_									
KIIF	- B Proje	ect:TRAN10:	WRD02	5- 06 -\	VSS to	Ayyapp	bankovil Pa	Inchaya	t in Idukki
		t II-Package-						-	
250	mm DI	pumping/ gra	vity mair	n and 8	0mm (31 pump	ing main, ir	nprover	nent work
C	of Kaltho	otty sump& pi	ump hou	ise, cor	structi	on of pip	be line brid	ge, desi	gn and
cons	truction	of 1.00LL ca	pacity s	ump& p	oump h	ouse at	Nariyanpa	ra, prov	iding wash
	wate	er disposal pip	be line a	t WTP /	Alady a	and inter	rconnectior	n works	etc
	LMR A	bstract with DAR	21-IDK(Iduk	ki & Udun	nbanchol	a & Peerum	nedu) 01/07/202	22 - 30/09/2	2022
SI No	Spec	Descriptio	n	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
5 Ap	pendix A-	(1) - Supply and la Ka	lying 350mr Ithotty sum		•			pipe from A	Alady GLSR to
1	100.98.11 Supply of					·			
				1870.00 0	metre	4520.63	8453578.10	4274.30	7992941.00
2	100.98.12 Supply of	0 DI K9 Pipe Confor	ming to IS a	8329/2000), 350mm	Dia.	2		
			14	5353.00 0	metre	5506.95	29478703.35	5238.35	28040887.55
3	100.98.46 Supply of 200mm.	1 Cl Double Flange	d Sluice Va	lve Confor	ming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	ıp PN 1.6, Size
		T	Kera	12 W 5.000	ater A	uthorit 23723.65	y 118618.25	11794.00	58970.00

4	100.98.463							
	Supply of CI Double Flanged	d Sluice Val	lve Confoi	ming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	ap PN 1.6, Size
	300mm.							

		1.000	No	43312.35	43312.35	21653.95	21653.95
5	100.98.464	.					
	Supply of CI Double Flanged Sluice Val 350mm.	ve Confoi	rming to I	S 14846 - 2	2000, Sluice Va	live with Ca	ip PN 1.6, Size
		2.000	No	77806.55	155613.10	31667.35	63334.70
6	od41949/2020_2021						
	Supply DI specials,Tees,Bends,Collars,	Tapers et	С.				
	1	59.982	quintal	20384.0	1222673.09	19397.05	1163473.85
7	100.98.436						
	Supply of CI Air Valve, Conforming to IS	6 14848 -	2000, Kir	etic Air Val	ve Type DK, Si	ize 80mm.	

			1					
			4.000	No	11748.55	46994.20	5691.80	22767.20
8	100.98.43	7						
	Supply of	CI Air Valve, Conforming to IS	S 14848 - :	2000, Kin	etic Air Val	ve Type DK, Si	ze 100mm.	
			6.000	No	17963.75	107782.50	7621.70	45730.20
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
6 A	ppendix A	- (1) - Supply and laying 350n to Kalthotty su					n pipe from	Alady GLSR
1	100.1.1							
	Excavatin	g trenches of required width f	for pipes,	cables, e	tc including	excavation for	sockets, a	nd dressing of
		nming of bottoms, depth up to			-			•
		quired, in layers not exceed					•	
	All kinds o	watering, etc. and disposing	g of surpl	us excav	ated soil a	is directed, wit	hin a lead	of 50 m :
		No. 2.10.1 of DSR)						
			7346.91	RU	570.05	4000440.00	500.05	4054040 70
		1 B	9	cum	579.85	4260110.98	592.25	4351212.78
	sides, ram soil as ree ramming, Ordinary F	g trenches of required width to ming of bottoms, depth up to quired, in layers not exceed watering, etc. and disposin Rock. No. 2.13.1 of DSR)	1.5 m, in ing 20 cm	cluding g n in deptl	etting out th	ne excavated so g consolidating	oil, and the leach depo	n returning the osited layer by
			1763.26 1	cum	842.1	1484842.09	1033.20	1821801.27
3	(not excee 1.5 m, inc lead of 50 Medium R	n work by mechanical means eding 1.5 m in width or 10 m2 luding getting out the excava m. lock (blasting prohibited) derived from Item No.2.9.3	on plan),	including	dressing o	f sides and ram	iming of bo	ttoms, lift up to
			202 979	cum	1106.24	225129.00	1547.00	454620.27
			293.878	cum	1106.34	325128.99	1547.00	454629.27
4	2.7.3		. ,			\/ I		,
		k in excavation by mechanica		•		,		· ·
		lepth, 1.5 m in width as well a up to 1.5 m, disposed earth to		• •	-	•		
		מף נס ד.ס ווו, מוסףטשפט פמונון ננ			-			
			195.918	cum	1248.58	244619.30	1781.60	349047.51

5	100.4.1 Excavating in hard rock for trend measurements and disposing unset	rviceable ma	terials wi	thin the int	ial lead of 50m	and lift up	to 1.50m(intial
	depth 0 m to 1.50m) and providing p nearby structures(200 Nos. of earth (Ref. Item No. 1004 A of T C)	-			• •	sting to ave	oid damages to
		195.918	cum	4093.4	801970.74	2547.30	499061.92
6	100.8.1 Fencing one side of trenches, 1.50 pole (girth 15cm to 24cm) fixed at 2 (Data Prepared based on PWD SDB	m intervals.		s of 10 cm	plastic caution	tape in ver	tical casuarina
		2900.00 0	metre	28.82	83578.00	29.10	84390.00
7	100.8.2 Fencing 1.50m high with two rows casuarina pole (girth 15cm to 24cn NEW DATA (Prepared based on PW	n) fixed at 1	.5m interv	/als.	to 24cm) tied	with coir y	arn on vertical
	151	4000.00 0	metre	99.36	397440.00	100.25	401000.00
8	50.2.25.1 Filling with contractor's own earth (exceeding 20 cm in depth, consolida lift up to 1.5 m as per direction of sit	ating each de	posited la				•
	D	350.000	cum	548.85	192097.50	342.40	119840.00
9	100.14.5 Conveying and laying S&S Centrifuctors of pipes and specials : 300 mm dia Ductile Iron Class K-9 P Data derived from 18.72.19 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	3329 excluding
		1833.00 0	metre	214.13	392500.29	199.55	365775.15
10	100.14.6 Conveying and laying S&S Centrifu cost of pipes and specials : 350 mm dia Ductile Iron Class K-9 P Data derived from 18.72.20 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	3329 excluding
		5248.00 0	metre	283.7	1488857.60	263.05	1380486.40

11	100.31.1.5						
	"Conveying and fixing C.I. sluice valve	`	.,	0	•		ober insertions
	etc. excluding the cost of valve (the tai	il pieces i	f required	l will be pa	id separately)	:	
	200 mm diameter. Class I"						
	Data derived from item no.18.31.4.1 of I	DAR				1	
		5.000	Nos	1625.9	8129.50	1770.80	8854.00
12	100.31.1.7						
	"Conveying and fixing C.I. sluice valve	s (with ca	p) by pro	viding com	plete with bolt	ts, nuts, rut	ber insertions
	etc. excluding the cost of valve (the tai	il pieces i	f required	l will be pa	id separately)	:	
	300 mm diameter. Class I"						
	Data derived from item no.18.31.6.1 of I	DAR					
		1.000	Nos	2708.11	2708.11	2949.60	2949.60
13	100.31.1.8	10	16.20				
	"Conveying and fixing C.I. sluice valve	s (with ca	p) by pro	viding com	plete with bolt	ts, nuts, rut	ber insertions
	etc. excluding the cost of valve (the tai	il pieces i	f required	l will be pa	id separately)	:	
	350 mm diameter. Class I"			2A			
	Observed Data derived from item no.18	.31.of DA	R				
	1A	2.000	Nos	3616.3	7232.60	3827.40	7654.80
14	100.32.4		Va	N'AN			
14	Conveying and fixing C I Single acting	a Air Valv	e of appr	oved qualit	v with bolts nu	its rubber i	nsertions etc
	excluding the cost of air valve(the tail	State Contracts	AGENCE CONTRACTOR				
			CARL CRUN				
	Data derived from item no.18.59.2 of DA	ala Wa AR	ater A	uthorit	У		
		4.000	Nos	229.21	916.84	259.35	1037.40
15	100.32.5	1.000	1100	220.21	010.01	200.00	1007110
15	Conveying and fixing C I Single acting		o of appr		with bolto p	ite rubber i	neartions ato
	excluding the cost of air valve(the tail			-	-	uts, i ubbei i	insertions etc.
	100 mm Double acting Air Valve	pieces ii	requireu		a seperatery).		
	Τ	6.000	Nos	351.21	2107.26	410.70	2464.20
16	18.30.7						
	Providing flanged joints to double flan	iged C.I./	D.I pipes	s and spec	ials, including	testing of	joints:300 mm
	diameter pipe						
		70.000	Nos	603.77	42263.90	727.55	50928.50
17	18.30.8						
.,	Providing flanged joints to double flan	aed C I /		s and spec	ials including	testing of	ioints:350 mm
	diameter pipe	igou o.i.,	Dir pipot		laio, molaamg	tooting or	
		100.000	Nos	811.46	81146.00	921.05	92105.00
40	19 70 5	100.000	1103	011.40	01140.00	521.00	52105.00
18	18.70.5 Providing push on joints to Contrifug	ally (Sam		on Dince a	r Ductila Iron	Dinoa inalw	ding tooting of
	Providing push - on-joints to Centrifug	• • •		-		ripes inclu	ung testing of
	joints and including the cost of rubber	gasket:30	JU mm di	a pipe			

		300.000	joint	430.68	129204.00	429.30	128790.00
19	18.70.6 Providing push - on-joints to Centrif joints and including the cost of rubb	• • • •	,	-	r Ductile Iron	Pipes inclue	ding testing
		1000.00 0	joint	456.93	456930.00	452.50	452500.00
20	18.24 Laying in position S & S or flanged C cost of specials).	C.I. special s	uch as te	es, bends,	collars, tapers	and caps e	tc. (excludii
		59.982	quintal	603.91	36223.73	616.55	36981.90
21	18.67.1 Providing and laying S & S C.I. Star mm dia	idard specia	ls suitabl	e for mecha	anical jointing	as per IS 13	3382:Upto 3
		2.400	quintal	14708.65	35300.76	14043.50	33704.40
22	18.67.2 Providing and laying S & S C.I. Stand mm dia	dard special	s suitable	for mecha	nical jointing a	s per IS 133	82:Above 3
	All Co	6.200	quintal	15492.79	96055.30	14786.85	91678.47
23	18.83.7 Keel Labour for cutting C.I. pipe with steel	erala Wa saw.300 mm	n diamete	uthorit er C.I. pipe	У		
	Р	10.000	Each Cut	671.63	6716.30	694.55	6945.50
24	18.83.8 Labour for cutting C.I. pipe with steel	saw.350 mn	n diamete	er C.I pipe			
		25.000	Each Cut	781.1	19527.50	807.85	20196.25
25	100.35.5 Testing 300mm DI/CI pipeline with po 300 mm dia Observed Data derived from item no.			quired test p	pressure.		
		1833.00 0	metre	57.81	105965.73	60.95	111721.3
26	100.35.6 Testing 350mm DI/CI pipeline with po 350 mm dia Observed Data derived from item no.			quired test p	pressure.		

		5248.00					
		0	metre	70.53	370141.44	74.60	391500.80
27	4.1.3 Providing and laying in position cer shuttering - All work up to plinth lev nominal size)			-	-		-
		10.000	cum	8340.93	83409.30	10609.70	106097.00
28	5.9.1 Centering and shuttering including s columns, etc for mass concrete	strutting, etc	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases o
	1	40.000	sqm	350.0	14000.00	347.55	13902.00
	Earth work in excavation by mechani or drains (not exceeding 1.5 m in w bottoms, lift up to 1.5 m, including g directed, within a lead of 50 m.All kin	vidth or 10 s etting out th	sqm on p	olan), inclu	ding dressing	of sides ar	nd ramming o
				100 Ball			
30	2.9.1 Excavation work by mechanical mean	65.341	cum c excavate	309.95 or) / manua	20252.44 al means in fou	319.55	20879.72
30	Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc	ns (Hydraulio iqm on plan)	c excavate), includin and dispe	or) / manua ng dressing osal of surp	al means in fou of sides and ra blus excavated	ndation trer amming of	nches or drair bottoms, lift u
30	Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc	ns (Hydraulio sqm on plan) cavated soil	c excavate), includin and dispe	or) / manua ng dressing osal of surp	al means in fou of sides and ra blus excavated	ndation trer amming of	nches or drair bottoms, lift u
30	Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc	ns (Hydraulio oqm on plan) cavated soil rala Wa 65.341 ment concre	c excavate), includin and dispon ter A cum ete of spe	or) / manua ng dressing osal of surp uthorit 550.62	al means in fou of sides and ra olus excavated 35978.06 de excluding t	ndation trer amming of soils as dir 738.65 he cost of	nches or drain bottoms, lift u rected, within 48264.13 centering an
	Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc lead of 50 m.Ordinary rock	ns (Hydraulio oqm on plan) cavated soil rala Wa 65.341 ment concre	c excavate), includin and dispon ter A cum ete of spe	or) / manua ng dressing osal of surp uthorit 550.62	al means in fou of sides and ra olus excavated 35978.06 de excluding t	ndation trer amming of soils as dir 738.65 he cost of	nches or drain bottoms, lift u rected, within 48264.13 centering an
	Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc lead of 50 m.Ordinary rock	ns (Hydraulio com on plan) cavated soil rala Wa 65.341 65.341 ment concre el:1:3:6 (1 o 17.425 fied grade o ent - All wo	c excavate), includin and disponent cum ete of spectrum cement : cum	or) / manua ng dressing osal of surp uthorit 550.62 ecified gra 3 coarse s 7527.06	al means in fou of sides and ra olus excavated 35978.06 de excluding t and : 6 graded 131159.02 concrete, exclu	ndation trer amming of soils as dir 738.65 he cost of stone agg 9712.35	nches or drain bottoms, lift u rected, within 48264.13 centering an gregate 40 mi 169237.70
31	Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc lead of 50 m.Ordinary rock 4.1.6 Providing and laying in position cer shuttering - All work up to plinth leve nominal size) 5.1.2 Providing and laying in position specifi shuttering, finishing and reinforcem	ns (Hydraulio com on plan) cavated soil rala Wa 65.341 65.341 ment concre el:1:3:6 (1 o 17.425 fied grade o ent - All wo	c excavate), includin and disponent cum ete of spectrum cement : cum	or) / manua ng dressing osal of surp uthorit 550.62 ecified gra 3 coarse s 7527.06	al means in fou of sides and ra olus excavated 35978.06 de excluding t and : 6 graded 131159.02 concrete, exclu	ndation trer amming of soils as dir 738.65 he cost of stone agg 9712.35	nches or drain bottoms, lift u rected, within 48264.13 centering an gregate 40 mi 169237.70
31	Excavation work by mechanical mean (not exceeding 1.5 m in width or 10 s to 1.5 m, including getting out the exc lead of 50 m.Ordinary rock 4.1.6 Providing and laying in position cer shuttering - All work up to plinth leve nominal size) 5.1.2 Providing and laying in position specifi shuttering, finishing and reinforcem	ns (Hydraulio com on plan) cavated soil rala Wa 65.341 65.341 nent concre el:1:3:6 (1 o 17.425 fied grade o ent - All wo minal size 69.409	c excavate), includin and dispon ter A cum ete of spe cement : cum f reinforce ork up to cum	or) / manua ng dressing osal of surp uthorit 550.62 ecified gra 3 coarse s 7527.06 ed cement plinth leve 9483.15	al means in fou of sides and ra- olus excavated 35978.06 de excluding t and : 6 graded 131159.02 concrete, exclu l:1:1:5:3 (1 ce 658215.96	ndation trer amming of soils as dir 738.65 the cost of stone agg 9712.35 dig the co ment 1.5 c 11828.25	nches or drain bottoms, lift u rected, within 48264.13 centering an gregate 40 mi 169237.70 st of centerin coarse sand s 820987.00

34	5.9.2							
	-	and shuttering including sti pilasters, butteresses, plinth	-			orm for:Walls (any thickn	ess) including
	attached		202.500	sqm	748.62	151595.55	766.40	155196.00
35	13.1.1				11		1	
	12 mm ce	ment plaster of mix:1:4 (1 cer	ment : 4 fi	ne sand)			1	
	1		170.100	sqm	327.85	55767.29	386.35	65718.14
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
11	Append	ix A - (2) - Supply and laying 3 arra	300 mm D anging)- (a		-	n Kalthotty sum	p to Nariya	npara (Re-
1	100.98.11 Supply of	9 DI K9 Pipe Conforming to IS 8	8329/2000), 300mm	Dia.			
	1		4927.00 0	metre	4520.63	22273144.01	4274.30	21059476.10
2	100.98.46 Supply of 200mm.	1 CI Double Flanged Sluice Va	lve Confor	ming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	p PN 1.6, Size
			4.000	No	23723.65	94894.60	11794.00	47176.00
3	100.98.46 Supply of 300mm.	3 CI Double Flanged Sluice Va	lve Confor	ming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	p PN 1.6, Size
		PJ	2.000	No	43312.35	86624.70	21653.95	43307.90
4	100.98.44 Supply of	0 CI Air Valve, Conforming to IS	S 14848 - :	2000, Sin	gle Orifice,	Small Orifice T	⁻ype S1, Si	ze 25mm.
			3.000	No	5636.75	16910.25	966.75	2900.25
5	100.98.44 Supply of	4 CI Air Valve, Conforming to IS	S 14848 - :	2000, Sin	gle Orifice,	Large Orifice 1	Type S2, Si	ze 50mm.
		v	5.000	No	6110.65	30553.25	1760.95	8804.75
6		2020_2021 specials,Tees,Bends,Collars,						
	1		26.761	quintal	20384.0	545496.22	19397.05	519084.46
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
12	2 Append	ix A - (2) - Supply and laying 3 arra	300 mm D inging)- (b		-	h Kalthotty sum	p to Nariya	npara (Re-

	1						
1	100.1.1 Excavating trenches of required width f sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing All kinds of soil (Ref. Item No. 2.10.1 of DSR)	1.5 m, ind ing 20 cm	cluding ge	etting out th , including	ne excavated so g consolidating	oil, and the each depo	n returning the osited layer by
	1	4528.12 5	cum	579.85	2625633.28	592.25	2681782.03
2	100.1.5 Excavating trenches of required width f sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)	1.5 m, ind ing 20 cm	cluding ge n in depth	etting out th	ne excavated so g consolidating	oil, and the each depo	n returning the osited layer by
		905.625	cum	842.1	762626.81	1033.20	935691.75
3	100.2.2 Excavation work by mechanical means (not exceeding 1.5 m in width or 10 m2 1.5 m, including getting out the excava- lead of 50 m. Medium Rock (blasting prohibited) New Data derived from Item No.2.9.3	on plan), ated soil a	including nd dispos	dressing of sal of surpl	f sides and ram	ming of bo	ttoms, lift up to
	DI	301.875	cum	1106.34	333976.39	1547.00	467000.63
4	2.7.3 Earth work in excavation by mechanica 30 cm in depth, 1.5 m in width as well a m and lift up to 1.5 m, disposed earth to	l means (ls 10 sqm	Hydraulic on plan) i	excavator ncluding d)/ manual mea isposal of exca	ns over are vated earth	eas (exceeding n, lead up to 50
		181.125	cum	1248.58	226149.05	1781.60	322692.30
5	100.4.1 Excavating in hard rock for trenche measurements and disposing unservic depth 0 m to 1.50m) and providing prote nearby structures(200 Nos. of earth fille (Ref. Item No. 1004 A of T C)	eable ma	terials wit earth fille	hin the intidicement b	ial lead of 50m bags during blas	and lift up	to 1.50m(intial
6	50.2.25.1 Filling with contractor's own earth (exc exceeding 20 cm in depth, consolidating lift up to 1.5 m as per direction of site E	cluding roo g each de	ck) in tren posited la	ches, plint	h, sides of four	ndations et	c. in layers not

		1				1	
	1	250.000	cum	548.85	137212.50	342.40	85600.00
7	100.8.1						
	Fencing one side of trenches, 1.50 m l pole (girth 15cm to 24cm) fixed at 2 m	•	two rows	s of 10 cm	plastic caution	tape in ver	tical casuarin
	(Data Prepared based on PWD SDB -		009)				
		4000.00					
	1	0	metre	28.82	115280.00	29.10	116400.00
8	100.14.5						
	Conveying and laying S&S Centrifuga	lly Cast (S	Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	329 excludin
	cost of pipes and specials : 300 mm dia Ductile Iron Class K-9 Pipe						
	Data derived from 18.72.19 in DAR	5					
		4830.00	B				
		0	metre	214.13	1034247.90	199.55	963826.50
9	18.70.5	2.3	200	5			
	Providing push - on-joints to Centrifug	gally (Spu	n) Cast Ir	on Pipes o	or Ductile Iron	Pipes inclu	ding testing o
	joints and including the cost of rubber	gasket:3	00 mm di	a pipe	21	1	
	155	800.000	joint	430.68	344544.00	429.30	343440.00
10	18.30.7						
	Providing flanged joints to double flan diameter pipe	nged C.I./	D.I pipes	s and spec	cials, including	testing of	joints:300 mr
	Ker	100.000	ater A	u 603.77	У _{60377.00}	727.55	72755.00
11	18.83.7 Labour for cutting C.I. pipe with steel sa	aw.300 mn	n diamete	r C.I. pipe	F	1	
		50.000	Each	671.63	33581.50	694.55	34727.50
			Cut				
12	100.35.5		4				
	Testing 300mm DI/CI pipeline with pota 300 mm dia	idle water	to the req	uirea test p	pressure.		
	Observed Data derived from item no.10)23 of PHE	ED DATA				
		4830.00					
		0	metre	57.81	279222.30	60.95	294388.50
13	100.31.1.5						
	"Conveying and fixing C.I. sluice valve			-	-		ober insertion
	etc. excluding the cost of valve (the ta	il pieces i	f required	l will be pa	id separately)	:	
	200 mm diameter. Class I" Data derived from item no.18.31.4.1 of	DAR					
			Nee	4005.0	0500.00	4770.00	7000.00
		4.000	Nos	1625.9	6503.60	1770.80	7083.20

14 100.31.1.7 "Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) : 300 mm diameter. Class I" Data derived from item no.18.31.6.1 of DAR 2.000 Nos 2708.11 5416.22 2949.60 5899.20 15 100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts, nuts, rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve 25 mm Single acting Air Valve 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts, nuts, rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve 5.000 Nos 146.63 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts, nuts, rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (e
etc. excluding the cost of valve (the tail pieces if required will be paid separately) : 300 mm diameter. Class I" Data derived from item no.18.31.6.1 of DAR 2.000 Nos 2708.11 5416.22 2949.60 5899.20 15 100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve 50 mm Double acting Air Valve 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). 1603.91 y 16161.24 616.55 16499.49 18 18.67.1 18.67.1 18.67.1 18 18 18 14 14 14 14 14 14 14 14
300 mm diameter. Class I" Data derived from item no.18.31.6.1 of DAR 2.000 Nos 2708.11 5416.22 2949.60 5899.20 15 100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Jacoba Valve 5000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Jacoba Valve Jacoba Valve Data derived from item no.18.59.1 of DAR Jacoba Valve Jacoba Valve Jacoba Valve Jacoba Valve 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Iatoba Valve Valve Iatoba Valve Valve Iatoba Valve Iatoba Valve Iatoba Valve Iatoba Valve </td
Data derived from item no.18.31.6.1 of DAR Image: Colspan="6">2.000 Nos 2708.11 5416.22 2949.60 5899.20 15 100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve Observed Data derived from item no.18.59.0f DAR 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve Observed Data derived from item no.18.59.0f DAR 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve Data derived from item no.18.59.1 of DAR Januar Valve So mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Januar Janu
15 100.32.1 2.000 Nos 2708.11 5416.22 2949.60 5899.20 15 100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve 0bserved Data derived from item no.18.59.of DAR 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve 50 mo Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.1. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 1603.91 y 16161.24 616.55 16499.49 18 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1
15 100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve 25 mm Single acting Air Valve 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 1603.91 y 16161.24 616.55 16499.49 18 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1 18.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 <td< td=""></td<>
Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc. 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc. excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc. excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials).
Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc. 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc. excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc. excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials).
excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 1603.91 y 16161.24 616.55 16499.49 18 18.67.1
25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). 1603.91 ty 16161.24 616.55 16499.49 18 18.67.1
Observed Data derived from item no.18.59.of DAR 3.000 Nos 146.63 439.89 146.60 439.80 16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR Valve Valv
16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 18 18 18.67.1
16 100.32.3 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 18 18 18.67.1
Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etclexcluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve 50 mm Double acting Air Valve 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 603.911 y 16161.24 616.55 16499.49 18 18.67.1 Ker 26.761
excluding the cost of air valve(the tail pieces if required will be paid seperately): 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 1603.91 y 16161.24 616.55 16499.49 18 18.67.1
50 mm Double acting Air Valve Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 1603.91 y 16161.24 18 18.67.1
Data derived from item no.18.59.1 of DAR 5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 1603.91 y 16161.24 16499.49 18.67.1
5.000 Nos 229.21 1146.05 259.35 1296.75 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 603.91 y 16161.24 616.55 16499.49 18 18.67.1
 17 18.24 Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 1603.911 y 16161.24 616.55 16499.49 18 18.67.1
Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 603.911 y 16161.24 616.55 16499.49 18 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1
Laying in position S & S or flanged C.I. special such as tees, bends, collars, tapers and caps etc. (excluding cost of specials). Ker 26.761 quintal 603.911 y 16161.24 616.55 16499.49 18 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1 18.67.1
cost of specials). Ker 26.761 quintal 1603.911 y 16161.24 616.55 16499.49 18 18.67.1 18 18.67.1 18 18.67.1 16 </td
Ker 26.761 quintal 1603.911 y 16161.24 616.55 16499.49 18 18.67.1 18 18.67.1 16
Providing and laying S & S C.I. Standard specials suitable for mechanical jointing as per IS 13382:Upto 300
mm dia
4.800 quintal 70601.52 14043.50 67408.80
14708.65
19 2.8.1
Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches
or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming o
bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as
directed, within a lead of 50 m.All kinds of soil
10.891 cum 309.95 3375.67 319.55 3480.22
20 2.9.1
Evenuetion work hy mechanical measure (thistocolic constant) (may be been a to the state of the
Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains
(not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up
(not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a
(not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up

	1							
21	-	and laying in position ceme - All work up to plinth level:			-	-		•
	nominal s	ize)						
			1.453	cum	7527.06	10936.82	9712.35	14112.04
22	shuttering	and laying in position specifie g, finishing and reinforcemer one aggregate 20 mm nomi	nt - All wo				-	-
			7.832	cum	9483.15	74272.03	11828.25	92638.85
23		forcement for R.C.C work incluue upto plinth levelHard drawn st		ightening,	cutting, be	ending, placing	in position	and binding all
			783.200	kilogram	105.23	82416.14	132.00	103382.40
24		and shuttering including str pilasters, butteresses, plinth				orm for:Walls	(any thickn	ess) including
		151	33.750	sqm	748.62	25265.93	766.40	25866.00
25	13.1.1							
	12 mm ce	ment plaster of mix:1:4 (1 cer	ment : 4 fi	ne sand)	dad s		,	
	1	Kera	28.350	atsqmA	327.85	V 9294.55	386.35	10953.02
26	-	and laying in position ceme g - All work up to plinth level size)			-			•
			10.000	cum	8340.93	83409.30	10609.70	106097.00
27	-	and shuttering including str etc for mass concrete	utting, et	c. and rei	moval of fo	orm for:Founda	ations, foot	ings, bases of
			40.000	sqm	350.0	14000.00	347.55	13902.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
13 A	Appendix A	- (3) - Supply and Laying 250 re-arr	•		ain from Na f materials	riyanpara to Id	ukki kavala	(balance work
1	100.98.11 Supply of	8 DI K9 Pipe Conforming to IS 8	3329/2000), 250mm	Dia.			
			1188.00 0	metre	3616.52	4296425.76	3438.05	4084403.40

2	od41949/2 Supply DI	2020_2021 specials,Tees,Bends,Colla	rs,Tapers et	C.					
	I		7.450	quintal	20384.0	151860.80	19397.05	144508.02	
3	100.98.46 Supply of 200mm.	1 CI Double Flanged Sluice \	/alve Confo	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	p PN 1.6, Size	
			1.000	No	23723.65	23723.65	11794.00	11794.00	
4	100.98.462 Supply of CI Double Flanged Sluice Valve Conforming to IS 14846 - 2000, Sluice Valve with Cap PN 1.6, Size 250mm.								
	I		3.000	No	34361.8	103085.40	18345.20	55035.60	
5	100.98.44 Supply of	0 CI Air Valve, Conforming to) IS 14848 -	2000, Sin	gle Orifice,	Small Orifice 1	⊺ype S1, Si	ze 25mm.	
		61	3.000	No	5636.75	16910.25	966.75	2900.25	
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount	
23 A	ppendix A	- (3) - Supply and Laying 2 re-a				riyanpara to Id	ukki kavala	(balance work	
1	re-arranging)- (b) Working charges 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 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil								
			943.651	cum	579.85	547176.03	592.25	558877.30	
2	(Ref. Item No. 2.10.1 of DSR) 943.651 cum 579.85 547176.03 592.25 558877.30 100.1.5 Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)								
			188.730	cum	842.1	158929.53	1033.20	194995.84	

3	100.2.2 Excavation work by mechanical means (not exceeding 1.5 m in width or 10 m2 1.5 m, including getting out the excava lead of 50 m. Medium Rock (blasting prohibited) New Data derived from Item No.2.9.3	on plan),	including	dressing o	f sides and ram	ming of bo	ttoms, lift up to
		75.492	cum	1106.34	83519.82	1547.00	116786.12
4	2.7.3Earth work in excavation by mechanica30 cm in depth, 1.5 m in width as well am and lift up to 1.5 m, disposed earth to	ll means (is 10 sqm	on plan)	excavator including d)/ manual mea isposal of exca	ns over are vated earth	eas (exceeding n, lead up to 50
	1	25.164	cum	1248.58	31419.27	1781.60	44832.18
5	100.4.1 Excavating in hard rock for trenche measurements and disposing unservic depth 0 m to 1.50m) and providing prot nearby structures(200 Nos. of earth fille (Ref. Item No. 1004 A of T C)	eable ma	terials wite	thin the int d cement b	ial lead of 50m bags during blas	and lift up	to 1.50m(intial
	1460	25.164	cum	4093.4	103006.32	2547.30	64100.26
6	50.2.25.1 Filling with contractor's own earth (exc exceeding 20 cm in depth, consolidatin lift up to 1.5 m as per direction of site E	g each de	posited la				
		10.000	cum	548.85	5488.50	342.40	3424.00
7	100.8.1 Fencing one side of trenches, 1.50 m h pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - h	intervals.		s of 10 cm 28.82	plastic caution 23056.00	tape in ver 29.10	tical casuarina 23280.00
8	100.14.4 Conveying and laying S&S Centrifuga cost of pipes and specials : 250 mm dia Ductile Iron Class K-9 Pipe Data derived from 18.72.18 in DAR	· ·	Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	329 excluding
		1165.00 0	metre	170.19	198271.35	158.35	184477.75
9	18.70.4 Providing push - on-joints to Centrifug joints and including the cost of rubber	gasket:2	50 mm di	a pipes		-	
		230.000	joint	329.84	75863.20	328.70	75601.00

10	18.30.6 Providing flanged joints to double flan diameter pipe	ged C.I./	D.I pipes	and spec	ials, including	testing of j	joints:250 mm
		25.000	Nos	595.56	14889.00	727.55	18188.75
11	18.83.6 Labour for cutting C.I. pipe with steel sa	w.250 mn	n diamete	r C.I. pipe			
		15.000	Each Cut	559.11	8386.65	578.20	8673.00
12	100.35.4 Testing 250mm DI/CI pipeline with potal 250 mm dia Observed Data derived from item no.10						
		0	metre	52.99	61733.35	55.60	64774.00
13	100.31.1.5 "Conveying and fixing C.I. sluice valve etc. excluding the cost of valve (the tai 200 mm diameter. Class I" Data derived from item no.18.31.4.1 of I	l pieces i					ber insertions
		1.000	Nos	1625.9	1625.90	1770.80	1770.80
14	100.31.1.6 "Conveying and fixing C.I. sluice valve etc. excluding the cost of valve (the tai 250 mm diameter. Class I" Data derived from item no.18.31.5.1 of I	l pieces i			·		ber insertions
		3.000	Nos	2304.82	6914.46	2564.25	7692.75
15	100.32.1 Conveying and fixing C I Single acting excluding the cost of air valve(the tail 25 mm Single acting Air Valve Observed Data derived from item no.18	pieces if	required	-	-	uts,rubber i	nsertions etc .
		3.000	Nos	146.63	439.89	146.60	439.80
16	18.24 Laying in position S & S or flanged C.I. cost of specials).	special s	uch as teo	es, bends,	collars, tapers	and caps e	etc. (excluding
		7.450	quintal	603.91	4499.13	616.55	4593.30
17	18.67.1 Providing and laying S & S C.I. Standa mm dia	rd specia	ls suitable	e for mecha	anical jointing a	as per IS 13	3382:Upto 300

			1.440	quintal	14708.65	21180.46	14043.50	20222.64
18	2.8.1 Earth work in excavation or drains (not exceeding bottoms, lift up to 1.5 m, directed, within a lead of	1.5 m in wic including get	dth or 10 tting out tl	sqm on p	olan), includ	ding dressing	of sides an	nd ramming
			10.891	cum	309.95	3375.67	319.55	3480.22
19	2.9.1 Excavation work by mech (not exceeding 1.5 m in w to 1.5 m, including getting lead of 50 m.Ordinary roc	vidth or 10 squ g out the exca	m on plan), includin	g dressing	of sides and r	amming of t	oottoms, lift
			10.891	cum	550.62	5996.80	738.65	8044.64
20	4.1.6 Providing and laying in p shuttering - All work up to nominal size)			Contraction (1997)	// · _ /			-
	,	11/21	1972					
21	5.1.2	100	1.453	cum	7527.06	10936.82	9712.35	14112.04
21	1	reinforcemen	ed grade c	of reinforce	ed cement o	concrete, exclu	uding the co	st of centeri
21	5.1.2 Providing and laying in po shuttering, finishing and	reinforcemen	ed grade c	of reinforce	ed cement o	concrete, exclu	uding the co	st of centerii oarse sand
	5.1.2 Providing and laying in po shuttering, finishing and	reinforcemen 20 mm nomi	ed grade c nt - All wo inal size 7.832 rutting, et	of reinforce ork up to cum c. and re	ed cement of plinth level 9483.15 moval of fo	concrete, exclu (1:1:5:3 (1 ce 74272.03	uding the contract	st of centerin oarse sand 92638.85
	5.1.2 Providing and laying in po shuttering, finishing and graded stone aggregate 5.9.2 Centering and shuttering	reinforcemen 20 mm nomi	ed grade c nt - All wo inal size 7.832 rutting, et	of reinforce ork up to cum c. and re	ed cement of plinth level 9483.15 moval of fo	concrete, exclu (1:1:5:3 (1 ce 74272.03	uding the contract	st of centerii oarse sand 92638.85 ess) includi
22	5.1.2 Providing and laying in po shuttering, finishing and graded stone aggregate 5.9.2 Centering and shuttering	20 mm nomi 20 mm nomi g including st resses, plinth	ed grade c nt - All wo inal size 7.832 rutting, ef and strin 33.750	of reinforce ork up to cum cc. and re ng course sqm	ed cement of plinth level 9483.15 moval of for es etc. 748.62	concrete, exclu (1:1:5:3 (1 ce 74272.03 form for:Walls 25265.93	uding the content of	st of centerin oarse sand 92638.85 ess) includi 25866.00
22	5.1.2 Providing and laying in po shuttering, finishing and graded stone aggregate 5.9.2 Centering and shuttering attached pilasters, butter 5.22.2 Steel reinforcement for R.	20 mm nomi 20 mm nomi g including st resses, plinth	ed grade c nt - All wo inal size 7.832 rutting, ef and strii 33.750 uding stra teel wire	of reinforce ork up to cum cc. and re ng course sqm	ed cement of plinth level 9483.15 moval of for es etc. 748.62	concrete, exclu (1:1:5:3 (1 ce 74272.03 form for:Walls 25265.93	uding the content of	st of centerin oarse sand 92638.85 ess) includi 25866.00 and binding
22	5.1.2 Providing and laying in po shuttering, finishing and graded stone aggregate 5.9.2 Centering and shuttering attached pilasters, butter 5.22.2 Steel reinforcement for R.	reinforcemen 20 mm nomi 20 mm nomi g including st resses, plinth C.C work incl Hard drawn s	ed grade c nt - All wo inal size 7.832 rutting, et and strin 33.750 uding stra teel wire 783.200	of reinforce ork up to cum c. and re ng course sqm ightening kilogram	ed cement of plinth level 9483.15 moval of for es etc. 748.62 , cutting, be	concrete, exclu y1:1:5:3 (1 ce 74272.03 orm for:Walls 25265.93 ending, placing	uding the conterment 1.5 c 11828.25 (any thicknown 766.40	st of centerin oarse sand 92638.85 ess) includi 25866.00 and binding
21 22 23 24	5.1.2 Providing and laying in po shuttering, finishing and graded stone aggregate 5.9.2 Centering and shuttering attached pilasters, butter 5.22.2 Steel reinforcement for R. complete upto plinth level	reinforcemen 20 mm nomi 20 mm nomi g including st resses, plinth C.C work incl Hard drawn s	ed grade c nt - All wo inal size 7.832 rutting, et and strin 33.750 uding stra teel wire 783.200	of reinforce ork up to cum c. and re ng course sqm ightening kilogram	ed cement of plinth level 9483.15 moval of for es etc. 748.62 , cutting, be	concrete, exclu y1:1:5:3 (1 ce 74272.03 orm for:Walls 25265.93 ending, placing	uding the conterment 1.5 c 11828.25 (any thicknown 766.40	oarse sand 92638.85 ess) includii 25866.00

			5.000	cum	8340.93	41704.65	10609.70	53048.50
26	-	shuttering including r mass concrete	strutting, etc	c. and re	moval of fo	rm for:Found	ations, footi	ngs, bases
			20.000	sqm	350.0	7000.00	347.55	6951.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
	24 Appendix B	- (1) - Improvements	at Kalthotty	sump- (a	a) patch worl	k, painting and	d providing to	oilet etc.
1	cm measured a	including uprooting o t a height of 1 m abo the area cleared	-	-				• ·
			40.000	sqm	15.43	617.20	15.60	624.00
	bottoms, lift up	exceeding 1.5 m in v to 1.5 m, including g	getting out th			0		•
	directed, within	a lead of 50 m.All ki	1 Jak	cum	309 95	12711 67	319 55	13105 38
3		a lead of 50 m.All ki	41.012	cum	309.95	12711.67	319.55	13105.38
3	15.7.4 Demolishing br	a lead of 50 m.All ki ick work manually / erviceable material v	41.012 by mechan within 50 me	ical mea	ns including I as per dire	g stacking of	serviceable	e material ar
3	15.7.4 Demolishing br disposal of unse	ick work manually /	41.012 by mechan within 50 me	ical mea tres leac	ns including I as per dire	g stacking of	serviceable	e material ar
3	15.7.4 Demolishing br disposal of unse	ick work manually /	41.012 by mechan within 50 me	ical mea tres leac	ns including I as per dire	g stacking of action of Engi	serviceable neer-in-Cha	e material a rge.In ceme
	15.7.4 Demolishing br disposal of unse mortar 15.2.1 Demolishing cer	ick work manually /	41.012 by mechan within 50 me 0.500 ally / by mech	ical mea tres leac cum nanical m	ns including as per dire 1805.99 neans includ	g stacking of ection of Engin 903.00 ing disposal o	serviceable neer-in-Cha 1829.35 f material wi	e material ar rge.In ceme 914.68 thin 50 metre
	15.7.4 Demolishing br disposal of unse mortar 15.2.1 Demolishing cer	ick work manually / erviceable material y P ment concrete manua	41.012 by mechan within 50 me 0.500 ally / by mech	ical mea tres leac cum nanical m	ns including as per dire 1805.99 neans includ	g stacking of ection of Engin 903.00 ing disposal o	serviceable neer-in-Cha 1829.35 f material wi	rge.In ceme 914.68 thin 50 metre
	15.7.4 Demolishing br disposal of unse mortar 15.2.1 Demolishing cer lead as per direct 7.1.1 Random rubble 1:6:12 (1 ceme	ick work manually / erviceable material y P ment concrete manua	41.012 by mechan within 50 me 0.500 ally / by mech Charge.Non 0.225 tone in found : 12 graded : 6 coarse	ical mea tres leac cum manical m ninal con cum dation ar	ns including as per dire 1805.99 heans includ crete 1:3:6 c 2134.72 hd plinth incl aggregate 2	g stacking of ection of Engin 903.00 ing disposal o or richer mix (i 480.31 uding levelling 0 mm nomina	serviceable neer-in-Cha 1829.35 f material wi /c equivalen 2162.25 g up with ce al size) up	e material ar rge.In ceme 914.68 thin 50 metro t design mix) 486.51 ment concre to plinth lev
4	15.7.4 Demolishing br disposal of unse mortar 15.2.1 Demolishing cer lead as per direct 7.1.1 Random rubble 1:6:12 (1 ceme	ick work manually / erviceable material y ment concrete manua ction of Engineer - in- masonry with hard s ent : 6 coarse sand	41.012 by mechan within 50 me 0.500 ally / by mech Charge.Non 0.225 tone in found : 12 graded	ical mea tres leac cum manical m ninal con cum dation ar	ns including as per dire 1805.99 heans includ crete 1:3:6 c 2134.72	g stacking of ection of Engin 903.00 ing disposal o or richer mix (i, 480.31 uding levelling	serviceable neer-in-Cha 1829.35 f material wi /c equivalen 2162.25 g up with ce	e material ar rge.In ceme 914.68 thin 50 metro t design mix) 486.51 ment concre
4	15.7.4 Demolishing br disposal of unse mortar 15.2.1 Demolishing cer lead as per direct 7.1.1 Random rubble 1:6:12 (1 ceme with:Cement m 4.1.5 Providing and I	ick work manually / erviceable material y ment concrete manua ction of Engineer - in- masonry with hard s ent : 6 coarse sand	41.012 by mechan within 50 me 0.500 ally / by mech Charge.Non 0.225 tone in found : 12 graded : 6 coarse 5.539	ical mea tres leac cum manical m ninal con cum dation ar l stone a sand) cum	ns including as per dire 1805.99 heans includ crete 1:3:6 c 2134.72 hd plinth incl aggregate 2 7520.41 ecified grac	g stacking of ection of Engin 903.00 ing disposal o or richer mix (in 480.31 uding levelling 0 mm nomina 41655.55	serviceable neer-in-Cha 1829.35 f material wi /c equivalen 2162.25 g up with ce al size) up 8030.80 the cost of	e material ai rge.In ceme 914.68 thin 50 metri t design mix 486.51 ment concre to plinth lev 44482.60 centering ai

7	50.6.1.3 Solid block masonry using pre cast soli confirming to IS 2185 Part I of 1979 for						
	and above in: CM 1:6 (1 cement :6 coa	rse sand)	etc comp	lete			
		4.739	cum	7784.73	36891.84	8495.10	40258.28
8	10.5.2 Providing and fixing 1 mm thick M.S. sh plates at the junctions and corners, a approved steel primer.Using flats 30x	all necess	ary fitting	gs complet	e, including ap	oplying a p	-
		1.441	sqm	5256.35	7574.40	6114.35	8810.78
9	5.1.3 Providing and laying in position specifie shuttering, finishing and reinforcement stone aggregate 20 mm nominal size)	- //				-	•
		0.814	cum	8964.72	7297.28	11245.05	9153.47
10	5.2.2 Reinforced cement concrete work in wa string courses, fillets, columns, pillars, cost of centering, shuttering, finishing a aggregate 20 mm nominal size)	piers, abu	utments, p	oosts and s	struts etc. up to	t floor five	level excluding
	Kera	ala.657	ater A	11433.93	53247.81 Y	13791.85	64228.65
11	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec			-		-	and binding all
		601.811	kilogram	102.61	61751.83	120.80	72698.77
12	5.9.1 Centering and shuttering including str columns, etc for mass concrete	utting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
		8.000	sqm	350.0	2800.00	347.55	2780.40
13	5.9.3 Centering and shuttering including strubalconies and access platform	utting, etc		oval of for	m for:Suspend	ed floors, r	oofs, landings,
		29.311	sqm	851.52	24958.90	907.25	26592.40
14	5.9.5 Centering and shuttering including strut bressumers and cantilevers	1			for:Lintels, bea	ams, plinth	beams, girders
		17.740	sqm	678.28	12032.69	731.35	12974.15

15	5.9.6 Centering and shuttering including stru Posts and Struts	tting, etc.	and remo	oval of form	n for:Columns,	Pillars, Pie	ers, Abutments,
		9.000	sqm	901.48	8113.32	910.10	8190.90
16	13.7.1 12 mm cement plaster finished with a flo	pating coa	at of neat	cement of I	mix:1:3 (1 cem	ent : 3 fine	sand)
	1	14.081	sqm	418.79	5896.98	486.80	6854.63
17	13.2.1 15 mm cement plaster on the rough side	e of single	e or half b	rick wall of	mix:1:4 (1 cem	ent :4 fine s	sand)
		68.840	sqm	378.31	26042.86	448.15	30850.65
18	13.44.1 Finishing walls with water proofing cerr 3.84 kg/10 sqm)	nent paint	of require	ed shade:N	lew work (Two	or more co	oats applied @
		328.177	sqm	112.09	36785.36	121.20	39775.05
19	13.48.3 Finishing with Deluxe Multi surface pair specifications:Painting Steel work with applied @ 0.90 ltr/10 sqm over an uno manufacture	Deluxe N	Iulti Surfa	ce Paint to	give an even	shade. Tw	o or more coat
		0.641	sqm	154.62	99.11	157.30	100.83
20	11.21.1.1 Kera Providing and fixing 10 mm thick acid a / or alkali resisting mortar bedding, and complete as per the direction of Engin proof cement : 4 coarse sand)Acid and	nd /or alk I joints fill eer-in-Ch	ali resista ed with a arge.In fl	cid and /or ooring on a	pproved make alkali resisting	cement as	s per IS : 4457,
		3.750	sqm	1836.85	6888.19	2098.50	7869.38
21	11.21.2.1 Providing and fixing 10 mm thick acid a / or alkali resisting mortar bedding, and complete as per the direction of Engine cement : 4 coarse sand)Acid and alkali	l joints fill er-in-Cha	ed with a arge.In da	cid and /or	alkali resisting	cement as	s per IS : 4457,
		18.240	sqm	1975.33	36030.02	2235.80	40780.99
22	13.71 Lettering with black Japan pint of appro	1				1	
		1500.00 0	Letterxc m ht	5.8	8700.00	5.85	8775.00

23	50.10.1						
	Steel work in built up G I tubular (rou	und, squa	are or rec	tangular h	ollow tubes etc	c.) trusses	etc., including
	cutting, hoisting, fixing in position and a	pplying a	priming c	oat of appr	oved steel prin	ner, includir	ng welding and
	bolted with special shaped washers etc	c. complet	te				
		152.460	kg	198.21	30219.10	201.90	30781.67
24	13.48.2	1		1		1	
27	Finishing with Deluxe Multi surface pair	nt system	for interio	ors and ext	eriors usina pri	mer as per	manufacturers
	specifications:Painting wood work with	•			• •		
	applied @ 0.90 ltr/10 sqm over an un				•		
	manufacture						
	1	7.968	sqm	160.0	1274.88	152.00	1211.14
		7.500	Jan	100.0	1274.00	102.00	1211.14
25	14.75		-9-				
	Repair to plaster of thickness 12mm t				•	-	0 0
	patch in proper shape, raking out join	1000					
	polymer modified self curing mortar, Engineer-In-Charge.	including	guisposa		n, all complete	e as per tr	le direction of
	Lingineer-in-Charge.	11		Att.			
		50.000	sqm	629.03	31451.50	765.20	38260.00
26	od41173/2020_2021						
	Providing sanitary facilities including 5	500 ltr wa	ter tank,F	VC septic	tank,water clo	set,wash b	asin and other
	plumbing works and electrical works e	etc.comple	ete.				
		No.	ine and				
	Ker	ala W	ater A	uthorit	V		
		1.000	No	46398.41	46398.41	46562.55	46562.55
SI No	Spec Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
29	Appendix B - (1) - Improvements at K	althotty si			of retaining w	' all and com	
		annony se	ump=(b) C				
1	2.31						
	Clearing jungle including uprooting of ra	•		-			u .
	cm measured at a height of 1 m above	ground le	evel and r	emoval of	rubbish up to a	i distance c	of 50 m outside
	the periphery of the area cleared						
		330.000	sqm	15.43	5091.90	15.60	5148.00
2	2.8.1						
	Earth work in excavation by mechanica	al means	(Hydraulio	c excavato	r) /manual mea	ins in found	ation trenches
	or drains (not exceeding 1.5 m in wid	th or 10	sqm on p	olan), inclu	ding dressing	of sides a	nd ramming of
	bottoms, lift up to 1.5 m, including get	ting out tl	he excava	ated soil ar	nd disposal of	surplus exc	cavated soil as
	directed, within a lead of 50 m.All kinc	ls of soil					
		70.620	cum	309.95	21888.67	319.55	22566.62
2	4.1.5	<u> </u>	1	1	<u> </u>	I	<u> </u>
3	4.1.5 Providing and laving in position come	ant concr	oto of on	ocified are	de evoludina t	he cost of	contoring and
	Providing and laying in position ceme shuttering - All work up to plinth level:			-	-		-
	nominal size)	. 1.3.0 (1 (Sement.	o cuarse s	and . o graded	some agg	

					11.881	cum	7690.32	91368.69	9884.65	117439.53
4	7.1.1									
4	Random 1:6:12 (1	1 cement	•	sand : 1	2 graded	l stone a	-	luding levelling 20 mm nomina		
					93.283	cum	7520.41	701526.41	8030.80	749137.12
5	string cou cost of ce	urses, fille entering, sl	ts, columns	s, pillars, p inishing ar	piers, abu	utments, p	oosts and s	attached pilast struts etc. up to ement : 1.5 coa	t floor five l	evel excludi
					6.602	cum	11433.93	75486.81	13791.85	91053.79
6					-			ending, placing le Fe-500D or i	•	and binding
						1000 11 /		(A. 18)		
7	50.2.25.1		torlo cum -	52	LC.	kilogram	102.61	40633.77	120.80	47837.04
7	Filling wit	th contract		arth (exc	luding roo g each de	ck) in trer	iches, plint	40633.77 h, sides of fou nming and wate	ndations et	c. in layers r
7	Filling wit	th contract	n depth, cor	arth (exc	luding roo g each de	ck) in trer	iches, plint	h, sides of fou	ndations et	c. in layers r up to 50 m a
	Filling wit exceeding lift up to 1 50.6.1.3 Solid bloc confirming	th contract g 20 cm in 1.5 m as p ck masonr ng to IS 218	n depth, cor per direction y using pre	e cast solid 1979 for s	luding roo g each de ngineer-ir 66.000 d blocks (super stru	ck) in trer posited la n-charge tcum Factory n icture abo	nches, plint ayer by ran 548.85 made) of siz	h, sides of fou	ndations et ering, lead u 342.40	c. in layers r up to 50 m a 22598.40 : available s
	Filling wit exceeding lift up to 1 50.6.1.3 Solid bloc confirming	th contract g 20 cm in 1.5 m as p ck masonr ng to IS 218	n depth, cor er direction y using pre 85 Part I of	e cast solid 1979 for s	luding roo g each de ngineer-ir 66.000 d blocks (super stru	ck) in trer posited la n-charge tcum Factory n icture abo	nches, plint ayer by ran 548.85 made) of siz	th, sides of fou nming and wate 36224.10 ze 40x20x20cn	ndations et ering, lead u 342.40	c. in layers r up to 50 m a 22598.40 : available s hickness 200
7 8 9	Filling wit exceeding lift up to 1 50.6.1.3 Solid bloc confirming and abov	th contract og 20 cm in 1.5 m as p ck masonr og to IS 218 ve in: CM 1	a depth, cor ber direction y using pre 85 Part I of 1:6 (1 ceme	earth (exc nsolidating n of site E Kera e cast solid 1979 for s ent :6 coar	luding roo g each de ngineer-ir 66.000 d blocks (super stru rse sand) 20.401	ck) in trer posited la n-charge t cum Factory n acture abo etc comp cum	aches, plint ayer by ran 548.85 made) of siz ove floor two lete 7784.73	h, sides of fou nming and wate 36224.10 ze 40x20x20cn o level up to flo	ndations et ering, lead u 342.40 n or nearest por V level th 8495.10	c. in layers r up to 50 m a 22598.40 a available s nickness 200 173308.5
8	Filling wit exceeding lift up to 1 50.6.1.3 Solid bloc confirming and abov	th contract og 20 cm in 1.5 m as p ck masonr og to IS 218 ve in: CM 1	a depth, cor ber direction y using pre 85 Part I of 1:6 (1 ceme	earth (exc nsolidating n of site E Kera e cast solid 1979 for s ent :6 coar	luding roo g each de ngineer-ir 66.000 d blocks (super stru rse sand) 20.401	ck) in trer posited la n-charge t cum Factory n acture abo etc comp cum	aches, plint ayer by ran 548.85 made) of siz ove floor two lete 7784.73	h, sides of fou nming and wate 36224.10 ze 40x20x20cm o level up to flo 158816.28	ndations et ering, lead u 342.40 n or nearest por V level th 8495.10	c. in layers r up to 50 m a 22598.40 a available si hickness 200 173308.54
8	Filling wit exceeding lift up to 1 50.6.1.3 Solid bloc confirming and abov 13.7.2 12 mm ce 50.10.1 Steel wor cutting, h	th contract ig 20 cm in 1.5 m as p ck masonr ig to IS 218 ve in: CM 1 ement plas	up G I tub	arth (exc nsolidating n of site E Kera e cast solid 1979 for s ent :6 coal d with a flo oular (rou ion and ap	luding roo g each de ngineer-ir 66.000 d blocks (super stru rse sand) 20.401 bating coa 206.400	ck) in tren posited la n-charge t cum Factory n icture abo etc comp cum at of neat of sqm	aches, plint ayer by ran 548.85 made) of siz ove floor two lete 7784.73 cement of r 403.29	h, sides of fou nming and wate 36224.10 ze 40x20x20cm o level up to flo 158816.28 mix:1:4 (1 cem	ndations et ering, lead u 342.40 n or nearest por V level th 8495.10 ent : 4 fine 468.30 c.) trusses	c. in layers r up to 50 m a 22598.40 available si hickness 200 173308.5 sand) 96657.12 etc., includi
8	Filling wit exceeding lift up to 1 50.6.1.3 Solid bloc confirming and abov 13.7.2 12 mm ce 50.10.1 Steel wor cutting, h	th contract ig 20 cm in 1.5 m as p ck masonr ig to IS 218 ve in: CM 1 ement plas	a depth, cor per direction y using pre 85 Part I of 1:6 (1 ceme ster finished up G I tub ing in positi	arth (exc nsolidating n of site E Kera e cast solid 1979 for s ent :6 coal d with a flo oular (rou ion and ap	luding roo g each de ngineer-ir 66.000 d blocks (super stru rse sand) 20.401 bating coa 206.400	ck) in tren posited la n-charge t cum Factory n icture abo etc comp cum at of neat of sqm	aches, plint ayer by ran 548.85 made) of siz ove floor two lete 7784.73 cement of r 403.29	h, sides of fou nming and wate 36224.10 ze 40x20x20cm o level up to flo 158816.28 mix:1:4 (1 cem 83239.06	ndations et ering, lead u 342.40 n or nearest por V level th 8495.10 ent : 4 fine 468.30 c.) trusses	c. in layers r up to 50 m a 22598.40 available si hickness 200 173308.5 sand) 96657.12 etc., includi

1							
ľ	2.31 Clearing jungle including uprooting of r cm measured at a height of 1 m above the periphery of the area cleared	-	-				•
		85.000	sqm	15.43	1311.55	15.60	1326.00
2	2.8.1 Earth work in excavation by mechanic or drains (not exceeding 1.5 m in wid bottoms, lift up to 1.5 m, including get directed, within a lead of 50 m.All kind	dth or 10 sting out th	sqm on p	olan), inclu	ding dressing	of sides ar	nd ramming of
	-	23.520	cum	309.95	7290.02	319.55	7515.82
3	4.1.5 Providing and laying in position cem shuttering - All work up to plinth level nominal size)				-		•
	6	3.920	cum	7690.32	30146.05	9884.65	38747.83
4	5.33.1 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding	sing ceme	nt conten	t as per ap	proved design	mix, includ	ing pumping of
	admixtures in recommended proportion workability without impairing strength content considered in this item is @ 33 recoverable separately.All work upto pl	and durab 0 kg/ cum.	IS: 9103 ility as pe	to acceler er direction	rate, retard set of Engineer - i	ting of con in-charge.	crete, improve Note:- Cement
	workability without impairing strength content considered in this item is @ 33	and durab 0 kg/ cum.	IS: 9103 ility as pe	to acceler er direction	rate, retard set of Engineer - i	ting of con in-charge.	crete, improve Note:- Cement
5	workability without impairing strength content considered in this item is @ 33	and durab 0 kg/ cum inth level 6.032 e batched sing ceme the cost o ons as per and durab 0 kg/ cum.	IS: 9103 ility as per Excess of cum and mac nt content f centerin IS: 9103 ility as per Excess of	to acceler or less cerr 9825,93 hine mixed t as per ap g, shuttering to acceler er direction or less cerr	rate, retard set of Engineer - i nent used as pe 59270.01 design mix M-2 proved design ng, finishing and rate, retard set of Engineer - i	ting of con in-charge. Ir design mi 12022.00 25 grade ce mix, includ d reinforcer ting of con in-charge.	crete, improve Note:- Cement ix is payable or 72516.70 ement concrete ing pumping of ment, including crete, improve Note:- Cement
5	workability without impairing strength content considered in this item is @ 33 recoverable separately.All work upto pl 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportion workability without impairing strength content considered in this item is @ 33	and durab 0 kg/ cum inth level 6.032 e batched sing ceme the cost o ons as per and durab 0 kg/ cum.	IS: 9103 ility as per Excess of cum and mac nt content f centerin IS: 9103 ility as per Excess of	to acceler or less cerr 9825,93 hine mixed t as per ap g, shuttering to acceler er direction or less cerr	rate, retard set of Engineer - i nent used as pe 59270.01 design mix M-2 proved design ng, finishing and rate, retard set of Engineer - i	ting of con in-charge. Ir design mi 12022.00 25 grade ce mix, includ d reinforcer ting of con in-charge.	crete, improve Note:- Cement ix is payable or 72516.70 ement concrete ing pumping of ment, including crete, improve Note:- Cement
5	workability without impairing strength content considered in this item is @ 33 recoverable separately.All work upto pl 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportion workability without impairing strength content considered in this item is @ 33	and durab 0 kg/ cum inth level 6.032 e batched sing ceme the cost o ons as per and durab 0 kg/ cum. plinth leve 14.280	IS: 9103 ility as per Excess of cum and mac nt conten f centerin IS: 9103 ility as per Excess of Lupto floor cum els. Note	to acceler ar direction or less cerr 9825.93 hine mixed t as per ap g, shutterin t a acceler or direction or less cerr or V level 11550.4 :- Excess/ ding M-30	rate, retard set of Engineer - i nent used as pe 59270.01 design mix M-2 oproved design ng, finishing and rate, retard set of Engineer - i nent used as pe 164939.71 less cement ov grade concret	ting of con in-charge. r design mi 12022.00 25 grade ce mix, includ d reinforcer ting of con in-charge. r design mi 13768.90 ver the spe	crete, improve Note:- Cement ix is payable or 72516.70 ement concrete ing pumping of ment, including crete, improve Note:- Cement ix is payable or 196619.89 ecified cement

7		forcement for R.C.C work incl upto plinth levelMild steel and	0	• •		ending, placing	in position	and binding all
			2174.00 0	kg	100.91	219378.34	124.45	270554.30
8	-	and shuttering including str etc for mass concrete	rutting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
			21.440	sqm	350.0	7504.00	347.55	7451.47
9	-	and shuttering including strue and access platform		and rem			1	
			26.000	sqm	001.02	22139.52	907.25	23366.30
10	-	and shuttering including strut	tting, etc. a	and remo	val of form	for:Lintels, bea	ams, plinth	beams, girders
			44.481	sqm	678.28	30170.57	731.35	32531.18
11	5.9.6 Centering Posts and	and shuttering including stru Struts	itting, etc.	and rem	oval of forn	n for:Columns,	Pillars, Pie	ers, Abutments,
		Ker	62.400	sqmA	901.48	V 56252.35	910.10	56790.24
12	13.7.1 12 mm ce	ment plaster finished with a fl	oating coa	it of neat	cement of r	mix:1:3 (1 cem	ent : 3 fine	sand)
			147.840	sqm	418.79	61913.91	486.80	71968.51
13	13.44.1 Finishing 3.84 kg/10	walls with water proofing cen 0 sqm)	nent paint	of requir	ed shade:N	lew work (Two	or more co	pats applied @
			156.560	sqm	112.09	17548.81	121.20	18975.07
14	-	and fixing hand rail of approv d similar works, including appl	-	-		-	-	illing, staircase
			452.600	kg	194.18	87885.87	201.15	91040.49
15	taking bad	It water with 5 HP engine and ck of engine and pump, cost o FA (Prepared based on PHED	l pumpset of fuel lub	including	conveyan	ce to the site, e	errection, d	ismantling and
			894.840	Kwh	38.57	34513.98	37.00	33109.08
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
3	1 .	dix B - (2) - Design and Const		pipeline k		ss kattappana r	iver- (b) St	eel bridge
		(,)			0	11	() = -	5

1	10.2						
	Structural steel work riveted, bolted hoisting, fixing in position and applyi		•				cluding cutting,
		4019.05	kg	125.04	502542.01	155.85	626368.94
2	13.52.1 Finishing with Epoxy paint (two or r specifications including appropriate						
		81.429	sqm	233.1	18981.10	241.40	19656.96
SI No	Spec Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
36	Appendix B - (2) - Design and Constru M S pip	uction of pipe	-			er- (c) Sup	ply and laying
1	100.37.8.1 Fabricating MS pipes of size 250mm of MS plate, all fabrication charges surface paint to give an even shade 8mm thick MS plates.	, charges of	painting	the steel v	vork with two c	or more coa	at deluxe multi
	185	42.000	metre	7163.54	300868.68	10098.45	424134.90
2	100.1.1 Excavating trenches of required wide sides, ramming of bottoms, depth up soil as required, in layers not exce ramming, watering, etc. and dispose All kinds of soil (Ref. Item No. 2.10.1 of DSR)	to 1.5 m, in eding 20 cm	cluding ge	etting out th	ne excavated so gyconsolidating	oil, and the Jeach depo	n returning the osited layer by
		7.680	cum	579.85	4453.25	592.25	4548.48
3	100.37.8.3 Cutting 250 mm (ID) MS pipes for n labour and hire charges of tools etc	. complete: F	or pipes	fabricated	with 8mm thic	k MS plate	S.
		36.000	No	272.02	9792.72	534.80	19252.80
4	100.37.8.4 Welding 250mm (ID) MS pipes for m cost of gas and welding rods ,all labo thick MS plates.	-		•		-	•
		50.000	No	1040.81	52040.50	1817.55	90877.50
5	100.37.8.5 Grinding cut and weld edges of 250 charges of tools etc. complete: For	pipes fabrica	ated with	8mm thick	MS plates.	luding all la	
		50.000	No	195.17	9758.50	196.40	9820.00

6	100.14.4 Conveyin	g and laying S&S Centrifugal	ly Cast (S	Spun) / D	uctile Iron I	Pipes conform	ing to IS: 8	329 excluding
	cost of pi 250 mm d	bes and specials : ia Ductile Iron Class K-9 Pipes		• /			U	J
	Data deriv	ed from 18.72.18 in DAR	42.000	metre	170.19	7147.98	158.35	6650.70
7	18.67.1 Providing mm dia	and laying S & S C.I. Standa		ls suitabl	II		11	
			0.960	quintal	14708.65	14120.30	14043.50	13481.76
8	shuttering	and laying in position specified , finishing and reinforcement - regate 20 mm nominal size)	- ///				-	-
	1	619	6.912	cum	8964.72	61964.14	11245.05	77725.79
9		orcement for R.C.C work inclu upto plinth levelThermo - Mecl	1				•	and binding all
			622.800	kilogram	102.61	63905.51	120.80	75234.24
10	excluding	g and fixing C I Single acting the cost of air valve(the tail ngle acting Air Valve Observed	pieces if	required	will be paid	seperately):	uts,rubber i 184.40	nsertions etc . 184.40
11	etc. exclu	ig and fixing C.I. sluice valve ding the cost of valve (the tail Data derived from item no.18.	pieces if	required	-	•		
	1		1.000	Nos	613.74	613.74	673.30	673.30
12	100.98.44 Supply of	8 CI Air Valve with Flanges, Cor	nforming	to IS 1484	15 - 2000, K	inetic Air Valvo	e Type DS1	, Size 40mm
			1.000	No	7646.15	7646.15	2693.75	2693.75
13	100.98.45 Supply of 80mm.	7 CI Double Flanged Sluice Val	ve Confo	rming to I	S 14846 - 2	000, Sluice Va	lve with Ca	p PN 1.6, Size
			1.000	No	6624.05	6624.05	3131.05	3131.05
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
	41	Appendix B - (3) - Wash wa	ter dispo	sal arrang	ements at	TP- (a) - Cost o	of materials	

1	100.98.12 Supply of	0 DI K9 Pipe Conforming to IS 8	3329/2000), 350mm	Dia.			
			408.000	metre	5506.95	2246835.60	5238.35	2137246.80
2	-	and laying Double Flanged) mm dia C.I Double Flange	•	ed / weld	ed) Centrif	ugally (Spun)	Cast Iron,	Class B(IS:
			40.000	metre	10799.16	431966.40	10297.50	411900.00
3	100.98.46 Supply of 350mm.	4 CI Double Flanged Sluice Val	ve Confo	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	p PN 1.6, Size
			2.000	No	77806.55	155613.10	31667.35	63334.70
4		2020_2021 specials,Tees,Bends,Collars,	Tapers et	с.	X	0		
		1 As	18.201	quintal	20384.0	371009.18	19397.05	353045.71
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
	42	2 Appendix B - (3) - Wash w	ater dispo	sal arran	gements at	TP- (b) Workin	ig charges	
1	sides, ran soil as re ramming, All kinds c	g trenches of required width f nming of bottoms, depth up to quired, in layers not exceedi watering, etc. and disposing of soil No. 2.10.1 of DSR)	1.5 m, in ing 20 cn	cluding g n in deptl	etting out th n, including	ne excavated so g consolidating	oil, and the leach depo	n returning the osited layer by
			572.001	cum	579.85	331674.78	592.25	338767.59
2	cost of pi 350 mm d	g and laying S&S Centrifugal pes and specials : lia Ductile Iron Class K-9 Pipe red from 18.72.20 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	329 excluding
	1		400.000	metre	283.7	113480.00	263.05	105220.00
3	excluding 350 mm d	3 g and fixing C.I. sluice valves the cost of valve (the tail piec liameter. Class II" Data derived from item no.18	es if requ	ired will b	e paid sepa	arately) :		
			2.000	Nos	4148.1	8296.20	4357.00	8714.00

4	18.83.8 Labour for cutting C.I. pipe with steel	l saw.350 mr	n diamete	r C.I pipe			
		15.000	Each Cut	781.1	11716.50	807.85	12117.75
5	18.70.6 Providing push - on-joints to Centri joints and including the cost of rubb	••••		•	r Ductile Iron	Pipes inclu	ding testing o
		85.000	joint	456.93	38839.05	452.50	38462.50
6	18.67.2 Providing and laying S & S C.I. Stan mm dia	idard special	s suitable	for mecha	nical jointing as	s per IS 133	382:Above 30
		1.240	quintal	15492.79	19211.06	14786.85	18335.69
7	18.24 Laying in position S & S or flanged (cost of specials).	C.I. special s	uch as te	es, bends,	collars, tapers	and caps e	etc.(excludir
	1 los	18.201	quintal	603.91	10991.77	616.55	11221.83
0	100.05.0	1410	1	Ser.	and a second		
8	100.35.6 Testing 350mm DI/CI pipeline with p 350 mm dia Observed Data derived from item no		to the req	uired test p uthorit	pressure. 	74.60	29840.00
	Testing 350mm DI/CI pipeline with p 350 mm dia	2.1024 of PHE 400.000 cified grade o ent - All work	to the req	uired test p uthorit 70.53	28212.00 concrete, exclu	ding the co	st of centerin
9	Testing 350mm DI/CI pipeline with p 350 mm dia Observed Data derived from item no 5.1.3 Providing and laying in position spec shuttering, finishing and reinforceme	2.1024 of PHE 400.000 cified grade o ent - All work e)	to the req ED DATA metre f reinforce up to plin	uired test p uthorit 70.53 ed cement th level:1:2	28212.00 concrete, exclu :4 (1 cement :	ding the co	st of centerin
	Testing 350mm DI/CI pipeline with p 350 mm dia Observed Data derived from item no 5.1.3 Providing and laying in position spec shuttering, finishing and reinforceme	0.1024 of PHE 400.000 cified grade o ent - All work e) 61.208 ncluding stra	to the req ED DATA metre f reinforce up to plin cum ightening	uired test p uthorit 70.53 ed cement th level:1:2 8964.72 , cutting, be	28212.00 concrete, exclu :4 (1 cement : 548712.58 ending, placing	iding the co 2 coarse s 11245.05 in position	st of centerin and : 4 grade 688287.02
9	Testing 350mm DI/CI pipeline with p 350 mm dia Observed Data derived from item no 5.1.3 Providing and laying in position spec shuttering, finishing and reinforceme stone aggregate 20 mm nominal size 5.22.6 Steel reinforcement for R.C.C work i	0.1024 of PHE 400.000 cified grade o ent - All work e) 61.208 ncluding stra	to the req ED DATA metre f reinforce up to plin cum ightening	uired test p uthorit 70.53 ed cement th level:1:2 8964.72 , cutting, be	28212.00 concrete, exclu :4 (1 cement : 548712.58 ending, placing	iding the co 2 coarse s 11245.05 in position	st of centerin and : 4 grade 688287.02
9	Testing 350mm DI/CI pipeline with p 350 mm dia Observed Data derived from item no 5.1.3 Providing and laying in position spec shuttering, finishing and reinforceme stone aggregate 20 mm nominal size 5.22.6 Steel reinforcement for R.C.C work i	0.1024 of PHE 400.000 cified grade o ent - All work e) 61.208 ncluding stra Mechanically 2448.32 0	to the req ED DATA metre f reinforce up to plin cum ightening Treated b kilogram	uired test p uth or it 70.53 ed cement th level:1:2 8964.72 , cutting, be pars of grad 102.61	28212.00 concrete, exclu :4 (1 cement : 548712.58 ending, placing le Fe-500D or r 251222.12	iding the co 2 coarse st 11245.05 in position more 120.80	st of centerin and : 4 grade 688287.02 and binding a 295757.06

12	Constructi base,150	2020_2021 on of RCC valve chamber of mm side wall,150mm botto plastering inside and out sid	m and co	ver slab	of chambei			
			2.000	No	42969.05	85938.10	49377.30	98754.60
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
47	Appendix E	8 - (4) - supply and laying 80 r at Nariyanpara top	•			•	at Nariyan	para to GLSR
1	100.98.44 Supply of	0 CI Air Valve, Conforming to I	S 14848 -	2000, Sir	ngle Orifice,	Small Orifice 1	Гуре S1, Si	ze 25mm.
			3.000	No	5636.75	16910.25	966.75	2900.25
2	100.98.45 Supply of 80mm.	7 Cl Double Flanged Sluice Va	lve Confo	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	ap PN 1.6, Size
		1 S	1.000	No	6624.05	6624.05	3131.05	3131.05
3		2020_2021 80mm GI pipe(m)	K		No.			
		Ker	1177.00 0	atmetre	u 830.16 t	y 977098.32	789.80	929594.60
4	Specials	2020_2021 for 80mm GI pipe -10 % of ate sump at Nariyanpara to						GI pipes from
			1.000	set	81318.93	81318.93	81318.95	81318.95
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
48	Appendix E	8 - (4) - supply and laying 80 r at Nariyanpara top	-			-	at Nariyan	para to GLSR
1	cost of pip 80 mm dia	g and fixing G.I. pipes compl bes and fittings - External wo a nominal bore red from item no.18.12.8 of D. 0 m	rk.	S.I. fitting	s including	trenching and	refilling etc	. but excluding
			1177.00 0	metre	217.74	256279.98	220.35	259351.95

2	100.31.2.	1						
	"Conveyir	ng and fixing C.I. sluice valves	s (with ca	ap) by pro	viding con	nplete with bolt	s, nuts, rut	ober insertions
	etc. exclu	ding the cost of valve (the tai	l pieces i	f required	l will be pa	aid separately)	:	
	80 mm dia	ameter. Class II"						
	Observed	Data derived from item no.18.	.31.of DA	R				
	1		1.000	Nos	652.74	652.74	712.15	712.15
3	100.32.1							
	Conveyin	g and fixing C I Single acting	Air Valv	e of appr	oved quali	ty with bolts,nu	ıts,rubber i	nsertions etc .
	excluding	the cost of air valve(the tail	pieces if	required	will be pai	d seperately):		
	25 mm Si	ngle acting Air Valve	-	-	-			
	Observed	Data derived from item no.18.	.59.of DA	R				
			3.000	Nos	146.63	439.89	146.60	439.80
4	5.2.2							
•		d cement concrete work in wa	lls (anv th	nickness).	including	attached pilaste	ers, buttres	ses, plinth and
		rses, fillets, columns, pillars, p						
	-	ntering, shuttering, finishing ar						-
		e 20 mm nominal size)			01			5
	000	18		224		8.1		
		152	3.841	cum	11433.93	43917.73	13791.85	52974.50
5	5.22.6	Sec.						
U		forcement for R.C.C work inclu	iding stra	iahtenina	cutting be	endina placina	in position	and binding all
		upto plinth levelThermo - Mecl	-	-	-	• • •		
	complete	Reid	tia vva	atel A	umont	У		
			192.050	kilogram	102.61	19706.25	120.80	23199.64
6	5.9.1					H		
	Centering	and shuttering including stru	utting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
	columns,	etc for mass concrete						
			19.200	sqm	350.0	6720.00	347.55	6672.96
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
	2	19 Appendix B - (5) - Design	and cons	truction o	f intermedi	ate sumn at Na	rivannara	
					- Intonnou		nyanpara	
1	2.31							
		ungle including uprooting of ra	-	-				•
		ured at a height of 1 m above	ground le	evel and r	emoval of	rubbish up to a	distance o	f 50 m outside
	the periph	ery of the area cleared				Γ		
			225.000	sqm	15.43	3471.75	15.60	3510.00
2	2.8.1			•			·I	
2		k in excavation by mechanica	l means /	Hydraulia	Axeavato	r) /manual mea	ns in found	lation trenches
		(not exceeding 1.5 m in wid				,		
		lift up to 1.5 m, including gett			,	• •		•
		within a lead of 50 m.All kinds	-		acu son al			avaicu 3011 a5
			162.000	cum	309.95	50211.90	319.55	51767.10

3	2.7.2						
-	Earth work in excavation by mechanica	al means (Hydraulic	excavator)/ manual mea	ins over are	as (exceedir
	30 cm in depth, 1.5 m in width as well a	as 10 sqm	on plan)	including d	isposal of exca	vated earth	, lead up to 5
	m and lift up to 1.5 m, disposed earth to	be levell	ed and ne	eatly dresse	ed.Hard rock (r	equiring bla	sting)
		96.000	cum	749.05	71908.80	1047.20	100531.20
4	4.1.6	1		L		1 1	
•	Providing and laying in position ceme	ent concr	ete of spe	ecified ara	de excludina t	he cost of	centering ar
	shuttering - All work up to plinth level:			-	-		•
	nominal size)						egate te th
		13.300	cum	7527.06	100109.90	9712.35	129174.26
		15.500	Cum	1321.00	100109.90	9712.00	123174.20
5	7.1.1						
	Random rubble masonry with hard sto			•		•	
	1:6:12 (1 cement : 6 coarse sand : 7			ggregate 2	20 mm nomina	al size) up	to plinth lev
	with:Cement mortar 1:6 (1 cement :	6 coarse	sand)	-		1	
		66.500	cum	7520.41	500107.27	8030.80	534048.20
6	4.1.5	N		KS -	1.1		
0	Providing and laying in position ceme	ont concr	oto of sp	ocified are	de excludina t	he cost of	contoring a
	shuttering - All work up to plinth level		the second se		C		-
	nominal size)	.1.3.0 (1 0	Jement .	s coarse s	and . o graded	i stone ayy	regate 20 fi
	nominal size)			13/100			
		9.729	cum	7690.32	74819.12	9884.65	96167.76
7	5 33 2	1000	the set			11	
7	5 33 2	1000	the set			11	
7	5.33.2 Providing and laying in position machin	e batched	and mac	nine mixed	design mix M-	25 grade ce	ment concre
7	5.33.2 Providing and laying in position machin for reinforced cement concrete work, u	e batched sing ceme	and mac	hine mixed t as per ap	design mix M- proved design	25 grade ce mix, includi	ment concre ng pumping
7	5.33.2 Providing and laying in position machin	e batched sing ceme the cost c	and mac ent conten of centerin	hine mixed t as per ap g, shutterir	design mix M- proved design ng, finishing an	25 grade ce mix, includi d reinforcen	ment concre ng pumping nent, includi
7	5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding	e batched sing ceme the cost c ons as per	and mac ent conten of centerin IS: 9103	hine mixed t as per ap g, shutterir to accele	design mix M- proved design ng, finishing an rate, retard set	25 grade ce mix, includi d reinforcen ting of cond	ment concre ng pumping nent, includi crete, impro
7	5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportic	e batched sing ceme the cost c ons as per and durab	and mac ent conten of centerin IS: 9103 willity as pe	hine mixed t as per ap g, shutterin to accele er direction	design mix M- proved design ng, finishing an rate, retard set of Engineer -	25 grade ce mix, includi d reinforcen ting of cond in-charge. N	ment concre ng pumping nent, includi crete, impro Note:- Ceme
7	5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportic workability without impairing strength	e batched sing ceme the cost c ons as per and durab 0 kg/ cum	and mac ent conten of centerin IS: 9103 wility as pe Excess of	hine mixed t as per ap g, shutterin to accele er direction or less cem	design mix M- proved design ng, finishing an rate, retard set of Engineer -	25 grade ce mix, includi d reinforcen ting of cond in-charge. N	ment concre ng pumping nent, includi crete, impro Note:- Ceme
7	5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportic workability without impairing strength content considered in this item is @ 33	e batched sing ceme the cost c ons as per and durab 0 kg/ cum plinth leve	and mac ent conten of centerin IS: 9103 oility as pe Excess o I upto floo	hine mixed t as per ap g, shutterin to acceler or direction or less cem or V level	design mix M- proved design ng, finishing an rate, retard set of Engineer - tent used as pe	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi	ment concre ng pumping nent, includio crete, impro Note:- Ceme x is payable
	5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportic workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above	e batched sing ceme the cost c ons as per and durab 0 kg/ cum	and mac ent conten of centerin IS: 9103 wility as pe Excess of	hine mixed t as per ap g, shutterin to accele er direction or less cem	design mix M- proved design ng, finishing an rate, retard set of Engineer -	25 grade ce mix, includi d reinforcen ting of cond in-charge. N	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable
7	5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportic workability without impairing strength content considered in this item is @ 33 recoverable separately.All work above 5.34.1	e batched sing ceme the cost c ons as per and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floo	hine mixed t as per ap g, shutterin to acceler er direction or less cem or V level 11550.4	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable 644040.30
	 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportion workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at al 	e batched sing ceme the cost c ons as per and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 illity as pe Excess of upto floo cum	hine mixed t as per ap g, shutterir to acceler or direction or less cerr or V level 11550.4	design mix M- proved design ng, finishing an rate, retard set of Engineer - tent used as pe 540269.96	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi 13768.90	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable 644040.30
	 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportion workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at al content used is payable/ recoverable 	e batched sing ceme the cost c ons as per and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floo cum els. Note	hine mixed t as per ap g, shutterin to acceler er direction or less cem or V level 11550.4 :- Excess/ ding M-30	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi 13768.90	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable 644040.30
	 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportion workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at al 	e batched sing ceme the cost c ons as per and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floo cum els. Note	hine mixed t as per ap g, shutterin to acceler er direction or less cem or V level 11550.4 :- Excess/ ding M-30	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi 13768.90	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable 644040.30
	 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportion workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at al content used is payable/ recoverable 	e batched sing ceme the cost c ons as per and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floo cum els. Note	hine mixed t as per ap g, shutterin to acceler er direction or less cem or V level 11550.4 :- Excess/ ding M-30	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi 13768.90	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable 644040.30
8	5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportio workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at al content used is payable/ recoverable BMC/RMC. (Note:- Cement content	e batched sing ceme the cost c ons as per and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floc cum els. Note ely.Provic	hine mixed t as per ap g, shutterin to accelet or direction or less cem or V level 11550.4 :- Excess/ ding M-30 0 is @ 340	design mix M- proved design ng, finishing an rate, retard set of Engineer - tent used as pe 540269.96 less cement o grade concret 0 kg/cum).	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi 13768.90 ver the spe e instead c	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable 644040.30 cified ceme of M-25 grad
	 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportion workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at all content used is payable/ recoverable BMC/RMC. (Note:- Cement content of 5.22.6 	e batched sing ceme the cost c ons as per and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floo cum els. Note ely.Provio ed in M-30 cum	hine mixed t as per ap g, shutterin to acceler or direction or less cerr or V level 11550.4 :- Excess/ ding M-30 0 is @ 340 85.7	design mix M- proved design ng, finishing an rate, retard set of Engineer - tent used as pe 540269.96 less cement o grade concret 0 kg/cum). 4008.62	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mit 13768.90 ver the spe e instead co 101.65	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable 644040.30 cified ceme of M-25 grad
8	 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportic workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at al content used is payable/ recoverable BMC/RMC. (Note:- Cement content 5.22.6 Steel reinforcement for R.C.C work inclusion 	e batched sing ceme the cost of and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floo cum els. Note ely.Provio ed in M-30 cum	hine mixed t as per ap g, shutterin to acceler er direction or less cem or V level 11550.4 :- Excess/ ding M-30 0 is @ 340 85.7	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret 0 kg/cum). 4008.62	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi 13768.90 ver the spe e instead co 101.65	ment concre ng pumping nent, includi crete, impro Note:- Ceme x is payable 644040.30 cified ceme of M-25 grad
8	 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportion workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at all content used is payable/ recoverable BMC/RMC. (Note:- Cement content of 5.22.6 	e batched sing ceme the cost of and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floo cum els. Note ely.Provio ed in M-30 cum	hine mixed t as per ap g, shutterin to acceler er direction or less cem or V level 11550.4 :- Excess/ ding M-30 0 is @ 340 85.7	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret 0 kg/cum). 4008.62	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi 13768.90 ver the spe e instead co 101.65	ment concre ng pumping nent, includii crete, improv Note:- Ceme x is payable 644040.30 cified ceme of M-25 grad 4754.68
8	 5.33.2 Providing and laying in position machin for reinforced cement concrete work, u concrete to site of laying but excluding admixtures in recommended proportic workability without impairing strength a content considered in this item is @ 33 recoverable separately.All work above 5.34.1 Extra for providing richer mixes at al content used is payable/ recoverable BMC/RMC. (Note:- Cement content 5.22.6 Steel reinforcement for R.C.C work inclusion 	e batched sing ceme the cost of and durab 0 kg/ cum plinth leve 46.775	and mac ent conten of centerin IS: 9103 oility as pe Excess of upto floo cum els. Note ely.Provio ed in M-30 cum	hine mixed t as per ap g, shutterin to acceler er direction or less cem or V level 11550.4 :- Excess/ ding M-30 0 is @ 340 85.7	design mix M- proved design ng, finishing an rate, retard set of Engineer - nent used as pe 540269.96 less cement o grade concret 0 kg/cum). 4008.62	25 grade ce mix, includi d reinforcen ting of cond in-charge. N er design mi 13768.90 ver the spe e instead co 101.65	ment concre ng pumping nent, includii crete, improv Note:- Ceme x is payable 644040.30 cified ceme of M-25 grad 4754.68

10	5.9.1 Centering and shuttering including str columns, etc for mass concrete	utting, etc	c. and re	moval of fo	orm for:Founda	ations, footi	ngs, bases of
		18.841	sqm	350.0	6594.35	347.55	6548.19
11	5.9.2 Centering and shuttering including str attached pilasters, butteresses, plinth	-			orm for:Walls	(any thickn	ess) including
	1	141.000	sqm	748.62	105555.42	766.40	108062.40
12	5.9.3 Centering and shuttering including strubalconies and access platform	utting, etc.	and rem	oval of forr	n for:Suspend	ed floors, ro	oofs, landings,
	Ι	71.450	sqm	851.52	60841.10	907.25	64823.01
13	5.9.5 Centering and shuttering including strut bressumers and cantilevers	tting, etc. a	and remo	val of form	for:Lintels, bea	ams, plinth b	beams, girders
		10.320	sqm	678.28	6999.85	731.35	7547.53
14	5.9.6 Centering and shuttering including stru Posts and Struts	tting, etc.	and remo	oval of form	ı for:Columns,	Pillars, Pie	rs, Abutments,
		3.600	sqm	901.48	3245.33	910.10	3276.36
15	13.7.1 Kera 12 mm cement plaster finished with a flo			uthorit	9	ent : 3 fine :	sand)
	P	125.900	sqm	418.79	52725.66	486.80	61288.12
16	13.8.2 15 mm cement plaster on rough side of mix:1: 4 (1 cement : 4 fine sand)				ed with a floati	ng coat of r	neat cement of
	1	235.622	sqm	453.75	106913.48	530.10	124903.22
17	100.41.33 Supplying and fixing 500mm dia CI mar charges etc complete.	nhole cove	r with fra	me(mediur	n duty) charge	s including	all cost, labour
		2.000	Nos	7835.95	15671.90	8938.60	17877.20
18	13.44.1 Finishing walls with water proofing cerr 3.84 kg/10 sqm)	nent paint	of require	ed shade:N	ew work (Two	or more co	ats applied @
		235.622	sqm	112.09	26410.87	121.20	28557.39
19	10.26.3 Providing and fixing hand rail of approv railing and similar works, including appl	•	-		-	-	iling, staircase

	1		83.950	kg	194.18	16301.41	201.15	16886.54
20	DOWEL concrete)	/2018_2019 BARS - Supplying and provid i including drilling holes of 20 ch) etc complete.	-				•	
			50.000	No	481.8	24090.00	676.55	33827.50
21		/2018_2019 and fixing 100mm dia vent co	owl incl. fit	ting char	ges etc. cor	nplete		
			2.000	No	3484.5	6969.00	3484.50	6969.00
22	Supplying overflow i	/2018_2019 & fixing wall casting pipes 3 ncluding labour charges etc. no : KWA/HO/SP-5160/2014	Complete	and inte	rconnecting	g overflow units		
		15	1.000	No	48175.54	48175.54	48175.55	48175.55
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
50	Appendix	B - (6) - construction of intern	nediate pu	Imp hous	e at Nariya	npara- (a) Cons	struction of	pump house
1	or drains bottoms,	k in excavation by mechanica (not exceeding 1.5 m in wic lift up to 1.5 m, including get within a lead of 50 m.All kinc	Ith or 10 ting out th	sqm on p	olan), inclu	ding dressing	of sides a	nd ramming of
			24.307	cum	309.95	7533.95	319.55	7767.30
2	exceeding	n contractor's own earth (exo g 20 cm in depth, consolidatin .5 m as per direction of site E	g each de	posited la	•			-
	1		19.800	cum	548.85	10867.23	342.40	6779.52
3	1:6:12 (1	ubble masonry with hard stor cement : 6 coarse sand : 1 ent mortar 1:6 (1 cement :	I2 gradec 6 coarse	l stone a sand)	ggregate 2	20 mm nomina	al size) up	to plinth level
			14.198	cum	7520.41	106774.78	8030.80	114021.30
4	-	and laying in position ceme - All work up to plinth level: ize)		-	-	-		-

		1	I			1	
		13.099	cum	7527.06	98596.96	9712.35	127222.07
5	50.6.1.3 Solid block masonry using pre cast soli confirming to IS 2185 Part I of 1979 for and above in: CM 1:6 (1 cement :6 coa	super stru	icture abo	ove floor two			
		,					
	1	33.406	cum	7784.73	260056.69	8495.10	283787.31
6	10.6.1 Supplying and fixing rolling shutters of a through their entire length and jointed a shaft with brackets, side guides and arr complete, including the cost of providir high tensile steel wire of adequate stru- thickness for rolling shutters.80x1.25 r	together a rangemen ng and fix ength cor	at the end ts for insi ing neces forming t	by end loc de and outs sary 27.5 c o IS: 4454	cks, mounted o side locking wit cm long wire sp - part 1 and N	n specially h push and prings man 1.S. top cov	designed pip I pull operation ufactured fro
		9.000	sqm	3617.29	32555.61	4136.05	37224.45
7	10.5.1	9.000	Sqiii	3017.29	32333.01	4130.03	57224.45
	Providing and fixing 1 mm thick M.S. sh plates at the junctions and corners, a approved steel primer.Using M.S. an	all necess	ary fitting	gs complet	e, including ap		-
8	9.6.1	7.001	Juli	3440.03	30323.10	0533.50	43314.00
	and TADS 15:2001 (Part B), including I necessery screws, all complete as per thick plain grade- 1, medium density f board FPT-I, IS : 3087 marked, bonde	directions lat presse	s of Engir ed three la	eer-in-Cha ayer particl	irge and panell e board FPT-	ing with pa I or graded	inels of:12 m wood partic
		1.441	sqm	3239.48	4668.09	3301.95	4758.11
9	5.1.2 Providing and laying in position specifie shuttering, finishing and reinforcemer graded stone aggregate 20 mm nomi	nt - All wo	f reinforce			-	
		4.628	cum	9483.15	43888.02	11828.25	54741.14
10	5.2.2 Reinforced cement concrete work in wa string courses, fillets, columns, pillars, cost of centering, shuttering, finishing a aggregate 20 mm nominal size)	piers, abu	utments, p	oosts and s	truts etc. up to	t floor five	level excludir
		12.898	cum	11433.93	147474.83	13791.85	177887.28
11	5.22.6 Steel reinforcement for R.C.C work incl complete upto plinth levelThermo - Mec	-		-	• • •	•	and binding a

		2103.12 0	kilogram	102.61	215801.14	120.80	254056.90
12	5.9.1 Centering and shuttering including str columns, etc for mass concrete	utting, et	c. and rei	moval of fo	orm for:Founda	ations, foot	ings, bases of
		15.900	sqm	350.0	5565.00	347.55	5526.05
13	5.9.3 Centering and shuttering including strubalconies and access platform	utting, etc	. and rem	oval of for	m for:Suspend	ed floors, r	oofs, landings,
	T	80.391	sqm	851.52	68454.54	907.25	72934.73
14	5.9.5 Centering and shuttering including strut bressumers and cantilevers	ting, etc.	and remo	val of form	for:Lintels, bea	ıms, plinth i	beams, girders
L		22.026	sqm	678.28	14939.80	731.35	16108.72
15	5.9.6 Centering and shuttering including stru Posts and Struts	tting, etc.	and remo	oval of forn	n for:Columns,	Pillars, Pie	rs, Abutments,
	1.also	11.520	sqm	901.48	10385.05	910.10	10484.35
16	13.7.1 12 mm cement plaster finished with a flo	pating coa	at of neat of	cement of r	mix:1:3 (1 cem	ent : 3 fine	sand)
	Kera	187.680	atsimA	u418.79 t	y 78598.51	486.80	91362.62
17	13.8.2 15 mm cement plaster on rough side of mix:1: 4 (1 cement : 4 fine sand)	f single or	half brick	wall finish	ed with a floati	ng coat of	neat cement of
		307.362	sqm	453.75	139465.51	530.10	162932.60
18	13.44.1 Finishing walls with water proofing cen 3.84 kg/10 sqm)	nent paint	of require	ed shade:N	lew work (Two	or more co	oats applied @
		495.043	sqm	112.09	55489.37	121.20	59999.21
19	13.50.1 Applying priming coat:With ready mixe (hard and soft wood)	ed pink o	r Grey pri	mer of ap	proved and ma	anufacture	on wood work
		9.000	sqm	70.13	631.17	74.75	672.75
20	13.48.3 Finishing with Deluxe Multi surface pair specifications:Painting Steel work with applied @ 0.90 ltr/10 sqm over an une manufacture	Deluxe M der coat o	Iulti Surfa	ce Paint to applied @	o give an even 0.80 ltr/10 sqr	shade. Two m of approv	o or more coat ved brand and
		15.601	sqm	154.62	2412.23	157.30	2454.04

	Lettering	with black Japan pint of ap	proved brand	and man	ufacture		1	
			1500.00 0	Letterxc m ht	5.8	8700.00	5.85	8775.00
22	Providing	/2018_2019 sanitary facilities and elec water tank and other requ		•			ern ,wash ba	sin,septic tar
	1		1.000	No	86206.16	86206.16	89801.50	89801.50
23	Dry rubble	/2018_2019 e masonry with hard stone : 6 coarse sand : 12 grad		- U.S.	-	• •		
	1	/	6.783	cum	4957.19	33624.62	4681.30	31753.26
25	proof cerr 11.21.2.1 Providing	and fixing 10 mm thick ac	and alkali re 4.200 erala Wa id and /or alka	sistant til sqm ater A	e 1836.85 uthority nt tiles of ap	7714.77 y	2098.50 and colour	8813.70 using acid ar
	complete	resisting mortar bedding, as per the direction of Eng 4 coarse sand)Acid and a	gineer-in-Cha	rge.In da				•
	1	Ι	24.040	sqm	1975.33	47486.93	2235.80	53748.63
51 No	Spec Appendix I	Description 3 - (6) - construction of inte		Unit np house npound w		TS Amount Dara- (b) Cons	LMR Rate	LMR Amount
1	or drains bottoms,	k in excavation by mecha (not exceeding 1.5 m in lift up to 1.5 m, including within a lead of 50 m.All	width or 10 s getting out th	sqm on p	olan), includ	ding dressing	of sides ar	nd ramming
			41.400	cum	309.95	12831.93	319.55	13229.37
2	4.1.5 Providing	and laying in position c	ement concre	ete of spe	ecified grad	le excluding	the cost of	centering ar

				5.520	cum	7690.32	42450.57	9884.65	54563.27
3	1:6:12 (1	rubble masonry v cement : 6 coa nent mortar 1:6	arse sand : 1	2 graded	l stone a	•	с с		
				33.120	cum	7520.41	249075.98	8030.80	265980.10
4	5.2.2 Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth a string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up tot floor five level excludin cost of centering, shuttering, finishing and reinforcement :1:1.5:3(1 cement : 1.5 coarse sand : 3 graded stor aggregate 20 mm nominal size)								
				3.795	cum	11433.93	43391.76	13791.85	52340.07
5	50.2.25.1 Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers r exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m a lift up to 1.5 m as per direction of site Engineer-in-charge								
6	50.6.1.3		16-	48.600	cum	548.85	26674.11	342.40	16640.64
6	Solid bloc	ck masonry using g to IS 2185 Part e in: CM 1:6 (1 c	t I of 1979 for s	d blocks (super stru rse sand)	Factory r icture abo etc comp	made) of siz	ze 40x20x20cm o level up to flo	n or nearest	available si hickness 200
	Solid bloc confirming and abov	g to IS 2185 Part	t I of 1979 for s	d blocks (super stru	Factory r	made) of siz	ze 40x20x20cm o level up to flo	n or nearest	available si hickness 200
6 7	Solid bloc confirming and abov	g to IS 2185 Part	t I of 1979 for s cement 6 coa	d blocks (super stru rse sand) 19.201	Factory r icture abo etc comp cum	made) of siz	ze 40x20x20cm o level up to flo 149474.60	or nearest por V level ti 8495.10	available si hickness 200 163114.4
_	Solid bloc confirming and abov	g to IS 2185 Part e in: CM 1:6 (1 c	t I of 1979 for s cement 6 coa	d blocks (super stru rse sand) 19.201	Factory r icture abo etc comp cum	made) of siz	ze 40x20x20cm o level up to flo 149474.60	or nearest por V level ti 8495.10	available si hickness 200 163114.42 sand)
_	Solid bloc confirming and abov 13.7.2 12 mm ce 50.10.1 Steel wor cutting, h	g to IS 2185 Part e in: CM 1:6 (1 c	I tubular (rouposition and ap	d blocks (super stru rse sand) 19.201 Dating coa 204.800 and, squa	Factory r acture abo etc comp cum t of neat sqm re or rec priming c	made) of siz ove floor two plete 0111 7784.73 cement of r 403.29	ze 40x20x20cm o level up to flo 149474.60 nix:1:4 (1 cem 82593.79	or nearest por V level th 8495.10 ent : 4 fine 468.30 c.) trusses	hickness 200 163114.42 sand) 95907.84 etc., includi
7	Solid bloc confirming and abov 13.7.2 12 mm ce 50.10.1 Steel wor cutting, h	g to IS 2185 Part e in: CM 1:6 (1 c ement plaster finis rk in built up G I oisting,fixing in p	I tubular (rou position and and d washers etc	d blocks (super stru rse sand) 19.201 Dating coa 204.800 and, squa oplying a . complete	Factory r acture abo etc comp cum t of neat sqm re or rec priming c	made) of siz ove floor two plete 7784.73 cement of r 403.29 ctangular ho coat of appr	2e 40x20x20cm o level up to flo 149474.60 mix:1:4 (1 cem 82593.79 bollow tubes etc oved steel prim	or nearest por V level th 8495.10 ent : 4 fine 468.30 c.) trusses her, includir	available si hickness 200 163114.42 sand) 95907.84 etc., includi ng welding a
7 8 SI No	Solid bloc confirming and abov 13.7.2 12 mm ce 50.10.1 Steel wor cutting, h bolted wit	g to IS 2185 Part e in: CM 1:6 (1 c ement plaster finis rk in built up G I oisting,fixing in p th special shaped	I tubular (rou bosition and and d washers etc	d blocks (super stru rse sand) 19.201 Dating coa 204.800 and, squa oplying a . complete 61.621 Quantity	Factory r incture abo etc comp cum t of neat sqm re or rec priming c e kg Unit	made) of siz ove floor two plete 0111 7784.73 cement of r 403.29 etangular he coat of appr 198.21 DSOR Rate main from s	2e 40x20x20cm o level up to flo 149474.60 mix:1:4 (1 cem 82593.79 bollow tubes etc oved steel prim 12213.90 TS Amount	or nearest por V level th 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir 201.90 LMR Rate	available si hickness 200 163114.4 sand) 95907.84 etc., including a 12441.28 LMR Amount
7 8 Si No	Solid bloc confirming and abov 13.7.2 12 mm ce 50.10.1 Steel wor cutting, h bolted wit Spec Appendix I od190319	g to IS 2185 Part e in: CM 1:6 (1 c ement plaster finis rk in built up G I oisting,fixing in p th special shaped	I tubular (rou bosition and and d washers etc	d blocks (super stru rse sand) 19.201 Dating coa 204.800 and, squa oplying a . complete 61.621 Quantity	Factory r acture abo etc comp cum t of neat sqm re or rec priming c e kg Unit	made) of siz ove floor two plete 0111 7784.73 cement of r 403.29 etangular he coat of appr 198.21 DSOR Rate main from s	2e 40x20x20cm o level up to flo 149474.60 mix:1:4 (1 cem 82593.79 bollow tubes etc oved steel prim 12213.90 TS Amount	or nearest por V level th 8495.10 ent : 4 fine 468.30 c.) trusses ner, includir 201.90 LMR Rate	available si hickness 200 163114.4 sand) 95907.84 etc., including a 12441.28 LMR Amount

2		/2018_2019 or 80mm GI pipe								
	1		1.000	set	21417.9	21417.90	21417.90	21417.90		
3	100.98.42 Supply of	8 Cl Non Return Valve, Conforr	ning to IS	5312 Pai	rt I - 1984,	PN 1.6, Size 80)mm.			
			2.000	No	5943.4	11886.80	4160.65	8321.30		
4	100.98.44 Supply of	0 CI Air Valve, Conforming to IS	5 14848 -	2000, Sin	gle Orifice,	, Small Orifice 1	ype S1, Si	ze 25mm.		
	1		2.000	No	5636.75	11273.50	966.75	1933.50		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
55	Appendix E	3 - (7) - Supplying and laying 8		pumping king char		sump at TP to A	Alady Kuris	umala GLSR-		
1	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 intial lead of 50m and lift upto 1.50m(intial depth 0 m 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 blasting) (Ref. Item No. 1004 A of T C)									
	1		8.000	cum	4093.4	32747.20	2547.30	20378.40		
2	100.12.8 Kerala Water Authority Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 80 mm dia nominal bore Data derived from item no.18.12.8 of DAR Data for 10 m									
			310.000	metre	217.74	67499.40	220.35	68308.50		
3	100.31.2.1 "Conveying and fixing C.I. sluice valves (with cap) by providing complete with bolts, nuts, rubber insertions etc. excluding the cost of valve (the tail pieces if required will be paid separately) : 80 mm diameter. Class II" Observed Data derived from item no.18.31.of DAR									
			2.000	Nos	652.74	1305.48	712.15	1424.30		
4	excluding 25 mm Sir	g and fixing C I Single acting the cost of air valve(the tail ngle acting Air Valve Data derived from item no.18	pieces if	required	•	•	uts,rubber i 146.60	insertions etc . 293.20		
			2.000	1105	140.03	293.20	140.00	293.20		

5	string cou cost of cer	d cement concrete work in wa rses, fillets, columns, pillars, p ntering, shuttering, finishing ar 20 mm nominal size)	piers, abu	itments, p	osts and s	truts etc. up to	t floor five l	evel excluding		
			4.557	cum	11433.93	52104.42	13791.85	62849.46		
6		orcement for R.C.C work inclu upto plinth levelThermo - Mec	-		-	• • •	-	and binding all		
			227.851	kilogram	102.61	23379.79	120.80	27524.40		
7	5.9.1 Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete									
	1	1	40.500	sqm	350.0	14175.00	347.55	14075.78		
8	od1153/2019_2020 DOWEL BARS - Supplying and providing MS dowel bars of size 16 mm dia of 2m long (1m in rock and 1m in concrete) including drilling holes of 20mm dia to a depth of 1m in rock and filling the gap with cement grout(0.10kg/each) etc complete.									
			200.000	No	481.8	96360.00	676.55	135310.00		
9	portion,tes	019_2020 pipes by cutting and jointing sting the line to the required pr to site, as per the direction of	by three ressure, i departme	run weldi ncluding t ental office	he charges ers etc.com	e a water tight hire and conve plete.	eyance of to	ools, plant and		
SI No	Shor	Description	45.000	No Unit	468.28 DSOR Rate	21072.60 TS Amount	768.40 LMR Rate	34578.00		
51110	Spec	62 Appendix B - (8)-								
					er this Estin		<u> </u>			
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
64	Appendix E				. ,		ork of Distri	bution Zone I		
1	Appendix B - (8)- Line charging, stabilization& interconnection - (a) Interconnection work of Distribution Zone I from T P sump using 200 mm D I K9 Pipe 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 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil (Ref. Item No. 2.10.1 of DSR)									

		67.200	cum	579.85	38965.92	592.25	39799.20
2	100.1.5 Excavating trenches of required width f sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Ordinary Rock.	1.5 m, in ing 20 cn	cluding ge n in depth	etting out th n, including	ne excavated s g consolidating	oil, and the geach depo	n returning the
	(Ref. Item No. 2.13.1 of DSR)						
		19.201	cum	842.1	16169.16	1033.20	19838.47
3	100.2.1 Excavation work by mechanical means (not exceeding 1.5 m in width or 10 m2 1.5 m, including getting out the excava lead of 50 m. Medium Rock (Requiring Blasting) New Data derived from Item No.2.9.2 of	on plan), ated soil a	including	dressing o	f sides and ram	nming of bo	ttoms, lift up t
		6.721	cum	749.12	5034.84	1021.25	6863.82
4	100.1.13	LA					
	"Excavating trenches of required width sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 0f DSR)	1.5 m, in ing 20 cn g of surpl	cluding ge n in depth us excav	etting out th n, including ated soil a	ne excavated s g consolidating as directed, wit	oil, and the geach depo	n returning th osited layer b
	sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing	1.5 m, in ing 20 cn g of surpl	cluding gen n in depth us excav ater A	etting out the including ated soil a uthorit	ne excavated s g consolidating as directed, wit	oil, and the geach depc thin a lead	n returning th osited layer b of 50 m :
5	sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Hard Rock(Blasting Prohibited)	1.5 m, in ing 20 cn g of surpl 2.880 neight with intervals.	cluding ge n in depth us excav ater A cum n two rows	etting out th n, including ated soil a uthorit 1624.48	ne excavated s g consolidating as directed, wit 4678.50	oil, and the geach depo thin a lead 2180.20	n returning th osited layer b of 50 m : 6278.98
5	sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m h pole (girth 15cm to 24cm) fixed at 2 m	1.5 m, in ing 20 cn g of surpl 2.880 neight with intervals.	cluding ge n in depth us excav ater A cum n two rows	etting out th n, including ated soil a uthorit 1624.48	ne excavated s g consolidating as directed, wit 4678.50	oil, and the geach depo thin a lead 2180.20	n returning the osited layer b of 50 m : 6278.98
5	sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m h pole (girth 15cm to 24cm) fixed at 2 m	1.5 m, in ing 20 cn g of surpl 2.880 2.880 neight with intervals. tem No.10 100.000 cluding roo g each de	cluding ge n in depth us excav ater A cum two rows 009) metre ck) in tren	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10	n returning the osited layer b of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no
	sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m h pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - Ite 50.2.25.1 Filling with contractor's own earth (exc exceeding 20 cm in depth, consolidation	1.5 m, in ing 20 cn g of surpl 2.880 2.880 neight with intervals. tem No.10 100.000 cluding roo g each de	cluding ge n in depth us excav ater A cum two rows 009) metre ck) in tren	etting out the n, including ated soil a uthorit 1624.48 s of 10 cm 28.82 aches, plint	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10	n returning the osited layer b of 50 m : 6278.98 tical casuarina 2910.00 c. in layers no
	sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 Of DSR) 100.8.1 Fencing one side of trenches, 1.50 m h pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - Ite 50.2.25.1 Filling with contractor's own earth (exc exceeding 20 cm in depth, consolidation	1.5 m, in ing 20 cn g of surpl 2.880 2.880 neight with intervals. tem No.10 100.000 cluding ro g each de ingineer-in 5.000	cluding ge n in depth us excav ater A cum n two rows 009) metre ck) in tren posited la n-charge cum	etting out the including ated soil a uthorite ated soil a uthorite 1624.48 a of 10 cm 28.82 a ches, plint ayer by ran 548.85	he excavated s g consolidating as directed, with 4678.50 plastic caution 2882.00 th, sides of four hming and wate 2744.25	oil, and the geach depo thin a lead 2180.20 tape in ver 29.10 ndations et ering, lead u 342.40	n returning th osited layer b of 50 m : 6278.98 tical casuarin 2910.00 c. in layers no up to 50 m an 1712.00

8	18.70.3 Providing push - on-joints to Centrifug joints and including the cost of rubber	• • •		-	or Ductile Iron	Pipes inclu	ding testing of	
		20.000	joint	270.11	5402.20	274.60	5492.00	
9	18.30.5 Providing flanged joints to double flar diameter pipe	nged C.I./	D.I pipe	s and spec	cials, including	testing of	joints:200 mm	
		3.000	Nos	436.83	1310.49	510.85	1532.55	
10	18.67.1 Providing and laying S & S C.I. Standa mm dia	ird specia	ls suitable	e for mech	anical jointing a	as per IS 1:	3382:Upto 300	
		0.960	quintal	14708.65	14120.30	14043.50	13481.76	
11	18.25.1 Providing and laying S & S C.I stands class):Upto 300 mm dia	ard speci	als such	as tees, b	ends, collars,	tapers, cap	os etc. (Heavy	
	1 Sec	0.930	quintal	6536.99	6079.40	7875.95	7324.63	
12	18.83.5 Labour for cutting C.I. pipe with steel sa	w.200 mr	n diamete	r C.I. pipe				
	Kera	7.000	Each	449.57 uthorit	3146.99 V	464.85	3253.95	
13	100.35.3 Testing 200mm DI/CI pipeline with pota 200 mm dia Observed Data derived from item no.10			uired test p	pressure			
		100.000	metre	41.56	4156.00	43.50	4350.00	
14								
		3.000	cum	8340.93	25022.79	10609.70	31829.10	
15	5.9.1 Centering and shuttering including str columns, etc for mass concrete	utting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of	
		12.000	sqm	350.0	4200.00	347.55	4170.60	

[1							
16	100.31.1.5	5						
	"Conveyin	g and fixing C.I. sluice valve	es (with ca	ap) by pro	viding con	nplete with bolt	s, nuts, rul	ober insertions
	etc. exclu	ding the cost of valve (the ta	il pieces i	f required	d will be pa	id separately)	:	
	200 mm d	iameter. Class I"						
	Data deriv	ed from item no.18.31.4.1 of	DAR					
			1.000	Nos	1625.9	1625.90	1770.80	1770.80
17	100.32.3							
	Conveying	g and fixing C I Single acting	g Air Valv	e of appr	oved quali	ty with bolts,nu	uts,rubber i	insertions etc.
	excluding	the cost of air valve(the tail	pieces if	required	will be pai	d seperately):		
	50 mm Do	uble acting Air Valve						
	Data deriv	ed from item no.18.59.1 of D	AR					
			2.000	Nos	229.21	458.42	259.35	518.70
18	od190175	/2018_2019	ſ	16.26				
		ion of RCC valve chamber of	of size 1m	nx1mx1m	-cost exca	avation work,7	5mm thick	M10 concrete
	base,125r	mm side wall,150mm botton	n and cov	ver slab o	of chamber	with M20 con	crete with	reinforcement
	including	plastering inside and out sid	de of wall	l.etc.com	plete.inclu	ding man hole	cover.	
		l h	1.1.3	2V	ar	41	1	
			1.000	No	42076.66	42076.66	47834.95	47834.95
19	100.98.11	7			金流影			
		DI K9 Pipe Conforming to IS	8329/2000), 200mm	Dia.			
	,	Ker	100.000		2589.08	V 258908.00	2462.40	246240.00
20	100.98.43	5		T				
20		CI Air Valve, Conforming to IS	5 14848 -	2000 Kir	etic Air Val	ve Type DK. Si	ze 50mm	
			2.000	No	7951.65	15903.30	3600.75	7201.50
21	100.98.46							
		CI Double Flanged Sluice Va	lve Confoi	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	p PN 1.6, Size
	200mm.		Ι					
			1.000	No		23723.65	11794.00	11794.00
	1		1.000		23723.65	20720.00	117 0 4.00	11704.00
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
65 <i>i</i>	Appendix B	- (8)- Line charging, stabiliza	tion& inter	rconnectio	on- (b) Inter	connection wo	rk to Zone	1A-Marykulam
	1		using 80	mm G I	oipe			
1	100.12.8							
	Conveying	and fixing G.I. pipes comple	ete with G	I. fittings	including	trenching and	refilling etc	. but excluding
	cost of pip	es and fittings - External wo	rk.					
	80 mm dia	nominal bore						
	Data deriv	ed from item no.18.12.8 of D	AR					
	Data for 1	0 m	1	I	1			
			250.000	metre	217.74	54435.00	220.35	55087.50

2	-	1 ng and fixing C.I. slui ding the cost of valve		•		-	•		
		Data derived from ite		•	-	will be pai	u separatery) .		
				1.000	Nos	613.74	613.74	673.30	673.30
3		0/2018_2019 80mm GI pipe(m)							
			2	250.000	metre	830.16	207540.00	789.80	197450.00
4		019_2020 or 80 mm GI(m) pipe	- 10 % of v	value of	pipe sup	oly.			
				1.000	set	17272.5	17272.50	17272.50	17272.50
5	100.98.45 Supply of 80mm.	7 Cl Double Flanged S	Sluice Valvo	e Confoi	rming to I	S 14846 - 2	2000, Sluice Va	lve with Ca	ap PN 1.6, Size
			1S-1	1.000	No	6624.05	6624.05	3131.05	3131.05
SI No	Spec	Description	OL-L	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
66	Appendix	B - (8)- Line charging us				ion - (c)- In [.] Pumping ı		vork to Lab	bakada Tank
1	sides, ran soil as re ramming, All kinds o	g trenches of require nming of bottoms, de quired, in layers not watering, etc. and o of soil No. 2.10.1 of DSR)	ed width for pth up to 1 t exceedin	r pipes, I.5 m, in ig 20 cm	cables, e cluding g n in deptl	etting out th n, including	excavation for ne excavated so g consolidating	oil, and the Jeach depo	n returning the osited layer by
			1	115.920	cum	579.85	67216.21	592.25	68653.62
2	sides, ran soil as re ramming, Ordinary	g trenches of require nming of bottoms, de quired, in layers not watering, etc. and o Rock. No. 2.13.1 of DSR)	ed width for pth up to 1 t exceedin	r pipes, I.5 m, in ig 20 cm	cables, e cluding g n in deptl	tc including etting out th n, including	excavation for the excavated so the consolidating	⁻ sockets, a oil, and the jeach depo	and dressing of in returning the psited layer by
				33.120	cum	842.1	27890.35	1033.20	34219.58

3	100.2.1Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m2 on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (Requiring Blasting) New Data derived from Item No.2.9.2 of DAR.11.592cum749.128683.801021.2511838.33								
		11.592	cum	749.12	8683.80	1021.25	11838.33		
4	"Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 0f DSR)								
	1	4.968	cum	1624.48	8070.42	2180.20	10831.23		
5									
		180.000	metre	28.82	5187.60	29.10	5238.00		
6	50.2.25.1 Filling with contractor's own earth (exc exceeding 20 cm in depth, consolidatin lift up to 1.5 m as per direction of site E	g each de ngineer-ir	posited la h-charge	ayer by ram	nming and wate	ering, lead u	up to 50 m and		
		5.000	cum	548.85	2744.25	342.40	1712.00		
7	100.14.2 Conveying and laying S&S Centrifugat cost of pipes and specials : 150 mm dia Ductile Iron Class K-9 Pipe Data derived from 18.72.16 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	329 excluding		
		180.000	metre	91.5	16470.00	86.65	15597.00		
8									
		28.000	joint	184.13	5155.64	185.60	5196.80		
9									
		7.000	Nos	402.3	2816.10	499.20	3494.40		

10	18.67.1 Providing mm dia	Providing and laying S & S C.I. Standard specials suitable for mechanical jointing as per IS 13382:Upto 300								
			0.310	quintal	14708.65	4559.68	14043.50	4353.49		
11	-	and laying S&S.C.I Standard inting as per IS: 1538:UPto 30	•		es, bends,	collars tapers	and caps e	tc., suitable for		
			2.120	quintal	9150.76	19399.61	8747.05	18543.75		
12	18.83.4 Labour for	cutting C.I. pipe with steel sa	w.150 mr	n diamete	er C.I. pipe					
			8.000	Each Cut	337.12	2696.96	348.55	2788.40		
13	 100.35.2 Testing 150mm DI/CI pipeline with potable water to the required test pressure 150 mm dia Observed Data derived from item no.1018 of PHED DATA 									
		152	180.000	metre	32.88	5918.40	34.20	6156.00		
14	100.98.11	6				<u></u>				
	Supply of	DI K9 Pipe Conforming to IS 8	3329/2000	D, 150mm	Dia.		1			
		Kera	180.000	metre	1890,44	V 340279.20	1800.35	324063.00		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
67	Appendix	B - (8)- Line charging, stabiliza	ation& inte	erconnect	ion - (d) Int	erconnection w	ork to distri	bution line at		
		Labbal	kada using	g 250 mm	DIk9 pip	e la				
1	sides, ram soil as rea ramming, All kinds c	g trenches of required width f nming of bottoms, depth up to quired, in layers not exceedi watering, etc. and disposing f soil No. 2.10.1 of DSR)	1.5 m, in ing 20 cn	cluding g n in deptl	etting out th n, including	ne excavated so g consolidating	oil, and the leach depo	n returning the sited layer by		
			67.200	cum	579.85	38965.92	592.25	39799.20		
2	100.1.5				1		ı			
		g trenches of required width f			-			•		
		nming of bottoms, depth up to quired, in layers not exceedi			-			•		
		watering, etc. and disposing	-	•			-			
	Ordinary F									
	(Ref. Item	No. 2.13.1 of DSR)								
			19.201	cum	842.1	16169.16	1033.20	19838.47		

3	100.2.1Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m2 on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (Requiring Blasting) New Data derived from Item No.2.9.2 of DAR.6.721cum749.125034.841021.256863.82								
		6.721	cum	749.12	5034.84	1021.25	6863.82		
4	"Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 0f DSR)								
		2.880	cum	1624.48	4678.50	2180.20	6278.98		
5									
		100.000	metre	28.82	2882.00	29.10	2910.00		
6	50.2.25.1 Filling with contractor's own earth (exc exceeding 20 cm in depth, consolidation lift up to 1.5 m as per direction of site E	g each de	posited la						
		5.000	cum	548.85	2744.25	342.40	1712.00		
7	100.14.4 Conveying and laying S&S Centrifugal cost of pipes and specials : 250 mm dia Ductile Iron Class K-9 Pipe Data derived from 18.72.18 in DAR		Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	329 excluding		
		100.000	metre	170.19	17019.00	158.35	15835.00		
8									
		18.000	joint	329.84	5937.12	328.70	5916.60		
9									
		5.000	Nos	595.56	2977.80	727.55	3637.75		

10	18.67.1 Providing and laying S & S C.I. Standa mm dia	rd specia	ls suitable	e for mecha	anical jointing a	as per IS 13	3382:Upto 300
		0.720	quintal	14708.65	10590.23	14043.50	10111.32
11	18.66.1 Providing and laying S&S.C.I Standard flanged jointing as per IS: 1538:UPto 30	•		es, bends,	collars tapers	and caps et	c., suitable for
		1.360	quintal	9150.76	12445.03	8747.05	11895.99
12	18.83.6 Labour for cutting C.I. pipe with steel sa	w.250 mn	n diamete	r C.I. pipe		· · · · · ·	
		5.000	Each Cut	559.11	2795.55	578.20	2891.00
13	100.35.4 Testing 250mm DI/CI pipeline with potal 250 mm dia Observed Data derived from item no.10.		2	uired test p	ressure .		
	152	100.000	metre	52.99	5299.00	55.60	5560.00
14	100.31.1.6 "Conveying and fixing C.I. sluice valve etc. excluding the cost of valve (the tai 250 mm diameter. Class I" Data derived from item no.18.31.5.1 of I	il pieces i		-	•		ber insertions
	РІ	1.000	Nos	2304.82	2304.82	2564.25	2564.25
15	100.32.3 Conveying and fixing C I Single acting excluding the cost of air valve(the tail 50 mm Double acting Air Valve Data derived from item no.18.59.1 of DA	pieces if		•		its,rubber i	nsertions etc .
		1.000	Nos	229.21	229.21	259.35	259.35
16	100.98.118 Supply of DI K9 Pipe Conforming to IS 8	3329/2000), 250mm	Dia.			
		100.000	metre	3616.52	361652.00	3438.05	343805.00
17	100.98.462 Supply of CI Double Flanged Sluice Val 250mm.	ve Confoi	ming to I	S 14846 - 2	000, Sluice Va	lve with Ca	p PN 1.6, Size
		1.000	No	34361.8	34361.80	18345.20	18345.20
18	100.98.444 Supply of CI Air Valve, Conforming to IS	6 14848 -	2000, Sin	gle Orifice,	Large Orifice 1	ype S2, Siz	ze 50mm.

			1.000	No	6110.65	6110.65	1760.95	1760.95		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
68	Appendix	B - (8)- Line charging, stabiliz	ation& int	erconnec	tion - (e) In	terconnection t	o Kochuthc	ovala Gravity		
		ma	ain using	125 mm (G I pipe					
1	100.12.10									
	"Conveyin	g and fixing G.I. pipes compl	ete with C	G.I. fitting	s including	trenching and	refilling etc	. but excluding		
		es and fittings - External wor	k.							
		ia nominal bore		_						
	Observed	Data derived from item no.18	.12 of DA	R						
	1		100.000	metre	274.99	27499.00	277.80	27780.00		
2	4.1.3									
	Providing	and laying in position ceme	ent concre	ete of spe	ecified gra	de excluding t	he cost of	centering and		
	shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm									
	nominal size)									
	1	1	2.049	cum	8340.93	17090.57	10609.70	21739.28		
3	5.9.1									
	Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of									
	columns,	etc for mass concrete	142	336	Ser .	H2.C				
			10.241	sqm	350.0	3584.35	347.55	3559.26		
4	od189995	/2018_2019	1000	Markin Of S	21					
		125mm CI(m) pipe	$1 \circ \mathbf{W}$	aton A	uth owit	* *				
		Kera			uthorit	У				
	1	D	100.000	metre	1434.45	143445.00	1434.45	143445.00		
5	od3663/20	019_2020								
	Specials for	or 125 mm GI(m) pipe - 10 %	of value c	of pipe su	oply.					
			1							
			1.000	set	14345.0	14345.00	14345.00	14345.00		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
69	Appendix	B - (8)- Line charging, stabiliz	ation& int	erconnec	tion - (f) Int	erconnection w	vork to Dist	ribution from		
		Kochuthova	ala G L ta	nk using 2	200 mm D	pipe				
1	100.1.1									
		g trenches of required width f	or pipes,	cables, e	tc including	excavation for	r sockets, a	and dressing of		
	sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the									
	soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by									
	ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :									
	All kinds of soil									
	(Ref. Item	No. 2.10.1 of DSR)								
			67.200	cum	579.85	38965.92	592.25	39799.20		

	i									
2	100.1.5 Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidatingeach deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :" Ordinary Rock. (Ref. Item No. 2.13.1 of DSR)									
		10 201	cum	842.1	16160 16	1033 20	10838 /7			
3	19.201cum842.116169.161033.2019838.47100.2.1Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m2 on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (Requiring Blasting) New Data derived from Item No.2.9.2 of DAR.									
		6.721	cum	749.12	5034.84	1021.25	6863.82			
4	100.1.13 "Excavating trenches of required width sides, ramming of bottoms, depth up to soil as required, in layers not exceed ramming, watering, etc. and disposing Hard Rock(Blasting Prohibited) (Ref. Item No. 2.13.3 0f DSR)	1.5 m, ind ing 20 cm g of surpl	cluding ge n in depth us excav	etting out the	ne excavated so g consolidating as directed, wit	oil, and the leach depo	n returning the osited layer by			
		2.880	cum	1624.48	4678.50	2180.20	6278.98			
5	100.8.1 Fencing one side of trenches, 1.50 m h pole (girth 15cm to 24cm) fixed at 2 m (Data Prepared based on PWD SDB - h	intervals.		s of 10 cm	plastic caution	tape in ver	tical casuarina			
		100.000	metre	28.82	2882.00	29.10	2910.00			
6										
		5.000	cum	548.85	2744.25	342.40	1712.00			
7	5.000cum548.852744.25342.401712.00100.14.3Conveying and laying S&S Centrifugally Cast (Spun) / Ductile Iron Pipes conforming to IS: 8329 excluding cost of pipes and specials : 200 mm dia Ductile Iron Class K-9 Pipes Data derived from 18.72.17 in DAR									
		100.000	metre	127.45	12745.00	119.25	11925.00			

8	18.70.3 Providing push - on-joints to Centrifug joints and including the cost of rubber	• • •	•		or Ductile Iron	Pipes inclu	ding testing of
	-	18.000	joint	270.11	4861.98	274.60	4942.80
9	18.30.5 Providing flanged joints to double flar diameter pipe	nged C.I./	D.I pipe	s and spec	sials, including	testing of	joints:200 mm
		4.000	Nos	436.83	1747.32	510.85	2043.40
10	18.67.1 Providing and laying S & S C.I. Standa mm dia	ard specia	ls suitabl	e for mech	anical jointing a	as per IS 1	3382:Upto 300
		0.540	quintal	14708.65	7942.67	14043.50	7583.49
11	18.66.1 Providing and laying S&S.C.I Standard flanged jointing as per IS: 1538:UPto 30			ees, bends,	collars tapers	and caps e	tc., suitable for
	15	1.960	quintal	9150.76	17935.49	8747.05	17144.22
12	18.83.5 Labour for cutting C.I. pipe with steel sa	w.200 mr	n diamete	r C.I. pipe			
	Ker	5.000	Each	449.57 uthorit	2247.85 V	464.85	2324.25
13	100.35.3 Testing 200mm DI/CI pipeline with pota 200 mm dia Observed Data derived from item no.10			uired test p	pressure		
		100.000	metre	41.56	4156.00	43.50	4350.00
14	4.1.3 Providing and laying in position ceme shuttering - All work up to plinth leve nominal size)		•	•	0		U U
		4.000	cum	8340.93	33363.72	10609.70	42438.80
15	5.9.1 Centering and shuttering including str columns, etc for mass concrete	rutting, et	c. and re	moval of fo	orm for:Founda	ations, foot	ings, bases of
		16.000	sqm	350.0	5600.00	347.55	5560.80

16	od192891/2018_2019 Construction of RCC valve chamber of size 1mx1mx1.4 m cost of excavation work,75mm thick M10 concrete base,150 mm side wall,150mm bottom and cover slab of chamber with M20 concrete with reinforcement including plastering inside and out side of wall.etc.complete.									
			1.000	No	42969.05	42969.05	49377.30	49377.30		
17	etc. exclu 200 mm d	5 ng and fixing C.I. sluice valve ding the cost of valve (the ta iameter. Class I" red from item no.18.31.4.1 of I	il pieces i	.,	•	•		ober insertions		
	1		1.000	Nos	1625.9	1625.90	1770.80	1770.80		
18	 100.32.1 Conveying and fixing C I Single acting Air Valve of approved quality with bolts,nuts,rubber insertions etc . excluding the cost of air valve(the tail pieces if required will be paid seperately): 25 mm Single acting Air Valve Observed Data derived from item no.18.59.of DAR 									
		1ah	1.000	Nos	146.63	146.63	146.60	146.60		
19	100.98.11 Supply of	7 DI K9 Pipe Conforming to IS 8	3329/2000), 200mm	Dia.					
		Kera	100.000	metre	2589.08	V 258908.00	2462.40	246240.00		
20	100.98.46 Supply of 200mm.	1 CI Double Flanged Sluice Val	ve Confo	rming to I	S 14846 - 2	2000, Sluice Va	llve with Ca	p PN 1.6, Size		
			1.000	No	23723.65	23723.65	11794.00	11794.00		
21	100.98.44 Supply of	0 CI Air Valve, Conforming to IS	6 14848 -	2000, Sir	gle Orifice,	Small Orifice 7	Type S1, Siz	ze 25mm.		
			1.000	No	5636.75	5636.75	966.75	966.75		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
70	Appendix	B - (8)- Line charging, stabiliz M	zation& in arket junc		,	terconnection b	etween Idu	kkikavala to		
1	 100.12.10 "Conveying and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. but excluding cost of pipes and fittings - External work. 125 mm dia nominal bore Observed Data derived from item no.18.12 of DAR 									
			950.000	metre	274.99	261240.50	277.80	263910.00		

	1							
2		ng cement concrete manuall r direction of Engineer - in-C				•		
		<u> </u>	90.000	cum	2134.72	192124.80	2162.25	194602.50
3	-	and laying in position cem - All work up to plinth leve ize)		•	-	-		•
			94.320	cum	8340.93	786716.52	10609.70	1000706.90
4		/2018_2019 125mm GI(m) pipe						
	-		950.000	metre	1434.45	1362727.50	1434.45	1362727.50
5	od3664/20 Specials f)19_2020 or 125 mm GI(m) pipe - 10 %	of value c	of pipe su	oply.	2		
		155	1.000	set	136277.5	136277.50	136277.5 0	136277.50
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount
1	cost of pip 50 mm dia	g and fixing G.I. pipes comp bes and fittings - External wo nominal bore Data derived from item no.1 0 m	lete with G ork.			renching and	refilling etc.	but excluding
			300.000	metre	174.65	52395.00	176.90	53070.00
2								
	,		450.000	metre	217.39	97825.50	220.35	99157.50
3	cost of pip 80 mm dia	g and fixing G.I. pipes comp bes and fittings - External wo nominal bore ed from item no.18.12.8 of D 0 m	lete with G ork.	i.l. fittings	including t		refilling etc.	

	100.12.9 Conveying and fixing G.I. pipes comple			P			
	cost of pipes and fittings - External wo 100 mm dia nominal bore Observed Data derived from item no.18	rk.	C	including t	renching and I	refilling etc.	but excluding
		300.000	metre	245.48	73644.00	248.15	74445.00
	100.12.10 "Conveying and fixing G.I. pipes compl cost of pipes and fittings - External wor 125 mm dia nominal bore Observed Data derived from item no.18	rk.	-	s including t	trenching and	refilling etc.	. but excluding
F	r	150.000	metre	274.99	41248.50	277.80	41670.00
:	5.1.3 Providing and laying in position specifie shuttering, finishing and reinforcement stone aggregate 20 mm nominal size)					0	
	155	5.760	cum	8964.72	51636.79	11245.05	64771.49
	od189999/2018_2019 Supply of 50mm GI pipe (M).				De la constanción de la constancición de la constanción de la constanción de la cons		
	Ker	300.000	ter A	^U 509.59	y 152877.00	476.20	142860.00
	od190454/2018_2019 Supply 65 mm GI pipe(m) as per directi	on	Ι	C	E		
		450.000	metre	649.33	292198.50	604.00	271800.00
	od190319/2018_2019 Supply of 80mm GI pipe(m)	·		I		·	
		600.000	metre	830.16	498096.00	789.80	473880.00
	od190456/2018_2019 Supply of 100 mm GI(m) pipe			. I		·	
		300.000	metre	1052.32	315696.00	1052.30	315690.00
	od189995/2018_2019 Supplying 125mm GI(m) pipe	<u> </u>				1	

12	od269/20 ⁷ Specials f GI(m) pip	or GI (m) pipes- KIIFB Ayya	ppancovil	Gap fillii	ng works -	50mm, 65mm,	80mm, 10	00mm, 125mm	
			1.000	set	128868.0	128868.00	128868.0 0	128868.00	
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount	
72 A	Appendix B	- (8)- Line charging, stabilizat	ion& inter in Zone I,			rectification wo	orks in distr	ibution system	
1									
2	excavation cutting the remaining new pipe line and let testing the causing a exceeding surplus so water, pro-	fication work in 63 mm PVC (6 n in all kinds of soil for for ex- e pipe diametrically perpend portion, dismantling and lifting to the site, cutting and lowering evel and jointing the new pipe e pipe line by operating the ny damages to the existing up g 20cm depth including cons- bil from work site, including h oviding caution boards, lighting of Departmental officers included d quality and conforming to re-	posing lea licular to ng the pip with the e valves co utilities an solidating ire for too g,watchin ding the c	ak portior the axis be from tr ipe in to t existing pi oncerned id refilling each lay ls and pl g, ribbon ost of pip andards:	n of the pip of pipe line renches, sr he trenche pe with sol , and rectif y the trencl vers by ran ant, convey fencing, tr e and PVC All Sockete	e including tar e with out caus noothening the s,placing in po vent cement or fying the defect nes using exca nming, waterin vance of tools a affic controlling specials; PVC ed Jointing.	cutting / co sing any da e cut ends, sition align or any ava ets if notice wated eart and materia g etc.comp c Pipes and	oncrete cutting, amages to the conveying the ing the pipe to ilable joint and ed and without h in layers not s for removing als, bailing out lete as per the I specials shall	
			30.000	Leak	1692.18	50765.40	1711.40	51342.00	

3	100.47.1.5 Leak rectification work in 75 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the remaining portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards,lighting,watching, ribbon fencing, traffic controlling etc.complete as per the direction of Departmental officers including the cost of pipe and PVC specials; PVC Pipes and specials shall be of good quality and conforming to relevant standards; PVC Pipes and specials shall be of good quality and conforming to relevant standards; All Socketed Jointing.									
	15.000 Leak 1817.26 27258.90 1837.20 27558.00									
4	4 100.47.1.6 Leak rectification work in 90 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the remaining portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe to the site, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or or any available joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and without causing any damages to the existing utilities and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, lighting, watching, ribbon fencing, traffic controlling etc.complete as per the direction of Departmental officers including the cost of pipe and PVC specials; PVC Pipes and specials shall be of good quality and conforming to relevant standards: All Socketed Jointing.									

5	100.47.2.1 Leak rectification work in 90 mm PVC (C excavation in all kinds of soil for for exp cutting the pipe diametrically perpend balance portion, dismantling and lifting to pipe, cutting and lowering new pipe in to jointing the new pipe with the existing p operating the valves concerned, and re exceeding 20cm depth including cons surplus soil from work site without caus plant, conveyance of tools and material watching, traffic control etc.complete as specials but excluding the cost of CIR Ja	posing lea licular to the pipe f o the trend ipe with s ectifying t solidating sing any o ls, bailing per the d	ak portion the axis rom trend ches,plac solvent ce the defec each lay damages out wate direction c	of the pip of pipe line thes, smoo ing in posit ment or re ts if notice vers by rar to the exis r, providing f Departme	e including tar e with out caus thening the cut ion aligning the pairable joint an d and refilling t nming, waterin sting utilities, in g caution board ental officers, in	cutting / co sing any da ends, conv pipe to line nd testing t the trenche ng, charges ncluding hir ds,lighting, ncluding the	oncrete cutting, amages to the veying the new e and level and the pipe line by es in layers not s for removing re for tools and ribbon fencing, e cost of pipe &
	to relevant standards: Socket & CIR Joi	nting.	-9	I		1	
		7.000	Leak	2294.7	16062.90	2317.85	16224.95
6	100.47.2.2 Leak rectification work in 110 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, earth work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concrete cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages to the balance portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying the new pipe, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and level and jointing the new pipe with the existing pipe with solvent cement or repairable joint and testing the pipe line by operating the valves concerned, and rectifying the defects if noticed and refilling the trenches in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, charges for removing surplus soil from work site without causing any damages to the existing utilities, including hire for tools and plant, conveyance of tools and materials, bailing out water, providing caution boards, lighting, ribbon fencing, watching, traffic control etc.complete as per the direction of Departmental officers, including the cost of pipe & specials but excluding the cost of CIR Joints; PVC Pipes and specials shall be of good quality and conforming to relevant standards: Socket & CIR Jointing.						
		10.000	Leak	2679.96	26799.60	2702.20	27022.00
7	100.47.2.3 Leak rectification work in 140 mm PVC work excavation in all kinds of soil for cutting, cutting the pipe diametrically per the balance portion, dismantling and lift new pipe, cutting and lowering new pipe and jointing the new pipe with the existin by operating the valves concerned, and exceeding 20cm depth including cons surplus soil from work site without caus plant, conveyance of tools and material watching, traffic control etc.complete as specials but excluding the cost of CIR Joint to relevant standards: Socket & CIR Joint	for expose erpendicu- ting the pi e in to the ng pipe w I rectifying solidating sing any of ls, bailing per the d oints; PV0	sing leak ular to the ipe from t trenches, ith solven g the defe each lay damages out wate lirection c	portion of axis of pip renches, s placing in p t cement o octs if notice yers by rar to the exis r, providing f Departme	the pipe includ be line with out moothening the position aligning r repairable joir ed and refilling nming, waterin sting utilities, in g caution board ental officers, in	ling tar cut causing a e cut ends, g the pipe to the trenche ng, charges ncluding hir ds,lighting, ncluding the	ting / concrete ny damages to conveying the o line and level ng the pipe line es in layers not s for removing re for tools and ribbon fencing, e cost of pipe &

		40.000	1 1	0005.00	00050.00	0050 70	00507.00				
		10.000	Leak	3225.99	32259.90	3250.70	32507.00				
8	100.47.2.4 Leak rectification work in 160 mm PVC (Class 2 to 6) pipe line including detecting and locating leak, eart work excavation in all kinds of soil for for exposing leak portion of the pipe including tar cutting / concret cutting, cutting the pipe diametrically perpendicular to the axis of pipe line with out causing any damages t the balance portion, dismantling and lifting the pipe from trenches, smoothening the cut ends, conveying th										
	new pipe, cutting and lowering new pipe in to the trenches, placing in position aligning the pipe to line and lead and jointing the new pipe with the existing pipe with solvent cement or repairable joint and testing the pipe by operating the valves concerned, and rectifying the defects if noticed and refilling the trenches in layers exceeding 20cm depth including consolidating each layers by ramming, watering, charges for remove surplus soil from work site without causing any damages to the existing utilities, including hire for tools a plant, conveyance of tools and materials, bailing out water, providing caution boards, lighting, ribbon fence watching, traffic control etc.complete as per the direction of Departmental officers, including the cost of pipe specials but excluding the cost of CIP. Jointe: PVC Pipes and specials shall be of good quality and conform										
	specials but excluding the cost of CIR Joints; PVC Pipes and specials shall be of good quality and conforming										
	to relevant standards: Socket & CIR Joi	nting.		-							
		56.000	Leak	3690.21	206651.76	3717.85	208199.60				
	Rectification of joint leakages in 150mm DI Pipe (cutting, removing and laying back a length of 1.0m from or side of the joint) including earth work excavation in all kinds of soil for exposing leak portion of the pip including tar cutting / concrete cutting, by cutting and removing a portion of pipe from the damaged join without causing any damages to the remaining portion of the line and specials and replacing the pipe wir mechanical and tyton joint after cleaning the ends, centering the pipe, providing the joints, testing the line the required test pressure, rectifying any defects noticed and refilling the trenches using excavated earth layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges hire and conveyance of tools, plants and materials to the leak site, bailing out water, lighting, watching, ribbot fencing, caution boards, traffic diversion but excluding cost of mechanical joint and as per the direction of departmental officers etc. complete.										
10	100.49.1.3 Rectification of joint leakages in 200mm side of the joint) including earth work including tar cutting / concrete cutting without causing any damages to the re mechanical and tyton joint after cleaning the required test pressure, rectifying and layers not exceeding 20cm depth inclu- surplus soil from the work site, without hire and conveyance of tools, plants and fencing, caution boards, traffic diversion	excavation by cutting and the end any defects uding con causing d materia	on in all I ng and re portion o ds, center s noticed solidating any dama ls to the le	kinds of so emoving a f the line a ing the pip and refillin g each laye ages to any eak site, ba	bil for exposing portion of pipe and specials an e, providing the g the trenches ers by ramming y other utilities, ailing out water,	l leak porti from the d replacing joints, tes using exca , watering including lighting, w	on of the pip damaged joir g the pipe wit sting the line t avated earth i , removing th the charges o atching, ribbo				
	departmental officers etc. complete.	0.005		000000	00000	7007	0.1005.5-				
		3.000	Leak	6986.86	20960.58	7097.35	21292.05				

3.000 Leak 7912.5 23737.50 8027.10 24081.3 12 100.49.1.5 Rectification of joint leakages in 300mm DI Pipe (cutting, removing and laying back a length of 1.0m from a side of the joint) including earth work excavation in all kinds of soil for exposing leak portion of the pincluding tar cutting / concrete cutting, by cutting and removing a portion of pipe from the damaged j without causing any damages to the remaining portion of the line and specials and replacing the pipe werechanical and tyton joint after cleaning the ends, centering the pipe, providing the joints, testing the line the required test pressure, rectifying any defects noticed and refilling the trenches using excavated earth layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing surplus soil from the work site, without causing any damages to any other utilities, including the charge hire and conveyance of tools, plants and materials to the leak site, bailing out water, lighting, watching, rib 13 100.50.1.1 Rectification of leakages of 32 mm, 40mm & 50mm GI Pipes by replacing lengths up to 1.0m including each work excavation in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting work excavation in all kinds of soil for exposing leak portion of the pipe including to make a wat tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trence using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramm watering, removing the surplus soil from the work site, without causing any damages to any other utilitie, including the charge by irremaining portion and specials and conveyance of tools, plant and materials to the leak s	11	1 100.49.1.4 Rectification of joint leakages in 250mm DI Pipe (cutting, removing and laying back a length of 1.0m from one side of the joint) including earth work excavation in all kinds of soil for exposing leak portion of the pipe including tar cutting / concrete cutting, by cutting and removing a portion of pipe from the damaged joint without causing any damages to the remaining portion of the line and specials and replacing the pipe with mechanical and tyton joint after cleaning the ends, centering the pipe, providing the joints, testing the line to the required test pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges of hire and conveyance of tools, plants and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion but excluding cost of mechanical joint and as per the direction of departmental officers etc. complete.									
Rectification of joint leakages in 300mm DI Pipe (cutting, removing and laying back a length of 1.0m from side of the joint) including earth work excavation in all kinds of soil for exposing leak portion of the pincluding tar cutting / concrete cutting, by cutting and removing a portion of pipe from the damaged j without causing any damages to the remaining portion of the line and specials and replacing the pipe without causing any damages to the remaining portion of the line and specials and replacing the pipe without causing any damages to the remaining portion of the line and specials and replacing the pipe without causing any damages to the remaining portion of the line and specials and replacing the pipe without causing any damages to any other utilities, including the charge hire and conveyance of tools, plants and materials to the leak site, bailing out water, lighting, watching, rib fencing, caution boards, traffic diversion but excluding cost of mechanical joint and as per the direction departmental officers etccomplete. 1.000 Leak 8846.13 8972.00 8972.00 13 100.50.1.1 Rectification of leakages of 32 mm, 40mm & 50mm GI Pipes by replacing lengths up to 1.0m including ear work excavation in all kinds of soil for exposing leak portion of the pipe including tar / concrete cutting cutting, removing and stacking the damaged portion from the existing line without causing any damages to remaining portion and specials and conveying and replacing with GI Pipes of suitable size and jointing thraded coupler and union of suitable size including threading, alignment, laying and jointing to make a wat tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trenc using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramm <			3.000	Leak	7912.5	23737.50	8027.10	24081.30			
13 100.50.1.1 Rectification of leakages of 32 mm, 40mm & 50mm GI Pipes by replacing lengths up to 1.0m including ea work excavation in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting cutting, removing and stacking the damaged portion from the existing line without causing any damages to remaining portion and specials and conveying and replacing with GI Pipes of suitable size and jointing thraded coupler and union of suitable size including threading, alignment, laying and jointing to make a wa tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trenc using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramm watering, removing the surplus soil from the work site, without causing any damages to any other utilit including the charges hire and conveyance of tools, plant and materials to the leak site, bailing out wa lighting, watching, ribbon fencing, caution boards, traffic diversion, including the cost of specials but exclude	12	Rectification of joint leakages in 300mm side of the joint) including earth work including tar cutting / concrete cutting without causing any damages to the re- mechanical and tyton joint after cleaning the required test pressure, rectifying and layers not exceeding 20cm depth inclu- surplus soil from the work site, without hire and conveyance of tools, plants and fencing, caution boards, traffic diversite	excavation by cutting amaining ing the encount of t	on in all l ng and re portion o ds, center s noticed solidating any dama ls to the le cluding c	kinds of so emoving a f the line a ing the pip and refillin g each laye ages to any eak site, ba ost of mec	bil for exposing portion of pipe and specials an e, providing the g the trenches ers by ramming y other utilities, ailing out water, hanical joint ar	leak porti from the d replacing joints, tes using exca , watering including lighting, w	on of the pipe damaged joint g the pipe with sting the line to avated earth in , removing the the charges of atching, ribbon he direction of			
40.000 Leak 2279.32 91172.80 2299.65 91986.0	13										

14	14 100.50.1.2 Rectification of leakages of 65 mm GI Pipes by replacing lengths up to 1.0m including earth work excavation in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, removing and stacking the damaged portion from the existing line without causing any damages to the remaining portion and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded coupler and union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges hire and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and as per the direction of departmental officers etc. complete.										
	25.000 Leak 3251.11 81277.75 3268.35 81708.75										
15	15 100.50.1.3 Rectification of leakages of 80 mm GI Pipes by replacing lengths up to 1.0m including earth work excavation in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, removing and stacking the damaged portion from the existing line without causing any damages to the remaining portion and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded coupler and union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges hire and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and as per the direction of departmental officers etc. complete.										
16	Rectification of leakages of 100 mm GI Pipes by replacing lengths up to 1.0m including earth work excavation in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, removing and stacking the damaged portion from the existing line without causing any damages to the remaining portion and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded coupler and union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges hire and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and as per the direction of departmental officers etc. complete.										
		5.000	Leak	3728.38	18641.90	3794.70	18973.50				

17	Rectification of leakages of 125 mm GI Pipes by replacing lengths up to 1.0m including earth work excavation in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, removing and stacking the damaged portion from the existing line without causing any damages to the remaining portion and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded coupler and union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges hire and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ribbon									
	fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and as per									
	the direction of departmental officers etc.	comple	ete.							
		6.000	Leak	4314.97	25889.82	4390.55	26343.30			
18	18 100.50.1.6 Rectification of leakages of 150 mm GI Pipes by replacing lengths up to 1.0m including earth work excavation in all kindss of soil for exposing leak portion of the pipe including tar / concrete cutting, by cutting, removing and stacking the damaged portion from the existing line without causing any damages to the remaining portion and specials and conveying and replacing with GI Pipes of suitable size and jointing by thraded coupler and union of suitable size including threading, alignment, laying and jointing to make a water tight joint, testing the line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges hire and conveyance of tools, plant and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion, including the cost of specials but excluding cost of pipe and as per the direction of departmental officers etc. complete.									
		4.000	Leak	4938.51	19754.04	5024.05	20096.20			
19	Welding MS sheet, pipe and special by ga / gas, all labour and hire charges of tools o	etc com	•	t for three	run welding inc	luding cost	of welding rod			
	17	789.80 0	cm	12.45	22283.01	21.75	38928.15			
20	0cm12.4522283.0121.7538928.1520100.58.1Rectifying the leakages in vertical pipe of public tap connection including earth work excavation in all kinds of soil for exposing the pipeline including concrete / tar cutting, cutting and removing damaged portion of pipe, fixing new 20/25 mm GI pipe and specials in place of damaged portion of pipe and connecting with existing pipe line, testing the line to the required pressure, rectifying any defects noticed and refilling the trenches using excavated earth in layers not exceeding 20cm depth including consolidating each layers by ramming, watering, removing the surplus soil from the work site, without causing any damages to any other utilities, including the charges of hire and conveyance of tools, plants and materials to the leak site, bailing out water, lighting, watching, ribbon fencing, caution boards, traffic diversion, including cost of pipe and specials and as per the direction of departmental officers etc. complete.									

	1								
21		and fixing 15 / 20 mm PV0 labour charges, hire for too	-	-	-		-	-	
		<u> </u>	15.000	Nos	133.53	2002.95	136.10	2041.50	
22	100.98.10	08							
	Engaging	Coolie							
			40.000	Day	917.26	36690.40	929.20	37168.00	
23	13.44.1 Finishing 3.84 kg/10	walls with water proofing cen) sqm)	nent paint	of require	ed shade:N	lew work (Two	or more co	oats applied @	
			1200.00 0	sqm	112.09	134508.00	121.20	145440.00	
24	100.98.48 Supply of		1		3-				
		6.0	15.000	No	75.15	1127.25	75.15	1127.25	
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount	
	••	3 - (8)- Line charging, stabiliza tor at treatment plant using 3	50mm DIK						
1	sides, ram soil as ree ramming, All kinds c	g trenches of required width ming of bottoms, depth up to quired, in layers not exceed watering, etc. and disposin f soil No. 2.10.1 of DSR)	0 1.5 m, in ling 20 cn	cluding ge n in depth	etting out tl n, including	he excavated so g consolidating	oil, and the leach depo	en returning the osited layer by	
			85.801	cum	579.85	49751.71	592.25	50815.64	
2									
			22.881	cum	842.1	19268.09	1033.20	23640.65	

3	100.2.2 Excavation work by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 m2 on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. Medium Rock (blasting prohibited) New Data derived from Item No.2.9.3										
	I	5.721	cum	1106.34	6329.37	1547.00	8850.39				
4	Filling with contractor's own earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m as per direction of site Engineer-in-charge										
		5.000	cum	548.85	2744.25	342.40	1712.00				
5	100.14.6 Conveying and laying S&S Centrifugal cost of pipes and specials : 350 mm dia Ductile Iron Class K-9 Pipe Data derived from 18.72.20 in DAR	×.	Spun) / D	uctile Iron	Pipes conform	ing to IS: 8	329 excluding				
		80.000	metre	283.7	22696.00	263.05	21044.00				
6	18.70.6 Providing push - on-joints to Centrifug joints and including the cost of rubber		Contraction of the second		or Ductile Iron I	Pipes inclu 452.50	ding testing of				
7	18.30.8 Providing flanged joints to double flan diameter pipe	nged C.I./	D.I pipes	s and spec	ials, including	testing of	joints:350 mm				
		2.000	Nos	811.46	1622.92	921.05	1842.10				
8	18.26.2 Providing and laying flanged C.I. Standa flanged jointing as per IS : 1538 :Over 3	•		s tees, ber	ds, collars, tap	ers, caps e	tc., suitable for				
		5.910	quintal	9660.34	57092.61	10512.55	62129.17				
9	18.83.8 Labour for cutting C.I. pipe with steel sa	w.350 mn	n diamete	r C.I pipe							
	- -	8.000	Each Cut	781.1	6248.80	807.85	6462.80				
10	 100.35.6 Testing 350mm DI/CI pipeline with potable water to the required test pressure. 350 mm dia Observed Data derived from item no.1024 of PHED DATA 										
		80.000	metre	70.53	5642.40	74.60	5968.00				

-										
11	4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:2:4 (cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)									
	,	30.000	cum	8340.93	250227.90	10609.70	318291.00			
12	Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth levelThermo - Mechanically Treated bars of grade Fe-500D or more									
		0	kilogram	102.61	123132.00	120.80	144960.00			
13	100.37.10.1 Fabricating MS pipes of size 350mm (II of MS plate, all fabrication charges, ch surface paint to give an even shade o 8mm thick MS plates.	narges of	painting	the steel v	vork with two c	or more coa	at deluxe multi			
		10.000	metre	9145.95	91459.50	12734.15	127341.50			
14	100.37.10.3 Cutting 350 mm (ID) MS pipes for mak labour and hire charges of tools etc. co	a second second				-	-			
		5.000	No	374.28	1871.40	735.90	3679.50			
15	100.37.10.4 Welding 350 mm (ID) MS pipes for r including cost of gas and welding rods , with 8mm thick MS plates.	•					e e			
16	100.37.10.5 Grinding cut and weld edges of 350 m charges of tools etc. complete: For pip	()	•••	0		luding all l	abour and hire			
		5.000	No	268.48	1342.40	270.20	1351.00			
17										
		2.000	metre	5174.62	10349.24	7454.00	14908.00			
18	100.37.6.3 Cutting 150mm (ID)MS pipes for making labour and hire charges of tools etc. c	ng bends omplete:	and othe For pipes	r specials fabricated	by gas cutting d with 8mm thi	including ck MS plat	cost of gas, all es.			
		3.000	No	169.77	509.31	333.75	1001.25			

19	100.37.6.4 Welding 150mm (ID) MS pipes for making bends and other specials by gas/electric welding machine including cost of gas and welding rods ,all labour and hire charges of tools etc. complete: For pipes fabricated with 8mm thick MS plates.										
		3.000	No	649.48	1948.44	1134.25	3402.75				
20	0 100.37.6.5 Grinding cut and weld edges of 150mm (ID) MS pipes during fabrication work including all labour and hire charges of tools etc. complete: For pipes fabricated with 8mm thick MS plates.										
		3.000	No	121.79	365.37	122.55	367.65				
21	100.98.120 Supply of DI K9 Pipe Conforming to IS 8	3329/2000), 350mm	Dia.							
		80.000	metre	5506.95	440556.00	5238.35	419068.00				
	Providing 350mm surge arrestor- Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift up to 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All classes of soil (Rate as per DSR Observed data)										
		15.000	cum	425.54	6383.10	425.55	6383.25				
23	23 od83894/2020_2021 Providing 350mm surge arrestor- Providing 350mm surge arrestor having test pressure 45Kg/cm2 to the clear water pumping main including cost of specials such as 2 Nos. Tail piece, 2 Nos. Mechanical joints, cutting the existing DI pipe, inserting surge arrestor, jointing with flanged joints etc. including cost of surge arrestor.(Rate as per DSR Observed data)										
		1.000	No	600000.0	600000.00	600000.0 0	600000.00				
24	od83895/2020_2021 Providing 350mm surge arrestor- Cem including charges of form work and lab			-	•						
		5.000	cum	8941.83	44709.15	8941.85	44709.25				
25											
		1.000	No	409500.0	409500.00	409500.0 0	409500.00				

26	 od83897/2020_2021 Providing 350mm surge arrestor- Constructing RCC valve chamber of size 2.50m x 1.20m x 1.20m for providing the zero velocity valve including all cost of materials, labour charge, form work etc complete as 									
	directed t	by the departmental officers	. (Rate as	per DSR	Observed	data)				
			1.000	No	63841.4	63841.40	63841.40	63841.40		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
	82 Appendix B- (9) - Road restoration works-(a) PWD road									
1	Removal	0/2018_2019 of unserviceable soil includin ent by suitable soil which sh	-			•		-		
			1246.87 5	cum	47.61	59363.72	47.60	59351.25		
2	Maintenai to the de	/2018_2019 nce of Earthen Shoulder (filli sign level by adding fresh ed rate-specification code-	approved				-			
	1	Ker	4987.50	sqm ater A	41.25 uthorit	205734.38 V	41.25	205734.38		
3	3 od178592/2018_2019 Construction of granular sub-base by providing graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401. Grading-IV - For lower sub base - Mix in Place Method (PWD sanctioned rate-specification code-4.2.A2)									
			225.000	cum	3178.82	715234.50	3178.80	715230.00		
4										
	<u>I</u>		150.000	cum	3344.36	501654.00	3344.35	501652.50		
5	Prime Coa	/2018_2019 at- Providing and applying p clearing of road surface PWD sanctioned rate- spe	rimer coat v and spray	with bitun /ing prin	nen emulsio ner at the	on on prepared	surface of	granular Base		

			1500.00 0	sqm	54.39	81585.00	54.40	81600.00		
6	od178595/2018_2019 Supplying and stacking 12mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate-specification code- 55.2									
	1		40.500	cum	2631.07	106558.34	2631.05	106557.53		
7	 od178596/2018_2019 Supplying and stacking 6mm hard blue granite broken stone in standard heaps for measurement(IRC 3.2.1.a)- PWD sanctioned rate-specification code- 55.3 									
	[13.500	cum	2631.07	35519.45	2631.05	35519.18		
8	 od178597/2018_2019 Supplying and stacking 36mm size hard broken stone in standard heaps for measurement.(PWD sanctioned rate- specification code- 55.4) 									
			150.000	cum	2537.36	380604.00	2537.35	380602.50		
9	9 od178598/2018_2019 Providing, laying and rolling of open graded premix carpet of 20 mm thickness with 0.27 cum of 12 mm departmental aggregates premixed with 12.96 kg of bitumen per 10 sqm using penetration grade bitumen to required line, grade and level on a previously prepared base, after priming the existing surface with 5 kg of bitumen (VG 30) 10 sqm including mixing in a suitable plant, laying and rolling with a three wheel static roller of 80-100 KN capacity, finished to required level and grades,followed by a seal coat of 0.09 cum of 6 mm departmental aggregates premixed with 8.64 kg of bitumen per 10 sqm.By Manual Means- PWD sanctioned rate-specification code-55.1.a									
			1500.00 0	sqm	192.02	288030.00	192.00	288000.00		
10	 od178599/2018_2019 Plain cement concrete 1:3:6 nominal mix in foundation with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days.(PWD sanctioned rate- specification code- 12.4) 									
			196.875	cum	7032.06	1384436.81	7032.05	1384434.84		
11	CPlain/R	/2018_2019 einforced Cement Concret tions PCC Grade M20 (-				-			
	1		98.438	cum	8523.47	839033.34	8523.45	839031.37		
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount		
	83 Appendix B - (9) - Road restoration works- (b) Village/ Panchayat/ PMGSY roads									

1	od178592/2018_2019 Construction of granular sub-base by providing graded material, spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per clause 401. Grading-IV - For lower sub base - Mix in Place Method (PWD sanctioned rate-specification code-4.2.A2)									
		154.688	cum	3178.82	491725.31	3178.80	491722.21			
2	2 od178593/2018_2019 Providing, laying, spreading and compacting graded stone aggregate to Wet Mix Macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density.(PWD sanctioned rate-specification code- 4.12)									
		103.125	cum	3344.36	344887.13	3344.35	344886.09			
3	od178594/2018_2019 Prime Coat- Providing and applying pri including clearing of road surface a means.(PWD sanctioned rate- spec	and spray	ying prim	er at the			•			
		1031.25 0	sqm	54.39	56089.69	54.40	56100.00			
4	od178595/2018_2019 Supplying and stacking 12mm hard b 3.2.1.a)- PWD sanctioned rate-specif	olue grani	te broker		standard heap	os for mea	surement(IRC			
		27.845	cum	2631.07	73262.14	2631.05	73261.59			
5	od178596/2018_2019 Supplying and stacking 6mm hard blue PWD sanctioned rate-specification code	-	oken ston	e in standa	ard heaps for m	easuremer	nt(IRC 3.2.1.a)-			
		9.282	cum	2631.07	24421.59	2631.05	24421.41			
6	od178597/2018_2019 Supplying and stacking 36mm size har rate- specification code- 55.4)	d broken : 92.813								
		92.013	cum	2537.36	235499.99	2537.35	235499.07			

7	od178598/2018_2019 Providing, laying and rolling of open graded premix carpet of 20 mm thickness with 0.27 cum of 12 mm departmental aggregates premixed with 12.96 kg of bitumen per 10 sqm using penetration grade bitumen to required line, grade and level on a previously prepared base, after priming the existing surface with 5 kg of bitumen (VG 30) 10 sqm including mixing in a suitable plant, laying and rolling with a three wheel static roller of 80-100 KN capacity, finished to required level and grades,followed by a seal coat of 0.09 cum of 6 mm departmental aggregates premixed with 8.64 kg of bitumen per 10 sqm.By Manual Means- PWD sanctioned rate-specification code-55.1.a								
			1031.25 0	sqm	192.02	198020.63	192.00	198000.00	
8		and laying in position ceme - All work up to plinth level ize)		Carrier Contractor	0	•		Ű,	
		-	67.500	cum	8340.93	563012.78	10609.70	716154.75	
SI No	Spec	Description	Quantity	Unit	DSOR Rate	TS Amount	LMR Rate	LMR Amount	
	84 A	ppendix B - (8)- Line charging	g, stabiliza	tion& inte	erconnectio	n - (k)- Providir	ng Flow Me	ters	
1	1 od90786/2020_2021 Supplying and fixing 200mm Dia Mechanical Flow meter of Woltman type conforming to ISO 4064 Class B of ARAD/ ZENNER/ REYCHEM RPG/ ITRON make and the flow meter shall be tested and certified by FCRI-Palakkad. Kerala Water Authority 3.000 0 3.000 No 117420.87 39215.55								
2	 od90787/2020_2021 Supplying and fixing 250mm Dia Mechanical Flow meter of Woltman type conforming to ISO 4064 Class B of ARAD/ ZENNER/ REYCHEM RPG/ ITRON make and the flow meter shall be tested and certified by FCRI-Palakkad. 								
			2.000	No	81012.36	162024.72	81087.60	162175.20	
3	od93515/2020_2021Supplying and fixing 300mm Dia Electromagnetic Flow meter conforming to protection level of IP-68 for flow sensor and IP-67 foe transmitter and having an accuracy level of 0.5 % with (LED/LCD) display unit,UPS and battery.This flow meter should have the housing(flow sensor) to be made of SS304/ carbon steel with anti corrosive protection and inside liner to be made of hard rubber or neoprene all conforming to drinking water standards. The flow meter should be coupled Hart for data acquisition and transfer ,with provision for wireless transfer through GSM.THe manufactures Should have the calibration standard.AS per ISO 17.0.25 and the product shall have sufficient warranty provisions.								

	1.000	No	198254.1 7	198254.17	198329.4 0	198329.40	
Estimate PAC							
LMR Estimate PAC							
				Percentag	ge Excess	-1.06	
Rupees Eleven Crore Ninety Nine Lakh Thirty Five Thousand Seven Hundred and Fifty Two Only							



Kerala Water Authority PRICE