

6.1. GENERAL SPECIFICATIONS FOR IRRIGATION WORKS

- Specification for Irrigation & Land Drainage Published on January 2017
 CIDA Publication No: CIDA/SP/102
- Specification for Building Works (Volume I) [3rd Edition (Revised) July 2004] ICTAD Publication No: SCA/4/1
- Specification for Electrical & Mechanical Works [2nd Edition (Revised) August 2000] ICTAD Publication No: SCA/8
- Data for Costing of civil works Published by Irrigation Department third revision 1st January 1980.
- Rates included all taxes other than VAT. VAT to be paid separately.

6.2	NORMS FOR CLEARING AND EARTH WORK		
No	Description	Unit	Qty
	CLEARING - MANUAL		
1	Clearing and grubbing light jungle clearing	L.Day / Ha	74
2	Shrub & thorny jungle clearing	L.Day / Ha	49
3	Secondary growth jungle clearing	L.Day / Ha	37
4	Weeding	L.Day / m ²	0.004
5	Stripping top soil	L.Day / m ³	0.785
6	Scarifying top soil	L.Day / m ²	0.02
	CLEARING - MACHINERY		
7	Clearing and grubbing light jungle	Ha / Day	1.619
	Burning to asses	L.Day / Ha	2
8	Shrub & thorny jungle clearing	Ha / Day	2.429
	Burning to asses	L.Day / Ha	2
9	Medium jungle clearing	Ha / Day	1.214
	Burning to asses	L.Day / Ha	2
10	Common jungle clearing	Ha / Day	1.416
	Burning to asses	L.Day / Ha	2
11	Heavy jungle clearing	Ha / Day	1.335
	Burning to asses	L.Day / Ha	2
12	Stripping top soil along the upstream slope, downstream to a thickness of 0.075 meters in order to receive new ear to be disposed outside the reservation as directed	th by machinery	
	Stripping by Dozer	m ³ /day	1,471.6
	Loading by Back-hoe	m³/day	1,279.16
	EARTH WORK - MANUAL		
13	Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction	L.Day / m ³	1.04
14	Borrowing earth from identified borrow areas including tank bund to the design profile in 225 mm layers compacting	_	
	Borrow Earth cut and lift 5' haul 200'	L.Day / m ³	0.883
	Placing and compaction in tank bund including picking roots and spreading	L.Day / m ³	0.213
	Watering on tank bund for compaction	L.Day / m ³	0.01
	Less haul 200ft (0.196 L.day per 100 ft)	L.Day / m ³	0.392
15	Earth Excavation from borrow and forming canal bur compacting	nd including wat	ering and
	Borrow Earth cut and lift 5' haul 200'	L.Day / m ³	0.883
	Placing and compaction in canal bund including picking roots and spreading	L.Day / m ³	0.213
	Watering on canal bund for compaction	L.Day / m ³	0.01
	Less haul 200ft (0.196 L.day per 100 ft)	L.Day / m ³	0.392

No	Description	Unit	Qty
16	Earth Cutting in canal and forming canal bund including	watering and co	mpacting
	Borrow Earth cut and lift 5' haul 200'	L.Day / m ³	0.883
	Placing and compaction in canal bund	L.Day / m ³	0.213
	Watering on canal bund for compaction	L.Day / m ³	0.01
	Less haul 100ft	L.Day / m ³	0.196
17	Desilting in canal and spoil to waste as directed		
	Desilt manual	m ³ /Day	1.415
	EARTH WORK - MACHINERY		
18	Borrowing earth from identified borrow areas included placing in layers average thickness not more than 225mm bund embankment and picking roots, watering as vibrating compactor	n as earth filling i	in existing
	Borrow Earth - Dozing by Dozer	m ³ /Day	633.92
	Loading by Back-hoe	m ³ /Day	289.23
	Spreading by dozer - 100 ft	m ³ /Day	3,090.36
	Picking roots by manual	L.Day / m ³	0.024
	Watering on tank bund for compaction by Bowser	m ³ /Day	142
	Compaction in tank bund by Sheep Foot roller	m ³ /Day	1,881.4
19	Earth Excavation from borrow and forming Canal bund Machinery and shaping by manual	l including Comp	oaction by
	Borrow Earth by Excavator	m ³ /Day	289.23
	Shaping by manual	m ³ /Day	100
	Compacting by Back - hoe	m ³ /Day	300
20	Earth Cutting in canal or canal reservation and form Compaction by Machinery and shaping by manual	ing Canal bund	including
	Earth cutting by Back - hoe	m ³ /Day	289.23
	Shaping by manual	m ³ /Day	100
	Compacting by Back - hoe	m ³ /Day	300
21	Earth cutting in canal and spoil to waste as directed		
	Earth cutting by Excavator	m ³ /Day	289.23
22	Earth deduction along spill tail canal and spoil to deposit		
	Earth - Dozing by Dozer	m ³ /Day m ³ /Day	633.92
22	Loading by Back-hoe Forth deduction along spill toil canal and level / been	m /Day	289.23
23	Earth deduction along spill tail canal and level / heap	3 75	(22.02
	Earth - Dozing by Dozer	m ³ /Day	633.92

No	Description	Unit	Qty
24	Earth Excavation from borrow and forming canal bund tractor (Earth cutting by machinery)	l by manual Tra	nsport by
	Earth cutting by Excavator	m ³ /Day	289.23
	Placing and compaction in tank bund by manual	L.Day / m ³	0.213
	Watering on tank bund for compaction by manual	L.Day / m ³	0.01
25	Cut open the bund and Spoil to waste by machinery		
	Cut open by Excavator	m ³ /Day	289.23
26	Cut open the bund by Machinery and filling by manual		
	Cut open by Excavator	m ³ /Day	289.23
	Refilling haul manual 100'	L.Day / m ³	0.196
	Placing and compaction in tank bund manual	L.Day / m ³	0.213
	Watering on tank bund for compaction manual	L.Day / m ³	0.01
27	Cut open the bund and refilling including watering and c	ompaction by ma	chinery
	Cut open by Excavator	m ³ /Day	289.23
	Refilling by Back-hoe	m ³ /Day	904
	Spreading manual	L.Day / m ³	0.09
	Watering on tank bund for compaction by bowser	m ³ /Day	142
	Compaction in tank bund by sheep foot roller	m ³ /Day	141.5
	GRAVEL WORK		
28	Furnishing, transporting, placing and spreading of gra watering and compaction by manual	vel on the bund	including
	Gravel cut and lift 5' haul 200'	L.Day / m ³	1.04
	Placing and compaction in tank bund including picking roots and spreading	L.Day / m ³	0.213
	Watering on tank bund for compaction	L.Day / m ³	0.01
	Less haul 50'	L.Day / m ³	0.196
29	Furnishing, transporting, placing and spreading of gra watering and compaction by machinery	vel on the bund	including
	Gravel Cutting by Back-hoe	m ³ /Day	245.36
	Spreading by dozer - 100'	m ³ /Day	2,988.5
	Watering on tank bund for compaction by bowser	m ³ /Day	142
	Compaction in tank bund by Sheep Foot Roller	m ³ /Day	1,881.4
30	Furnishing and placing 0.15m thick gravel bedding for directed	placement of R	Rip rap as
	Spreading by dozer - 100 '	m ³ /Day	2,988.5
	Compaction in tank bund by Dozer	m ³ /Day	664.107

No	Description	Unit	Qty		
	ROAD WAY				
31	Trimming and comparing road way by machinery				
	Data for 1025 sq.m. for a 200mm thick layer				
	Volume of soil in the area	cu.m(VankVol)	205		
	Grader blade efficiency	%	85		
	Time for 4 passes in 1025 sq.m area	Hours	1.5		
	Hire charges 120 - 140 hp motor grader	Hours	1.5		
	Cost of banks men s/sk	Hours	1.5		
32	Earth Excavation from borrow and forming Road way				
	Borrow Earth Dozing by Dozer	m ³ /Day	633.92		
	Loading by Back-hoe	m ³ /Day	289.23		
	Spreading by Dozer - 100'	m ³ /Day	2,988.5		
	Picking roots Manual	L.Day / m ³	0.024		
	Watering on tank bund for compaction by Bowser	m ³ /Day	142		
	Compaction in road way by Vibrating roller	m ³ /Day	2,822.1		
33	Furnishing, transporting, placing and spreading of gravel on the road wa including watering and compaction				
	Gravel Cutting by Back-hoe	m ³ /Day	245.36		
	Spreading by Dozer - 100'	m ³ /Day	1,992.32		
	Watering on tank bund for compaction	m ³ /Day	142		
	Compaction in road way by Vibrating roller	m ³ /Day	1,881.4		
34	Supplying turf sods to site, preparation and dressing of situal turfing to new fill and watering and kept moist till githe Engineer.				
	Cutting and planting turf in slopes	L.Day / m ²	0.072		
	L.days for watering	L.Day / m ²	0.0011		
	Water for turf	1	12.474		
	Loading / unloading	L.Day / m ²	0.0269		

No Description Unit Quantity 1 Reinforcement Material including 25% for waste & lap of unit rate for 1kg kg 1.25 Tor steel reinforcement kg 1.25 2% Cost of Tor steel for bindings wire 1% Cost of Tor Steel for cover blocks L.Day 0.01 Skilled Labour L.Day 0.03 2 Formwork in Timber Very Cost of Planks for struts and battens Assorted wire nails kg 7 Assorted wire nails kg 7 5 % cost of Planks for struts and battens L.Day 0.5 Assorted wire nails kg 7 5 % cost of Planks for deboning materials L.Day 0.5 Skilled for making for 6 uses L.Day 0.5 L.Day 0.5 Unskilled for fixing and removing L.Day 0.5 L.Day 0.5 Cement bags 2 Mason 1.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	6.3	NORMS FOR CONCRETE AND OTHERS		
Material including 25% for waste & lap of unit rate for 1kg 2% Cost of Tor steel for bindings wire 1% Cost of Tor Steel for cover blocks Skilled Labour L.Day 0.03	No	Description	Unit	Quantity
Tor steel reinforcement	1	Reinforcement		
2% Cost of Tor steel for bindings wire		Material including 25% for waste & lap of unit rate for 1kg		
1% Cost of Tor Steel for cover blocks Skilled Labour L.Day 0.01 Unskilled Labour L.Day 0.03		Tor steel reinforcement	kg	1.25
Skilled Labour L.Day 0.01 Unskilled Labour L.Day 0.03		2% Cost of Tor steel for bindings wire		
Unskilled Labour		1% Cost of Tor Steel for cover blocks		
Plywood Sq 1.15		Skilled Labour	L.Day	0.01
Plywood Sq 1.15 25 % cost of Planks for struts and battens Assorted wire nails kg 7 5 % cost of Planks for deboning materials Skilled for making for 6 uses L.Day 0.5 Unskilled for making for 6 uses L.Day 0.5 Unskilled for fixing and removing L.Day 1 3 6"-9" Random Rubble Masonry		Unskilled Labour	L.Day	0.03
25 % cost of Planks for struts and battens Assorted wire nails S	2	Formwork in Timber		
Assorted wire nails 5 % cost of Planks for deboning materials Skilled for making for 6 uses L.Day 0.5 Unskilled for making for 6 uses L.Day 0.5 Unskilled for fixing and removing L.Day 1 1 3 6"-9" Random Rubble Masonry Cement bags 2 Rubble m³ 1.37 Sand m³ 0.34 Water lit 58.83 Mason L.Day 0.26 L.Day 0.26 L.Day 0.26 L.Day 0.27 Example L.Day 0.27 Example L.Day 0.28 Example Example		Plywood	Sq	1.15
S S Cost of Planks for deboning materials Skilled for making for 6 uses L.Day 0.5		25 % cost of Planks for struts and battens		
Skilled for making for 6 uses L.Day 0.5		Assorted wire nails	kg	7
Unskilled for making for 6 uses U.Day 1 1 2 2 2 3 6"-9" Random Rubble Masonry Cement Bags Rubble m³ 1.37 Sand m³ 0.34 Water lit 58.83 Mason L.Day 1.77 1.00 L.Day 1.77 4 6"-9" Random Rubble Pitching - Thickness 9" Cement Bags 0.45 Rubble m³ 0.33 Sand m³ 0.33 Sand m³ 0.08 Water lit 14.24 Mason L.Day 0.054 L.Day 0.054 L.Day 0.054 L.Day 0.38 Sand L.Day 0.21 Sand L.Day 0.21 L.Day 0.21 Labourer Removing existing rip rap L.Day 0.21 L.Day 0.21 Labourer Removing existing rip rap L.Day 0.21 L.Day 0.21 Supplying & Dumping Rip Rap 300 - 450mm m³ 1.05 Sand Placing & Packing Rip rap (Manual)		5 % cost of Planks for deboning materials		
Unskilled for fixing and removing L.Day 1 3 6"-9" Random Rubble Masonry		Skilled for making for 6 uses	L.Day	0.5
Unskilled for fixing and removing		Unskilled for making for 6 uses	L.Day	0.5
Cement		_	L.Day	1
Rubble	3			
Sand Mason L.Day 0.26 Labourer L.Day 1.77 4 6"-9" Random Rubble Pitching - Thickness 9" Cement bags 0.45 Rubble m³ 0.33 Sand m³ 0.08 Water lit 14.24 Mason L.Day 0.054 Labourer L.Day 0.38 5 300-450mm Removing Rip Rap Labourer Removing existing rip rap L.Day 0.21 Labourer Removing existing rip rap L.Day 0.21 Labourer Removing existing rip rap L.Day 0.21 Labourer Removing Rip Rap L.Day 0.21 Supplying & Dumping Rip Rap 300 - 450mm Rubble 300 - 450mm m³ 1.05 8 Placing & Packing Rip rap (Manual)		Cement	bags	2
Water Lit 58.83 Mason L.Day 0.26 Labourer L.Day 1.77 4 6"-9" Random Rubble Pitching - Thickness 9" Cement bags 0.45 Rubble m³ 0.33 Sand m³ 0.08 Water lit 14.24 Mason L.Day 0.054 Labourer L.Day 0.38 5 300-450mm Removing Rip Rap Labourer Removing existing rip rap L.Day 0.21 6 300-450mm Removing and Repacking Rip Rap Labourer Removing existing rip rap L.Day 0.21 Labourer Removing Rip Rap L.Day 0.21 Captive Common		Rubble		1.37
Mason L.Day 0.26 Labourer L.Day 1.77		Sand	m^3	0.34
Labourer L.Day 1.77		Water	lit	58.83
4 6"-9" Random Rubble Pitching - Thickness 9" Cement bags 0.45 Rubble m³ 0.33 Sand m³ 0.08 Water lit 14.24 Mason L.Day 0.054 Labourer L.Day 0.38 5 300-450mm Removing Rip Rap L.Day 0.21 6 300-450mm Removing existing rip rap L.Day 0.21 Labourer Removing existing rip rap L.Day 0.21 Labourer Repacking rip rap L.Day 0.21 7 Supplying & Dumping Rip Rap 300 - 450mm m³ 1.05 8 Placing & Packing Rip rap (Manual)		Mason	L.Day	0.26
Cement			L.Day	1.77
Rubble m³ 0.33 m³ 0.08	4		1.	
Sand m³ 0.08 Water lit 14.24 Mason L.Day 0.054 L.Day 0.38			bags	
Water Harmonian Hit Harmonian Hit Mason L.Day 0.054 L.Day 0.054 L.Day 0.38 5 300-450mm Removing Rip Rap Labourer Removing existing rip rap L.Day 0.21 6 300-450mm Removing and Repacking Rip Rap Labourer Removing existing rip rap L.Day 0.21 Labourer Repacking rip rap L.Day 0.21 Labourer Repacking rip rap L.Day 0.21 Supplying & Dumping Rip Rap 300 - 450mm Rubble 300 - 450mm m³ 1.05 8 Placing & Packing Rip rap (Manual)				
Mason L.Day 0.054 Labourer L.Day 0.38 5 300-450mm Removing Rip Rap L.Day 0.21 6 300-450mm Removing and Repacking Rip Rap L.Day 0.21 Labourer Removing existing rip rap L.Day 0.21 Labourer Repacking rip rap L.Day 0.21 7 Supplying & Dumping Rip Rap 300 - 450mm m³ 1.05 8 Placing & Packing Rip rap (Manual) m³ 1.05				
Labourer L.Day 0.38				
5 300-450mm Removing Rip Rap Labourer Removing existing rip rap L.Day 0.21 6 300-450mm Removing and Repacking Rip Rap Labourer Removing existing rip rap L.Day 0.21 Labourer Repacking rip rap L.Day 0.21 L.Day 0.21 7 Supplying & Dumping Rip Rap 300 - 450mm Rubble 300 - 450mm Rubble 300 - 450mm M³ 1.05 8 Placing & Packing Rip rap (Manual)			_	
Labourer Removing existing rip rap 6 300-450mm Removing and Repacking Rip Rap Labourer Removing existing rip rap Labourer Repacking rip rap Labourer Repacking rip rap Labourer Repacking rip rap Labourer Repacking rip rap Rubble 300 - 450mm Rubble 300 - 450mm Rubble 300 - 450mm Placing & Packing Rip rap (Manual)			L.Day	0.38
6 300-450mm Removing and Repacking Rip Rap Labourer Removing existing rip rap Labourer Repacking rip rap Labourer Repacking rip rap L.Day 0.21 L.Day 0.21 7 Supplying & Dumping Rip Rap 300 - 450mm Rubble 300 - 450mm m³ 1.05 8 Placing & Packing Rip rap (Manual)	3		1.5	0.01
Labourer Removing existing rip rap Labourer Repacking rip rap L.Day 0.21 L.Day 0.21 7 Supplying & Dumping Rip Rap 300 - 450mm Rubble 300 - 450mm m³ 1.05 8 Placing & Packing Rip rap (Manual)		0 0 1 1	L.Day	0.21
Labourer Repacking rip rap L.Day 0.21 7 Supplying & Dumping Rip Rap 300 - 450mm m³ 1.05 8 Placing & Packing Rip rap (Manual)	6	300-450mm Removing and Repacking Rip Rap		
7 Supplying & Dumping Rip Rap 300 - 450mm Rubble 300 - 450mm m ³ 1.05 8 Placing & Packing Rip rap (Manual)		Labourer Removing existing rip rap	L.Day	0.21
Rubble 300 - 450mm m ³ 1.05 8 Placing & Packing Rip rap (Manual)		Labourer Repacking rip rap	L.Day	0.21
8 Placing & Packing Rip rap (Manual)	7	Supplying & Dumping Rip Rap 300 - 450mm	·	
		Rubble 300 - 450mm	m^3	1.05
	8	Placing & Packing Rip rap (Manual)	ı	
			L.Day	0.23

No	Description	Unit	Qty
9	Rubble Packing (Manual)		
	Rubble 150mm-225mm	m^3	1.05
	Back Hoe	M.Hrs	0.028
	Internal Transport	m^3	1
	Placing & packing	day	0.2

NT-	D	TT *4	ľ	Machinery			Manual	
No.	Description	Unit	1:3:6	1:2:4	1:1 ¹ / ₂ :3	1:3:6	1:2:4	1:11/2:3
10.0	Cement	bags	4.54	6.40	8.10	4.54	6.40	8.10
11.0	Metal	m^3	0.92	0.88	0.82	0.92	0.88	0.82
12.0	Sand	m^3	0.46	0.44	0.41	0.46	0.44	0.41
13.0	Water	lit	158.90	160.00	182.25	158.90	160.00	182.25
14.0	Skilled Labour	day	0.35	0.35	0.35	0.35	0.35	0.35
15.0	Unskilled Labour	day	1.06	1.06	1.06	2.74	2.74	2.74
16.0	Mixture	hrs	0.71	0.71	0.71			
17.0	Vibrator	hrs	0.35	0.35	0.35			
18.0	Tools & Equipment	L.Cost	0.03	0.03	0.03	0.03	0.03	0.03

6.4. N	6.4. NORMS FOR GATES							
			For fixing gate		Loading (by team of 2	Unloading (by team of 2		
No.	Siz	ze of gate	Skilled Unskille Labour Labour		unskilled workmen per hour)	unskilled workmen per hour)		
1	6" dia	150mm dia	0.4	1.4	8	8		
2	9" dia	225mm dia	0.4	1.4	8	8		
3	12" dia	300mm dia	0.5	1.5	4	4		
4	15" dia	380mm dia	0.5	1.5	4	4		
5	18" dia	450mm dia	0.75	2.75	4	4		
6	24" dia	600mm dia	1	5	2	2		
7	30" dia	750mm dia	1.5	7	2	2		
8	36" dia	900mm dia	1.5	7	1	1		

6.5 NORMS FOR HUME PIPES FOR L.FT								
	For Laying & Jointing		Loading (by team of 2	Unloading (by team				
No.	Size of	Hume pipe	Skilled Labour	Unskilled Labour	unskilled workmen per hour)	of 2 unskilled workmen per hour)	Joint materials	
1	4" dia	100mm dia	0.5/60	2/60	36ft	36ft		
2	6" dia	150mm dia	0.5/60	2/60	36ft	36ft		
3	9" dia	225mm dia	0.5/42	2/42	36ft	36ft		
4	12" dia	300mm dia	0.5/24	2/24	36ft	36ft		
5	15" dia	380mm dia	0.5/24	2/24	36ft	36ft	$1^{1}/_{2}$ %	
6	18" dia	450mm dia	1/30	4/30	16ft	16ft	cost of pipe	
7	24" dia	600mm dia	1/24	4/24	16ft	16ft		
8	30" dia	750mm dia	1/18	4/18	8ft	8ft		
9	36" dia	900mm dia	1/18	6/18	8ft	8ft		
10	48" dia	1200mm dia	1/12	6/12	4ft	4ft		

6.6	NORMS FOR MISCELLANEOUS WORKS		
No	Description	Unit	Quantity
1	Supplying and fixing of 12mm Ø 0.45m long Mild steel Do	wel	
	Weight of Steel	kg	0.4
	Skilled Labour	L.Day	0.1
	Unskilled Labour	L.Day	0.1
2	Supplying and Fixing of 16mm Ø 0.45m long Mild steel Do	owel	
	Weight of Steel	kg	0.71
	Skilled Labour	L.Day	0.125
	Unskilled Labour	L.Day	0.125
3	Furnishing and fixing 50 x 100mm R.C.C. hand rails reinforcement including form work		Nos. 10mm Ø
	1:2:4 (20 mm) ct. concrete per L/m	m^3	0.005
	Formwork	m^2	0.3
	Fixing Skilled Labour	L.Day	0.166
	Fixing Unskilled Labour	L.Day	0.166
	Reinforcement	kg	1.234
4	Guard Stones		
	12 mm Tor steel	kg	3.2
	1:2:4(20mm) ct. con	m3	0.026
	Form work	m ²	0.393
5	Forming of Sand in Pohora Bags.		0.022
	Unskilled Labour	L.Day	0.033
6	Stitching of Sand Bags.		
	Unskilled Labour	L.Day	0.005
7	Laying of Sand Bags.	T	
	Unskilled Labour	L.Day	0.025
8	Removing of Sand Bags.		
	Unskilled Labour	L.Day	0.025
9	Rate Analysis for fabricating and installation of 1350n paneled gate	nm x 75	Om size steel
	50mm x50mm x6mm L angle	m	7.05
	6mm thick steel plate	m²	1.013
	37.5mm Dia spindle bar	m	2.25
	Thread cutting charges	ft	3.445
	37.5mm Dia GI housing, base plate & locking arrangement with full set	No	1
	Brass nut	No	1
	150mm x75mm size channel iron	m	1.65
	Rag bolt 3/4" x 9"	Nos	2
	Operating handle	No	1
		110	1

No	Description	Unit	Quantity
10	Water Level Measuring Gauge		
	Supplying and fixing 0.15m x 13.72m Stainless steel plat in approved colour printing of water level measuring gauge		
	16 gauge stainless steel plat (including wastage)	m^2	2.97
	Colour print	m^2	2.97
	Stainless scrow	Nos	64
	Skill labour	L.day	2
	Painter	L.day	2
	Welder	L.day	2
	Labour	L.day	6
11	Furnishing, & Packing 225 x 150 mm random rubble in to	Gabion l	ooxes
	Rubble	Cube	1.44
	Unskilled Labour	L.Day	4.25
	Skilled	L.Day	0.85
12	Furnishing, & Laying Polyfelt Geosynthetics sheet 1.5mm	thk. for g	abion boxes
	Unskilled Labour	L.Day	0.05
13	Furnishing, & Laying Polyfelt Geosynthetics 2.5mmthk. sl	neet for g	abion boxes
	Unskilled Labour	L.Day	0.05
14	Expansion joints in concrete		
	Bitumen	Lit	22.5
	River sand	Cube	5
	Skill Labour	L.day	2.5
	Unskill Labour	L.day	2.5

6.7 NORMS FOR GABION BOX					
No	Size	Lacing & Placing or 1 No Gabion Box/ L Day			
1	1.0 x 0.5 x 0.5	0.167			
2	1.0 x 1.0 x 1.0	0.292			
3	1.5 x 1.0 x 1.0	0.313			
4	2.0 x 1.0 x 1.0	0.333			
5	2.0 x 1.0 x 0.5	0.250			
6	3.0 x 1.0 x 1.0	0.375			
7	3.0 x 1.0 x 0.5	0.292			

6.8 NORMS FOR AGRICULTURE WELLS

Rate adjustment for Agriculture Wells

Depth in ft	Plastering	Block Work	Rubble Masonary		
0 - 05	add 0.25 L.Days	add 0.25 L.Days	add 0.25 L.Days		
05 -10	add 0.5 L.Days	add 0.5 L.Days	add 0.5 L.Days		
10 - 15	add 0.75 L.Days	add 0.75 L.Days	add 0.75 L.Days		
15 - 20	add 1 L.Days	add 1 L.Days	add 1 L.Days		

Earth Excavation

Lift in ft	Production of 8 hr m ³		Shaping by manual	Spreading by dozer - 100 ft		
	Cutting	Lifting	(m³ per day)	(m³ per day)		
0 - 5	144.613	289.23				
5 - 10	141.783	283.57	100	2000 40		
10 - 15	138.387	276.77	100	2988.48		
15 - 20	135.274	270.55				

No	Description	Unit	Quantity				
	16mm thick cement and sand 1:3 Plastering						
	Cement	Cube	1.47				
	River sand	Cube	0.06				
	Skill Labour	L.day	0.75				
	Unskill Labour	L.day	1.50				
		Cube 1 Cube 0 L.day 0 L.day 1					
Cement Concrete block in 1:4:5(20mm) Masonry 1:5 Cement and Sand							
	Block Casting: Cement	Cwt	11.25				
	River Sand	Cube	0.60				
	³⁄₄" Metal	Cube	1.00				
	Skill Labour	L.day	4.5				
	Unskill Labour	L.day	9.00				
	Basket		0.66				
	Masonry work: Cement	Cwt	2.5				
	River Sand	Cube	0.25				
	Skill Labour	L.day	2.50				
	Unskill Labour	L.day	4.00				
	Basket		0.33				

^{*} Rate to be added for every 5'depth as 5%, 7%, 10%, 13%, 16%.

6.10	6.10 RATES FOR IRRIGATION WORKS 2022								
No	Description	Unit	T ee	Rate (Rs) wit			24		
	.1 CLEARING WORKS	N/A	Jaffna Nu a i	Kilinochchi	Mullaitivu	Vavuniya	Mannar		
0.10		- WIA	NUAL						
1	Light jungle clearing along the tank bund / Canal / Spill tail canal /road way and reservations including uprooting stumps removing outside and burning to ashes as directed.	ha				162,800.00	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 outside and burning to ashes where ever necessary as directed.	ha				107,800.00	107,800.00		
3	Secondary growth jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting and removing outside and burning to ashes as directed.	ha				81,400.00	81,400.00		
4	Weeding and clearing along the tank bund / Canal / Spill tail canal /road way and reservations as directed.	m^2				8.00	8.00		
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 outside the reservation as directed	m^3				1,727.00	1,727.00		

NI.	Danasintian	T 1 24	Rate (Rs) without profit and overhead Unit						
No	Description	Unit	Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar		
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 outside the reservation as directed	m^2				44.00	44.00		
6.10	6.10.2 CLEARING WORKS - MACHINERY								
7	Light jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing outside and burning to ashes as directed.	ha				42,248.00	52,130.00		
8	Shrub and thorny jungle clearing along the Tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing outside and burning to ashes where ever necessary as directed.	ha				28,165.00	34,753.00		
9	Medium jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing outside and burning to ashes as directed.	ha				56,342.00	69,522.00		

No	Description	Unit		Rate (Rs) wit		nd overhead	
110	_	Omt	Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
10	Common jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing outside and burning to ashes as directed.	ha				62,429.00	87,853.00
11	Heavy jungle clearing along the tank bund / Canal / Spill tail canal / road way and reservations including uprooting stumps removing outside and burning to ashes as directed.	ha				66,217.00	93,183.00
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 outside the reservation as directed	m ³				221.00	249.00
6.10.3	EARTH WORK - MANU	JAL					
13	Earth Excavation in foundation and back filling / spoil to waste / dump including watering and compaction					2,288.00	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				1,814.00	1,814.00
15	Earth Excavation from borrow and forming canal bund including watering and compacting	m ³				1,752.00	1,752.00

No	Description	Unit		Rate (Rs) wit	hout profit a	nd overhead	
110	-	Omt	Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
16	Earth Cutting in canal and forming canal bund including watering and compacting	m ³				2,002.00	2,002.00
17	Desilting in canal and spoil to waste as directed	m ³				1,554.00	1,554.00
6.10.4	EARTH WORK - MACI	HINER	XY				
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				656.00	756.00
19	Earth Excavation from borrow and forming Canal bund including Compaction by Machinery and shaping by manual	m ³				586.00	750.00
20	Earth Cutting in canal or canal reservation and forming Canal bund including Compaction by Machinery and shaping by manual	m ³				404.00	568.00
21	Earth cutting in canal and spoil to waste as directed	m ³				377.00	461.00
22	Earth deduction along spill tail canal and spoil to deposit	m ³				481.00	591.00
23	Earth deduction along spill tail canal and level / heap	m^3				104.00	130.00
24	Earth Excavation from borrow and forming canal bund by manual Tpt by tractor (Earth cutting by machinery)	m ³				867.00	951.00

No	Degarintian	I Init		Rate (Rs) wit	hout profit a	nd overhead	
No	Description	Unit	Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
25	Cut open the bund and Spoil to waste by machinery	m ³				377.00	461.00
26	Cut open the bund by Machinery and filling by manual	m ³				1,117.00	1,201.00
27	Cut open the bund and refilling including watering and compaction by machinery	m ³				1,063.00	1,180.00
6.10.5	GRAVEL WORK						
28	Furnishing, transporting, placing and spreading of gravel on the bund including watering and compaction by manual	m ³				4,444.00	5,875.00
29	Furnishing, transporting, placing and spreading of gravel on the bund including watering and compaction by machinery	m ³				2,578.00	4,099.00
30	Furnishing and placing 0.15m thick gravel bedding for placement of Rip rap as directed	m ³				2,098.00	3,400.00
6.10.6	ROAD WAY						
31	Trimming and camparing road way by machinery	m ²				14.00	16.00
32	Earth Excavation from borrow and forming Road way	m ³				639.00	740.00
33	Furnishing, transporting, placing and spreading of gravel on the road way including watering and compaction	m ³				2,447.00	3,971.00

No Begarintian Unit Rate (Rs) without profit and overhead							
No	Description	Unit	Jaffna	Kilinochchi		Vavuniya	Mannar
	Supplying turf sods to						
	site, preparation and						
	dressing of surface,						
	firmly placing and full					242.00	240.00
34	turfing to new fill and	m^2				242.00	249.00
	watering and kept						
	moist till grass root up						
	as directed by the						
	Engineer.						
6.10.	7 CONCRETE - MANU	JAL					
	1:3:6(40) Ct. sand						
	concrete compacting	_					
35	with porker viberator	m^3				25,322.00	23,353.00
	including curing					23,322.00	23,333.00
	without form work						
	1:3:6(40) Ct. sand						
	concrete compacting	_					
36	with porker viberator	m^3				27,330.00	25,603.00
	including curing with					27,330.00	23,003.00
	form work						
	1:2:4(20) Ct. sand						
	concrete compacting	_					
37	with porker viberator	m^3				26,804.00	27,117.00
	including curing					20,804.00	27,117.00
	without form work						
	1:2:4(20) Ct. sand						
	concrete compacting	2					
38	with porker viberator	m^3				29,484.00	30,121.00
	including curing with					25,404.00	30,121.00
	form work						
	1:1 1/2:3(20) Ct. sand						
	concrete compacting	2					
39	with porker viberator	m^3				29,719.00	30,028.00
	including curing					23), 13:00	30,020.00
	without form work						
	1:1 1/2:3(20) Ct. sand						
	concrete compacting	2					
40	with porker viberator	m^3				31,371.00	31,878.00
	including curing with					02,072.00	0=,070.00
	form work						
6.10.	8 CONCRETE - MACI	HINER	Y (MIXTU)	RE)	I		
	1:3:6(40) Ct. sand						
	concrete using						
	concrete mixer and	3				22,401.00	20,388.00
41	compacting with	m^3				22,401.00	20,300.00
	porker viberator						
	including curing						
<u></u>	without form work						

NI.	D	Rate (Rs) without profit and overhead					
No	Description	Unit	Jaffna	Kilinochchi		Vavuniya	Mannar
42	1:3:6(40) Ct. sand concrete using concrete mixer and compacting with porker viberator including curing with form work	m ³				24,409.00	22,638.00
43	1:2:4(20) Ct. sand concrete using concrete mixer and compacting with porker viberator including curing without form work	m ³				23,881.00	24,150.00
44	1:2:4(20) Ct. sand concrete using concrete mixer and compacting with porker viberator including curing with form work	m ³				26,562.00	27,153.00
45	1:1 1/2:3(20) Ct. sand concrete using concrete mixer and compacting with porker viberator including curing without form work	m ³				26,797.00	27,060.00
46	1:1 1/2:3(20) Ct. sand concrete using concrete mixer and compacting with porker viberator including curing with form work	m ³				28,468.00	28,933.00
6.10.	9 RUBBLE WORK				T	T	
47	Supplying and placing 150-225mm random rubble masonry work with 1:5 ct.sand motor	m ³				14,909.00	16,152.00
48	Supplying and placing 225mm thick random rubble pitching work using 150-225mm rubble with 1:5 ct.sand motor	m ²				3,391.00	3,685.00
49	Supplying and heaping 300 - 450 mm rubble for rip rap	m ³				3,316.00	4,615.00

Description	Unit					
		Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
Placing Rip-Rap from the dumped rubble an average thickness of 300/450 mm on upstream slope of bund as directed by the Engineer. (Rate includes the necessary internal transport and loading)	m^3				506.00	506.00
Removing existing collapsed rip -rap and heaping the rubble as directed by the Engineer.	m^3				462.00	462.00
Removing and re packing rip rap as directed by the Engineer.	m^3				924.00	924.00
Supplying and placing 150-225mm rubble packing	m ³				4,090.00	5,471.00
	1					
Supplying bending and placing QT Rib bar as reinforcement	kg				460.00	460.00
11 FORMWORK						
Furnishing and making of form work made out 20mm thick plywood with necessary frame and supports including fixing and removing as directed	m ²				1,019.00	1,142.00
			ı			
jointing 100 mm dia hume pipe in position	l.m				3,444.00	3,444.00
Supplying, laying and jointing 150 mm dia hume pipe in position	l.m				4,026.00	4,026.00
Supplying, laying and jointing 225 mm dia hume pipe in position	l.m				5,095.00	5,095.00
Supplying, laying and jointing 300 mm dia hume pipe in position	l.m				6,361.00	6,361.00
	the dumped rubble an average thickness of 300/450 mm on upstream slope of bund as directed by the Engineer. (Rate includes the necessary internal transport and loading) Removing existing collapsed rip -rap and heaping the rubble as directed by the Engineer. Removing and repacking rip rap as directed by the Engineer. Supplying and placing 150-225mm rubble packing OREINFORCEMENT Supplying bending and placing QT Rib bar as reinforcement 1 FORMWORK Furnishing and making of form work made out 20mm thick plywood with necessary frame and supports including fixing and removing as directed 2 HUME PIPES Supplying, laying and jointing 100 mm dia hume pipe in position Supplying, laying and jointing 150 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 300 mm dia	the dumped rubble an average thickness of 300/450 mm on upstream slope of bund as directed by the Engineer. (Rate includes the necessary internal transport and loading) Removing existing collapsed rip -rap and heaping the rubble as directed by the Engineer. Removing and repacking rip rap as directed by the Engineer. Supplying and placing 150-225mm rubble packing OREINFORCEMENT Supplying bending and placing QT Rib bar as reinforcement 1 FORMWORK Furnishing and making of form work made out 20mm thick plywood with necessary frame and supports including fixing and removing as directed 2 HUME PIPES Supplying, laying and jointing 100 mm dia hume pipe in position Supplying, laying and jointing 150 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 300 mm dia 1.m hume pipe in position Supplying, laying and jointing 300 mm dia 1.m hume pipe in position	the dumped rubble an average thickness of 300/450 mm on upstream slope of bund as directed by the Engineer. (Rate includes the necessary internal transport and loading) Removing existing collapsed rip -rap and heaping the rubble as directed by the Engineer. Removing and repacking rip rap as directed by the Engineer. Supplying and placing 150-225mm rubble packing OREINFORCEMENT Supplying bending and placing QT Rib bar as reinforcement 1 FORMWORK Furnishing and making of form work made out 20mm thick plywood with necessary frame and supports including fixing and removing as directed 2 HUME PIPES Supplying, laying and jointing 100 mm dia hume pipe in position Supplying, laying and jointing 150 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 300 mm dia l.m	the dumped rubble an average thickness of 300/450 mm on upstream slope of bund as directed by the Engineer. (Rate includes the necessary internal transport and loading) Removing existing collapsed rip -rap and heaping the rubble as directed by the Engineer. Removing and repacking rip rap as directed by the Engineer. Supplying and placing 150-225mm rubble packing OREINFORCEMENT Supplying bending and placing QT Rib bar as reinforcement I FORMWORK Furnishing and making of form work made out 20mm thick plywood with necessary frame and supports including fixing and removing as directed 2 HUME PIPES Supplying, laying and jointing 100 mm dia hume pipe in position Supplying, laying and jointing 150 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 300 mm dia l.m	the dumped rubble an average thickness of 300/450 mm on upstream slope of bund as directed by the Engineer. (Rate includes the necessary internal transport and loading) Removing existing collapsed rip -rap and heaping the rubble as directed by the Engineer. Removing and re packing rip rap as directed by the Engineer. Supplying and placing 150-225mm rubble paacking OREINFORCEMENT Supplying bending and placing of form work made out 20mm thick plywood with necessary frame and supports including fixing and removing as directed 2 HUME PIPES Supplying, laying and jointing 100 mm dia hume pipe in position Supplying, laying and jointing 150 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 100 mm dia l.m	the dumped rubble an average thickness of 300/450 mm on upstream slope of bund as directed by the Engineer. (Rate includes the necessary internal transport and loading) Removing existing collapsed rip -rap and heaping the rubble as directed by the Engineer. Removing and repacking rip rap as directed by the Engineer. Removing and placing 150-225mm rubble packing O REINFORCEMENT Supplying bending and placing QT Rib bar as reinforcement 1 FORMWORK Furnishing and making of form work made out 20mm thick plywood with necessary frame and supports including fixing and removing as directed by the Deplying, laying and jointing 100 mm dia hume pipe in position Supplying, laying and jointing 150 mm dia hume pipe in position Supplying, laying and jointing 1225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 300 mm dia l.m According the decessary frame and supports including fixing and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 300 mm dia l.m According the decessary frame and supports including fixing and jointing 225 mm dia hume pipe in position Supplying, laying and jointing 300 mm dia l.m According the decessary frame and supports including fixing and jointing 300 mm dia l.m According the decessary frame and supports including fixing and jointing 300 mm dia l.m According the decessary frame and supports including fixing and jointing 300 mm dia l.m According the decessary frame and supports including fixing and jointing 300 mm dia l.m According the decessary frame and supports including fixing and jointing 300 mm dia l.m According the decessary frame and supports including fixing and jointing 300 mm dia l.m According the decessary frame and s

No	Description	Unit		Rate (Rs) wit	hout profit a	nd overhead	
No	Description		Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar
60	Supplying, laying and jointing 375 mm dia hume pipe in position	l.m				6,860.00	6,860.00
61	Supplying, laying and jointing 450 mm dia hume pipe in position	l.m				8,009.00	8,009.00
62	Supplying, laying and jointing 600 mm dia hume pipe in position	l.m				12,271.00	12,271.00
63	Supplying, laying and jointing 900 mm dia hume pipe in position	l.m				19,706.00	19,706.00
64	Supplying, laying and jointing 1200 mm dia hume pipe in position	l.m				38,611.00	38,611.00
6.10.	13 GATES						
65	Supplying and fixing 150mm Dia C.I Gate with complete set including spindle long, base plate, Brass nut, Rag Bolts, ect in position	Nr				62,227.00	62,227.00
66	Supplying and fixing 225mm Dia C.I Gate with complete set including spindle long, base plate, Brass nut, Rag Bolts, ect in position	Nr				89,227.00	89,227.00
67	Supplying and fixing 300mm Dia C.I Gate with complete set including spindle, base plate, Brass nut, Rag Bolts, ect in position	Nr				94,859.00	94,859.00
68	Supplying and fixing 375mm Dia C.I Gate with complete set including spindle, base plate, Brass nut, Rag Bolts, ect in position	Nr				104,859.00	104,859.00

No	Description	Unit -	Rate (Rs) without profit and overhead					
			Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar	
69	Supplying and fixing 450mm Dia C.I Gate with complete set including spindle, base plate, Brass nut, Rag Bolts, ect in position	Nr				143,221.00	143,221.00	
70	Supplying and fixing 600mm Dia C.I Gate with complete set including, base plate, Brass nut, Rag Bolts, ect in position	Nr				209,113.00	209,113.00	
71	Supplying and fixing 750mm Dia C.I Gate with complete set including, base plate, Brass nut, Rag Bolts, ect in position	Nr				389,738.00	389,738.00	
72	Supplying and fixing 900mm Dia C.I Gate with complete set including spindle, base plate, Brass nut, Rag Bolts, ect in position	Nr				491,155.00	490,805.00	
73	Supplying fabricating and installation of 1350mm x 750m size steel paneled gate	Nr				112,167.00	122,819.00	
6.10.	.14 MISCELLINIOUS							
74	Supplying and fixing of 12mm dia. 0.45 m long mild steel dowels	Nr				581.00	581.00	
75	Supplying and fixing of 16mm dia. 0.45 m long mild steel dowels	Nr				787.00	787.00	
76	Chemical Anchoring for 10 mm dia bar 100 mm anchoring length (excluding anchor bar)	Nr				435.00	435.00	
77	Furnishing and fixing 50*100mm R.C.C. hand rails with 2 Nos. 10mm dia. Reinforcement including formwork	m				1,783.00	1,821.00	

No	Description	T T \$4	Rate (Rs) without profit and overhead					
		Unit	Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar	
78	Providing guard stones as per type NP/IRR/GS/Type No 01	Nr				5,526.00	5,616.00	
79	Providing of 50 x 100 weep holes as per type NP/IRR/WH/Type No 01	Nr				2,625.00	2,261.00	
80	Water Pumps 50 mm (2")	Hr				625.00	500.00	
81	Water Pumps 75 mm (3")	Hr				1,000.00	562.00	
82	Supplying of empty C.I.C. pohora bags (50kg size of fertilizer)	Nr				150.00	150.00	
83	Forming of sand in pohora bags.	Nr				73.00	73.00	
84	Stitching of sand bags.	Nr				11.00	11.00	
85	Laying of sand bags.	Nr				55.00	55.00	
86	Removing of sand bags.	Nr				55.00	55.00	
87	Water level measuring gauge	m ²				51,441.00	51,441.00	
88	Expansion joints in concrete floors filling with bitumen and sand mix (to full depth of concrete and rendering).	m ²				2,877.00	2,849.00	
6.10.	15 GABIONS			•				
89	Furnishing, Lacing & Placing of PVC Coated 1 x 0.5 x 0.5 m Gabions boxes	INI				5,680.00	5,680.00	
90	Furnishing, Lacing & Placing of PVC Coated 1.0 x 1.0 x 1.0 m Gabions boxes					13,538.00	13,538.00	
91	Furnishing, Lacing & Placing of PVC Coated 1.5 x 1.0 x 1.0 m Gabions boxes					17,787.00	17,787.00	
92	Furnishing, Lacing & Placing of PVC Coated 2.0 x 1.0 x 1.0 m Gabions boxes					25,330.00	25,330.00	

No	Description	IIn:4	Rate (Rs) without profit and overhead					
		Unit	Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar	
93	Furnishing, Lacing & Placing of PVC Coated 2.0 x 1.0 x 0.5 m Gabions boxes	Nr				16,705.00	16,705.00	
94	Furnishing, Lacing & Placing of PVC Coated 3.0 x 1.0 x 1.0 m Gabions boxes	Nr				35,259.00	35,259.00	
95	Furnishing, Lacing & Placing of PVC Coated 3.0 x 1.0 x 0.5 m Gabions boxes	Nr				22,718.00	22,718.00	
96	Furnishing, & Laying Polyfelt Geosynthetics 1.5mmthk. sheet for gabion boxes	m ²				440.00	440.00	
97	Furnishing, & Laying Polyfelt Geosynthetics 2.5mmthk. sheet for gabion boxes	m ²				660.00	660.00	
98	Furnishing, & Packing 225 x 150 mm random rubble in to Gabion boxes	m ³				7,601.00	9,382.00	
6.10.	16 AGRICULTURE WE	LLS						
99	Earth Excavation in foundation 0-5 ft. lift up to 5ft. Spread with in 100ft. by Machinery and shaping by manual	m ³				627.00	882.00	
100	Earth Excavation in foundation 5-10 ft. lift up to 10ft. Spread with in 100ft. by Machinery and shaping by manual	m ³				634.00	892.00	
101	Earth Excavation in foundation 10-15 ft. lift up to 15ft. Spread with in 100ft. by Machinery and shaping by manual	m^3				655.00	922.00	
102	Earth Excavation in foundation 15-20 ft. lift up to 20ft. Spread with in 100ft. by Machinery and shaping by manual	m ³				669.00	942.00	

No	Description	Unit	Rate (Rs) without profit and overhead					
			Jaffna	Kilinochchi	Mullaitivu	Vavuniya	Mannar	
103	Soft Rock Excavation in foundation 0-5 ft. lift up to 5ft. Spread with in 100ft. by Machinery and shaping	m ³				1,047.00	1,482.00	
104	16mm thick cement and sand 1:3 plastering	m^2				954.00	928.00	
105	100mm Cement concrete block in 1:4:5[20mm] masonry in 1:5 cement and sand.	m^2				3,666.00	3,643.00	
106	125mm Cement concrete block in 1:4:5[20mm] masonry in 1:5 cement and sand.	m ²				4,582.00	4,553.00	