

RATES FOR IRRIGATION WORKS

No	Description	Unit	Rate (Rs)
			Kilinochchi
	Description		
	Clearing Works - Manual		
1	Light jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing out side and burning to ashes as directed.	Ha	162,800.00
2	Shrub and thorny jungle clearing along the Tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing out side and burning to ashes where ever necessary as directed.	Ha	107,800.00
3	Secondary growth jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting and removing out side and burning to ashes as directed.	Ha	81,400.00
4	Weeding and clearing along the tank bund / Canal / Spill tail canal / road way and reservations as directed.	0	9.00
5	Stripping top soil along the upstream slope, downstream slope and top of the bund to a thickness of 0.075 meters in order to receive new earth and spoils to be disposed out side the reservation as directed	m ³	1,727.00
6	Scarifying top soil along the upstream slope, downstream slope and top of the bund / canal bund to a thickness of 0.025 meters in order to receive new earth and spoils to be disposed out side the reservation as directed	m ²	44.00
	Clearing Works - Machinery		
7	Light jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing out side and burning to ashes as directed.	Ha	49,414.00

8	Shrub and thorny jungle clearing along the Tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing out side and burning to ashes where ever necessary as directed.	Ha	32,943.00
9	Medium jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing out side and burning to ashes as directed.	Ha	65,898.00
10	Common jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing out side and burning to ashes as directed.	Ha	56,498.00
11	Heavy jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing out side and burning to ashes as directed.	Ha	59,926.00
12	Stripping top soil along the upstream slope, downstream slope and top of the bund to a thickness of 0.075 meters in order to receive new earth and spoils to be disposed out side the reservation as directed	m ³	293.00
	Earth work - Manual		
13	Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction	m ³	2,288.00
14	Borrowing earth from identified borrow areas including transport and placing in tank bund to the design profile in 225 mm layers including watering and compacting	m ³	1,751.00
15	Earth Excavation from borrow and forming canal bund including watering and compacting	m ³	1,751.00
16	Earth Cutting in canal and forming canal bund including watering and compacting	m ³	1,138.00
17	Desilting in canal and spoil to waste as directed	m ³	884.00

Earth work - Machinery		
18	Borrowing earth from identified borrow areas including transport, benching, placing in layers average thickness not more than 225mm as earth filling in existing bund embankment and picking roots, watering as directed, compacting by vibrating compactor	m ³ 779.00
19	Earth Excavation from borrow and forming Canal bund including Compaction by Machinery and shaping by manual	m ³ 776.00
20	Earth Cutting in canal or canal reservation and forming Canal bund including Compaction by Machinery and shaping by manual	m ³ 596.00
21	Earth cutting in canal and spoil to waste as directed	m ³ 474.00
22	Earth deduction along spill tail canal and spoil to deposit	m ³ 604.00
23	Earth deduction along spill tail canal and level / heap	m ³ 130.00
24	Earth Excavation from borrow and forming canal bund by manual Tpt by tractor (Earth cutting by machinery)	m ³ 965.00
25	Cut open the bund and Spoil to waste by machinery	m ³ 474.00
26	Cut open the bund by Machinery and filling by manual	m ³ 1,216.00
27	Cut open the bund and refilling including watering and compaction by machinery	m ³ 1,156.00
Gravel Work		
28	Furnishing, transporting, placing and spreading of gravel on the bund including watering and compaction by manual	m ³ 6,973.00
29	Furnishing, transporting, placing and spreading of gravel on the bund including watering and compaction by machinery	m ³ 5,653.00
30	Furnishing and placing 0.15m thick gravel bedding for placement of Rip rap as directed	m ³ 5,335.00
Road way		

31	Trimming and camparing road way by machinery	m ²	17.00
32	Earth Excavation from borrow and forming Road way	m ³	770.00
33	Furnishing, transporting, placing and spreading of gravel on the road way including watering and compaction	m ³	5,105.00
34	Supplying turf sods to site, preparation and dressing of surface, firmly placing and full turfing to new fill and watering and kept moist till grass root up as directed by the Engineer.	m ²	306.00
Concrete - Manual			-
35	1:3:6(40) Ct. sand concrete compacting with porker viberator including curing without form work	m ³	29,796.00
36	1:3:6(40) Ct. sand concrete compacting with porker viberator including curing with form work	m ³	31,629.00
37	1:2:4(20) Ct. sand concrete compacting with porker viberator including curing with out form work	m ³	33,180.00
38	1:2:4(20) Ct. sand concrete compacting with porker viberator including curing with form work	m ³	35,626.00
39	1:1 1/2:3(20) Ct. sand concrete compacting with porker viberator including curing with out form work	m ³	35,804.00
40	1:1 1/2:3(20) Ct. sand concrete compacting with porker viberator including curing with form work	m ³	37,310.00
Concrete - Machinery (Mixture)			
41	1:3:6(40) Ct. sand concrete using concrete mixer and compacting with porker viberator including curing without form work	m ³	27,120.00
42	1:3:6(40) Ct. sand concrete using concrete mixer and compacting with porker viberator including curing with form work	m ³	28,953.00
43	1:2:4(20) Ct. sand concrete using concrete mixer and compacting with porker viberator including curing with out form work	m ³	30,502.00

44	1:2:4(20) Ct. sand concrete using concrete mixer and compacting with porker vibrator including curing with form work	m ³	32,949.00
45	1:1 1/2:3(20) Ct. sand concrete using concrete mixer and compacting with porker vibrator including curing with out form work	m ³	33,126.00
46	1:1 1/2:3(20) Ct. sand concrete using concrete mixer and compacting with porker vibrator including curing with form work	m ³	34,652.00
Rubble work			
47	Supplying and placing 150-225mm random rubble masonry work with 1:5 ct.sand motor	m ³	23,517.00
48	Supplying and placing 150-225mm random rubble pitching work with 1:5 ct.sand motor	m ²	3,155.00
49	Supplying and heaping 300 - 450 mm rubble for rip rap	m ³	9,095.00
50	Placing Rip-Rap from the dumped rubble an average thickness of 300/450 mm on up stream slope of bund as directed by the Engineer.(Rate includes the necessary internal transport and loading)	m ³	506.00
51	Removing existing collapsed rip -rap and heaping the rubble as directed by the Engineer.	m ³	462.00
52	Removing and re packing rip rap as directed by the Engineer.	m ³	924.00
53	Supplying and placing 150-225mm rubble packing	m ³	10,005.00
Reinforcement			
54	Supplying bending and placing QT Rib bar as reinforcement	kg	492.00
Formwork			
55	Furnishing and making of form work made out 20mm thick plywood with necessary frame and supports including fixing and removing as directed	m ²	931.00
Hume pipes			
56	Supplying , laying and jointing 100 mm dia hume pipe in position	L.m	1,328.00

57	Supplying , laying and jointing 150 mm dia hume pipe in position	L.m	2,140.00
58	Supplying , laying and jointing 225 mm dia hume pipe in position	L.m	2,876.00
59	Supplying , laying and jointing 300 mm dia hume pipe in position	L.m	3,582.00
60	Supplying , laying and jointing 375 mm dia hume pipe in position	L.m	4,164.00
61	Supplying , laying and jointing 450 mm dia hume pipe in position	L.m	5,435.00
62	Supplying , laying and jointing 600 mm dia hume pipe in position	L.m	6,306.00
63	Supplying , laying and jointing 900 mm dia hume pipe in position	L.m	12,581.00
64	Supplying , laying and jointing 1200 mm dia hume pipe in position	L.m	21,545.00
	Gates		
65	Supplying and fixing 150mm Dia C.I Gate with complete set including spindle ___ m long ,base plate, Brass nut, Rag Bolts,ect in position	Nr	31,256.00
66	Supplying and fixing 225mm Dia C.I Gate with complete set including spindle ___ m long ,base plate, Brass nut, Rag Bolts,ect in position	Nr	41,256.00
67	Supplying and fixing 300mm Dia C.I Gate with complete set including spindle ___ m long ,base plate, Brass nut, Rag Bolts,ect in position	Nr	44,902.00
68	Supplying and fixing 375mm Dia C.I Gate with complete set including spindle ___ m long ,base plate, Brass nut, Rag Bolts,ect in position	Nr	59,902.00
69	Supplying and fixing 450mm Dia C.I Gate with complete set including spindle ___ m long ,base plate, Brass nut, Rag Bolts,ect in position	Nr	83,277.00
70	Supplying and fixing 600mm Dia C.I Gate with complete set including spindle ___ m long ,base plate, Brass nut, Rag Bolts,ect in position	Nr	119,197.00
71	Supplying and fixing 750mm Dia C.I Gate with complete set including spindle ___ m long ,base plate, Brass nut, Rag Bolts,ect in position	Nr	219,847.00

72	Supplying and fixing 900mm Dia C.I Gate with complete set including spindle __ m long ,base plate, Brass nut, Rag Bolts,ect in position	Nr	276,247.00
73	Supplying fabricating and installation of 1350mm x 750m size steel paneled gate	Nr	119,981.00
Miscellinious			
74	Supplying and fixing of 12mm dia. 0.45 m long mild steel dowels	Nr	596.00
75	Supplying and fixing of 16mm dia. 0.45 m long mild steel dowels	Nr	811.00
76	Chemical Anchoring fast Fix	Nr	1,300.00
77	Furnishing and fixing 50*100mm R.C.C. hand rails with 2 Nos. 10mm dia. Reinforcement including formwork	m	1,836.00
78	Providing guard stones as per type NP/IRR/GS/Type No 01	Nr	6,472.00
79	Providing of 50 x 100 weep holes as per type NP/IRR/WH/Type No 01	Nr	2,809.00
80	Water Pumps 50 mm (2")	Hr	625.00
81	Water Pumps 75 mm (3")	Hr	625.00
82	Supplying of empty C.I.C. pohora bags (50kg size of fertilizer)	Nr	80.00
83	Forming of sand in pohora bags.	Nr	74.00
84	Stitching of sand bags.	Nr	11.00
85	Laying of sand bags.	Nr	55.00
86	Removing of sand bags.	Nr	55.00
87	Water level measuring gague	m2	17,486.00
Gabions			
88	Furnishing, Lacing & Placing of PVC Coated 1 x 0.5 x 0.5 m Gabions boxes	Nr	6,502.00
89	Furnishing, Lacing & Placing of PVC Coated 1.0 x 1.0 x 1.0 m Gabions boxes	Nr	15,474.00
90	Furnishing, Lacing & Placing of PVC Coated 1.5 x 1.0 x 1.0 m Gabions boxes	Nr	20,353.00
91	Furnishing, Lacing & Placing of PVC Coated 2.0 x 1.0 x 1.0 m Gabions boxes	Nr	29,020.00
92	Furnishing, Lacing & Placing of PVC Coated 2.0 x 1.0 x 0.5 m Gabions boxes	Nr	19,129.00

93	Furnishing, Lacing & Placing of PVC Coated 3.0 x 1.0 x 1.0 m Gabions boxes	Nr	52,710.00
94	Furnishing, Lacing & Placing of PVC Coated 3.0 x 1.0 x 0.5 m Gabions boxes	Nr	26,031.00
95	Furnishing, & Laying Polyfelt Geosynthetics 1.5mmthk. sheet for gabion boxes	m2	365.00
96	Furnishing, & Laying Polyfelt Geosynthetics 2.5mmthk. sheet for gabion boxes	m2	660.00