

2. EARTH WORK

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
2.01	Surface dressing of ground including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5m .		
	<i>(Basis :2.28 CPWD Analysis of Rates, 2012 Vol-I)</i>		
(a)	All kinds of soil	Sqm	94.70
2.02	Clearing landslips including removal of spoils upto 30m. (For recently deposited earthwork).		
	<i>(Basis : MPWD Analysis of Rates 2007)</i>		
	<i>At 70% of equivalent normal excavation work</i>		
	<i>Rates as per item no.2.03</i>		
(a)	Ordinary soil	cum	77.00
(b)	Rock debris (Blasting not required)	cum	116.5
(c)	Rocks (Blasting required)	cum	257.5
(d)	Rocks (Chiseling works required)	cum	636.1
	<i>Earthwork for landslips deposited before monsoon which has had full monsoon on it will be considered as a normal earthwork in excavation.</i>		
<i>Note :</i>			
	Earthwork in excavation exclusive of compensation of earth in -		
2.03			
	<i>(Basis : CPWD Analysis of Rates)</i>		
(a)	Ordinary soil		
	(i) Kassi work undressed involving an average horizontal throw upto 2 metres and an average vertical lift upto 0.50 metres including breaking of clods.	cum	83.40
	(ii) Earthwork with combined lead upto 15 metres including breaking of clods.	cum	110.00
(b)	Hard soil (pick work)	cum	166.40
(c)	Soft Rock (Blasting works).	cum	367.80
(d)	Hard Rock (Blasting work).	cum	413.70
(e)	Chiselling/ wedging out rock where blasting is prohibited.		
	(i) Soft Rock	cum	908.70
	(ii) Hard Rock	cum	1373.80
(f)	Marshy soil including pumping out water, removal of the same and disposal within a lead of 15 metres.	cum	164.9

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SL NO	DESCRIPTION	UNIT	RATE (Rs p)
2.04	Extra for additional lead as in through cutting or when excavated earth/ rock etc. cannot be disposed of directly to valley below, by manual means (when lead is more than 15m). <i>(Basis : CPWD Analysis of Rates 1997 Vol - I)</i>		
(a)	Ordinary and Hard Soil.	cum	79.50
(b)	Soft and Hard rock. <u>Details of cost for 17.5 cum.</u>		
(i)	Soft and Hard rock.	cum	127.30
(ii)	When overall lead is upto 100m.	cum	282.20
2.05	Earth work in excavation over areas not exceeding 30cm in depth. But exceeding 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. <i>(Basis :2.1 CPWD Analysis of Rates, 2012 Vol-I)</i>		
(a)	All kinds of soil	sqm	3833.00
2.06	Earthwork in excavation over areas (exceeding 30cm in depth,1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. <i>(Basis : CPWD Analysis of Rates 1997 Vol-I, 2.6.1)</i>		
(a)	Ordinary and Hard Soil	cum	284.30
(b)	Soft Rock (<i>blasting work</i>).	cum	477.00
(c)	Hard Rock (<i>blasting work</i>).	cum	636.40
(d)	Hard Rock (<i>blasting prohibited</i>).	cum	952.60
2.07	Earthwork in excavation in foundation trenches or drains etc. (not exceeding 1.5m in width or 10sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5m including getting out excavated soil and disposal of surplus excavated soil as directed within a lead of 50 metres. <i>(Basis : CPWD Analysis of Rates 1997 Vol-I)</i>		
(a)	Ordinary Soil	cum	290.20
(b)	Hard Soil (<i>pick work</i>) <i>(Coefficient for ordinary soil increased 1.5 times)</i>	cum	435.40
(c)	Very Hard Soil (<i>jumper work</i>) <i>(Coefficient for ordinary soil increased 2 times)</i>	cum	580.50
(d)	Soft Rock (<i>blasting work</i>).	cum	504.70
(e)	Hard Rock (<i>blasting work</i>).	cum	730.00
(f)	Hard Rock (<i>blasting prohibited</i>).	cum	983.90

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
2.08	Earthwork in excavation in foundation trenches etc. not exceeding 2 meters depth including dressing of bottom and sides of trenches and subsequent filling and compaction in 15cm layers as in column foundations, fence posts, etc. and disposal of all surplus soil as directed within a lead of 30 metres. <i>(Basis : CPWD Analysis of Rates 1997 Vol-I)</i>		
	(a) Ordinary Soil	cum	218.10
	(b) Hard Soil (<i>pick work</i>)	cum	327.20
	(c) Very Hard Soil (<i>jumper work</i>)	cum	509.00
	(d) Soft Rock (<i>blasting work</i>).	cum	539.10
	(e) Hard Rock (<i>blasting work</i>).	cum	720.40
	(f) Chiselling/ wedging out rock where blasting is prohibited.		
	(i) Soft Rock.	cum	1338.00
	(ii) Hard Rock	cum	2180.60
2.09	Close timbering in trenches including strutting, shoring and packing cavities (wherever required) complete. (Measurements to be taken of the face area timbered). <i>(Basis :2.17 CPWD Analysis of Rates, 2012 Vol-I)</i>		
	(a) Depth not exceeding 1.5 m.	sqm	113.80
	(b) Depth exceeding 1.5 m but not exceeding 3 m.		
	(c) 2.16.3 - Depth exceeding 3 m but not exceeding 4.5 m.		
2.10	Close timbering over areas including strutting, shoring and packing, cavities (wherever required) etc. complete. (Measurements to be taken of the face area timbered) : <i>(Basis :2.18 CPWD Analysis of Rates, 2012 Vol-I)</i>		
	(a) Depth not exceeding 1.5 m.	sqm	100.00
	(b) Depth exceeding 1.5 m but not exceeding 3 m.	sqm	106.40
	(c) Depth exceeding 3 m but not exceeding 4.5 m.	sqm	115.00
2.11	Extra for planking, strutting and packing materials for cavities (in close timbering) if required to be left permanently in position. (Face area of timber permanently left to be measured).	sqm	1507.40
2.12	Open timbering in trenches including strutting and shoring complete (measurements to be taken of the face area timbered) : <i>(Basis :2.20 CPWD Analysis of Rates, 2012 Vol-I)</i>		
	(a) Depth not exceeding 1.5 m.	sqm	53.40
	(b) Depth exceeding 1.5 m but not exceeding 3 m.	sqm	57.70
	(c) Depth exceeding 3 m but not exceeding 4.5 m.	sqm	64.00

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SL NO	DESCRIPTION	UNIT	RATE (Rs p)
2.13	Open timbering over areas including strutting, shoring etc. complete (Measurements to be taken of the face area timbered) :		
	<i>(Basis :2.22 CPWD Analysis of Rates, 2012 Vol-I)</i>		
	(a) Depth not exceeding 1.5 m.	sqm	37.20
	(b) Depth exceeding 1.5 m but not exceeding 3 m.	sqm	42.90
	(c) Depth exceeding 3 m but not exceeding 4.5 m.	sqm	50.90
2.14	Extra for planking and strutting in open timbering if required to be left permanently in position. (Face area of the timber permanently left to be measured).	sqm	669.50
2.15	Extra for every additional lift of 1.5 m or part thereof in . <i>(Basis :2.26CPWD Analysis of Rates, 2012 Vol-I)</i>		
	(a) All kinds of soil	cum	37.40
	(b) Ordinary or hard rock	cum	67.50
2.16	Extra for every additional lead upto 50m Or part thereof (2.8 - NABHI'S)	cum	90.10
2.17	Pumping out water caused by springs, tidal or rover seepage, broken water mains or drains and the like .	kl	105.10
2.18	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	90.30
2.19	Earth work in excavation by mechanical equipment including disposal of excavated earth, lead upto 50m and lift upto 5m, disposed earth to be levelled and neatly dressed . <i>(2:38 - C.P.W.D. 1997)</i>		
	(a) All kinds of soil (excluding ordinary & hard rock)	cum	13367.00
2.20	Earthwork in surface excavation and dressing including cutting and filling upto 15 cm depth, disposal of excavated earth upto 50m and lift upto 1.5m.	sqm	38.30
2.21	Providing and filling stone aggregates of size below 90mm in plinth, etc. in layers not exceeding 10 cms in depth, consolidating each layer by ramming and watering and dressing complete .	cum	1852.50
2.22	Providing and filling approved river sand in trenches, plinth, etc. in layers not exceeding 20 cms in depth, consolidating each layer by ramming and watering and dressing complete .	cum	1351.90

SL NO	DESCRIPTION	UNIT	RATE (Rs p)
ANTI TERMITE TREATMENT			
2.23	Diluting and injecting chemical emulsion for post constructional anti termite treatment with Chlorpyriphos/Lindane emulsifiable chemical 20% with 1% concentration. (Basis :2.35 CPWD Analysis of Rates, 2012 Vol-1)		
(a)	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres/sq.m of the vertical surface of the substructure to a depth of 300mm including excavation along the wall and rodding etc complete	m	92.70
(b)	Along external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc complete	m	115.50
(c)	Treatment of soil under existing floor using chemical emulsion @ 1 litre per hole, 300mm apart including drilling 12mm diameter holes and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to match the existing floor	sqm	470.70
(d)	Treatment of existing masonry using chemical emulsion @ 1 litre per hole, 300mm interval including drilling holes at 45° and plugging with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole.	m	117.20