10 ft. (1.5 m to 3.0 m.)	Sq.m. Sq.ft..	37.80 3.50	131.75 12.25



Sr. No.	Description	Unit	Rate (Rs.)	
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c)	For depth below 10 ft. to 15 ft. (3.0 m to 4.5 m.)	Sq.m.	42.55	185.45
		Sq.ft..	3.95	17.25
d)	For depth below 15 ft. to 20 ft. (4.5 m to 6 m.)	Sq.m.	47.25	217.15
		Sq.ft..	4.40	20.20
3-45	Excavation in open cutting for sewer and manholes as shown in drawings below sub-soil water level to correct section and dimension according to templates and levels including shoring, timbering and shuttering of M.S. sheets on both sides of the trenches.			
a)	Upto 4 ft. (1.25 m) depth below S.S.W.L.	Cu.m.	201.30	388.45
		Cu.ft..	5.70	11.00
b)	Below 4 ft. to 8 ft. ( 1.25 m to 2.50 m ) depth below S.S.W.L.	Cu.m.	301.95	489.10
		Cu.ft..	8.55	13.85
c)	Exceeding below 8 ft. ( 2.5 m.) depth below S.S.W.L.	Cu.m.	402.60	589.75
		Cu.ft..	11.40	16.70
3-46	Earthwork excavation in irrigation channels, drains etc. upto 10 ft. (3m) depth to designed section, grades and profiles, excavated material disposed off and dressed within 50 ft. (15m) lead.			
a)	Sand	Cu.m.	91.50	91.50
		Cu.ft..	2.60	2.60
b)	Ordinary soil	Cu.m.	122.00	122.00
		Cu.ft..	3.45	3.45
c)	Hard soil	Cu.m.	152.50	152.50
		Cu.ft..	4.30	4.30
d)	Shingle or gravel	Cu.m.	289.75	289.75
		Cu.ft..	8.20	8.20
e)	Rock	Cu.m.	335.50	335.50
		Cu.ft..	9.50	9.50
3-47	Cutting and removing trees within a distance of 100 ft. (30m)			
a)	Upto 2.5 ft. ( 0.75 m.) girth	Each	854.00	854.00
		Each	1708.00	1708.00
b)	Above 2.5 ft. to 6 ft. ( 0.75 m to 1.8 m.) girth	Each	976.00	976.00
		Each	976.00	976.00
3-48	Up-rooting & removing stumps upto 100 ft.(30m) from 1.5 ft. to 6 ft. (0.50m to 1.75m) girth.	Each	976.00	976.00
3-49	Jungle clearance and removing upto 100 ft. ( 30m.)			
a)	Light	Sq.m.	122.00	122.00
		Sq.ft..	11.35	11.35
b)	Thick	Sq.m.	244.00	244.00
		Sq.ft..	22.70	22.70
3-50	Uprooting sarkanda growth & disposal upto 100 ft. ( 30 m.)	Sq.m.	4.90	4.90
		Sq.ft..	0.45	0.45
3-51	Ploughing three ( 3 ) times.	Per Hec.	4148.00	4148.00
		Per Acre	1678.65	1678.65