$EST~No.:WRD/KWA-CE(CR)/EST/7347/2022_5_9_8~(Edit~Id:11)\\ (Dsor~year:2018,Cost~Index~(Place:Idukki,Value:141.53),GST:18\%$

GENERAL ABSTRACT

Jal Jeevan Mission (JJM)-JJM CWSS to Marayoor and Kanthalloor Panchayths in Idukki

District-Construction of well cum pump house and supply and laying of raw water pumping main

at Kanthalloor-General Civil Work

Sl No	Head Description	Amount
1	Construction of 4.5m dia Intake well	2301480.85
2	Construction of Pump house	1657446.07
3	Supply and laying Raw Water Pumping Main	14397875.59
4	Road Restoration Charges(MORD ROAD)	1703496.80
5	Supply, erection, testing and commissionning of RAW water pump set from raw water pump house to Kanthaloor WTP - Discharge 26lps, Head 24m	1149809.48
	Total Estimation PAC	21210108.79
Sl No	Description Percentage/LS	Amount
L	Lumsum Heading	
L.001	Connection charges - KSEB	
	@LS	250000.00
	Total Lumsum Amount	250000.00
С	Extra Charges	
C.001	Provision for GST	
	21210108.79 18.00%	3817819.58
	Grand Total	25277928.37
	Round off	22071.63
	Rounded Total(Rs)	25300000.00
	Rupees Two Crore Fifty Three Lakh	

Approved By **Sajiv Retnakaran**(PEN:G13690), Chief Engineer

DETAILED ESTIMATE

Jal Jeevan Mission (JJM)-JJM CWSS to Marayoor and Kanthalloor Panchayths in Idukki

District-Construction of well cum pump house and supply and laying of raw water pumping main at Kanthalloor-General Civil Work

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
1	Construction of 4.	5m dia Int	ake well				
1.001	2.31						
	Clearing jungle in saplings of girth u removal of rubbisl	p to 30 cm	n measured a	t a height of	1 m above gr	round leve	el and
	Clearing ju	ngle					
		1.0000	7.000	7.000			49.000
	Total		A S	TAN.			49.000
			1040	To	otal Quantit	y in sqm	49.000
1.002	OD94945/2023-20)24		210			
	filled cement bags conveying and pla completion of wor all cost of material	cing in po ks properl ls, labor cl	sition and di ly as per the narges etc. co	smantling & direction of tomplete.	amp; removi the departme	ng the sar nt officers	ne after
	Providing ri	ng bund /	shoring usin	g earth filled	cement bags	S	
		1.0000	20.000	2.000	3.000		120.000
	Total						120.000
				To	otal Quantity	y in cum	120.000
1.003	Earthwork in open and up to 6.0m in lead of 50m and li	all kinds of the control of the cont	of soil and co	nveying and	depositing th		
	Earthwork in oper		avation				
		3.1400	7.000	7.000	1.000	0.2500	38.465
	Total						38.465
				To	otal Quantity	y in cum	38.465
1.004	100.4.2						
	Granite rock blasti spoil for measurer bailing out water.						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Granite rock blas	sting in we	ells,	_						
		3.1400	7.000	7.000	0.500	0.2500	19.233			
	Total						19.233			
				To	tal Quantity	y in cum	19.233			
1.005	100.4.3									
	Granite rock blasting in wells,measured in solids,including collecting and stacking spoil for measurement within the intial lead of 50m and lift upto 3.00m(1 st depth 1.50m to 3.00m) but excluding bailing out water. (Ref. Item No. 1098 (b) of T C)									
	Granite rock blas		ells,	I						
		3.1400	7.000	7.000	1.500	0.2500	57.698			
	Total						57.698			
			-6)	To	tal Quantit	y in cum	57.698			
1.006	100.4.4		ATA	9 4741						
	spoil for measurer 3.00m to 4.50m) b (Ref. Item No. 109 Granite rock blas	out excludi 98 (c) of T	ing bailing o <mark>r C)</mark>	ut water.	_E	1.50m(2 n	d depth			
		3.1400	OF PUBLIC	WORKS		0.2500	22.050			
		0	7.000	7.000	0.600	00	23.079			
	Total						23.079			
				To	tal Quantit	y in cum	23.079			
1.007	Bailing out water erecting, dismantla and other stores pa	ing and tal ay of staff	king back of etc., comple	engine and p						
	Bailing out wat		HP engine an	d pump set		0 = -00				
	Bailing out water with 2 no.s 5 HP	10.000	90*10			0.7500	6750.000			
	Total						6750.000			
				To	tal Quantity	y in Kwh	6750.000			
1.008	100.7.2									
	Bailing out water conveyance to the of fuel lubricating	site, erect	ing, dismant	ling and taki	ng back of e					
	Bailing out wa	ter with e	ngine and pu	mp set above	e 5HP up to	10HP				
		10.000	90*10			0.7500 00	6750.000			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	Total						6750.000
				To	tal Quantity	in Kwh	6750.000
1.009	OD94948/2023-20)24					
	DOWEL BARS_S long including dril gap with cement g	ling holes	of 20 mm d	ia to a depth	l bars of size of 100 cm in	16 mm d rock and	ia , 200 cm filling the
	Dowel bars						
		45.000 00					45.000
	Total						45.000
				,	Fotal Quant	ity in no	45.000
1.010	4.1.3						
	Providing and layi of centering and sh (zone-III): 4 grade	nuttering - ed stone ag	All work up ggregate 20 i	to plinth lev mm nominal	el:1:2:4 (cen		
	Providing and layi		tion cement	concrete		0.2500	
	Levelling bottom of well	1.0000	3.140	5.4*5.4	0.200	0.2500 00	4.578
	Total						4.578
	10001						T.570
			a Di Arrono	To	otal Quantity	y in cum	
1.011	5.3		OF PUBLIC		otal Quantity	y in cum	
1.011	5.3 Reinforced cement to 15 ^{0<td>> landings d spiral sta ng, finishii</td><td>work in bear , balconies, ir cases up to ng and reinfo</td><td>ms, suspende shelves, chaj o floor five lo orcement, wi</td><td>ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o</td><td>ofs, having lands, plaing the cos</td><td>4.578 g slope up n window t of</td>}	> landings d spiral sta ng, finishii	work in bear , balconies, ir cases up to ng and reinfo	ms, suspende shelves, chaj o floor five lo orcement, wi	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o	ofs, having lands, plaing the cos	4.578 g slope up n window t of
1.011	5.3 Reinforced cement to 15 ^{0<td>> landings d spiral sta ng, finishin graded sto</td><td>work in bear by, balconies, ir cases up to ng and reinfo one aggregat</td><td>ms, suspende shelves, chaj o floor five lo orcement, wi e 20 mm nor</td><td>ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o</td><td>ofs, having lands, plaing the cos</td><td>4.578 g slope up n window t of</td>}	> landings d spiral sta ng, finishin graded sto	work in bear by, balconies, ir cases up to ng and reinfo one aggregat	ms, suspende shelves, chaj o floor five lo orcement, wi e 20 mm nor	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o	ofs, having lands, plaing the cos	4.578 g slope up n window t of
1.011	5.3 Reinforced cement to 15 ^{0<td>> landings d spiral sta ng, finishin graded sto</td><td>work in bear , balconies, ir cases up to ng and reinfo</td><td>ms, suspende shelves, chaj o floor five lo orcement, wi e 20 mm nor</td><td>ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o</td><td>ofs, having lands, plaing the cos</td><td>g slope up n window t of 1.5 coarse</td>}	> landings d spiral sta ng, finishin graded sto	work in bear , balconies, ir cases up to ng and reinfo	ms, suspende shelves, chaj o floor five lo orcement, wi e 20 mm nor	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o	ofs, having lands, plaing the cos	g slope up n window t of 1.5 coarse
1.011	5.3 Reinforced cement to 15 ^{0<td>> landings d spiral stang, finishing graded stoom</td><td>work in bear by, balconies, ir cases up to ng and reinfo one aggregat as, floors, roo</td><td>ms, suspende shelves, chaj o floor five lo orcement, wi e 20 mm nor ofs</td><td>ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size).</td><td>ofs, having ands, plaing the coscement:</td><td>4.578 g slope up n window t of 1.5 coarse 5.806</td>}	> landings d spiral stang, finishing graded stoom	work in bear by, balconies, ir cases up to ng and reinfo one aggregat as, floors, roo	ms, suspende shelves, chaj o floor five lo orcement, wi e 20 mm nor ofs	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size).	ofs, having ands, plaing the coscement:	4.578 g slope up n window t of 1.5 coarse 5.806
1.011	5.3 Reinforced cement to 15 ^{0<td>> landings d spiral sta ng, finishin graded sto rk in beam 3.1400 0 3.1400</td><td>work in bear by, balconies, ir cases up to and reinfo one aggregates, floors, roc 4.300</td><td>ms, suspende shelves, chaj o floor five lo orcement, wi e 20 mm nor ofs</td><td>ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size).</td><td>ofs, having ands, plaing the coscement:</td><td>g slope up n window t of 1.5 coarse 5.806</td>}	> landings d spiral sta ng, finishin graded sto rk in beam 3.1400 0 3.1400	work in bear by, balconies, ir cases up to and reinfo one aggregates, floors, roc 4.300	ms, suspende shelves, chaj o floor five lo orcement, wi e 20 mm nor ofs	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size).	ofs, having ands, plaing the coscement:	g slope up n window t of 1.5 coarse 5.806
1.011	5.3 Reinforced cement to 15 ^{08⁸8⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁸9⁹9^{9⁹9^{9<}}	> landings d spiral stang, finishing graded stork in beam 3.1400 0 3.1400 0 3.1400	work in bear s, balconies, ir cases up to ng and reinfo one aggregat as, floors, roo 4.300	ms, suspende shelves, chaj o floor five lorcement, wi e 20 mm nor ofs 4.300	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size).	ofs, having ands, plaing the coscement: 0.2500 00 0.2500	4.578 g slope up n window t of 1.5 coarse 5.806 4.578
1.011	5.3 Reinforced cement to 15 ^{0<td>> landings d spiral sta ng, finishin graded sto rk in beam 3.1400 0 3.1400 0 2.0000</td><td>work in bear s, balconies, ir cases up to ng and reinfo one aggregat as, floors, roo 4.300 4.800 5.400</td><td>ms, suspende shelves, chajo floor five lorcement, wie 20 mm nor ofs 4.300 0.600 5.400</td><td>ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size). 0.400 0.600</td><td>ofs, having ands, plaing the coscement: 0.2500 00 0.2500</td><td>4.578 g slope up n window t of 1.5 coarse 5.806 4.578 0.144</td>}	> landings d spiral sta ng, finishin graded sto rk in beam 3.1400 0 3.1400 0 2.0000	work in bear s, balconies, ir cases up to ng and reinfo one aggregat as, floors, roo 4.300 4.800 5.400	ms, suspende shelves, chajo floor five lorcement, wie 20 mm nor ofs 4.300 0.600 5.400	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size). 0.400 0.600	ofs, having ands, plaing the coscement: 0.2500 00 0.2500	4.578 g slope up n window t of 1.5 coarse 5.806 4.578 0.144
1.011	5.3 Reinforced cement to 15 ^{0<td>> landings d spiral stang, finishing graded stork in beam 3.1400 0 3.1400 0 2.0000 0 1.0000</td><td>work in bear, balconies, ir cases up to the aggregates, floors, roce 4.300 4.800 5.400</td><td>ms, suspende shelves, chajo floor five lorcement, will e 20 mm nor ofs 4.300 0.600 0.600</td><td>ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size). 0.400 0.600 0.200</td><td>ofs, having ands, plaing the coscement: 0.2500 00 0.2500</td><td>4.578 g slope up n window t of</td>}	> landings d spiral stang, finishing graded stork in beam 3.1400 0 3.1400 0 2.0000 0 1.0000	work in bear, balconies, ir cases up to the aggregates, floors, roce 4.300 4.800 5.400	ms, suspende shelves, chajo floor five lorcement, will e 20 mm nor ofs 4.300 0.600 0.600	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size). 0.400 0.600 0.200	ofs, having ands, plaing the coscement: 0.2500 00 0.2500	4.578 g slope up n window t of
1.011	5.3 Reinforced cement to 15 ^{0<td>> landings d spiral stang, finishing graded stork in beam 3.1400 0 3.1400 0 2.0000 0 1.0000</td><td>work in bear, balconies, ir cases up to the aggregates, floors, roce 4.300 4.800 5.400</td><td>ms, suspende shelves, chajo floor five lorcement, wie 20 mm nor ofs 4.300 0.600 5.400 0.600 0.300</td><td>ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size). 0.400 0.600 0.200</td><td>ofs, having ands, plaing the coscement: 1000000000000000000000000000000000000</td><td>4.578 g slope up n window t of 1.5 coarse 5.806 4.578 0.144 0.540</td>}	> landings d spiral stang, finishing graded stork in beam 3.1400 0 3.1400 0 2.0000 0 1.0000	work in bear, balconies, ir cases up to the aggregates, floors, roce 4.300 4.800 5.400	ms, suspende shelves, chajo floor five lorcement, wie 20 mm nor ofs 4.300 0.600 5.400 0.600 0.300	ed floors, roo jas, lintels, b evel excludir th1:1.5:3 (1 o minal size). 0.400 0.600 0.200	ofs, having ands, plaing the coscement: 1000000000000000000000000000000000000	4.578 g slope up n window t of 1.5 coarse 5.806 4.578 0.144 0.540

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Reinforced cemen shuttering, finishin - III): 3 graded sto	ng and rein	nforcement, v	with 1:1.5:3 ((1 cement : 1	cost of ce .5 coarse	entering, sand (Zone			
	RCC - well st	teining								
	Well steining	3.1400	4.800	0.300	5.000		22.608			
	Total						22.608			
				To	tal Quantity	y in cum	22.608			
1.013	5.1.3									
	Providing and layi excluding the cost to plinth level:1:2: nominal size)	of centeri	ng, shutterin	g, finishing a	and reinforce	ment - Al	ll work up			
	RCC 1:2:4									
	Anchor block	1.0000	2.500	1.000	1.500		3.750			
	Total		4113				3.750			
				To	tal Quantity	y in cum	3.750			
1.014	5.9.1			3						
	Centering and shuttering including strutting, etc. and removal of form for:Foundations footings, bases of columns, etc for mass concrete									
	Centering a	nd shutter	ring	WORKS						
	Base slab & kerb	1.0000	3.140	5.400	0.600		10.174			
	kerb inside	1.0000	3.140	4.300	0.600		8.101			
	anchor block for intake pipe	1.0000	7.000		1.500		10.500			
	Total						28.775			
				To	otal Quantit	y in sqm	28.775			
1.015	5.9.5									
	Centering and shu beams, plinth bear					orm for:L	intels,			
	Centering and shu	ttering								
	roof beam	1.0000	4.500	0.900			4.050			
	Total						4.050			
				To	otal Quantit	y in sqm	4.050			
1.016	5.9.12									
	Centering and shu steining	ttering inc	cluding strutt	ing, etc. and	removal of f	orm for:V	Vell			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Centering and	shuttering	g					
	Well steining - inside	1.0000	3.140	4.500	5.000		70.650	
	Well steining - out side	1.0000	3.140	5.100	5.000		80.070	
	Total						150.720	
				To	otal Quantit	y in sqm	150.720	
1.017	5.9.3							
	Centering and shufloors, roofs, landi				removal of f	orm for:S	uspended	
	Centering and shuttering							
	Cover slab	1.0000	3.140	5.4*5.4	1/4		22.891	
	Cover slab sides	1.0000	3.140	5.400	0.200		3.391	
	Platform for supporting valve	2.0000	0.950	0.900			1.710	
	Total			Challes .			27.992	
				To	otal Quantit	y in sqm	27.992	
1.018	5.22.6							
	Steel reinforcemer in position and bin bars of grade Fe-5	ding all co	omplete upto	ding straigh plinth level	tening, cuttir Thermo - Me	ng, bendin echanicall	g, placing y Treated	
	Steel reinforceme	nt for R.C	C.C work					
		1.0000	16.494+2 2.608			120.00 0000	4692.240	
	anchor block	1.0000	3.750			50.000 000	187.500	
	Total						4879.740	
				Total (Quantity in k	ilogram	4879.740	
1.019	13.1.1							
	12 mm cement pla	ster of mi	x:1:4 (1 cem	ent: 4 fine s	sand)			
	12 mm ce	ment plas	ter					
	well bottom	1.0000	3.140	4.5*4.5/4			15.896	
	kerb- inside	1.0000	3.140	4.200	0.400		5.275	
	well steining - inside	1.0000	3.140	4.500	5.000		70.650	
	well steining - out side	1.0000	3.140	5.100	2.000		32.028	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Roof slab beam	1.0000	4.500	0.900			4.050			
	Roof slab- top ⊥	2.0000	3.140	5.4*5.4	1/4		45.781			
	Roof slab side	1.0000	3.140	5.400	0.200		3.391			
	Total						177.071			
				To	tal Quantit	y in sqm	177.071			
1.020	13.43.1									
	Applying one coat manufacture on wa					brand and				
	Applying cement primer									
	well steining - out side	1.0000	3.140	5.100	2.000		32.028			
	Roof slab sides	1.0000	3.140	5.400	0.200		3.391			
	Total						35.419			
				To	tal Quantity	y in sqm	35.419			
	Wall painting with an even shade:Two Wall painting Qnty same as				i brand and i	nanuractu	35.419			
	item no. 21	0	33.419							
	Total						35.419			
				To	tal Quantity	y in sqm	35.419			
1.022	100.41.34 Supplying and fixi (low duty) charges	including	all cost, lab	our charges e	etc., complet		h frame			
	Supplying and fix		ngular C.I. m	anhole cove	r					
		1.0000					1.000			
	Total						1.000			
]	Fotal Quant	ity in no	1.000			
1.023	Item Shifted to he Steel work welded in position and app	em Shifted to Sub head 14 as item 14.73 em Shifted to head 14 as item 14.74 teel work welded in built up sections/framed work, including cutting, hoisting, fixing a position and applying a priming coat of approved steel primer using structural steel c. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and milar works								

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	ladder	1.0000				100.00 0000	100.000			
	Total	·					100.000			
				,	Total Quant	ity in kg	100.000			
1.024	100.1.1									
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.									
	Earth work					1				
	for intake pipe	1.0000	7.000	2.500	1.500		26.250			
	Total			14A			26.250			
			- 68	To	otal Quantity	y in cum	26.250			
1.025	100.1.2		411PH	KADN.						
	Excavating trenches sockets, and dressi exceeding 3m, inc	ng of side luding get	s, ramming ting out the	of bottoms, c excavated so	lepth exceedi il, and then r	ing 1.5m teturning t	out not he soil as			
	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a	ing of side luding get not exceed ramming,	s, ramming ting out the ding 20cm in watering, et m, in all kind	of bottoms, cexcavated so n depth, inclute, and dispods of soil.	lepth exceedi il, and then r uding consoli osing of surpl	ing 1.5m leturning to dating each	out not he soil as ch ited soil as			
	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work	ing of side luding get not exceed ramming, lead of 50	s, ramming ting out the ding 20cm in watering, e	of bottoms, cexcavated so depth, inclute, and dispose	lepth exceedi il, and then r ading consoli	ing 1.5m leturning to dating each	but not he soil as ch ated soil as			
	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a	ing of side luding get not exceed ramming, lead of 500	s, ramming ting out the ding 20cm in watering, et m, in all kind	of bottoms, cexcavated so n depth, inclute, and dispods of soil.	lepth exceedi il, and then r ading consoli osing of surpl	ing 1.5m teturning to	but not he soil as ch ated soil as 8.750			
1.026	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work for intake pipe	ing of side luding get not exceed ramming, lead of 500	s, ramming ting out the ding 20cm in watering, et m, in all kind	of bottoms, cexcavated so n depth, inclute, and dispods of soil.	lepth exceedi il, and then r uding consoli osing of surpl	ing 1.5m teturning to	but not he soil as ch ated soil as			
1.026	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work	ng of side luding get not exceed ramming, lead of 50 1 1.0000 0	s, ramming ting out the ding 20cm in watering, em, in all kind 7.000	of bottoms, cexcavated so n depth, included, and disposed of soil. 2.500 To crewed / well	lepth exceedial, and then ruding consoliosing of surple 0.500 otal Quantity deed) Centrification (Centrification)	ing 1.5m beturning to dating each dating e	8.750 8.750			
1.026	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work for intake pipe Total 18.71.5 Providing and layi	ng of side luding get not exceed ramming, lead of 50 not side lead	s, ramming ting out the ding 20cm in watering, em, in all kind 7.000	of bottoms, cexcavated so n depth, included, and disposed of soil. 2.500 To crewed / well I Double Flater.	lepth exceedial, and then reading consoliosing of surplosed Quantity (ded) Centrifunged Pipe	ing 1.5m beturning to dating each dating e	8.750 8.750			
1.026	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work for intake pipe Total 18.71.5 Providing and layi Iron, Class B (IS	ng of side luding get not exceed ramming, lead of 50 not side lead	s, ramming ting out the ding 20cm in watering, em, in all kind 7.000	of bottoms, cexcavated so n depth, included, and disposed of soil. 2.500 To crewed / well I Double Flater.	lepth exceedial, and then reading consoliosing of surplosed Quantity (ded) Centrifunged Pipe	ing 1.5m beturning to dating each dating e	8.750 8.750			
1.026	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work for intake pipe Total 18.71.5 Providing and layi Iron, Class B (IS Providing & Earth; and I amp;	ng of side luding get not exceed ramming, lead of 50 not side luding get not exceed a side luding side side side side side side side side	e Flanged (some DI dog	of bottoms, cexcavated so n depth, included, and disposed of soil. 2.500 To crewed / well I Double Flater.	lepth exceedial, and then reading consoliosing of surplosed Quantity (ded) Centrifunged Pipe	ing 1.5m beturning to dating each dating e	8.750 8.750 0un) Cast			
1.026	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work for intake pipe Total 18.71.5 Providing and layi Iron, Class B (IS Providing & Earth; 300 mm DI	ng of side luding get not exceed ramming, lead of 50 not side luding get not exceed a side luding side side side side side side side side	e Flanged (some DI dog	of bottoms, of excavated so n depth, included in depth, included in depth, included in depth	lepth exceedial, and then reading consoliosing of surplosed Quantity (ded) Centrifunged Pipe	y in cum	8.750 8.750 0un) Cast			
1.026	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work for intake pipe Total 18.71.5 Providing and layi Iron, Class B (IS Providing & Earth; 300 mm DI	ng of side luding get not exceed ramming, lead of 50 not side luding get not exceed a side luding side side side side side side side side	e Flanged (some DI dog	of bottoms, of excavated so n depth, included in depth, included in depth, included in depth	lepth exceediil, and then rading consoliosing of surplosting of su	y in cum	8.750 8.750 8.750 0un) Cast 12.000			
	sockets, and dressi exceeding 3m, inc required, in layers deposited layer by directed, within a Earth work for intake pipe Total 18.71.5 Providing and layi Iron, Class B (IS Providing & Earth work) Total Total	ng of side luding get not exceed ramming, lead of 50 not exceed ramming, lead of 50 not exceed at 1.0000 ng Double 1536):30 laying 300 2.0000 ng Double laying 300 2.0000	e Flanged (some DI down of the ding 20cm in watering, et m, in all kind of the ding 20cm in all kind of	of bottoms, dexcavated so n depth, included, and disposed soil. 2.500 Total crewed / well and the flanged soil of the cost o	lepth exceedial, and then residing consoliosing of surples of surples of the lepth	ing 1.5m teturning to dating each lus excavared by in cum lugally (Spin metre lugally in metre lugally spin	8.750 8.750 8.750 0un) Cast 12.000 12.000 rubber			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
		2.0000					2.000	
	Total	0					2.000	
	Total			r	Fotal Quant	ity in no	2.000	
1.028	100.98.463				Total Qualit	ity in no	2.000	
11020	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Valve with Cap PN 1.6, Size 300mm.							
	Supply of CI Dou			lve -300 mm	dia			
		2.0000					2.000	
	Total						2.000	
				, .	Fotal Quant	ity in no	2.000	
2	Construction of Pu	ımp house	<u> </u>					
2.001	2.8.1		A	W/\				
	out the excavated sof 50 m.All kinds	soil and di of soil						
	Earth work in ex		e-PLATFOR	M FOR THE M	ANAGEMENT			
	for ramp- beam	1.0000	2.000	0.450	0.600		0.540	
	for ramp -column	2.0000	1.000	1.000	1.000		2.000	
	for retaining wall	1.0000	15.000	1.500	0.900		20.250	
	Total						22.790	
				To	tal Quantit	y in cum	22.790	
2.002	4.1.3							
	Providing and layi of centering and sh (zone-III): 4 grade	nuttering -	All work up	to plinth lev	el:1:2:4 (cer			
	Providing PCC 1							
	for column footing	2.0000	1.000	1.000	0.100		0.200	
	for retaining wall	1.0000	15.000	1.500	0.100		2.250	
	Total						2.450	
				To	tal Quantit	y in cum	2.450	
2.003	5.33.1							

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
	Providing and laying 25 grade cement of as per approved de excluding the cost admixtures in reconcrete, improved direction of Enging 330 kg/ cum. Exceseparately. All wor	concrete for esign mix, of center ommended workabilitier - in-chess or less	or reinforced, including puing, shuttering proportions ity without in arge. Note:-cement used	cement concumping of cong, finishing as per IS: 91 mpairing stre Cement con	rete work, us oncrete to site and reinforce 103 to accele ngth and dur tent consider	sing ceme e of laying ement, inc rate, retar ability as ed in this	nt content g but luding d setting of per item is @	
	Providing mix	M-25 gra	de cement co	oncrete				
	ramp	1.0000	5.000	2.000	0.200		2.000	
	column footing	2.0000	1.000	1.000	0.200		0.400	
	column footing trapezoidal portion	2.0000	0.312				0.624	
	beam	2.0000	5.000	0.300	0.300		0.900	
	beam	1.0000	2.000	0.300	0.600		0.360	
	column	2.0000	0.300	0.300	1.800		0.324	
	retaining wall foundation	1.0000	15.000	1.500	0.300		6.750	
	retaining wall	1.0000	15.000	(.5+.2)/2	2.500		13.125	
	Total						24.483	
				To	otal Quantity	y in cum	24.483	
2.004	Providing and laying in position machine batched and machine mixed design mix Mode 25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level Providing RCC design mix M25 grade							
	Lintel	3.1400	4.900	0.200	0.150		0.462	
	Sunshade for windows	3.0000	1.800	0.600	0.100		0.324	
	Sunshade for rolling shutter	1.0000	2.800	0.600	0.100		0.168	

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity
	column	4.0000	0.300	0.450	4.550		2.457
	Roof slab of PH-	3.1400 0	5.7*5.7	0.120		$0.2500 \\ 00$	3.061
	Roof beam	1.0000	5.100	0.300	0.450		0.689
	Roof beam	3.1400 0	4.800	0.300	0.450		2.035
	Gantry beam	3.1400 0	4.500	0.300	0.400		1.696
	Total						10.892
				Tot	al Quantity	in cum	10.892
2.005	5.22.6				•	•	
	Steel reinforcements in position and bin bars of grade Fe-50	ding all co	omplete upto	ding straighte plinth levelT	ening, cuttin hermo - Me	g, bendin chanically	g, placing y Treated
	Steel reinforcem	ent	14-10/5				
		1.0000	24.483+1 0.892			100.00 0000	3537.500
	Total						3537.500
			COLATEON	Total Q	uantity in k	ilogram	3537.500
2.006	5.9.1		OF PUBLIC V	/ORKS			
	Centering and shut footings, bases of o				emoval of fo	orm for:Fo	oundations,
	Centering and sh	uttering					
	for column footing	2.0000	4.000		0.300		2.400
	for column footing	2.0000	2.400		0.800		3.840
	for column	2.0000	1.200		2.000		4.800
	for beam	1.0000	2.000		1.100		2.200
	for beam	$2.0000 \\ 0$	5.000		1.100		11.000
	for retaining wall foundation	1.0000	15+3		0.400		7.200
	Total						31.440
				Tot	tal Quantity	in sqm	31.440
2.007	5.9.3						
	Centering and shut floors, roofs, landi	tering inc	luding struttir	ng, etc. and ress platform	emoval of fo	orm for:Si	ıspended

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Centering a	nd shutter	ing								
	roof slab	3.1400 0	5.7*5.7	1/4			25.505				
	Roof slab side	3.1400 0	5.700	0.120			2.148				
	sunshade window	3.0000	1.800	0.600			3.240				
	sunshade side	3.0000	3.000	0.075			0.675				
	sunshade RS	1.0000	2.800	0.600			1.680				
	sunshade side	1.0000	4.000	0.075			0.300				
	Ramp slab	1.0000	5.000	2.000			10.000				
	Ramp slab side	2.0000	5.000		0.200		2.000				
	Total						45.548				
				To	tal Quantit	y in sqm	45.548				
2.008	5.9.5 Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers										
	Centering a	nd shutter	ring								
	Lintel	6.2800 0	4.900	0.150			4.616				
	Roof beam	3.1400 0	4.900	0.960			14.771				
	Roof beam	1.0000	5.100	0.960			4.896				
	Gantry beam	3.1400 0	4.500	1.100			15.543				
	Total						39.826				
				To	tal Quantit	y in sqm	39.826				
2.009	5.9.2										
	Centering and shut thickness) including										
	Centering and shuttering										
	for retaining wall	2.0000	15.000		2.500		75.000				
	for retaining wall	2.0000	(.5+.2)/2		2.500		1.750				
	Total	tal									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
				To	otal Quantity	y in sqm	76.750			
2.010	50.6.1.2									
	Solid block masonry using pre cast solid blocks (Factory made) of size 40x20x or nearest available size confirming to IS 2185 part I of 1979 for super structure floor two level thickness 20cm and above in: CM 1:6 (1 cement: 6 coarse sand complete.									
	Solid block masonry									
	Pump house walls	3.1400	4.900	0.200	5.000		15.386			
	Deduction - Rolling shutter	1.0000	2.500	0.200	2.500		-1.250			
	Deduction - window	3.0000	1.500	0.200	1.400		-1.260			
	Deduction - Lintel	3.1400	4.900	0.200	0.150		-0.462			
	Deduction - column	4.0000	0.300	0.200	5.000		-1.200			
	Total						11.214			
			OF PUBLIC	works To	tal Quantity	y in cum	11.214			
2.011	50.6.3.1									
	Solid block mason or nearest available for 10 cm thick was scaffolding etc cor	e size con Ill in CM	firming to IS	2185 part I	of 1979 for f	oundation	and plinth			
	Solid block ma									
	Parapet wall - PH	3.1400 0	5.600	0.100	0.750		1.319			
	Total						1.319			
				To	tal Quantity	y in cum	1.319			
2.012	13.1.1									
	12 mm cement plaster of mix:1:4 (1 cement : 4 fine sand)									
	12 mm cement plastering									
	Pump house inside wall	1.0000	3.140	4.700	5.000		73.790			
	Pump house outside wall	1.0000	3.140	5.100	5.000		80.070			
	Pump house parapet wall	1.0000	3.140	5.600	3.000		52.752			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	sunshade - windows	6.0000	1.800	0.675			7.290				
	sunshade -RS	2.0000	2.800	0.675			3.780				
	Pump house roof slab top & bottom	2.0000	3.140	5.7*5.7	1/4		51.009				
	Pump house roof slab sides	1.0000	3.140	5.700	0.120		2.148				
	Pump house roof parapet	1.0000	3.140	5.600	1.600		28.134				
	Deduction- rolling shutter	1.0000	2.500	2.500			-6.250				
	Deduction- windows	3.0000	1.500	1.400			-6.300				
	Total		1478S	2674)			286.423				
			23/10	To	tal Quantity	y in sqm	286.423				
2.013	13.43.1			3-1 0							
	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface: Water thinnable cement primer										
	Applying cem	ent primer	OF PUBLIC V	VORKS							
	Qty same as plastering item	1.0000	286.423				286.423				
	Total						286.423				
	Total Quantity in sqm										
2.014	Total Quantity in sqm 286.423 13.60.1										
	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work										
	Wall painting										
	Qnty same as plastering	1.0000	286.423				286.423				
	Total						286.423				
				To	tal Quantit	y in sqm	286.423				
2.015	13.71										
	Lettering with black Japan pint of approved brand and manufacture Lettering										
		100.00				15.000 000	1500.000				
	Total						1500.000				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
2.016	50.9.1.1									
	Providing wood w frames, wrought fr of required dia & I using good quality	ramed and ength (ho	fixed in pos ld fast lugs o	ition with ho or dash fasten	ld fast lugs o	or with da	sh fasteners			
	Providing woo	d work								
	Windows - horizontal	6.0000	1.700	0.100	0.075		0.077			
	Windows - vertical	12.000 00	1.400	0.100	0.075		0.126			
	Total						0.203			
	Total Quantity in cum 0.203									
2.017	7 50.9.5.1									
	Providing and fixing 4 mm thick float grainished of require thick shutters.	lass panes d size wit	including IS h necessary s	SI marked M	.S pressed bu	itt hinges	bright			
	Providing and		zed shutters	THE PERSON						
	Window	9.0000	0.500	1.400			6.300			
	Total									
—	E-PLATFORWIFOR THE MANAGEMENT									
			OF PUBLIC	WORKS TO	otal Quantit	y in sqm	6.300			
2.018	13.48.2		OF PUBLIC	WORKS TO	otal Quantit	y in sqm				
2.018		ufacturers equired sha	surface pair specification ade. Two or	nt system for ns:Painting w more coat ap	interiors and ood work w plied @ 0.90	l exteriors ith Delux) ltr/10 sq	6.300 s using the Multi m over an			
2.018	13.48.2 Finishing with Del primer as per man Surface Paint of re	ufacturers equired sha er applied	surface pair specification ade. Two or @ 0.75 ltr/1	nt system for ns:Painting w more coat ap 0 sqm of ap	interiors and ood work w plied @ 0.90	l exteriors ith Delux) ltr/10 sq	6.300 s using the Multi m over an			
2.018	Finishing with Del primer as per man Surface Paint of re under coat of prim	ufacturers equired sha er applied	surface pair specification ade. Two or @ 0.75 ltr/1	nt system for ns:Painting w more coat ap 0 sqm of ap	interiors and ood work w plied @ 0.90	l exteriors ith Delux) ltr/10 sq	6.300 s using the Multi m over an			
2.018	13.48.2 Finishing with Del primer as per many Surface Paint of reunder coat of primer Finishing with Del primer as per many Surface Paint of Paint Pai	ufacturers equired sha er applied Peluxe Mu	surface pair specification ade. Two or @ 0.75 ltr/1 lti surface pa	nt system for ns:Painting w more coat ap 0 sqm of app nint	interiors and ood work w plied @ 0.90	l exteriors ith Delux o ltr/10 sq l and man	6.300 s using e Multi m over an ufacture			
2.018	13.48.2 Finishing with Del primer as per many Surface Paint of reunder coat of prim Finishing with D	ufacturers equired sha er applied Peluxe Mu	surface pair specification ade. Two or @ 0.75 ltr/1 lti surface pa	nt system for ns:Painting w more coat ap 0 sqm of ap nint 1.400	interiors and ood work w plied @ 0.90	l exteriors ith Delux) ltr/10 sq l and man 1.0000 00	6.300 s using e Multi m over an ufacture 6.300			
	13.48.2 Finishing with Del primer as per many Surface Paint of reunder coat of prim Finishing with D	ufacturers equired sha er applied Peluxe Mu	surface pair specification ade. Two or @ 0.75 ltr/1 lti surface pa	nt system for ns:Painting w more coat ap 0 sqm of ap nint 1.400	interiors and yood work w plied @ 0.90 proved brand	l exteriors ith Delux) ltr/10 sq l and man 1.0000 00	6.300 s using the Multi mover an ufacture 6.300 6.300			
	13.48.2 Finishing with Delprimer as per many Surface Paint of reunder coat of prim Finishing with DWindow Total	er applied shape of peluxe Mu 3.0000 one of providing the shape of	surface pair specification ade. Two or @ 0.75 ltr/1 lti surface pa 1.500 shutters of a grough their eally designed outside locking and fixing sile steel wir of required the	nt system for ns:Painting we more coat ap 0 sqm of appaint 1.400 To approved malentire length d pipe shaft ving with pusling necessary 2 e of adequate	interiors and yood work work work work of the control of the contr	l exteriors ith Delux l tr/10 sq l and man 1.0000 00 y in sqm required s ogether ar s, side guideration co	6.300 s using e Multi m over an ufacture 6.300 6.300 6.300 ize M.S. the end by des and omplete, ngs to IS: 4454			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Rolling shutter	1.0000	2.500		2.500		6.250				
	Total						6.250				
				T	otal Quantit	y in sqm	6.250				
2.020	10.7										
	Providing and fixing ball bearing for rolling shutters.										
	Providing and fi		bearing								
		1.0000					1.000				
	Total	<u> </u>	l				1.000				
	Total Quantity in no										
2.021											
	Finishing with Del primer as per man Surface Paint to gi an under coat of pro- Finishing with Del	ufacturers ve an ever rimer appl	specification shade. Two ied @ 0.80 l	ns:Painting So or more country 10 sqm of	Steel work wi at applied @	th Deluxe 0.90 ltr/10	Multi O sqm over				
	N N	1.0000		int		2.4000					
	Rolling shutter	0	2.500	711	2.500	00	15.000				
	Total		E-PLATFOR	MIPOR THE IV	MUNICIPALITY		15.000				
			OF PUBLIC	WORKS T	otal Quantit	y in sqm	15.000				
2.022	10.26.2										
	balcony railing, sta	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approves steel primer. E.R.W. tubes									
	Providing and fix										
		100.00					100.000				
	Total	000					100.000				
				ı	Total Quant	ity in kg	100.000				
2.023	OD94952/2023-20)24									
	Electrification of pump house										
	Electrification of	pump hou	se								
		1.0000					1.000				
	Total	·	,		-		1.000				
	Total Quantity in no										
2.024	10.2										

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Structural steel work, including cuapproved steel prin	atting, hois	sting, fixing	elded in bui in position a	lt up sections nd applying	s, trusses a a priming	and framed coat of			
	I section									
		1.0000	10.000			36.700 000	367.000			
	Total									
	Total Quantity in kg									
2.025	OD114325/2023-2	2024								
	Supply, delivery and fixing of 3 T or suitable capacity Electrically and manually working on single girder with overhead travelling trolley and clear lift as per site conditions for lifting the chemicals, Chlorine, pumps etc and fitting as required, supplied with one set of crane slings with GI D shackle and clamps etc. complete as per the instruction of the Engineer in charge. Crane 3T									
		1.0000	AS				1.000			
	Total		1.000							
				316	Fotal Quant	ity in set	1.000			
3	Supply and laying	Raw Wat	er Pumping	<mark>Mai</mark> n						
3.001	100.98.117		e-PLATFOR	M FOR THE N	IANAGEMENT					
	Supply of DI K9 I	Pipe Confo	orming to IS	8329/2000,	200mm Dia.					
	Supply of 200 r	nm DI K9								
	Raw water PM	1.0000	3366.000				3366.000			
	for future mace	1.0000	66.000				66.000			
	deduct for MS	1.0000	60.000				-60.000			
	Total						3372.000			
	Total Quantity in metre									
3.002	100.98.446									
	Supply of CI Air Valve, Conforming to IS 14848 - 2000, Double Orifice Type DS2 Size 50mm.									
	Supply of CI air v	alve-50mi	n							
		4.0000					4.000			
	Total						4.000			
	Total Quantity in no									
3.003	100.98.445									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Supply of CI Air V Size 40mm.	Valve, Con	forming to I	S 14848 - 20	000, Double	Orifice Ty	pe DS2,			
	Supply of CI air v	alve-40mi	m		T					
		4.0000					4.000			
	Total						4.000			
				ŗ	Fotal Quant	ity in no	4.000			
3.004	100.98.460									
	Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Slui Valve with Cap PN 1.6, Size 150mm.									
	Supply of CI Double Flanged Sluice Valve									
	150mm	2.0000					2.000			
	Total		2.000							
					Fotal Quant	ity in no	2.000			
3.005	OD95174/2023-2024									
	Supply of CI Non Cap PN 1.6, Size 2		llve Confor <mark>n</mark>	ning to IS 14	846 - 2000, \$	Sluice Val	ve with			
	Supply of NRV-2	00mm			_ 드					
		1.0000	e-PLATFOR OF PUBLIC	M FOR THE M WORKS	ANAGEMENT		1.000			
	Total						1.000			
				To	tal Quantity	in each	1.000			
3.006	100.1.1									
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50m, in all kinds of soil.									
	EW excavat		classes of so	1	Т	Г				
	200mm DI pipe	1.0000	3306.000	0.800	1.150	0.6000	1824.912			
	Deduct Tar surface	1.0000	1500.000	0.900	0.200		-270.000			
	Total									
	Total Quantity in cum									
3.007	100.1.5									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity					
	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering, etc., and disposing of surplus excavated soil as directed, within a lead of 50 m, in Ordinary Rock.											
	EW excavation	in ordinar	y rock									
	200mm DI pipe	1.0000 0	3306.000	0.800	1.150	0.3000 00	912.456					
	Total						912.456					
	Total Quantity in cum											
3.008	100.2.7											
	Excavating trenches sockets, and dressing out the exceeding 20cm in watering, etc., and 50m, in Medium F	ing of side avated so depth, in disposing	es, ramming il, and then recluding constants	of bottoms, of eturning the solidating eac excavated soi	lepth up to 1. soil as requir ch deposited	.5m, inclu ed, in lay layer by r	ding ers not amming,					
	EW excavation in	n Medium	rock	Service .								
	200mm DI pipe	1.0000	3306.000	0.800	1.150	0.0500 00	152.076					
	Total		e-PLATEOS	M EOD THE M	ANAGEMENT		152.076					
			OF PUBLIC	WORKS TO	otal Quantity	y in cum	152.076					
3.009	100.1.13											
	Excavating trenches sockets, and dressing tring out the exceeding 20cm in watering, etc., and 50m, in Hard Rockets excavation	ing of side avated so depth, in disposing where B	es, ramming il, and then r cluding cons of surplus e lasting is Pro	of bottoms, of eturning the solidating eac excavated soi	lepth up to 1. soil as required the deposited	.5m, inclu ed, in lay layer by r	ding ers not amming,					
	200mm DI pipe	1.0000	1984.000	0.800	1.150	0.0500	91.264					
	Total	U U				00	91.264					
				To	otal Quantity	y in cum	91.264					
3.010	100.4.1					· -						
	Excavating in hard rock for trenches by blasting for laying pipes and stacking useful materials for measurements and disposing unserviceable materials within the initial lead of 50m and lift up to 1.50m (depth from 0.0m to 1.50m) and providing protection by earth filled cement bags during blasting to avoid damages to nearby structures (200 Nos. of earth filled cement bags for 10m3 of blasting)											
	EW excavation	in hard ro	ock with pro	tection								
	200mm DI pipe	1.0000	1322.000	0.800	1.150	0.0500 00	60.812					

Total Quantity in cum 60.3.011 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution to in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Fencing 1.0000 1450.000	Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
3.011 100.8.1 Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution to in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Fencing Fencing Fencing 1.0000 Total 1450.000 Total 100.14.3 Conveying and laying S& S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to 1S: 8329 excluding cost of pipes and specials: 200mm diameter Duct Iron Class K-9 Pipes. Conveying and laying 200mm DI pipe 1.0000 0 3366.000 Total 3366. Total 18.30.5 Providing flanged joints to double flanged C.1./ D.I pipes and specials, including testing of joints:200 mm diameter pipe Providing flanged joints 4.0000 0 4.1 Total Total Total Total General Quantity in no 4.1 3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints 610.00 000 610.000 610.000 610.000 610.000		Total						60.812			
Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution to in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Fencing Fencing 1.0000					To	otal Quantity	y in cum	60.812			
in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals. Fencing Fencing 1.0000	3.011	100.8.1									
Total		Fencing one side of trenches, 1.50m height with two rows of 10cm plastic caution tap in vertical casuarina pole (girth 15cm to 24cm) fixed at 2m intervals.									
Total Total 1450. Total 1450. Total Quantity in metre 1450. 3.012 100.14.3		Fencing									
3.012 100.14.3 Conveying and laying S& S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Duct Iron Class K-9 Pipes. Conveying and laying 200mm DI pipe 1.0000		Fencing	1.0000	1450.000				1450.000			
3.012 100.14.3 Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Duct Iron Class K-9 Pipes. Conveying and laying 200mm DI pipe 1.0000		Total						1450.000			
Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Duct Iron Class K-9 Pipes. Conveying and laying 200mm DI pipe 1.0000 3366.000 3366. Total 3366. Total Quantity in metre 3366. 3.013 18.30.5 Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe Providing flanged joints 4.0000 4. Total 4. Total Quantity in no 4. 3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints 610.00 000 610. Total 610.00 610.00					Tot	al Quantity	in metre	1450.000			
conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Duct Iron Class K-9 Pipes. Conveying and laying 200mm DI pipe 1.0000 3366.000 3366. Total 3366. Total Quantity in metre 3366. Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints: 200 mm diameter pipe Providing flanged joints 4.0000 4. Total 4. Total Quantity in no 4. 3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket: 200 mm diapipes Providing push on joints Providing push on joints 610.00 610.00 610.00 610.00	3.012	100.14.3									
Total Total Quantity in metre 3366. 3.013 18.30.5 Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe Providing flanged joints 4.0000 0 4. Total Quantity in no 4. Total Quantity in no 4. 3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints 610.00 000 Total 610.00 610.00 610.00 610.00		Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials: 200mm diameter Ductile									
Total Total Quantity in metre 3366. 3.013 18.30.5 Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe Providing flanged joints 4.0000 0 Total Quantity in no 4. Total Quantity in no 4. 3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints Total 610.00 000 Total 610.00 610.00 610.00		Conveying and la	ying 200n	nm DI pipe			г				
Total Quantity in metre 3366. 3.013 18.30.5 Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe Providing flanged joints 4.0000 0 4. Total Total Quantity in no 4. 3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints Total Total Total 610.00 000 610.00 610.00 610.00			1.0000	3366.000	X STATE			3366.000			
3.013 18.30.5 Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe Providing flanged joints 4.0000 Total Total Total Quantity in no 4.3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints Total Total 610.00 000 Total 610.00 610.00		Total			3-10			3366.000			
Providing flanged joints to double flanged C.I./ D.I pipes and specials, including testing of joints:200 mm diameter pipe Providing flanged joints 4.0000 Total Total 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints 1610.00 1610. 1610.			V		Tot	al Quantity	in metre	3366.000			
testing of joints:200 mm diameter pipe Providing flanged joints 4.0000 Total Total 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints Providing push on joints Total 610.00 000 610.	3.013										
Total Total Total Total Quantity in no 3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints Total Total 610.00 610.00 610.00		Providing flanged joints to double flanged C.I./ D.I pipes and specials, including									
Total Total Total Quantity in no 3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes Providing push on joints Providing push on joints 610.00 000 Total 610.		Providing flanged	joints								
3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm diapipes Providing push on joints 610.00 000 610.00 610.00			4.0000 0					4.000			
3.014 18.70.3 Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes Providing push on joints 610.00 000 Total 610.00		Total									
Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes Providing push on joints 610.00 000 610.		Total Quantity in no									
Pipes including testing of joints and including the cost of rubber gasket:200 mm dia pipes Providing push on joints 610.00 000 610.	3.014										
610.00 610.0 Total 610.0		Providing push - on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket:200 mm dia									
Total 610.		Providing push o	n joints								
Total 610.								610.000			
1 Otal Quality in 10fft 010.					To	tal Quantity	in joint	610.000			

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Cutting the bituminous / concrete roads with cutting machine for a minimum 200mm along the sides of proposed alignment of the pipe to be laid without of any damage to other utilities, including the charges for hire and conveyance of and plant, cost of consumables and charges for lighting, watching, ribbon fen caution boards, traffic diversion, and as per the direction of departmental offic complete, before carrying out the demolition of bituminous / concrete road by mechanical means and carrying out the excavation.										
	Cutting the bituminous/concrete road										
		1.0000	1500.000				1500.000				
	Total	ŭ j					1500.000				
				Tota	al Quantity	in metre	1500.000				
3.016	OD94954/2023-20)24									
	Dismantling manu lead as per direction	ally inclu on of Engi	ding disposa neer -in-Cha	al of unservic arge:Bitumin	eable materi ous road	al within	50 metres				
	Dismantling n	nanually a	nd disposal	of u/s materi	als						
	Tar surface	1.0000	1000.000	0.800			800.000				
	Total	/					800.000				
		100		To	otal Quantity	y in sqm	800.000				
3.017	15.2.1		e-PLATFOR	M FOR THE M	ANAGEMENT						
3.017	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing conc	metres lea	ad as per dir	ection of Eng	gineer - in-Cl	cluding d	isposal of ninal				
3.017	Demolishing ceme material within 50 concrete 1:3:6 or r	metres lea	ad as per dir	ection of Eng	gineer - in-Cl	cluding d	ninal				
3.017	Demolishing ceme material within 50 concrete 1:3:6 or r	metres les icher mix rete Road	ad as per dire (i/c equivale	ection of Engent design mi	gineer - in-Cl x)	cluding d	ninal 36.000				
3.017	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing conc	metres les icher mix rete Road	ad as per dire (i/c equivale	ection of Engent design mi	gineer - in-Cl x)	narge.Ñor	36.000				
	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing conc	metres les icher mix rete Road	ad as per dire (i/c equivale	ection of Engent design mi	gineer - in-Ch x) 0.150	narge.Ñor	ninal				
	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing conc	metres les icher mix rete Road 1.0000 0	ad as per dir (i/c equivale 300.000	ection of Engent design mi	gineer - in-Ch x) 0.150 otal Quantity	y in cum	36.000 36.000 36.000				
	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing concerte Total 18.68.1 Providing and layi	metres les icher mix rete Road 1.0000 0 ng D.I spectom dia	ad as per dir (i/c equivale 300.000	ection of Engent design mi	gineer - in-Ch x) 0.150 otal Quantity	y in cum	36.000 36.000 36.000				
	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing concrete 1:3:6 or r Demolishing concrete 1:3:6 or r Demolishing concrete 1:3:6 or r	metres les icher mix rete Road 1.0000 0 ng D.I spectom dia	ad as per dir (i/c equivale 300.000	ection of Engent design mi	gineer - in-Ch x) 0.150 otal Quantity	y in cum	36.000 36.000 36.000 sing as per				
	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing ceme material within 50 or r Demolishing concrete 1:3:6 or r Demolishing concrete 1:3:6 or r	ng D.I spe mm dia specials	ad as per dir (i/c equivale 300.000	ection of Engent design mi	gineer - in-Ch x) 0.150 otal Quantity	y in cum - on joint	36.000 36.000 36.000				
	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing concrete 1:3:6 or r Demoli	ng D.I sperment dia specials 4.0000 4.0000	ad as per dir (i/c equivale 300.000	ection of Engent design mi	gineer - in-Ch x) 0.150 otal Quantity	y in cum - on joint 0.3200 00 0.2600	36.000 36.000 36.000 ing as per				
	Demolishing ceme material within 50 concrete 1:3:6 or r Demolishing conc: Total 18.68.1 Providing and layi IS: 9523:Upt 600 Providing DI send 200mm x90 DI bend 200mm x45 DI bend 200mm x22.5 DI	ng D.I specials 4.0000 0 4.0000 0 15.000	ad as per dir (i/c equivale 300.000	ection of Engent design mi	gineer - in-Ch x) 0.150 otal Quantity	v in cum - on joint 0.3200 00 0.2600 00 0.2300	36.000 36.000 36.000 sing as per 1.280				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	200mm DI Tee150	2.0000				0.4500	0.900		
	200mm DI Teex80	10.000				0.4100	4.100		
	200mm DI T P	6.0000				0.2300	1.380		
	Total						17.970		
				Tota	l Quantity i	n quintal	17.970		
3.019	Conveying and fixing C. I. Double Acting Air Valve of approved quality with bolts, nuts, rubber insertions etc., complete, but excluding the cost of air valve (tail pieces, if required, will be paid separately): 50mm Double Acting Air Valve. Conveying and fixing CI D/A air valve								
	50mm Air valve	4.0000	T un vuive	le?			4.000		
	Total		<i>a</i> 8				4.000		
			40,6		Total Quant	tity in no	4.000		
	required, will be p Conveying and fix 40mm Air valve Total		OE PUBLIC	Single Action	ng Air Valve		4.000		
	Total			1	Total Quant	tity in no	4.000		
3.021	Total Quantity in no 100.31.2.5 Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, insertions etc., complete, but excluding the cost of the valve (tail pieces, if rewill be paid separately): 200mm diameter, Class II. Conveying and fixing NR valves 200mm 1.0000 0								
	Total				T. () O		1.000 1.000		
3.022	Total Quantity in no 2 100.31.2.4 Conveying and fixing C.I. sluice valves (with cap) by providing bolts, nuts, rubb insertions etc., complete, but excluding the cost of the valve (tail pieces, if requir will be paid separately): 150mm diameter, Class II.								
	Conveying and fix		uice valves						
	150mm	2.0000					2.000		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Total						2.000				
				ı	Total Quant	ity in no	2.000				
3.023	OD94955/2023-20)24									
	Labour for cutting 200mm dia. D I pi		pipe with stee	el saw.							
	Labour for cutting	•	-200 mm								
		30.000					30.000				
	Total	Total									
				Total (Quantity in F	Each Cut	30.000				
3.024	100.35.3					·					
	Testing 200mm D 200 mm dia Observed Data der	ived from	item no.102		1	test press	ure				
	Testing 250 mm d		+MS pipe	DATE:							
		3366.0 0000	100				3366.000				
	Total			310			3366.000				
		V		Tot	al Quantity	in metre	3366.000				
3.025	OD94956/2023-20)24	e-PLATFOR	M FOR THE M	IANAGEMENT						
	Supplying and ere- protection level of accuracy level of (housing to be mad liner to be made up .The flow metre sh provision for wirle calibration standar for at least 2 years	IP -68 for 0.5 with L e of SS 30 o of hard a hould coup ess transfe	r flow sensor ED/LCD dis D4 carbon sterubber /neopoled with HA r through G5	and IP -67 for and IP -67 for and IP -67 for anti-cell with anti-cell conformation (ARTB for data and IP for d	for transmitted flow meter corrosive properties or corrosive properties or corrosive properties and acquisition of the corrosition of the corresponding of the	er and have should have tection and inking war and trans uld be have	ing an ave the ad inside ter standers afer with				
	Supply and erection	on of Mag	gneticl flow i	meter-200mr	n	Г					
		1.0000					1.000				
	Total	<u> </u>				1	1.000				
				ı	Total Quant	ity in no	1.000				
3.026	100.37.7.1										
	including cost and of painting the stee	In situ fabrication of M.S. pipes of size 200mm (I.D.) using 8mm thick M.S. plate including cost and conveyance charges of M.S. plate, all fabrication charges, charges of painting the steel work with two or more coat deluxe multi surface paint to give an even shade over an under-coat of primer etc., complete.									
	Fabricating M.S p										
		1.0000	60.000				60.000				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	Earth work in excavation by mechanical means (Hydraulic excavator) /main foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm of including dressing of sides and ramming of bottoms, lift up to 1.5 m, included the excavated soil and disposal of surplus excavated soil as directed, work of 50 m.All kinds of soil								
	EW excavation	on in all cl	asses of soil						
	Valve chamber	13.000 00	1.500	1.500	1.500		43.875		
	Total						43.875		
				To	otal Quantit	y in cum	43.875		
3.032	4.1.3								
	Providing and layi of centering and sl (zone-III): 4 grade	nuttering -	All work up	to plinth lev	el:1:2:4 (cer				
	PCC 1:2:4 Valve chamber PCC	13.000	1.500	1.500	0.100		2.925		
	PCC above the trench	1.0000	15.000	10.000	0.200		30.000		
	Total						32.925		
				T.	. 10				
				T	otal Quantity	y in cum	32.925		
3.033	5.1.2		OF PUBLIC	MITOR THE IV	otal Quantity	y in cum	32.925		
3.033	5.1.2 Providing and layi excluding the cost to plinth level:1:1: nominal size	of centeri	tion specifie	d grade of re g, finishing a	inforced cen	nent concr ement - Al	rete, ll work up		
3.033	Providing and layi excluding the cost to plinth level:1:1:	of centeri	tion specifie	d grade of re g, finishing a	inforced cen	nent concr ement - Al	rete, ll work up		
3.033	Providing and layi excluding the cost to plinth level:1:1: nominal size	of centeri	tion specifie	d grade of re g, finishing a	inforced cen	nent concr ement - Al	rete, ll work up 20 mm		
3.033	Providing and layi excluding the cost to plinth level:1:1: nominal size RCC 1:1.5:3 Valve chamber	of centeri 5:3 (1 cen 13.000	tion specifie ng, shutterin nent 1.5 coar	d grade of re g, finishing a rse sand :3 gr	inforced cem and reinforce aded stone a	nent concr ement - Al	rete, ll work up 20 mm		
3.033	Providing and layi excluding the cost to plinth level:1:1: nominal size RCC 1:1.5:3 Valve chamber floor slab Valve chamber	of centeri 5:3 (1 cen 13.000 00 13.000	tion specifie ng, shutterin nent 1.5 coar	d grade of reg, finishing are sand :3 gr	inforced cem and reinforce raded stone a 0.150	nent concr ement - Al	rete, ll work up 20 mm		
3.033	Providing and layi excluding the cost to plinth level:1:1: nominal size RCC 1:1.5:3 Valve chamber floor slab Valve chamber side wall Valve chamber	13.000 00 13.000 00 39.000	tion specifie ng, shutterin nent 1.5 coar 1.500	d grade of reg, finishing assessand:3 gr	inforced cem and reinforce raded stone a 0.150	nent concr ement - Al	ete, 1 work up 20 mm 4.388		
3.033	Providing and layi excluding the cost to plinth level:1:1: nominal size RCC 1:1.5:3 Valve chamber floor slab Valve chamber side wall Valve chamber cover slab	13.000 00 13.000 00 39.000	tion specifie ng, shutterin nent 1.5 coar 1.500	d grade of reg, finishing assessand:3 grade of reg, finishing assessand:3 grade of the second of the	inforced cem and reinforce raded stone a 0.150	nent concrement - Al	ete, 1 work up 20 mm 4.388 12.110 5.850		
3.033	Providing and layi excluding the cost to plinth level:1:1: nominal size RCC 1:1.5:3 Valve chamber floor slab Valve chamber side wall Valve chamber cover slab Total	13.000 00 13.000 00 39.000	tion specifie ng, shutterin nent 1.5 coar 1.500	d grade of reg, finishing assessand:3 grade of reg, finishing assessand:3 grade of the second of the	inforced cem and reinforce raded stone a 0.150 1.150 0.200	nent concrement - Al	4.388 12.110 5.850		
	Providing and layi excluding the cost to plinth level:1:1: nominal size RCC 1:1.5:3 Valve chamber floor slab Valve chamber side wall Valve chamber cover slab Total	13.000 00 13.000 00 39.000 00	tion specifie ng, shutterin nent 1.5 coar 1.500 5.400 1.500 tion specifie ng, shutterin	d grade of reg, finishing a ree sand :3 grade of reg, finishing a control of the same of t	inforced cemand reinforce and stone a 0.150 0.20	y in cum	4.388 12.110 5.850 22.348 22.348		
	Providing and layi excluding the cost to plinth level:1:1: nominal size RCC 1:1.5:3 Valve chamber floor slab Valve chamber side wall Valve chamber cover slab Total 5.1.3 Providing and layi excluding the cost to plinth level:1:2:	13.000 00 13.000 00 39.000 00	tion specifie ng, shutterin nent 1.5 coar 1.500 5.400 1.500 tion specifie ng, shutterin	d grade of reg, finishing a ree sand :3 grade of reg, finishing a control of the same of t	inforced cemand reinforce and stone a 0.150 0.20	y in cum	4.388 12.110 5.850 22.348 22.348		

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Total										
	Total Quantity in cum										
3.035	5.9.2										
	Centering and shuttering including strutting, etc. and removal of form for: Walls (any thickness) including attached pilasters, butteresses, plinth and string courses etc.										
	Centering and shuttering										
	valve chamber bottom	13.000 00	4*1.5		0.250		19.500				
	Side wall inside	13.000 00	4*1.2		1.150		71.760				
	Side wall outside	13.000 00	4*1.5		1.150		89.700				
	cover slab	39.000 00	4.000		0.250		39.000				
	Total		1	1			219.960				
			A JA	Te	otal Quantit	y in sqm	219.960				
3.036	5.9.1		100								
	Centering and shufootings, bases of				removal of f	orm for:F	oundations,				
	Centering and sl	nuttering									
	Anchor block	60.000 00	4*0.8	WORKS	0.800		153.600				
	Total						153.600				
				To	otal Quantit	y in sqm	153.600				
3.037	5.22.6										
	Steel reinforcement in position and bin bars of grade Fe-50	ding all co	omplete upto								
	Steel reinforce	ment									
	Valve chamber	1.0000	22.348			80.000 000	1787.840				
	Anchor block	1.0000	30.720			50.000 000	1536.000				
	Total										
				Total (Quantity in k	kilogram	3323.840				
3.038	13.1.1										
	12 mm cement pla	ster of mi	x:1:4 (1 cem	ent: 4 fine s	sand)						
	plastering	П	Т								
		13.000 00	4*1.2		1.150		71.760				
	Total						71.760				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Total Quantity in sqm 71.760									
4	Road Restoration Charges(MORD ROAD)									
4.001	3.5.3									
	Excavation in Soil using Hydraulic Excavator and Tippers with disposal upto 1000 m Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross-sections, and transporting to the embankment location with a lift upto 1.5 m and lead upto 1000 m as per Technical Specification Clause 302.3									
	Earth work fo		<u>ork</u>							
	Bituminous road	1.0000	1000.000	0.800	0.300		240.000			
	Concrete road	1.0000	300.000	0.800	0.150		36.000			
	Concrete block pavement	1.0000	200.000	0.800	0.200		32.000			
	Total		MATE	2411			308.000			
			23/1	To	otal Quantity	y in cum	308.000			
4.002	4.1.A.1		J	3-16						
	Granular Sub-base Method Construct spreading in unifor place method with achieve the desired For Grading I Mate	tion of grand right restauration of grand re	anular sub-ba with motor g at OMC, and	ase by provice grader on pre d compacting	ling well gra pared surface g with smoot	ded mater e, mixing h wheel re	rial, by mix in oller to			
	1 TOVIGING GS.	1.0000	1000.000	0.800	0.150		120.000			
		0	1000.000	0.000	0.130					
	Total				. 10 44	•	120.000			
4.002	4.0			10	otal Quantit	y in cum	120.000			
4.003	Wet Mix Macadam Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at OMC in mechanical mixer (Pug Mill), carriage of mixed material by tipper to site, laying in uniform layers in sub-base/base course on a well prepared sub-base and compacting with smooth wheel roller of 80 to 100kN weight to achieve the desired density including lighting, barricading and maintenance of diversion, etc as per Tables 400.11 & 400.12 and Technical Specification Clause 406. By Mechanical Means with 1 km lead									
	Providing WM	M			 					
		1.0000	1000.000	0.800	0.150		120.000			
	Total									

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity			
	Total Quantity in cum									
4.004	5.1.1a									
	Prime Coat :- Low porosity Providing and applying primer coat with bitumen emulsion (SS-1) on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.70-1.0 kg/sqm using mechanical means as per Technical Specification Clause 502									
	Providing and a	applying p	rime coat							
		1.0000	1000.000	1.000			1000.000			
	Total						1000.000			
				To	otal Quantit	y in sqm	1000.000			
4.005	5.2.3a									
	Tack Coat Providemulsion distribute surfaces treated with Specification Clau	or at the raith primer	ate of 0.25 to	0.30 kg per	sqm on the	prepared g	ranular			
	Providing and a	pplying ta	ck coat			1 1				
		1.0000	1000.000	1.000			1000.000			
	Total	X		< 11			1000.000			
			e-PLATFOR	M FOR THET	otal Quantit	y in sqm	1000.000			
4.006	5.9.1.2a		0-70000	VVOVC						
	20mm thick Open-Graded Premix Carpet using Bituminous (penetration grade/modified bitumen) Binder - Bitumen S-65 Providing, laying and rolling of open-graded premix carpet of 20 mm thickness composed of 13.2 mm to 5.6 mm aggregates either using penetration grade bitumen or emulsion to required line, grade and level to serve as wearing course on a previously prepared base, including mixing in a suitable plant, laying and rolling with a three wheel 80-100 kN static roller capacity, finished to required level and grades to be followed by seal coat of either Type A or Type B or Type C as per Technical Specification Clause 508. Case - I By Manual Means (II) Bitumen (S-65)									
	20mm thick Ope	en-Gradeo	l Premix Car	pet						
		1.0000 0	1000.000	1.000			1000.000			
	Total						1000.000			
				To	otal Quantit	y in sqm	1000.000			
4.007	5.12.A.3.2a									
	Seal Coat - Manua sealing the voids in fall using Type A, By Manual Means	n a bitumi Type B a	nous surface nd Type C as	laid to the sper Technic	pecified leve cal Specifica	els, grade a	and cross			
	Providing and a	pplying se	eal coat							

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity	
		1.0000	1000.000	1.000			1000.000	
	Total	-		'			1000.000	
				To	tal Quantit	y in sqm	1000.000	
4.008	75.8.1							
	Providing Plain ce 4course aggregate requiredincluding courseaggregate ne perspecification (i) Nominal mix (1)) laid to re compaction ot exceeding (1:2:4)	equired slope on, finishing ng 25mm, n	and camber and tamping nixed in cond	in panels (@ etc .complet crete mixer e	3 m c/c) te. Max. s	as ize of	
	Providing Plain of	ement con	ncrete for roa	nd work CC 1	:2:4			
		1.0000	300.000	0.800	0.150		36.000	
	Total			<u> </u>			36.000	
			- 68	To	tal Quantit	y in cum	36.000	
4.009	6.6							
	Rectangular Concrete Block Pavement Manufacturing, laying of cement concrete blocks of size 0.450 m x 0.300 m x 0.15 m of Cement Concrete (C.C.) M30 garde and spreading 25 mm thick sand under neath and filling joints with sand on existing W.B.M. base as per Technical Specification Clause 1503.							
	Rectangular Conc	rete Blocl	x Pavement	M FOR THE M WORKS	ANAGEMENT			
		1.0000	200.000	1.000			200.000	
	Total							
	Total Quantity in sqm							
5	Supply, erection, testing and commissionning of RAW water pump set from raw wa pump house to Kanthaloor WTP - Discharge 26lps, Head 24m							
5.001	OD98019/2023-20)24						

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity				
	Supply erection, testing and commissioning of CF pumpset having a discharge of 26 lps for a head of 24 m from Raw water Pumphouse to Kanthaloor WTP. Supply and erection of CF pump set with the following specification 1. Pump Supply, erection, testing and commissioning of KWA pre-qualified reputed make Centrifugal pump sets with Bronze/SS impeller, SS shaft and CI pump casing with suitable type base plate with coupling, coupling guard foundation bolts & amp; nuts etc. complete suitable for coupling the pump and motor above the base										
	reputed make Cent casing with suitable & amp; nuts etc. coplate etc. complete cement sand and m follows lmtrs kltm Speed and commissioning mounted TEFC sqiphase 50 Hz AC sumotor shall confirming cost of caprotection relay shall be used for confirming the confirming and some motor with cover load relay with as per IE rules and (suitable for operate erection, testing an and vermin proof complete MCCB as incomed motor with a composition of the composition of interlegation in the composition of interlegation of interlegation in the composition in the composition of interlegation in the composition in	trifugal pure type bar omplete sure including the tall etc. of Discharge sprægt; Sille Less that g of KWA uirrel cag apply, won to EEF ement sar all be incompling of the code of pure type to the motor pure code of pure type to the motor pure code of pure type type type type type type type typ	amp sets with see plate with hitable for cog providing seemplete< 2 - 26 lps< 2 e of pumpir an 1500 rpm. A pre qualified induction religious and metal luded in start for pumps and saioning of seem and under the practice etc. Coump sets busing of suitable the each other CBs and fitted I No. Ammerth bus for the code of practice of pract	a Bronze/SS coupling, coupling the put uitable concibr> The dibr> Total lag main pipe 2. Motor< di reputed manotor suitable 415 V/3300 uding providetc. complete er as per presentable rating rivoltage provay with main complete. & lt; buitable rating rivoltage provay with main complete. & lt; tone pump subical type fl board consist capacity MC providing sed with 3 Noster with select entire panetice. The panification may los of out go d) & lt; br> £ 500 cup in the pump subical type floor of the pump selecter with selecter entire panetice. The panification may los of out go d) & lt; br> £ 500 cup in the pump selecter with selecter entire panetice. The panification may los of out go d) & lt; br> £ 500 cup in the pump selecter with selecter entire panetice. The panification may los of out go d) & lt; br> £ 500 cup in the pump selecter with selecter entire panetice. The panification may los of out go d) & lt; br> £ 500 cup in the pump selecter with selecter entire panetice. The panification may los of out go d) & lt; br> £ 500 cup in the pump selecter with selecter entire panetice.	impeller, SS upling guard amp and mot rete foundati uty condition head - 24 - 200 mm D; br> Suppake horizonta e for the about (select the ing suitable e For 3300v sent IE rules br> 3. Start g Soft starter tection, single contactor are the sting of 1 No CCB as out guitable size as of indicator to switch ele and inter cell shall be fig be modified ing as one of 5. Cabling	shaft and foundation above to above to on including it as I, Length-ly, erectional solid showe pump we suitable concrete functors di. Flexible ter< br&suitable fle phase pnd bypass r> 4. Pa< br> d MS fabroning (the Aluminium lamps, 1 tc. Complonnect witted on a condification of the conformation of the conformatio	CI pump on bolts the base ing cost of -3366 on, testing aft foot working 3 of the foundation gital motor coupling egt; Supply, for the reventer, contactor anel board; Supply, icated dust capacity two m bus bar No. volt ete and th the common is only nd the				
	work Su cables for the above considering energy materials and prov GI/copper strip but board etc. as per II testing and commifactor above 0.95. Valves Sflanged sluice valve valves shall includ positive suction pure easy repair works. connections <brathickness and="" bor="" flanges,="" for="" less="" not="" nut="" pump="" size="" suitable="" th="" that="" the="" valves.<="" with=""><th>ve pump so conservatiding suitaried in grows standard sta</th><th>et from pane ation. Lt; br & able earthing ound and giv ls. Lt; br & gt; of heavy duty citor shall co suitable size n return valv RCC supportuice valve shall and fitting for a total le and connectiet etc. comp</th><th>I board to state of the control of t</th><th>arter and from ag itable size pi arthing to mo St tor for the mas 34<br&g and="" as="" best="" d<="" duty="" for="" heavy="" i="" ize="" le="" non="" pipe="" pressure="" qual="" returnation="" ror="" suitable="" th="" the="" vecting="" well=""><th>n starter to Supply of pe/plate e otor, starte upply, erector to get; 8. SI marked ating. Fitter valves. I las delived ity GI/MS or the abovalve with elivery side.</th><th>o motor. Call arthing er, panel ction, et a power d CI double ing of n case of ery sides for S pipe of re pump set suitable</th></br&g></th></brathickness>	ve pump so conservatiding suitaried in grows standard sta	et from pane ation. Lt; br & able earthing ound and giv ls. Lt; br & gt; of heavy duty citor shall co suitable size n return valv RCC supportuice valve shall and fitting for a total le and connectiet etc. comp	I board to state of the control of t	arter and from ag itable size pi arthing to mo St tor for the mas 34 <br&g and="" as="" best="" d<="" duty="" for="" heavy="" i="" ize="" le="" non="" pipe="" pressure="" qual="" returnation="" ror="" suitable="" th="" the="" vecting="" well=""><th>n starter to Supply of pe/plate e otor, starte upply, erector to get; 8. SI marked ating. Fitter valves. I las delived ity GI/MS or the abovalve with elivery side.</th><th>o motor. Call arthing er, panel ction, et a power d CI double ing of n case of ery sides for S pipe of re pump set suitable</th></br&g>	n starter to Supply of pe/plate e otor, starte upply, erector to get; 8. SI marked ating. Fitter valves. I las delived ity GI/MS or the abovalve with elivery side.	o motor. Call arthing er, panel ction, et a power d CI double ing of n case of ery sides for S pipe of re pump set suitable				

Sl No	Specification	No	Length	Width	Depth	Cf	Quantity		
	main. If shall be provided.d be added at panel	s & s of ELCE	pecials S/RCCB to						
	Supply erection, testing and commissioning of CF pumpset having a dischalps for a head of 24 m from Raw water Pumphouse to Kanthaloor WTP								
	15 HP	2.0000					2.000		
	Total						2.000		
				1	Total Quant	ity in no	2.000		
5.002	OD94959/2023-20)24							
	Earthing with G.I. and providing mas			600 mm X 6	6 mm thick in	ncluding a	ccessories,		
	Eathing with GI ea	arth plate							
		2.0000		lo?			2.000		
	Total		a K				2.000		
					Fotal Quant	ity in set	2.000		
5.003	OD94960/2023-2024								
	Earthing copper c	onductor	of size 3.15	mm (10 SW	G).				
	earthing strip of s	ize 3.15 m	ım copper c	onductor (10	SWG).				
	earthing GI strip	1.0000	2.000	WORKS	MANDEMEN		2.000		
	Total						2.000		
	Total Quantity in metre								
5.004	OD94961/2023-20)24							
	Provision for Power line extension and Submitting application to KSEBL for power connection and power extension								
	Submitting application to KSEBL for power connection and power extension								
	LS	1.0000	1.000		•		1.000		
	Total	'					1.000		
	Total Quantity in L.S								