

TS Register No: 1190/2019-2020

AS Register No:1242/2019-2020

**KIIFB Project- Tranche-14: Construction of Regulator cum Bridge at U/S of Perincheri Kadavu across Kutiadi River (Gulika puzha) in Kozhikode District.**

Detailed Estimate

(Dsor year: 2016, Cost Index Applied for this estimate is 31.06%)

SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>1 Appendix A- Construction of Regulator Cum Bridge</b>								
1	od117412/2019_2020 RING BUND Putting up ring bund as per approved shape 8m bottom width ,5m top width using empty gunny /polythene bags filled with earth placed in required no of raws at 1.80m apart and filled in between with puddle clay to form the bund for an average height of 3m including driving Z type MS sheet piles of 6m height (400 x185x7.5/8.5 or equalant-confirming to IS 2314-1986) driven one raw with minimum driving length of 4m on sandy bed for ensuring sufficient anchorage and horizontally braced with MS flats and angles wherever necessary including dismantling the bund,driven out sheet pile after completion of the work etc complete as directed by the departmental officers at site. 							
	Long bunds	2	115.000				230.000	
	Total Quantity						230.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						230.000 metre	
	Say 230.000 metre @ Rs 21426.33 / metre						<b>Rs 4928055.90</b>	
2	od105120/2019_2020 RING BUND Type-I-Putting up ring bund as per approved shape 3 m bottom width, 1m top width using empty gunny/polythene bags filled with earth placed in 2 rows at 0.6m apart and filled in between with puddle clay to form bund for an average height 2.50m including labour dismantling the bund after completion of the work etc. complete as per 60.1.1 OD Irrigation							
	Cross bund	1	60.000				60.000	
		1	110.000				110.000	
	Total Quantity						170.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						170.000 metre	
	Say 170.000 metre @ Rs 1872.60 / metre						<b>Rs 318342.00</b>	
3	od105111/2019_2020 Bailing out water Using 5HP Pump- Bailing out water with 5HP engine and pump set including conveyance to site and erection,cost of fuel, lubrication oil and other stores, pay of staff etc complete as per 60.2.2 OD Irrigation							
	5 pumps 200days 8 hours							
		5*200*8					8000.000	

	Total Quantity						8000.000 hour
	Total Deducted Quantity						0.000 hour
	Net Total Quantity						8000.000 hour
	Say 8000.000 hour @ Rs 254.07 / hour						<b>Rs 2032560.00</b>
4	od105115/2019_2020 Bailing out water using pump above 10 HP and up to 20 HP -Bailing out water with engine and pump set above 10 hp and up to 20hp ,including conveyance to site and erection, cost of fuel ,lubrication oil and other stores,pay of staff etc complete.  as per 60.2.4 OD Irrigation						
	10-20 HP pump-3 nos, 120 days,8 hours						
		3*120*8					2880.000
	Total Quantity						2880.000 hour
	Total Deducted Quantity						0.000 hour
	Net Total Quantity						2880.000 hour
	Say 2880.000 hour @ Rs 439.92 / hour						<b>Rs 1266969.60</b>
5	od106393/2019_2020 Bailing out water using pump above 30 HP and up to 40 HP -Bailing out water with engine and pump set above 30 hp and up to 40hp ,including conveyance to site and erection, cost of fuel ,lubrication oil and other stores,pay of staff etc complete. Data as per OD irrigation 60.2.6						
	30-40 HP pump- 3 pumps 50days 8 hours,						
		3*50*8					1200.000
	Total Quantity						1200.000 hour
	Total Deducted Quantity						0.000 hour
	Net Total Quantity						1200.000 hour
	Say 1200.000 hour @ Rs 952.07 / hour						<b>Rs 1142484.00</b>
6	od106544/2019_2020 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas exceeding 30 cm in depth, including disposal of excavated earth, with all lead and lift, disposed earth to be levelled and neatly dressed and as directed by Engineer in charge.All kinds of soil 						
	Abutment A1 toe	1	12.000	3.000	1.000		-36.000
	Abutment A2 toe	1	12.000	4.400	1.000		-52.800
	Lock pier pile cap side	1	13.500	2.250	1.000		-30.375
	Left Abutment A1	1	12.000	7.800	12.732		1191.716
	Do-	1	12.000	3.000	9.880		355.680
	Right Abutment A2 side cutting	1	12.000	9.400	6.066		684.245
	A2- pile cap	1	12.000	9.400	(1.8+0.1)		214.321

	Gabbion U/S(bet A1 and Lock pier)	1	82.000	10.000	1.000		820.000	
	Gabbion D/s (bet a1 and lock pier)	1	82.000	16.000	1.000		1312.000	
	Do- U/s side portion	1	21.250	3.000	1.000		63.750	
	Do-	1	14.450	3.000	1.000		43.350	
	Gabbion D/s side portion	1	16.250	3.000	1.000		48.750	
	Do	1	14.450	3.000	1.000		43.350	
	Solid Apron	1	82.000	2.950	1.000		241.900	
	Do	1	82.000	4.450	1.200		437.881	
	Do	1	82.000	10.000	1.000		820.000	
	Solid Apron Lock portion	1	76.000	18.750	1.000		1425.000	
	Pile cap & levelling coarse main pier	5	11.100	4.500	(.8+.1)		224.775	
	Do- Lock pier	1	13.500	5.500	(.8+.1)		66.825	
	Pile cap & levelling coarse- Lock wall	1	60.000	5.500	(.8+.1)		297.000	
	Do- Lock wall abutment side	1	61.200	4.400	(.8+.1)		242.353	
	Side cutting for lock wall	1	60.000	4.400	6.066		1601.424	
	Toe wall							
	US	1	120.000	0.800	1.300		124.801	
	DS	1	112.200	0.800	1.300		116.689	
	Total Quantity						10375.810 cum	
	Total Deducted Quantity						-119.175 cum	
	Net Total Quantity						10256.635 cum	
	Say 10256.635 cum @ Rs 175.14 / cum						<b>Rs 1796347.05</b>	
7	od105130/2019_2020 Bored cast-in-situ M30 grade R.C.C. Pile excluding Reinforcement complete as per Drawing and Technical Specifications and removal of excavated earth with all lifts and lead upto 1000m.Using Concrete Mixer - Pile diameter-1200 mm- as per 12.25.6 MORTH Specification							
	Pile under Lock Pier	8			7.250		58.000	

	U/s and D/s of Lock pier	40			7.250		290.000		
	Under Abutment A	20			7.500		150.000		
	U/s and D/s of Abutment Lock wall	32			7.250		232.000		
	Under Pier P1	6			6.000		36.000		
	P2	6			7.250		43.500		
	P3	6			7.750		46.500		
	P4	6			7.250		43.500		
	P5	6			6.750		40.500		
	Total Quantity						940.000 metre		
	Total Deducted Quantity						0.000 metre		
	Net Total Quantity						940.000 metre		
	Say 940.000 metre @ Rs 15942.77 / metre						<b>Rs 14986203.80</b>		
8	12.22 Providing Steel Liner 10mm thick for Curbs and 6 mm thick for Steining of Wells including Fabricating and Setting out as per Detailed Drawing.								
	f steel liner (6 mm thick) for 1200mm dia piles								
	Avg 3m depth	130	3.000	3.140	1.200	0.05	73.476		
	Total Quantity						73.476 MT		
	Total Deducted Quantity						0.000 MT		
	Net Total Quantity						73.476 MT		
	Say 73.476 MT @ Rs 92559.33 / MT						<b>Rs 6800889.33</b>		
9	od105132/2019_2020 Integrity testing of pile using low strain / sonic intergrity test/sonic eco test method in accordance with IS 14893 including surface preparation of pile top by removing soil,mud, dust and chipping lean concrete lumps etc and use of computerised equipment and high skill trained personal for conducting the test and submission of results,all complete as per direction of engineering in charge								
		130					130.000		
	Total Quantity						130.000 no		
	Total Deducted Quantity						0.000 no		
	Net Total Quantity						130.000 no		
	Say 130.000 no @ Rs 1157.60 / no						<b>Rs 150488.00</b>		
10	12.1.4.A Earth work in excavation of foundation of structures as per drawing and technical specification, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing								

	of sides and bottom and backfilling with approved material. Hard Rock ( blasting prohibited) - Mechanical Means							
	Abutment A1 foundation	1	12.000	6.600	0.300		23.760	
	Total Quantity						23.760 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						23.760 cum	
	Say 23.760 cum @ Rs 587.42 / cum						<b>Rs 13957.10</b>	
11	12.39 Providing and laying of PCC M15 leveling course 100 mm thick below the pile cap							
	Deduction for piles	130	3.140	0.600	0.600	0.1	-14.695	
	Pier cap	5	11.100	4.500	0.100		24.975	
	Abutment cap A2	1	12.000	9.400	0.100		11.281	
	Lock Pier cap	1	13.500	5.500	0.100		7.426	
	Lock shutter pier cap us of A2	1	30.600	4.400	0.100		13.465	
	Do d/s of A2	1	30.600	4.400	0.100		13.465	
	Lock shutter pier cap u/s of Lock pier	1	30.000	5.500	0.100		16.500	
	Do- d/s of lock pier	1	30.000	5.500	0.100		16.500	
	Total Quantity						103.612 cum	
	Total Deducted Quantity						-14.695 cum	
	Net Total Quantity						88.917 cum	
	Say 88.917 cum @ Rs 7209.09 / cum						<b>Rs 641010.66</b>	
12	od105125/2019_2020 DOWEL BARS - Supplying and Providing MS dowel bars of size 25 mm dia of 2.0m long (1m in rock and 1m in concrete ) including drilling holes of 30mm dia and filling the gap with cement grout( 0.50kg/each) etc complete as per 60.5.3 OD Irrigation							
	Left Abutment	132					132.000	
	Total Quantity						132.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						132.000 each	
	Say 132.000 each @ Rs 674.18 / each						<b>Rs 88991.76</b>	
13	12.38.B.2 Cement Concrete for Reinforced Concrete in Pile Cap complete as per Drawing and Technical Specification							

R C C Grade M-25 - Using Batching Plant, Transit Mixer and Concrete Pump							
	Pier cap	5	11.100	4.500	1.800		449.550
	Abutment cap A2	1	12.000	9.400	1.800		203.041
	Lock Pier cap	1	13.500	5.500	1.800		133.650
	Lock shutter pier cap us of A2	1	30.600	4.400	1.800		242.353
	Do d/s of A2	1	30.600	4.400	1.800		242.353
	Lock shutter pier cap u/s of Lock pier	1	30.000	5.500	1.800		297.000
	Do- d/s of lock pier	1	30.000	5.500	1.800		297.000
						Total Quantity	1864.947 cum
						Total Deducted Quantity	0.000 cum
						Net Total Quantity	1864.947 cum
						Say 1864.947 cum @ Rs 8120.67 / cum	<b>Rs 15144619.15</b>
14	12.8.B.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications PCC Grade M20						
	Solid apron	1	82.000	2.950	1.000		241.900
	Do	1	82.000	4.450	1.200		437.881
		1	82.000	10.000	1.000		820.000
	Lock Portion	1	76.000	18.750	1.000		1425.000
	Toe wall us	1	120.000	0.800	0.300		28.800
	Do	1	120.000	0.250	1.000		30.000
	Toe wall DS	1	112.200	0.800	0.300		26.928
	Do	1	112.200	0.250	1.000		28.050
	Abument A1 toe overlap	1	12.000	3.000	1.000		-36.000
	Lock wall pile cap overlap	1	13.500	2.250	1.000		-30.375
	Abutment A2 overlap	1	12.000	4.400	1.000		-52.800
	Lock Pier pile cap	1	13.500	5.500	1.000		-74.250
	Main pier pile cap	5	4.450	4.500	1.200		-120.150
	Do	5	6.650	4.500	1.000		-149.625

	Lock shutter pier cap aside A2	2	30.600	4.400	1.000		-269.280		
	Lock shutter pier cap aside Lock pier	2	30.000	5.500	1.000		-330.000		
	Total Quantity						3038.559 cum		
	Total Deducted Quantity						-1062.480 cum		
	Net Total Quantity						1976.079 cum		
	Say 1976.079 cum @ Rs 8233.34 / cum							<b>Rs 16269730.27</b>	
15	12.8.E.2.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. RCC Grade M25 - With Batching Plant, Transit Mixer and Concrete Pump								
	Abutment A1 base slab	1	10.800	12.000	2.500		324.001		
	Total Quantity						324.001 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						324.001 cum		
	Say 324.001 cum @ Rs 8074.06 / cum							<b>Rs 2616003.51</b>	
16	od114774/2019_2020 Supply, Fitting and Placing Fusion bonded epoxy coated (confirm to IS 13620-1993) HYSD bar or TMT Reinforcement in Foundation complete as per Drawing and Technical Specifications and as per 12.40 of MORTH specification								
	Piles	1	940.000	(3.14*.6*.6)		0.18	191.264		
	Pile cap	1	1864.947			0.18	326.366		
	Solid Apron	1	1976.079			0.04	79.044		
	Abutment A1 base slab	1	324.001			0.18	56.701		
	Total Quantity						653.375 MT		
	Total Deducted Quantity						0.000 MT		
	Net Total Quantity						653.375 MT		
	Say 653.375 MT @ Rs 91566.73 / MT							<b>Rs 59827412.21</b>	
17	13.5.E.p.2 Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications RCC Grade M20 - With Batching Plant, Transit Mixer and Concrete Pump - Height upto 5m								
	Grooves								
	Grooves	1	0.600	0.600	(5-3)		-0.720		

	Lock Pier	1	9.900	3.000	5.000		148.500		
	Lock shutter pier bank side	2	14.250	2.200	6.200		388.740		
	Do	2	7.350	3.000	6.200		273.420		
	Lock wall water side	2	9.500	$(4+2.91)/2$	5.000		328.225		
	Shutter pier water side	2	14.250	2.200	5.000		313.500		
	Do	2	3.000	1.500	5.000		45.000		
	Do	2	3.140	$(1.5*1.5)/2$	5.000		35.325		
	Do	2	0.800	0.800	5.000		6.401		
	Total Quantity							1539.111 cum	
	Total Deducted Quantity							-0.720 cum	
	Net Total Quantity							1538.391 cum	
	Say 1538.391 cum @ Rs 7943.19 / cum							<b>Rs 12219732.01</b>	
18	13.5.F.P.2 Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications RCC Grade M25 - With Batching Plant, Transit Mixer and Concrete Pump - Height upto 5m								
	Left Abutment								
	Counter Fort	2	6.600	0.600	5.000		39.600		
	Do	4	$(6.6+4.5)/2$	0.600	5.000		66.600		
	Stem	1	12.000	1.200	5.000		72.000		
	Tresle Pier								
	semi Circular portion	5	$2*(3.14*1^2)/2$		5.000		78.500		
	Do- Rectangular Portion	5	2.000	2.000	5.000		100.000		
	Circular Column	5	3.140	$(1.7*1.7)/4$	5.000		56.717		
	Vertical Slab								
	Vertical slab	6	12.000	0.600	3.000		129.600		
	Lock wall Land side								
		2	9.000	1.200	6.200		133.920		
	Abutment A2								
	CF	2	5.700	0.600	6.200		42.408		
	Do	4	$(5.7+2.4)/3$	0.600	6.200		40.176		



	Stem	1	12.000	2.200	6.200		163.680	
	grooves							
	deduction for grooves	11	0.600	0.600	(5-3)		-7.920	
	Total Quantity						923.201 cum	
	Total Deducted Quantity						-7.920 cum	
	Net Total Quantity						915.281 cum	
	Say 915.281 cum @ Rs 8560.45 / cum						<b>Rs 7835217.24</b>	
19	od151400/2019_2020 Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications RCC Grade M25 - With Batching Plant, Transit Mixer and Concrete Pump - Height above 5m. Specification as per 13.5.F.q.2 of MORTH spec							
	left Abutment A1							
	CF	2	6.600	0.600	10.719		84.895	
	Do	4	$(4.5+0)/2$	0.600	10.719		57.883	
	Stem	1	12.000	1.200	10.719		154.354	
	Tresle Pier							
	Semi Circular portion	5	$2*(3.14*1*1)/2$		7.350		115.396	
	Rectangle	5	2.000	2.000	7.350		147.000	
	Circular column	5	3.140	$(1.7*1.7)/4$	7.819		88.693	
	Conical portion	5	$.5*(1/3)$	$3.14*1*1$	1.000		2.617	
	do rectangle portion	5	2.000	2.000	1.769		35.380	
	Abutment A2							
	CF	2	5.700	0.600	4.519		30.910	
	Do	4	$(2.403+0)/2$	0.600	4.519		13.031	
	Stem	1	12.000	1.200	4.519		65.074	
	Grooves							
	Left Abutment	1	0.600	0.600	10.719		-3.858	
	Pier	10	0.600	0.600	9.119		-32.828	
	Haunch Beam							
	Bracing beam	5	5.050	0.400	0.400		4.040	
	Pier Cap	5	7.925	2.000	1.300		103.025	
	Left Abutment	1	2.000	1.200	6.131		14.715	

	Pier	5	2.000	0.700	5.731		40.117		
	Do	5	1.300	0.800	5.731		29.802		
	Abutment A2	1	2.000	1.200	6.131		14.715		
	Dirt wall A1 and A2	2	1.200	0.400	10.000		9.600		
	Do	2	1.711	0.400	10.000		13.689		
	Total Quantity						1024.936 cum		
	Total Deducted Quantity						-36.686 cum		
	Net Total Quantity						988.250 cum		
	Say 988.250 cum @ Rs 8840.60 / cum						<b>Rs 8736722.95</b>		
20	od115632/2019_2020 Plain/Reinforced Cement Concrete in sub-structure complete as per drawing and Technical Specifications PCC Grade M20 - With Batching Plant, Transit Mixer and Concrete Pump Height above 5m -as per 13.5.E.q.2 MORTH Specification								
	Groove								
	Groove lock pier	1	0.600	0.600	14.850		-5.346		
	Lock Pier	1	9.900	3.000	4.200		124.741		
	Do	1	9.900	2.000	4.950		98.010		
	Do	1	2.000	2.000	5.970		23.880		
	Lockwall water side	2	9.500	(2.91+2)/2	4.200		195.910		
	Shutter pier water side	2	14.250	2.200	4.200		263.341		
	Do	2	3.000	1.500	4.200		37.801		
	Do	2	3.000	1.000	4.200		25.201		
	Do	2	3.140	(1.5*1.5)/2	4.200		29.673		
	Do	2	0.800	0.800	4.200		5.377		
	Total Quantity						803.934 cum		
	Total Deducted Quantity						-5.346 cum		
	Net Total Quantity						798.588 cum		
	Say 798.588 cum @ Rs 8203.15 / cum						<b>Rs 6550937.15</b>		
21	od105133/2019_2020 Supply, Fitting and Placing Fusion bonded epoxy coated(confirm to IS 13620-1993) HYSD bar or TMT Reinforcement in substructure complete as per Drawing and Technical Specifications and as per 13.6 of MORTH specifications 								
	PCC M20	1	(1538.391 +798.588)			0.04	93.480		

	RCC M25	1	(915.281+ 988.25)			0.18	333.118	
	Total Quantity						426.598 MT	
	Total Deducted Quantity						0.000 MT	
	Net Total Quantity						426.598 MT	
	Say 426.598 MT @ Rs 91842.80 / MT						<b>Rs 39179954.79</b>	
22	14.1A.2.2.C "Furnishing and Placing Reinforced Cement Concrete Grade M20 Using Batching Plant, Transit Mixer and Concrete Pump as per drawing and Technical Specification. For T-beam & slab - Height above 10m							
	7 spans	7	53.000				371.000	
	Total Quantity						371.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						371.000 cum	
	Say 371.000 cum @ Rs 9665.04 / cum						<b>Rs 3585729.84</b>	
23	od105138/2019_2020 Construction of RCC railing of M20 Grade in-situ with 20 mm nominal size aggregate, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, center to center spacing between vertical post not to exceed 2000 mm, leaving adequate space between vertical post for expansion, complete as per approved drawings and technical specifications, as per 14.7 MORTH Specification							
	Hand Rails	2	98.400				196.800	
	Total Quantity						196.800 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						196.800 metre	
	Say 196.800 metre @ Rs 2053.72 / metre						<b>Rs 404172.10</b>	
24	od105140/2019_2020 Supply, Fitting and Placing Fusion bonded epoxy coated (confirm to IS 13620-1993) HYSD bar or TMT Reinforcement in Super structure complete as per Drawing and Technical Specifications and as per 14.2 of MORTH specification							
	Deck	1	371.000			0.18	66.780	
	Total Quantity						66.780 MT	
	Total Deducted Quantity						0.000 MT	
	Net Total Quantity						66.780 MT	
	Say 66.780 MT @ Rs 93877.07 / MT						<b>Rs 6269110.73</b>	
25	14.4 Providing and laying Cement concrete wearing coat M-30 grade including reinforcement complete as per drawing and Technical Specifications.							

		1	97.600	7.500	0.050		36.600		
		1	97.600	7.500	0.050*2/3		24.400		
	Total Quantity						61.000 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						61.000 cum		
	Say 61.000 cum @ Rs 14448.87 / cum						<b>Rs 881381.07</b>		
26	13.10 Providing and laying of Filter media with granular materials/stone crushed aggregates satisfying the requirements laid down in clause 2504.2.2. of MoRTH specifications to a thickness of not less than 600 mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification.								
	Behind Abutment A1	1	12.000	0.600	15.719		113.177		
	Behind A2	1	12.000	0.600	10.719		77.177		
	Total Quantity						190.354 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						190.354 cum		
	Say 190.354 cum @ Rs 3117.99 / cum						<b>Rs 593521.87</b>		
27	od143136/2019_2020 PVC WEEP HOLES- Providing weep holes using 75mm dia. PVC pipes working pressure 4kg /sq.cm including cost of materials, conveyance, labour charges etc. complete.								
	Left Abutment	1	115.000				115.000		
	Right Abutment	1	115.000				115.000		
	Total Quantity						230.000 metre		
	Total Deducted Quantity						0.000 metre		
	Net Total Quantity						230.000 metre		
	Say 230.000 metre @ Rs 127.44 / metre						<b>Rs 29311.20</b>		
28	od105144/2019_2020 Providing & making Gabion structure with Mechanically Woven Double Twisted Hexagonal Shaped Wire mesh Gabion Boxes as per IS 16014:2012, MORTH Clause 2500, of required size, Mesh Type 10x12(D=100 mm with tolerance of ± 2%) Zinic+PVC coated, Mesh wire diameter 2.7/3.7mm, mechanically edged/selvedged with partitions at every 1m interval and shall have minimum 10 numbers of openings per meter of mesh perpendicular to twist, tying with lacing wire of diameter 2.2/3.2mm(ID/OD), supplied @3% by weight of Gabion boxes, filled with boulders with least dimension of 200 mm, as per drawing, all complete as per directions of Engineer-in-charge.								
	Gabbion U/s	1	82.000	10.000	1.000		820.000		
	Dis	1	82.000	16.000	1.000		1312.000		

	U/s side	1	21.750	3.000	1.000		65.250	
	Do	1	16.250	3.000	1.000		48.750	
	D/s side	1	15.100	3.000	1.000		45.300	
	Do	1	15.100	3.000	1.000		45.300	
	Total Quantity						2336.600 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						2336.600 cum	
	Say 2336.600 cum @ Rs 4010.73 / cum						<b>Rs 9371471.72</b>	
29	od105145/2019_2020 Providing and laying of a strip seal expansion joint catering to maximum horizontal movement upto 70 mm, complete as per approved drawings and standard specifications to be installed by the manufacturer/supplier or their authorised representative ensuring compliance to the manufacturer's instructions for installation as per 14.22 MORTH Specification							
		8	8.450				67.600	
	Total Quantity						67.600 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						67.600 metre	
	Say 67.600 metre @ Rs 9970.65 / metre						<b>Rs 674015.94</b>	
30	13.14 Supplying, fitting and fixing in position true to line and level elastomeric bearing conforming to IRC: 83 (Part-II) section IX and clause 2005 of MoRTH specifications complete including all accessories as per drawing and Technical Specifications.							
	Pier	36	63.000	22.000	6.100		304365.60 1	
	Abutments	6	63.000	22.000	6.100		50727.601	
	Total Quantity						355093.202 Cum cm	
	Total Deducted Quantity						0.000 Cum cm	
	Net Total Quantity						355093.202 Cum cm	
	Say 355093.202 Cum cm @ Rs 0.88 / Cum cm						<b>Rs 312482.02</b>	
31	od105148/2019_2020 Providing Z steel sheet pile of size 400x185x7.5/8.5 driving down vertically in lines and levels interlocking with adjacent piles with suitable pile driving unit and all accessories including all labour hire charges etc. complete and as per the directions of departmental officers at site. as per 60.65 OD Irrigation							
		2	90.000		9.000		1620.000	
		1	76.000		9.000		684.000	
		2	29.000		9.000		522.000	

		Total Quantity					2826.000 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					2826.000 sqm	
		Say 2826.000 sqm @ Rs 15772.41 / sqm					<b>Rs 44572830.66</b>	
32	od105150/2019_2020 Cathodic protection to sheet piles including all cost, conveyance etc. complete 							
		2826				0.12	339.120	
		Total Quantity					339.120 MT	
		Total Deducted Quantity					0.000 MT	
		Net Total Quantity					339.120 MT	
		Say 339.120 MT @ Rs 495.00 / MT					<b>Rs 167864.40</b>	
33	14.9 Drainage Spouts complete as per drawing and Technical specification							
		6 nos per span						
		7	6.000				42.000	
		Total Quantity					42.000 no	
		Total Deducted Quantity					0.000 no	
		Net Total Quantity					42.000 no	
		Say 42.000 no @ Rs 4513.00 / no					<b>Rs 189546.00</b>	
34	14.16 Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint @ of 1 litre for 2 sqm.							
	Semi Circular Portion	5*2	3.14*2.0		14.119		886.674	
		5*2	2.000		19.850		397.000	
		5*2*2	0.600		19.850		238.200	
	Lock Pier	1	25.800		9.200		237.360	
		1	23.800		4.980		118.525	
		1	8.000		5.670		45.360	
		1	2.000	2.000			4.000	
		1	9.900	1.000			9.900	
	Lock walls -u/s & d/s of lock pier	2	11.425		9.200		210.220	
		2	11.425		9.200		210.220	
		2*2	1.000	(4+2)/2	9.200		110.400	

	u/s & d/s of left side lock wall	2	44.410		9.200		817.144	
		2	21.000		6.200		260.401	
		2*2	3.000		6.200		74.400	
		2	1.500		6.200		18.600	
		2*2	0.800		6.200		19.841	
		2	14.250		6.200		176.701	
		2	5.250		6.200		65.101	
		2	9.325		6.200		115.630	
		2	1.200		6.200		14.880	
		2	11.425		6.200		141.671	
		2	1.200		6.200		14.880	
	Peir Cap(Top)	5	17.800		1.300		115.700	
		5	7.900		2.000		79.000	
	Brazing	5	5.050		1.600		40.400	
	Circular Column	6	3.140	1.700	12.819		410.567	
Deck Slab bottom, Sides Cross Beam								
	Cross Beam	1*7*3*2	2.200		1.060		97.945	
	Slab Bottom	1	97.600		8.450		824.720	
	Beam Sides	3*2	97.600		1.360		796.416	
Abutment Rt,Lt and Extended portion of Abutment								
	Lt	1	12.000		16.119		193.428	
		1	6.400		4.020		25.728	
	Rt	1	12.000		11.119		133.428	
	L.S for hand rail 1No =250 m2	2				250.0	500.000	
Total Quantity							7404.440 sqm	
Total Deducted Quantity							0.000 sqm	
Net Total Quantity							7404.440 sqm	
Say 7404.440 sqm @ Rs 210.68 / sqm							<b>Rs 1559967.42</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>2 Appendix B- Bank Protection Works</b>								

1	od105109/2019_2020 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas exceeding 30 cm in depth, including disposal of excavated earth, with all lead and lift, disposed earth to be levelled and neatly dressed.All kinds of soil							
	CC Rt wall rtand Lt bank							
	Lt andR bank d/s	2	50.000	2.000	2.000		400.000	
	Rt bank u/s	1	150.000	2.000	1.500		450.000	
	Lt banku/s	1	50.000	2.000	1.500		150.000	
	RCC Rt wall Lt and rt banks							
	Lt bank d/s and u/s	2	50.000	2.000	4.000		800.000	
	Rt bank d/s and u/s	2	50.000	2.000	3.000		600.000	
	Total Quantity						2400.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						2400.000 cum	
	Say 2400.000 cum @ Rs 175.14 / cum						<b>Rs 420336.00</b>	
2	od118238/2019_2020 RING BUND Type-I-Putting up ring bund as per approved shape 2.5m bottom width, 1m top width using empty gunny/polythene bags filled with earth placed in 2 rows at 0.6m apart and filled in between with puddle clay to form bund for an average height 2.00m including labour dismantling the bund after completion of the work etc. complete. as per 60.1.1 OD Irrigation							
	Lt bank us and ds	2	100.000				200.000	
	Right bank ds	1	100.000				100.000	
	Right bank us	1	200.000				200.000	
	Thodu us	2	50.000				100.000	
	Total Quantity						600.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						600.000 metre	
	Say 600.000 metre @ Rs 1315.08 / metre						<b>Rs 789048.00</b>	
3	od151630/2019_2020 Bailing out water Using 5HP Pump- Bailing out water with 5HP engine and pump set including conveyance to site and erection, cost of fuel, lubrication oil and other stores, pay of staff etc complete							
	4 pumps 40 days 8 hours							
		4*40*8					1280.000	
	Total Quantity						1280.000 hour	
	Total Deducted Quantity						0.000 hour	
	Net Total Quantity						1280.000 hour	



	Say 1280.000 hour @ Rs 232.74 / hour						<b>Rs 297907.20</b>
4	od118247/2019_2020 Bailing out water using pump above 5 HP and Up to 10 HP-Bailing out water with engine and pump set above 5HP and up to 10HP, including conveyance to site and erection, cost of fuel, lubrication oil and other stores, pay of staff etc complete as per 60.2.3 OD Irrigation						
	1 pump 40 days 8hrs						
		1*40*8					320.000
	Total Quantity						320.000 hour
	Total Deducted Quantity						0.000 hour
	Net Total Quantity						320.000 hour
	Say 320.000 hour @ Rs 317.74 / hour						<b>Rs 101676.80</b>
5	od118248/2019_2020 Coconut Pile - Supplying and stacking well matured straight coconut post for driving down through various strata bellow bed level including cost conveyance labour charges etc complete as per 60.64.1 OD Irrigation						
	under rcc ret wall						
	Lt bank us and ds	2*4*51	3.500				1428.000
	Rt bank us and ds	2*4*51	3.000				1224.000
	Under cc wall						
	Lt and rt bank ds	2*50*3	3.500				1050.000
	Lt and rt bank us	200*3	3.000				1800.000
	Total Quantity						5502.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						5502.000 metre
	Say 5502.000 metre @ Rs 155.27 / metre						<b>Rs 854295.54</b>
6	od118250/2019_2020 Coconut Pile - Driving down coconut pile to lines and levels through various strata including all hire charges and labour for fixing , staging platform and all other appliances necessary for pile driving down after pointing the bottom end as per 60.64.4 OD Irrigation						
	under CC wall						
	Rt and Lt bank ds	2*50*3	3.500				1050.000
	Rt and left bank us	200*3	3.000				1800.000
	Under rcc ret wall						
	Lt bank us and ds	2*51*4	3.500				1428.000
	Rt bank us and ds	2*51*4	3.000				1224.000

	Total Quantity						5502.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						5502.000 metre	
	Say 5502.000 metre @ Rs 798.37 / metre						<b>Rs 4392631.74</b>	
7	od118251/2019_2020 DR PACKING Under foundation - Dry stone packing under foundation with good quality blasted rubble including conveyance of material and labour charges etc. complete as per direction of departmental officers at site as per 60.7.2 OD Irrigation							
	under RCC ret wall							
	Lt bank us and ds	2	50.000	4.200	0.600		252.000	
	Rt bank us and ds	2	50.000	4.200	0.600		252.000	
	under cc wall							
	Lt bank us and ds	2	50.000	3.000	0.600		180.000	
	Rt bank us	150	3.000	1.000	0.600		270.000	
	rt bank ds	1	50.000	3.000	0.600		90.000	
	For side thodu	2	50.000	3.000	0.600		180.000	
	Total Quantity						1224.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						1224.000 cum	
	Say 1224.000 cum @ Rs 2201.73 / cum						<b>Rs 2694917.52</b>	
8	od143003/2019_2020 Plain cement concrete 1:3:6 nominal mix in foundation including formwork with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days as per 12.4 MORTH Specification							
	Levelling course							
	For RCC wall lt and rt bank us and ds	2*2	50.000	4.200	0.150		126.000	
	For rcc wall left bank us and ds	1*2	50.000	2.500	0.150		37.500	
	Rt bank ds	1	50.000	2.500	0.150		18.750	
	Rt bank us	1	150.000	2.500	0.150		56.250	
	For side thodu	2	50.000	2.500	0.150		37.500	
	Total Quantity						276.000 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						276.000 cum	

	Say 276.000 cum @ Rs 6740.87 / cum						<b>Rs 1860480.12</b>
9	12.8.E.2.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. RCC Grade M25 - With Batching Plant, Transit Mixer and Concrete Pump						
	Foundation rcc wall						
	Base slab rcc wall rt bank us and ds	2	50.000	4.000	0.600		240.000
	Lt bank ds and us	2	50.000	4.000	0.600		240.000
	Total Quantity						480.000 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						480.000 cum
	Say 480.000 cum @ Rs 8074.06 / cum						<b>Rs 3875548.80</b>
10	13.5.F.P.2 Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications RCC Grade M25 - With Batching Plant, Transit Mixer and Concrete Pump - Height upto 5m						
	RCC Ret wall						
	Rt bank us and ds	2	50.000	(.6+.3)/2	4.150		186.750
	Lt bank us and ds	2	50.000	(.65+.3)/2	4.650		220.876
	Total Quantity						407.626 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						407.626 cum
	Say 407.626 cum @ Rs 8560.45 / cum						<b>Rs 3489461.99</b>
11	12.8.A.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. PCC Grade M15						
	CC wall						
	D/s Rt and Lt foundation	2*50	2.200	0.600			132.000
	Lt bankus foundation	1*50	2.000	0.600			60.000
	Us right bank foundation	1*150	2.000	0.600			180.000
	Thodu CC wall foundation	2	50.000	2.000	0.600		120.000
	Total Quantity						492.000 cum

		Total Deducted Quantity				0.000 cum	
		Net Total Quantity				492.000 cum	
		Say 492.000 cum @ Rs 7504.48 / cum				<b>Rs 3692204.16</b>	
12	od114774/2019_2020 Supply, Fitting and Placing Fusion bonded epoxy coated(confirm to IS 13620-1993) HYSD bar or TMT Reinforcement in Foundation complete as per Drawing and Technical Specifications and as per 12.40 of MORTH specification 						
	RCC M25	1	480.000			0.17	81.601
	PCC M15	1	492.000			0.04	19.680
		Total Quantity				101.281 MT	
		Total Deducted Quantity				0.000 MT	
		Net Total Quantity				101.281 MT	
		Say 101.281 MT @ Rs 91566.73 / MT				<b>Rs 9273969.98</b>	
13	13.5.A Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications PCC Grade M15 - Height upto 5m						
		CC wall					
	D/S Rt and Lt bank wall	2*50	$(2+.6)/2$	4.000			520.000
	Us Lt bank wall	1*50	$(1.75+.6)/2$	3.500			205.625
	Us Rt bank wall	1*150	$(1.75+.6)/2$	3.500			616.875
	Side thodu	2*50	$(1.75+.6)/2$	3.500			411.250
		Top belt over RR masonry Rt and Lt bank					
	Ds	2	500.000	0.600	0.075		45.000
	Us	1	1400.000	0.600	0.075		63.000
	Thodu	2	400.000	0.600	0.075		36.000
		Total Quantity				1897.750 cum	
		Total Deducted Quantity				0.000 cum	
		Net Total Quantity				1897.750 cum	
		Say 1897.750 cum @ Rs 7937.43 / cum				<b>Rs 15063257.78</b>	
14	od105133/2019_2020 Supply, Fitting and Placing Fusion bonded epoxy coated(confirm to IS 13620-1993) HYSD bar or TMT Reinforcement in substructure complete as per Drawing and Technical Specifications and as per 13.6 of						

	MORTH specifications 							
	RCC M25	407.626				0.17	69.297	
	PCC M15	1753.75				0.04	70.150	
	Total Quantity						139.447 MT	
	Total Deducted Quantity						0.000 MT	
	Net Total Quantity						139.447 MT	
	Say 139.447 MT @ Rs 91842.80 / MT						<b>Rs 12807202.93</b>	
15	od117846/2019_2020 Supplying and stacking granite stone 20 to 45 dm3 for dumping works- Supplying at site of work granite stone 20 to 45 dm3 in size (60% 45m3,30%30 to 40dm3 and 10% 20 to 30dm3 stones) for measurement ( deducting not less than 15% for voids as fixed by the departmental officer at site) including all cost, conveyance, loading and unloading charges all other incidental charges all leads and lifts etc. complete as per the direction of the departmental officers at site as per 60.7.6 OD Irrigation							
	Side thodu							
	Lt and Rt bank	2	400.000	3.970			3176.000	
	Lt bank us	1	750.000	12.284			9213.000	
	Lt bank ds	1	500.000	11.944			5972.000	
	Rt bank us	1	650.000	12.284			7984.600	
	Rt bankds	1	500.000	11.640			5820.000	
	Total Quantity						32165.600 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						32165.600 cum	
	Say 32165.600 cum @ Rs 1786.13 / cum						<b>Rs 57451943.13</b>	
16	od118660/2019_2020 Conveyance and dumping of departmental granite stones-Conveyance of departmental granite stone 20 to 45 dm3 in size from stack at site and dumping in position (60% 45m3,30%30 to 40dm3 and 10% 20 to 30dm3 stones) to lines and levels to from the base of the wall as per approved design including all leads and lifts etc. complete as per the direction of the departmental officers at site as per 60.7.7 OD Irrigation							
		1	32165.600				32165.600	
	Total Quantity						32165.600 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						32165.600 cum	
	Say 32165.600 cum @ Rs 446.89 / cum						<b>Rs 14374484.98</b>	
17	od118718/2019_2020 DRY RUBBLE MASONRY _ Dry rubble without concrete levelling course masonry with good quality blasted rubble including packing to compactness to lines and levels cost and conveyance of all materials							

	labour charges etc. complete as per direction of Departmental officers at site as per 60.7.1 OD Irrigation						
	Rt and Lt bank						
	D/s	2	500.000	$(1.2+.75)/2$	1.500		1462.500
	Us	1	1400.000	$(1.2+.75)/2$	1.500		2047.500
	thodu	2	400.000	$(1.2+.75)/2$	1.500		1170.000
	Total Quantity						4680.000 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						4680.000 cum
	Say 4680.000 cum @ Rs 2858.69 / cum						<b>Rs 13378669.20</b>
18	od118735/2019_2020 Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like. Cement mortar 1:6 (1 cement : 6 coarse sand)						
	Right anf left bank						
	D/s	2	500.000	$(.75+.6)/2$	0.500		337.500
	U/s	1	1400.000	$(.75+.6)/2$	0.500		472.501
	Thodu	2	400.000	$(.75+.6)/2$	0.500		270.000
	Total Quantity						1080.001 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						1080.001 cum
	Say 1080.001 cum @ Rs 5322.16 / cum						<b>Rs 5747938.12</b>
19	3.17 Construction of embankment with approved materials deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of table 300-2.						
	Breached bank portion						
	D/s	2	600.000	1.500	0.850		1530.000
	Us	2	850.000	1.500	0.850		2167.500
	Total Quantity						3697.500 cum
	Total Deducted Quantity						0.000 cum
	Net Total Quantity						3697.500 cum
	Say 3697.500 cum @ Rs 97.73 / cum						<b>Rs 361356.68</b>

20	od143136/2019_2020 PVC WEEP HOLES- Providing weep holes using 75mm dia. PVC pipes working pressure 4kg /sq.cm including cost of materials, conveyance, labour charges etc. complete.							
	Rt bank river and thodu	1	260.000				260.000	
	Lt bank river and thodu	1	200.000				200.000	
	Total Quantity						460.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						460.000 metre	
	Say 460.000 metre @ Rs 127.44 / metre						<b>Rs 58622.40</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>3 APPENDIX-C ROAD WORKS</b>								
1	od106544/2019_2020 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas exceeding 30 cm in depth, including disposal of excavated earth, with all lead and lift, disposed earth to be levelled and neatly dressed and as directed by Engineer in charge.All kinds of soil 							
	Left bank Ret wall Cheruvannur side							
	CF Ret wall	2	30.000	4.800	1.900		547.200	
	RCC cantilever Ret wall	2	50.000	$(4.2+3.7)/2$	1.900		750.500	
	CC Wall	2	40.000	$(1.2+.8)/2$	1.500		120.000	
	RB Ret wall velom side							
	CF ret wall	2	30.000	6.000	1.900		684.000	
	RCC ret wall cantilever	2	50.000	$(4.8+4.2)/2$	1.900		855.000	
	CC wall	2	60.000	$(1.6+.8)/2$	1.500		216.001	
	Foundation Gaurd stone							
	Lt bank	2*60	0.400	0.400	0.300		5.761	
	Rt bank	2*70	0.400	0.400	0.300		6.721	
	Total Quantity						3185.183 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						3185.183 cum	
	Say 3185.183 cum @ Rs 175.14 / cum						<b>Rs 557852.95</b>	
2	3.16 Construction of embankment with approved material obtained from borrow pits with all lifts and leads,							

	transporting to site, spreading, grading to required slope and compacting to meet requirement of table 300-2.								
	Extra for curved portion								
	Lt and Rt bank	2	20.000	3.000	2.000		240.000		
	Cheruvannur side								
	Lt bank	1	120.000	6.700	5.75/2		2311.500		
	Velom side								
		1	140.000	6.700	6.85/2		3212.650		
	Deduction								
	Deduct qty vide item 1	1	3185.183				-3185.183		
	Total Quantity						5764.150 cum		
	Total Deducted Quantity						-3185.183 cum		
	Net Total Quantity						2578.967 cum		
	Say 2578.967 cum @ Rs 413.24 / cum						<b>Rs 1065732.32</b>		
3	od118251/2019_2020 DR PACKING Under foundation - Dry stone packing under foundation with good quality blasted rubble including conveyance of material and labour charges etc. complete as per direction of departmental officers at site as per 60.7.2 OD Irrigation								
	Right bank Velom side								
	CF	2	30.000	6.000	0.500		180.000		
	RCC cantilever RW	2	50.000	$(4.8+4.2)/2$	0.500		225.000		
	CC RW	2	60.000	$(1.6+.8)/2$	0.500		72.001		
	Lt bank cheruvannur side								
	CF	2	30.000	4.800	0.500		144.000		
	RCC Ret wall	2	50.000	$(4.2+3.7)/2$	0.500		197.500		
	CC ret wall	2	40.000	$(1.2+.8)/2$	0.500		40.000		
	Total Quantity						858.501 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						858.501 cum		
	Say 858.501 cum @ Rs 2201.73 / cum						<b>Rs 1890187.41</b>		
4	od143003/2019_2020 Plain cement concrete 1:3:6 nominal mix in foundation including formwork with crushed stone aggregate 40 mm nominal size mechanically mixed, placed in foundation and compacted by vibration including								



	curing for 14 days as per 12.4 MORTH Specification							
	Levelling course Lt bank Cheruvannur side							
	CF (0 to 30m)	2	30.000	4.800	0.150		43.200	
	RCC Ret wall (30to 80m)	2	50.000	$(4.2+3.7)/2$	0.150		59.250	
	CC wall foundation							
	Lt bank	2	40.000	$(1.2+.8)/2$	$(0.6+.45)/2$		42.000	
	Rt bank	2	60.000	$(1.6+.8)/2$	$(.6+.45)/2$		75.601	
	Right bank veom side							
	CF wall (0 to 30m)	2	30.000	6.000	0.150		54.000	
	RCC Cantilever rw	2	50.000	$(4.8+4.2)/2$	0.150		67.500	
	Total Quantity						341.551 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						341.551 cum	
	Say 341.551 cum @ Rs 6740.87 / cum						<b>Rs 2302350.89</b>	
5	12.8.E.2.1 Plain/Reinforced Cement Concrete in Open Foundation complete as per Drawing and Technical Specifications. RCC Grade M25 - With Batching Plant, Transit Mixer and Concrete Pump							
	Right Bank Velom side							
	CF wall 0-30m	2	30.000	5.800	0.600		208.800	
	RCC wall	2	50.000	$(4.6+4)/2$	0.600		258.000	
	Left Bank Cheruvannur side							
	CF 0-30m	2	30.000	4.600	0.600		165.600	
	RCC Wall 30-80m	2	50.000	$(4+3.5)/2$	0.600		225.000	
	Total Quantity						857.400 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						857.400 cum	
	Say 857.400 cum @ Rs 8074.06 / cum						<b>Rs 6922699.04</b>	
6	od114774/2019_2020 Supply, Fitting and Placing Fusion bonded epoxy coated(confirm to IS 13620-1993) HYSD bar or TMT Reinforcement in Foundation complete as per Drawing and Technical Specifications and as per 12.40 of MORTH specification							

	RCC M25	1	857.400			0.17	145.758	
	PCC 1:3:6	1	117.601			0.04	4.705	
	Total Quantity						150.463 MT	
	Total Deducted Quantity						0.000 MT	
	Net Total Quantity						150.463 MT	
	Say 150.463 MT @ Rs 91566.73 / MT						<b>Rs 13777404.90</b>	
7	13.5.F.P.2 Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications RCC Grade M25 - With Batching Plant, Transit Mixer and Concrete Pump - Height upto 5m							
	Counter Fort							
	CF Lt bank	2*10	(2.95+0)/2	0.600	(6.4+5)/2		100.890	
	CF rt bank	2*10	(3.8+0)/2	0.600	(7.5+6)/2		153.900	
	CF stem Left bank	2	30.000	0.500	(6.4+5)/2		171.000	
	CF stem Rt bank	2	30.000	0.500	(7.5+6)/2		202.500	
	REt wall RCC							
	Lt bank	2	50.000	(.65+.3)/2	(4.9+2.4)/2		173.376	
	Rt bank	2	50.000	(.505+.475)/2	4.750		232.750	
	Total Quantity						1034.416 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						1034.416 cum	
	Say 1034.416 cum @ Rs 8560.45 / cum						<b>Rs 8855066.45</b>	
8	od121227/2019_2020 Plain Cement Concrete 1:3:6 ( 1 cement : 3 Course sand: 6 graded stone aggregate 40mm metal size) nominal mix in sub structure , mechanically mixed, placed in sub structure and compacted by vibration including curing for 14 days etc. complete as per specification.							
	CC Retaining Wall							
	Lt bank	2	40.000	0.650	(2.4+.5)/2		75.400	
	Rt bank	2	60.000	0.750	(3.5+.5)/2		180.000	
	Total Quantity						255.400 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						255.400 cum	
	Say 255.400 cum @ Rs 7051.86 / cum						<b>Rs 1801045.04</b>	
9	od105133/2019_2020							

	Supply, Fitting and Placing Fusion bonded epoxy coated(confirm to IS 13620-1993) HYSD bar or TMT Reinforcement in substructure complete as per Drawing and Technical Specifications and as per 13.6 of MORTH specifications 							
	RCC M25	1	1034.416			0.17	175.851	
	PCC 1:3:6	1	255.400			0.04	10.217	
	PCC M15	1	21.844			0.03	0.656	
	Total Quantity						186.724 MT	
	Total Deducted Quantity						0.000 MT	
	Net Total Quantity						186.724 MT	
	Say 186.724 MT @ Rs 91842.80 / MT						<b>Rs 17149254.99</b>	
10	4.1.A.1 Construction of granular sub-base by providing graded Material, mixing in a mechanical mix plant at OMC, carriage of mixed Material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401 Grading-I - Plant Mix Method							
	Rt bank velom side							
		1	140.000	6.700	0.250		234.500	
	Left bank Cheruvannur side							
		1	120.000	6.700	0.250		201.000	
	Total Quantity						435.500 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						435.500 cum	
	Say 435.500 cum @ Rs 3205.82 / cum						<b>Rs 1396134.61</b>	
11	4.12 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.							
	Rt bank Velom side							
		1	140.000	6.600	0.200		184.800	
	Lt bank Cheruvannur side							
		1	120.000	6.600	0.200		158.400	
	Total Quantity						343.200 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						343.200 cum	

		Say 343.200 cum @ Rs 3115.47 / cum					<b>Rs 1069229.30</b>	
12	5.1.a Providing and applying primer coat with bitumen emulsion ( SS) on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.70 - 1.0 kg/sqm using mechanical means.							
		Lt bank Cheruvannur side						
		1	120.000	6.500			780.000	
		Rt bank Velom side						
		1	140.000	6.500			910.000	
		Total Quantity					1690.000 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					1690.000 sqm	
		Say 1690.000 sqm @ Rs 53.96 / sqm					<b>Rs 91192.40</b>	
13	5.2.a Providing and applying tack coat with bitumen emulsion( RS) using emulsion pressure distributor at the rate of 0.20 - 0.30 kg per sqm on the prepared bituminous surface cleaned with mechanical broom.							
		Over bridge						
		2	97.250	7.500			1458.750	
		Lt bank Cheruvannur side						
		1*2	120.000	6.500			1560.000	
		Rt bank Velom side						
		1*2	140.000	6.500			1820.000	
		Total Quantity					4838.750 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					4838.750 sqm	
		Say 4838.750 sqm @ Rs 10.54 / sqm					<b>Rs 51000.42</b>	
14	5.3.1.b Providing and laying bituminous macadam with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading premixed with bituminous binder (VG - 30), transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction. Grading - I ( 40 mm nonimal size)							
		Over bridge						
		1	97.250	7.500	0.050		36.469	

	Rt and Lt bank							
		1	140.000	6.500	0.050		45.500	
		1	120.000	6.500	0.050		39.000	
	Total Quantity						120.969 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						120.969 cum	
	Say 120.969 cum @ Rs 7912.98 / cum						<b>Rs 957225.28</b>	
15	<p>5.6.2.b          Providing and laying bituminous concrete with 100-120 TPH hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder (NRMB) @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects          For Grading -II (13.2 mm Nominal size).</p>							
	Over Bridge							
		1	97.250	7.500	0.030		21.882	
	Rt and Lt Abutment							
		1	140.000	6.500	0.030		27.300	
		1	120.000	6.500	0.030		23.400	
	Total Quantity						72.582 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						72.582 cum	
	Say 72.582 cum @ Rs 11944.93 / cum						<b>Rs 866986.91</b>	
16	<p>8.4.1          Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting vide clause 801.3.3 fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc.          90 cm equilateral triangle</p>							
	Rt and Lt banks							
		2*5					10.000	
	Total Quantity						10.000 each	

		Total Deducted Quantity				0.000 each	
		Net Total Quantity				10.000 each	
		Say 10.000 each @ Rs 4205.34 / each				<b>Rs 42053.40</b>	
17	8.4.12	<p>Providing and fixing of retro- reflectorised cautionary, mandatory and informatory sign with 7years warranty manufactured as per IRC :67 made of Type IV micro prismatic grade sheeting fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with suitable back supporting frame of MS angle 25x25x3 and supported on GI pipe pole 50mm NB confirming to IS 1239 firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc.</p> <p>50cmx 60 cm rectangular (Single chevron etc.)</p>					
		Rt and Lt banks					
		2*5				10.000	
		Total Quantity				10.000 each	
		Total Deducted Quantity				0.000 each	
		Net Total Quantity				10.000 each	
		Say 10.000 each @ Rs 3970.06 / each				<b>Rs 39700.60</b>	
18	8.6	<p>Providing and fixing of direction and place identification retro-reflectorised sign with 7 years warranty manufactured as per IRC :67 High Intensity Micro Prismatic (Type IV) grade sheeting fixed over aluminium sheeting, 2 mm thick/ aluminium composit material sheeting 4 mm thick with area exceeding 0.9 sqm, with suitable back supporting frame of MS angle 40x40x6 and supported on suitably designed GI pipe pole not less than 50mm NB , 2 Nos. confirming to IS 1239, firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete min size 45 cm x 45 cm x 60 cm, 60 cm below ground level including painting all exposed surface with 2 coats of epoxy painting over epoxy primer and as per approved drawing and clause 801 including lettering symbols etc.</p>					
		2	1.200	0.900		2.160	
		Total Quantity				2.160 sqm	
		Total Deducted Quantity				0.000 sqm	
		Net Total Quantity				2.160 sqm	
		Say 2.160 sqm @ Rs 9047.27 / sqm				<b>Rs 19542.10</b>	
19	8.13	<p>Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads on Bituminous Surface @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 .The finished surface to be level, uniform and free from streaks and holes.</p>					
		1	45.000			45.000	

		Total Quantity					45.000 sqm	
		Total Deducted Quantity					0.000 sqm	
		Net Total Quantity					45.000 sqm	
		Say 45.000 sqm @ Rs 548.22 / sqm					<b>Rs 24669.90</b>	
20	8.35	Providing and fixing reflective road studs (Raised Pavement Marker) of ' category A' made out of ASA/HIPS/ABS moulded body with shanks and conforming to ASTM D 4280, strong enough to support a load of more than 13.635 T when tested in accordance with ASTM D 4280, reflective panel conforming to ASTM D 788, and reflectivity conforming to clause 804.4. including installation, drilling, fixing with adhesive etc. with 2 years warranty for the road stud as well as for in field performance as per clause 804.7.3						
		Road Markers/Road Stud with Lense Reflector :-						
		1	125.000				125.000	
		Total Quantity					125.000 no	
		Total Deducted Quantity					0.000 no	
		Net Total Quantity					125.000 no	
		Say 125.000 no @ Rs 213.12 / no					<b>Rs 26640.00</b>	
21	13.5.A	Plain/Reinforced cement concrete in sub-structure complete as per drawing and Technical Specifications PCC Grade M15 - Height upto 5m						
		Rt bank Velom						
	Gaurd stone	2*70	0.200	0.200	0.900		5.041	
	Foundation	2*70	0.400	0.400	0.300		6.721	
		Lt bank mCheruvannur side						
		2*60	0.200	0.200	0.900		4.321	
	Foundation	2*60	0.400	0.400	0.300		5.761	
		Total Quantity					21.844 cum	
		Total Deducted Quantity					0.000 cum	
		Net Total Quantity					21.844 cum	
		Say 21.844 cum @ Rs 7937.43 / cum					<b>Rs 173385.22</b>	
22	13.3	Plastering with cement mortar (1:3 ) on brick work in sub-structure as per Technical Specifications						
		Gaurd stone Lt and Rt banks						
		1	260.000	0.800	0.900		187.201	
		1	260.000	0.200	0.200		10.400	
		Total Quantity					197.601 sqm	

Total Deducted Quantity							0.000 sqm	
Net Total Quantity							197.601 sqm	
Say 197.601 sqm @ Rs 193.12 / sqm							<b>Rs 38160.71</b>	
23	od122752/2019_2020 PVC WEEP HOLES- Providing weep holes using 75mm dia. PVC pipes working pressure 4kg /sq.cm including cost of materials, conveyance, labour charges etc. complete.							
	Lt bank	1	200.000				200.000	
	Rt bank	1	200.000				200.000	
Total Quantity							400.000 metre	
Total Deducted Quantity							0.000 metre	
Net Total Quantity							400.000 metre	
Say 400.000 metre @ Rs 127.44 / metre							<b>Rs 50976.00</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>4 Appendix D -Construction of Switch Room cum Watchman Room</b>								
1	2.6.1 Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.All kinds of soil							
	Other Engineering Organisations For Col							
		8	1.800	2.000	1.500		43.200	
	Leach pit							
		1	2.800	1.800	1.500		7.561	
	Below plinth beam							
		2	1.150	0.350	0.250		0.202	
		4	2.250	0.350	0.250		0.788	
		4	3.950	0.350	0.250		1.383	
Total Quantity							53.134 cum	
Total Deducted Quantity							0.000 cum	
Net Total Quantity							53.134 cum	
Say 53.134 cum @ Rs 165.07 / cum							<b>Rs 8770.83</b>	
2	4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level:1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 nominal size)							
	Flooring							



	Passage	1	3.500	2.500	0.100		0.875		
	Free space	1	3.600	2.050	0.100		0.738		
	Room	1	3.600	3.730	0.100		1.343		
	Watchman room	1	3.600	3.500	0.100		1.260		
	Toilet	1	2.000	1.800	0.100		0.361		
	Toilet below landing	1	2.500	1.800	0.100		0.450		
	For col								
		8	1.800	2.000	0.150		4.320		
	Total Quantity						9.347 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						9.347 cum		
	Say 9.347 cum @ Rs 5869.06 / cum						<b>Rs 54858.10</b>		
3	5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level:1:1:5:3 (1 cement 1.5 coarse sand :3 graded stone aggregate 20 mm nominal size								
	Plinth beam								
		3	2.500	0.230	0.600		1.036		
		6	3.600	0.230	0.600		2.981		
		4	5.300	0.230	0.600		2.926		
		1	1.800	0.230	0.600		0.249		
	Col footing								
	Rect. portion	8	1.800	1.600	0.300		6.913		
	trapezoidal	8	$(.23*.45+1.6*1.8)/2$	0.150			1.791		
	Leach pit slab								
		1	2.800	1.800	0.100		0.504		
	col up to plinth beam bottom								
		8	0.230	0.450	0.900		0.746		
	Total Quantity						17.146 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						17.146 cum		
	Say 17.146 cum @ Rs 8145.84 / cum						<b>Rs 139668.57</b>		
4	5.2.2								

	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3( 1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)							
	FF col upto beam bottom							
		8	0.230	0.450	3.600		2.981	
	GF col upto slab bottom							
		8	0.230	0.450	3.600		2.981	
	Total Quantity						5.962 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						5.962 cum	
	Say 5.962 cum @ Rs 9365.29 / cum						<b>Rs 55835.86</b>	
5	5.3 Reinforced cement concrete work in beams, suspended floors, roofs, having slope up to 15 <sup>0</sup> landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (Zone III) : 3 graded stone aggregate 20 mm nominal size).							
	beam under landing	1	2.500	0.230	0.300		0.173	
	main slab ff	1	11.000	6.600	0.150		10.890	
	FF beams	4	3.600	0.230	0.600		1.988	
		2	2.500	0.230	0.600		0.691	
		4	5.300	0.230	0.600		2.926	
	lintel ff	5	3.600	0.230	0.150		0.621	
		2	2.500	0.230	0.150		0.173	
		4	5.300	0.230	0.150		0.732	
	GF beams	5	3.600	0.230	0.600		2.484	
		2	2.500	0.230	0.600		0.691	
		4	5.300	0.230	0.600		2.926	
	Sunshade GF and FF	2*2	10.620	0.600	0.100		2.549	
	sides	2*2	6.200	0.600	0.100		1.488	
	Lintel GF	1	1.800	0.230	0.150		0.063	
		4	5.300	0.230	0.150		0.732	
		6	3.600	0.230	0.150		0.746	
		3	2.500	0.230	0.150		0.259	
	stair waist slab	1	6.090	1.250	0.150		1.142	

	landing slab	1	2.960	2.260	0.150		1.004		
	steps	18	1/2	0.300	0.175	1.25	0.591		
	main slab gf	10.62	6.200	0.200			13.169		
	stair	1	3.470	2.500	0.200		-1.735		
	Total Quantity						46.038 cum		
	Total Deducted Quantity						-1.735 cum		
	Net Total Quantity						44.303 cum		
	Say 44.303 cum @ Rs 9686.38 / cum						<b>Rs 429135.69</b>		
6	5.9.1 Centering and shuttering including strutting, etc. and removal of form for:Foundations, footings, bases of columns, etc for mass concrete								
	col footing								
	vertical sides	8*2	1.800	0.300			8.640		
		8*2	1.600	0.300			7.680		
	leach pit cover slab								
	edge	1	9.200	0.100			0.920		
	Total Quantity						17.240 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						17.240 sqm		
	Say 17.240 sqm @ Rs 254.19 / sqm						<b>Rs 4382.24</b>		
7	5.9.3 Centering and shuttering including strutting, etc. and removal of form for:Suspended floors, roofs, landings, balconies and access platform								
	FF slab roof								
	gen room	1	3.600	5.740			20.664		
	store	1	3.600	3.500			12.600		
	free sp	1	3.600	2.050			7.380		
	stair	1	2.500	5.300			13.250		
	stair								
	waist slab	1	6.090	1.250			7.613		
	sides	1	6.090		0.150		0.914		
	steps vertical	18	1.250		0.175		3.938		
	18	18	1/2	0.300	0.175		0.473		
		1	2.400	1.250			-3.000		

		1	1.200	1.250			-1.500		
	landing slab								
		1	2.500	1.800			4.500		
	gf slab								
	room	1	3.600	5.300			19.080		
	watchman room	1	3.600	3.500			12.600		
	free sp	1	3.600	2.050			7.380		
	near stair	1	2.500	2.050			5.125		
	sun shade gf and ff								
		2*2	6.200	0.600			14.880		
	bottom	2*2	11.820	0.600			28.368		
	Total Quantity						158.765 sqm		
	Total Deducted Quantity						-4.500 sqm		
	Net Total Quantity						154.265 sqm		
	Say 154.265 sqm @ Rs 553.47 / sqm						<b>Rs 85381.05</b>		
8	5.9.5	Centering and shuttering including strutting, etc. and removal of form for:Lintels, beams, plinth beams, girders bressumers and cantilevers							
	Other Engineering Organisations plinth beam								
		4*2	5.300	0.600			25.440		
		6*2	3.600	0.600			25.920		
		3*2	2.500	0.600			9.000		
		1*2	1.800	0.600			2.160		
	gf								
	beams around	4	5.300	1.430			30.316		
		5	3.600	1.430			25.740		
		2	2.500	1.430			7.150		
	landing beam	1	2.500	0.830			2.075		
	lintel	2	48.000	0.150			14.400		
	FF								
	beams	4	3.600	1.430			20.592		
		4	5.300	1.430			30.316		
		2	2.500	1.430			7.150		

	lintel	2	46.600	0.150			13.980	
	Total Quantity						214.239 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						214.239 sqm	
	Say 214.239 sqm @ Rs 449.40 / sqm						<b>Rs 96279.01</b>	
9	5.9.6 Centering and shuttering including strutting, etc. and removal of form for:Columns, Pillars, Piers, Abutments, Posts and Struts							
	Col Gf to FF	8	1.360	3.600			39.169	
	Col footing to GF beam bottom	8	1.360	4.500			48.960	
	Total Quantity						88.129 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						88.129 sqm	
	Say 88.129 sqm @ Rs 613.16 / sqm						<b>Rs 54037.18</b>	
10	5.22.6 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							
	vide item 3,4 and 5	1	(17.146+5.962+44.303)			150.0	10111.650	
	Total Quantity						10111.650 kilogram	
	Total Deducted Quantity						0.000 kilogram	
	Net Total Quantity						10111.650 kilogram	
	Say 10111.650 kilogram @ Rs 74.18 / kilogram						<b>Rs 750082.20</b>	
11	50.6.7.1 Laterate masonry with neatly dressed laterate stone of size 40x20x15cm or nearest size in cement mortar 1:6 for foundation and basement including all cost of materials, labour charges etc.							
	below plinth beam							
	toilet	1	2.000	0.350	0.220		0.154	
		3	2.500	0.350	0.220		0.578	
		5	3.600	0.350	0.220		1.387	
		1	1.800	0.350	0.220		0.139	
		4	5.300	0.350	0.220		1.633	
	leach pit	2	2.800	0.230	1.500		1.932	

		2	1.340	0.230	1.500		0.925		
	Total Quantity						6.748 cum		
	Total Deducted Quantity						0.000 cum		
	Net Total Quantity						6.748 cum		
	Say 6.748 cum @ Rs 6215.33 / cum						<b>Rs 41941.05</b>		
12	50.6.7.2 Laterate masonry with neatly dressed laterate stone of size 40x20x15cm or nearest size in cement mortar 1:6 for super structure above plinth level up to floor two level including all cost of materials, labour charges etc.								
	GF Hor	5	3.600	0.230	2.250		9.316		
		1	2.500	0.230	2.250		1.294		
	vertical	4	5.300	0.230	2.250		10.971		
	landing	1	2.500	0.230	2.000		1.151		
	toilet	1	2.000	0.230	2.250		1.036		
		1	1.800	0.230	2.250		0.932		
	step foundation	1	2.500	0.600	0.220		0.330		
		3	2.500	0.300	0.220		0.495		
	wind w3	7	1.500	0.230	1.500		-3.622		
	w2	5	1.000	0.230	1.500		-1.725		
	v	2	0.750	0.230	0.450		-0.155		
	Door D	5	1.000	0.230	2.100		-2.415		
	D1	2	0.800	0.230	2.100		-0.772		
	FF								
	hor	5	3.600	0.230	2.850		11.800		
	vert	4	5.300	0.230	2.850		13.897		
	store room	2	2.500	0.230	2.850		3.278		
	Total Quantity						54.500 cum		
	Total Deducted Quantity						-8.689 cum		
	Net Total Quantity						45.811 cum		
	Say 45.811 cum @ Rs 6705.70 / cum						<b>Rs 307194.82</b>		
13	50.9.1.1 Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately), using good quality Anjili wood /jack wood								
	w3 hor	7*2	1.800	0.100	0.070		0.177		

	vert	7*4	1.500	0.100	0.070		0.295	
	w2 hor	5*2	1.300	0.100	0.070		0.091	
	vert	5*3	1.000	0.100	0.070		0.106	
	vent v hor	2*2	1.050	0.100	0.070		0.030	
	vert	2*2	0.450	0.100	0.070		0.013	
	D hor	5	1.300	0.100	0.070		0.046	
	vert	5*2	2.100	0.100	0.070		0.148	
	D1 hor	2	1.100	0.100	0.070		0.016	
	vert	2*2	2.100	0.100	0.070		0.059	
	Total Quantity						0.981 cum	
	Total Deducted Quantity						0.000 cum	
	Net Total Quantity						0.981 cum	
	Say 0.981 cum @ Rs 101129.03 / cum						<b>Rs 99207.58</b>	
14	50.9.2.1 Providing and fixing paneled and glazed shutters for doors, windows and clerestory windows, 35 mm thick shutters including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineerin - charge.using Anjili/ Jack wood							
	door D	5	0.900	2.050			9.225	
	Total Quantity						9.225 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						9.225 sqm	
	Say 9.225 sqm @ Rs 2828.93 / sqm						<b>Rs 26096.88</b>	
15	50.9.6.1 Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. Using Anjili wood / jack wood 30 mm thick shutters							
	W3	7*3	0.430	1.350			12.191	
	W2	5*2	0.430	1.350			5.805	
	V	2	0.700	0.450			0.630	
	Total Quantity						18.626 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						18.626 sqm	
	Say 18.626 sqm @ Rs 3282.63 / sqm						<b>Rs 61142.27</b>	
16	9.48.2							

	Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to openings/ wooden frames with rawl plugs screws etc								
	W3	7*3	0.430	1.350		17.16	209.189		
	w2	5*2	0.430	1.350		17.16	99.614		
	V	2	0.700	0.400		17.16	9.610		
	Grill Main entrance	1	2.500	2.100		17.16	90.090		
	Total Quantity						408.503 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						408.503 kg		
	Say 408.503 kg @ Rs 147.38 / kg						<b>Rs 60205.17</b>		
17	<p>9.120.1  Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and sized of 19 mm x 19 mm for styles and 15x15 mm for top &amp; bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5mm thick, 95 mm wide PVC sheet out of which 75 mm shall be tapered in 45 degree on th inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mmx2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail &amp; bottom rail. paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded /sealed to the styles &amp; rails with 7 mm (5 mm + 2 mm ) thick x 15 mm wide PVC sheet beading on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer -in-charge, manufacture's specification &amp; drawing.30 mm thick plain PVC door shutters</p>								
	D1	2	0.750	2.050			3.075		
	Total Quantity						3.075 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						3.075 sqm		
	Say 3.075 sqm @ Rs 3627.87 / sqm						<b>Rs 11155.70</b>		
18	<p>13.1.1  12 mm cement plaster of mix:1:4 ( 1 cement : 4 fine sand)</p>								
	wall								
	outside	2	6.200	(3.6+3.6)			89.280		
	back	2	10.620	(3.6+3.6)			152.928		
	inside gf	6	5.740	3.000			103.320		
		6	3.600	3.000			64.801		



	below landing	1	2.500	3.000			7.500		
	toilet all round	1	3.800	3.000			11.400		
	do landing	2	2.500	2.000			10.000		
	steps	2	2.500	0.520			2.600		
	FF								
	near stair	1	15.080	3.600			54.289		
	Gen room	1	18.680	3.600			67.248		
	store	1	14.200	3.600			51.120		
	free space	1	11.200	3.600			40.320		
	w3	7	1.500	1.500			-15.750		
	w2	5	1.000	1.500			-7.500		
	V	2	0.750	0.450			-0.675		
	D	5	1.000	2.100			-10.500		
	D1	2	0.800	2.100			-3.360		
	Grill	1	2.500	2.100			-5.250		
	Total Quantity						654.806 sqm		
	Total Deducted Quantity						-43.035 sqm		
	Net Total Quantity						611.771 sqm		
	Say 611.771 sqm @ Rs 226.67 / sqm						<b>Rs 138670.13</b>		
19	5.23 Smooth finishing of the exposed surface of RCC work with 6mm thick cement mortar 1:3 ( cement : 3 fine sand).								
	sun shade								
	GF and FF	2*2	6.200	0.700			17.360		
		2*2	11.820	0.700			33.096		
	waist slab								
	steps	18	1.250	0.475			10.688		
	side	18	1/2	0.300	0.175		0.473		
	waist slab ceiling	4	6.090	1.250			30.450		
	GF								
	Room and Toilet	1	3.600	5.740			20.664		
	watch man	1	3.600	3.500			12.600		
	free space	1	2.020	3.500			7.070		

	stair room	1	2.400	1.250			3.000		
	landing	1	2.500	1.800			4.500		
	FF								
	Gen room	1	3.600	5.740			20.664		
		1	2.020	3.500			7.070		
	store	1	3.500	3.500			12.250		
	stair	1	2.500	5.740			14.351		
	Total Quantity						194.236 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						194.236 sqm		
	Say 194.236 sqm @ Rs 188.46 / sqm						<b>Rs 36605.72</b>		
20	11.36	<p>Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.</p>							
	Landing toilet	2	2.500	1.500			7.500		
		2	1.800	1.500			5.400		
	Room toilet	2	2.000	1.500			6.000		
		2	1.800	1.500			5.400		
	Door sides	4	0.230	1.500			1.381		
		2	0.800	1.500			-2.400		
	Total Quantity						25.681 sqm		
	Total Deducted Quantity						-2.400 sqm		
	Net Total Quantity						23.281 sqm		
	Say 23.281 sqm @ Rs 976.13 / sqm						<b>Rs 22725.28</b>		
21	11.37	<p>Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc., complete.</p>							
	Landing toilet	1	2.500	1.800			4.500		
	Room toilet	1	2.000	1.800			3.600		
	FF								

	Gen room	1	3.600	5.740			20.664	
		1	2.020	3.500			7.070	
	store	1	3.600	3.500			12.600	
	stair room	1	1.540	2.500			3.850	
		1	1.200	1.250			1.500	
	skirting add 10%	1	10.390				10.390	
	GF							
	Room	1	1.670	2.030			3.391	
	toilet passage	1	2.000	1.400			2.800	
		1	3.600	3.730			13.428	
		1	3.600	3.500			12.600	
		1	2.020	3.500			7.070	
	watch man r	1	3.740	2.500			9.351	
		1	1.540	2.500			3.850	
	front step	2	2.500	0.520			2.600	
	stair step	18	1.250	0.475			10.688	
	side	18	1/2	0.175	0.300		0.473	
	landing	1	2.500	1.800			4.500	
						Total Quantity	134.925 sqm	
						Total Deducted Quantity	0.000 sqm	
						Net Total Quantity	134.925 sqm	
						Say 134.925 sqm @ Rs 902.15 / sqm	<b>Rs 121722.59</b>	
22	9.55.2 Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc, complete:100x58x1.90mm.							
	Windows	102					102.000	
	Vent	8					8.000	
						Total Quantity	110.000 no	
						Total Deducted Quantity	0.000 no	
						Net Total Quantity	110.000 no	
						Say 110.000 no @ Rs 35.91 / no	<b>Rs 3950.10</b>	
23	9.63.1 Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete:250x10 mm							

	Door	5	2.000				10.000	
	Total Quantity						10.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						10.000 no	
	Say 10.000 no @ Rs 83.88 / no						<b>Rs 838.80</b>	
24	9.66.2 Providing and fixing ISI marked oxidised M.S. handles conforming to IS : 4992 with necessary screws etc. complete:100 mm							
	Door	2	1.000				2.000	
	Total Quantity						2.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						2.000 no	
	Say 2.000 no @ Rs 29.69 / no						<b>Rs 59.38</b>	
25	13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface:Water thinnable cement primer							
	vide item 18	1	611.770				611.770	
	item 19	1	194.236				194.236	
	Total Quantity						806.006 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						806.006 sqm	
	Say 806.006 sqm @ Rs 48.43 / sqm						<b>Rs 39034.87</b>	
26	13.60.1 Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade:Two or more coats on new work							
	vide item 26	1	806.007				806.007	
	Total Quantity						806.007 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						806.007 sqm	
	Say 806.007 sqm @ Rs 110.68 / sqm						<b>Rs 89208.85</b>	
27	13.48.2 Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications:Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @ 0.75 ltr/10 sqm of approved brand and manufacture							
	w3	7	1.500	1.500		1.3	20.475	

	w2	5	1.000	1.500		1.3	9.750		
	v	2	0.750	0.450		1.3	0.878		
	D	5	1.000	2.100		1.3	13.650		
	Total Quantity						44.753 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						44.753 sqm		
	Say 44.753 sqm @ Rs 116.12 / sqm						<b>Rs 5196.72</b>		
28	13.61.1 Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:Two or more coats on new work								
	grill work								
	grill	1	2.500	2.100			5.250		
	Window	7*3	0.430	1.350			12.191		
		5*2	0.430	1.350			5.805		
	V	2	0.550	0.400			0.441		
	Total Quantity						23.687 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						23.687 sqm		
	Say 23.687 sqm @ Rs 102.75 / sqm						<b>Rs 2433.84</b>		
29	17.3.1 Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid								
		1	2.000				2.000		
	Total Quantity						2.000 each		
	Total Deducted Quantity						0.000 each		
	Net Total Quantity						2.000 each		
	Say 2.000 each @ Rs 6020.57 / each						<b>Rs 12041.14</b>		
30	17.7.3 Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps								
		1	2.000				2.000		

		Total Quantity						2.000	each
		Total Deducted Quantity						0.000	each
		Net Total Quantity						2.000	each
		Say 2.000 each @ Rs 2746.10 / each						<b>Rs 5492.20</b>	
31	50.18.7.2.2	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer -in-Charge 20 mm dia 10 Kg/cm <sup>2</sup> - Internal work - Exposed on wall							
		1	50.000				50.000		
		Total Quantity						50.000	metre
		Total Deducted Quantity						0.000	metre
		Net Total Quantity						50.000	metre
		Say 50.000 metre @ Rs 169.07 / metre						<b>Rs 8453.50</b>	
32	50.18.7.4.1	Providing and fixing PVC pipes, fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step PVC solvent cement and testing of joints complete as per direction of Engineer-in-Charge 32 mm dia 10Kg/cm <sup>2</sup> - Internal work - Exposed on wall							
		1	50.000				50.000		
		Total Quantity						50.000	metre
		Total Deducted Quantity						0.000	metre
		Net Total Quantity						50.000	metre
		Say 50.000 metre @ Rs 234.11 / metre						<b>Rs 11705.50</b>	
33	50.18.9.22.4	Providing and fixing PVC moulded fittings/ accessories for Rigid PVC pipes, including jointing with PVC solvent cement- 110 mm dia Bend							
		1	15.000				15.000		
		Total Quantity						15.000	no
		Total Deducted Quantity						0.000	no
		Net Total Quantity						15.000	no
		Say 15.000 no @ Rs 154.09 / no						<b>Rs 2311.35</b>	
34	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank :ISI 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.							
		1	1000.000				1000.000		
		Total Quantity						1000.000	Litre

							Total Deducted Quantity	0.000 Litre	
							Net Total Quantity	1000.000 Litre	
							Say 1000.000 Litre @ Rs 9.50 / Litre	<b>Rs 9500.00</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>5 Appendix E- Electrical works</b>									
1	90.14.1.2 Fabrication, supply, conveyance, installation testing and commissioning of floor or wall mounting, dust and vermin proof, cubicle type MV panel board comprising of the following components/ devices & complying to IS 8623. Fabrication of fully partitioned, dust and vermin proof enclosure for panel assembly as per form 4 of IS 8623 (with latest amendments) using CRCA sheet as per approved design and requirement, with front and rear access facility, bus bar chambers, hinged doors for all switch gear compartments, earthing the doors using 4 sq mm braided copper conductor, providing necessary cut-outs for mounting meters, relays, indication lamps, bus bar interconnection etc, detachable covers for bus bar chamber and cable alley, powder coating the assembly after subjecting to 7 tank process etc as required. CRCA sheet alone be used for the fabrication. Angles/ flats/ slotted angles etc shall not be used for the fabrication of panel assembly. The measurments will be taken the area of the complete sheets used for panel board including partitions, folding, shrouding etc. Supply and fabrication of MV panel board using 1.6mm CRCA sheet, powder coated (excluding base frame)								
	90.14.1.2	8.5					8.500		
							Total Quantity	8.500 sqm	
							Total Deducted Quantity	0.000 sqm	
							Net Total Quantity	8.500 sqm	
							Say 8.500 sqm @ Rs 2377.26 / sqm	<b>Rs 20206.71</b>	
2	90.14.4 Supply and fabrication conveyance and installation of base frame of panel board using 75 x 40 mm rolled steel channel (ISMC)								
	90.14.4	4					4.000		
							Total Quantity	4.000 metre	
							Total Deducted Quantity	0.000 metre	
							Net Total Quantity	4.000 metre	
							Say 4.000 metre @ Rs 953.58 / metre	<b>Rs 3814.32</b>	
3	90.14.10.11 Supply, conveyance and fixing the following types & current rated control gears & switchgears conforming to IS 13947 suitable for 440 V, 50 Hz, AC supply in the existing panel assembly as required.125A, 35/36 kA (Ics=100%Icu), 4 pole, current limiting type MCCB with microprocessor based release with overload setting of 50 - 100% having adjustable OL & SC								
	90.14.10.11	2					2.000		
							Total Quantity	2.000 no	

	Total Deducted Quantity							0.000 no
	Net Total Quantity							2.000 no
	Say 2.000 no @ Rs 17713.50 / no							<b>Rs 35427.00</b>
4	2.10.5 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Triple pole and neutral							
	2.10.5	7					7.000	
	Total Quantity							7.000 each
	Total Deducted Quantity							0.000 each
	Net Total Quantity							7.000 each
	Say 7.000 each @ Rs 1167.74 / each							<b>Rs 8174.18</b>
5	90.14.11.17 MCCB Accessories Supply and fixing kastel interlock kit up to 250A.							
	90.14.11.17	2					2.000	
	Total Quantity							2.000 no
	Total Deducted Quantity							0.000 no
	Net Total Quantity							2.000 no
	Say 2.000 no @ Rs 3020.65 / no							<b>Rs 6041.30</b>
6	90.14.11.2 MCCB Accessories Supply and fixing one number earth fault Relay up to 125A to 200A with CBCT.							
	90.14.11.2	1					1.000	
	Total Quantity							1.000 no
	Total Deducted Quantity							0.000 no
	Net Total Quantity							1.000 no
	Say 1.000 no @ Rs 3503.52 / no							<b>Rs 3503.52</b>
7	90.14.11.5 MCCB Accessories Supply and fixing 100 - 200A earth fault module of MCCB with builtin CBCT.							
	90.14.11.5	1					1.000	
	Total Quantity							1.000 no
	Total Deducted Quantity							0.000 no
	Net Total Quantity							1.000 no
	Say 1.000 no @ Rs 4685.52 / no							<b>Rs 4685.52</b>
8	90.14.2.2 Supply and providing 3mm SMC sheet as shrouding for bus interconnection / terminations etc. including							



	required nut & bolt etc.							
	90.14.2.2	0.75					0.750	
	Total Quantity						0.750 sqm	
	Total Deducted Quantity						0.000 sqm	
	Net Total Quantity						0.750 sqm	
	Say 0.750 sqm @ Rs 3932.69 / sqm						<b>Rs 2949.52</b>	
9	90.14.3.3 Supply and providing heavy duty 'A' section neoprene gasket in the panel board Supply and providing 'U' section PVC beeding in the panel board							
	90.14.3.3	20					20.000	
	Total Quantity						20.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						20.000 metre	
	Say 20.000 metre @ Rs 4.31 / metre						<b>Rs 86.20</b>	
10	90.14.6 Supply and providing copper bus bars including finger type SMC bus bar supports in the bus chamber, suitable size nut & bolt, providing heat shrink sleeves etc. as required.							
	90.14.6	600					600.000	
	Total Quantity						600.000 Cum cm	
	Total Deducted Quantity						0.000 Cum cm	
	Net Total Quantity						600.000 Cum cm	
	Say 600.000 Cum cm @ Rs 6.00 / Cum cm						<b>Rs 3600.00</b>	
11	90.14.7 Supply and providing copper earth bus in the panel board							
	90.14.7	500					500.000	
	Total Quantity						500.000 Cum cm	
	Total Deducted Quantity						0.000 Cum cm	
	Net Total Quantity						500.000 Cum cm	
	Say 500.000 Cum cm @ Rs 6.00 / Cum cm						<b>Rs 3000.00</b>	
12	od128845/2019_2020 Supply and installation of LED indicator (R,Y,B) in the existing panel board and giving connection							
	od128845/2019_2020	3					3.000	
	Total Quantity						3.000 Day	
	Total Deducted Quantity						0.000 Day	
	Net Total Quantity						3.000 Day	

	Say 3.000 Day @ Rs 194.23 / Day						<b>Rs 582.69</b>	
13	od128846/2019_2020 Supply and installation of digital multi function meter (V,A,F) in the existing panel board and giving connection							
	od128846/2019_202	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 1797.32 / each						<b>Rs 1797.32</b>	
14	od128848/2019_2020 Supply and installation of 2A 'C' curve SP MCB in the existing panel board and giving connection.							
	od128848/2019_2020	3					3.000	
	Total Quantity						3.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						3.000 each	
	Say 3.000 each @ Rs 228.57 / each						<b>Rs 685.71</b>	
15	90.11.1.10 Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required4 way (8+12) - three phase double cover (IP 42/43)							
	90.11.1.10	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 2759.17 / each						<b>Rs 2759.17</b>	
16	2.10.1 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.Single pole							
	2.10.1	8					8.000	
	Total Quantity						8.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						8.000 each	
	Say 8.000 each @ Rs 226.73 / each						<b>Rs 1813.84</b>	

17	2.13.1 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps						
	2.13.1	1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 874.17 / each						<b>Rs 874.17</b>
18	2.15.2 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps						
	2.15.2	1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 2792.89 / each						<b>Rs 2792.89</b>
19	90.12.7.40 Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages , colour washing etc. as required.4 core 10 sq mm with factory made clamp						
	90.12.7.40	500					500.000
	Total Quantity						500.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						500.000 metre
	Say 500.000 metre @ Rs 227.32 / metre						<b>Rs 113660.00</b>
20	90.12.7.28 Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages , colour washing etc. as required.3.5 core 35 sq mm with factory made clamp						
	90.12.7.28	50					50.000
	Total Quantity						50.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						50.000 metre
	Say 50.000 metre @ Rs 363.45 / metre						<b>Rs 18172.50</b>

21	9.1.21	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.3 1/2X 35 sq. mm (32mm)					
	9.1.21	4					4.000
	Total Quantity						4.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						4.000 set
	Say 4.000 set @ Rs 369.59 / set						<b>Rs 1478.36</b>
22	9.1.32	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.4 X 10 sq. mm (25mm)					
	9.1.32	30					30.000
	Total Quantity						30.000 set
	Total Deducted Quantity						0.000 set
	Net Total Quantity						30.000 set
	Say 30.000 set @ Rs 266.05 / set						<b>Rs 7981.50</b>
23	4.1.2	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.150 mm width X 50 mm depth X 1.6 mm thickness					
	4.1.2	50					50.000
	Total Quantity						50.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						50.000 metre
	Say 50.000 metre @ Rs 515.07 / metre						<b>Rs 25753.50</b>
24	4.1.3	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.225 mm width X 50 mm depth X 1.6 mm thickness					
	4.1.3	50					50.000
	Total Quantity						50.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						50.000 metre

	Say 50.000 metre @ Rs 602.88 / metre						<b>Rs 30144.00</b>	
25	5.3 Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. (but without charcoal/ coke and salt ) as required.							
	5.3	5					5.000	
	Total Quantity						5.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						5.000 set	
	Say 5.000 set @ Rs 4695.88 / set						<b>Rs 23479.40</b>	
26	5.13 Providing and laying earth connection from earth electrode with 4.00 mm dia copper wire in 15mm dia G.I. pipe from earth electrode including connection with copper thimble excavation and re-filling as required.							
	5.13	30					30.000	
	Total Quantity						30.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						30.000 metre	
	Say 30.000 metre @ Rs 238.53 / metre						<b>Rs 7155.90</b>	
27	5.17 Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.							
	5.17	30					30.000	
	Total Quantity						30.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						30.000 metre	
	Say 30.000 metre @ Rs 114.02 / metre						<b>Rs 3420.60</b>	
28	od128883/2019_2020 Supply and fixing 100A TPN SDF in sheet steel enclosure on wall using suitable steel fastners.							
	od128883/2019_2020	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 5430.36 / each						<b>Rs 5430.36</b>	
29	od128886/2019_2020 100A HRC fuse fuse base with fuse link 							

	od128886/2019_2020	3					3.000	
	Total Quantity						3.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						3.000 each	
	Say 3.000 each @ Rs 548.41 / each						<b>Rs 1645.23</b>	
30	od128905/2019_2020 100 A, 415 V, 2 way neutral link mounted on DMC/ SMC base.							
	od128905/2019_2020	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 343.98 / each						<b>Rs 343.98</b>	
31	od128913/2019_2020 Supply & installation of dust and vermin proof, 3 Phase Syntex Meter Board GS-MB-6535(size 760x450x260x) and to fix KSEB meters, fuse units, CT etc as required including fixing it on wall, making good the damages colour washing etc. as required.							
	od128913/2019_2020	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 4814.18 / each						<b>Rs 4814.18</b>	
32	od128948/2019_2020 Supply, conveyance, installation, testing and commissioning of 40KVA/32KW D.G. set incorporating "CUMINS" Model X3.TAA-G2 Diesel Engine developing 56BHP at 1500rpm, Water cooled, 4cylinders, Coupled, ALternator rated at 32kw/40KVA, 415V, 50Hz, 0.8 P, mounted on a chanel iron base frame complete with fuel tank, Battery, Manuel control panel and other standard accessories with suitable CPCB approved factory assembled Acoustic enclosure.  							
	od128948/2019_2020	1					1.000	
	Total Quantity						1.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 618843.75 / each						<b>Rs 618843.75</b>	
33	od128952/2019_2020 Supply and providing following sizes of 'B' Class MS pipe with specials and flanged coupling in each full length of pipe, as additional exhaust piping, fixing the same firmly to the builing / structure using necessary supports, such angle iron, MS clamp etc., painting the pipe and accessories with synthetic enamel paint over a coat of zinc chromate primer etc. as required. 100 mm dia or nearest size 'B' Class							

	MS pipe						
	od128952/2019_2020	6					6.000
	Total Quantity						6.000 per metre
	Total Deducted Quantity						0.000 per metre
	Net Total Quantity						6.000 per metre
	Say 6.000 per metre @ Rs 1169.65 / per metre						<b>Rs 7017.90</b>
34	5.15 Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.						
	5.15	100					100.000
	Total Quantity						100.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						100.000 metre
	Say 100.000 metre @ Rs 169.07 / metre						<b>Rs 16907.00</b>
35	od128964/2019_2020 Supply and providing 9 Litre capacity GI Fire Bucket painted in post office red with primer coat of red oxide and written with white paint 'FIRE' mounted on MS angle frame work/ wall bracket filled with fine sand, painting the bracket/ floor stand including making good the damages, colour washing etc. as required						
	od128964/2019_2020	2					2.000
	Total Quantity						2.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						2.000 each
	Say 2.000 each @ Rs 181.19 / each						<b>Rs 362.38</b>
36	od128974/2019_2020 Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixing it to wall as required						
	od128974/2019_2020	2					2.000
	Total Quantity						2.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						2.000 each
	Say 2.000 each @ Rs 2727.80 / each						<b>Rs 5455.60</b>
37	od129038/2019_2020 Supply, installation, testing and commissioning of Solar LED lighting System with following accessories. (a) luminaire :- 1No 45W LED IP 65 street light luminaire with epoxy powder coated pressure die cast alu. housing with weather proof gasket and heat resistant toughened glass cover, 100ah lithium battery, 250W solar panel, battery box, charge controller with auto switch built in for dusk to dawn operation						

	having protection against short circuit & lightning with mounting bracket suitable to fix on tubular pole						
	od129038/2019_2020	2					2.000
	Total Quantity						2.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						2.000 each
	Say 2.000 each @ Rs 54087.63 / each						<b>Rs 108175.26</b>
38	90.15.3.5 Supply installation testing and commissioning of Octogaonal Pole made of hot dip galvanised GI sheet 70 mm top diameter, 130 mm bottom diameter thickness 3mm base plate dimensions of 200x200x12 mm suitable for wind speed as per IS 875 Part III single arm bracket 0.5mt including connector foundation bolt 4 nos fixed in existing RCC foundation and junction box etc. complete 7 Meters						
	90.15.3.5	8					8.000
	Total Quantity						8.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						8.000 each
	Say 8.000 each @ Rs 23200.70 / each						<b>Rs 185605.60</b>
39	90.15.3.9 Supply installation testing and commissioning of Octogaonal Pole made of hot dip galvanised GI sheet 70 mm top diameter, 155 mm bottom diameter thickness 3mm base plate dimensions of 250x250x16 mm suitable for wind speed as per IS 875 Part III single arm bracket 0.5mt including connector foundation bolt 4 nos fixed in existing RCC foundation and junction box etc, complete 9 Meters						
	90.15.3.9	2					2.000
	Total Quantity						2.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						2.000 each
	Say 2.000 each @ Rs 33075.70 / each						<b>Rs 66151.40</b>
40	90.15.4.2 Supply Conveyance, installation, testing and commissioning of 36/40W LED street light output greater than 105lumen/W 4000-6000 K with IP 66 protection LED Chip make Cree/Lumilled/Nichea with power factor greater than 0.95 at full load, internal surge protection up to 8 KV, and Aluminium pressure die-cast Powder coated housing, acrylic cover complete with THD less than 10%, power factor greater than 0.98, RoHS compliant, duly wired up for use on 230 V AC supply. Driver compartment should be seperatly accessible for maintenance (LM 79&80 certificates from NABL accredited Third party lab to be produced mentioning chip manufacturer)						
	90.15.4.2	8					8.000
	Total Quantity						8.000 each
	Total Deducted Quantity						0.000 each



	Net Total Quantity						8.000 each
	Say 8.000 each @ Rs 4519.17 / each						<b>Rs 36153.36</b>
41	1.10.3 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVCinsulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSPVC insulated copper conductor single core cable etc as required.Group C						
	1.10.3	5					5.000
	Total Quantity						5.000 point
	Total Deducted Quantity						0.000 point
	Net Total Quantity						5.000 point
	Say 5.000 point @ Rs 992.12 / point						<b>Rs 4960.60</b>
42	1.14.1 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required2x1.5 sq.mm + 1x1.5 sq.mm earth wire						
	1.14.1	10					10.000
	Total Quantity						10.000 metre
	Total Deducted Quantity						0.000 metre
	Net Total Quantity						10.000 metre
	Say 10.000 metre @ Rs 146.79 / metre						<b>Rs 1467.90</b>
43	1.31 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or inrecess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 ampsmodular switch, connection etc. as required. (For light plugs to be used in non residentialbuildings).						
	1.31	1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each
	Net Total Quantity						1.000 each
	Say 1.000 each @ Rs 410.22 / each						<b>Rs 410.22</b>
44	1.32 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.						
	1.32	1					1.000
	Total Quantity						1.000 each
	Total Deducted Quantity						0.000 each

	Net Total Quantity						1.000 each	
	Say 1.000 each @ Rs 532.10 / each						<b>Rs 532.10</b>	
45	1.12 Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.							
	1.12	10					10.000	
	Total Quantity						10.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						10.000 metre	
	Say 10.000 metre @ Rs 220.18 / metre						<b>Rs 2201.80</b>	
46	90.3.19.3 Supply conveyance, installation, testing and commissioning the light fittings of following types made from CRCA sheet 0.5mm thickness with all accessories and lamps directly on wall and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required 1200 mm 1X20W LED Lamp with box type fixture							
	90.3.19.3	5					5.000	
	Total Quantity						5.000 each	
	Total Deducted Quantity						0.000 each	
	Net Total Quantity						5.000 each	
	Say 5.000 each @ Rs 1174.12 / each						<b>Rs 5870.60</b>	
47	od129321/2019_2020 Supply and providing 2.5mm thick, 11KV grade, synthetic elastometric fire retardant insulating sheet							
	od129321/2019_2020	2					2.000	
	Total Quantity						2.000 sqm of door area	
	Total Deducted Quantity						0.000 sqm of door area	
	Net Total Quantity						2.000 sqm of door area	
	Say 2.000 sqm of door area @ Rs 1669.07 / sqm of door area						<b>Rs 3338.14</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>6 Appendix F- Mechanical Works- Fabrication ,Supply &amp; erection of MS and SS embedded parts(SS304 L Grade) for 6 Nos. of regulator shutters</b>								
1	85.101 Supply of MS plates conforming to IS 2062GrB including cost of conveyance charges							
	(12x5) 6 nos secondary embedded parts							

	Wheel Track- Web	2*6	10.450	0.200	0.025	7850.0	4921.950		
	Wheel Track- Flange	4*6	10.450	0.200	0.025	7850.0	9843.900		
	Wheel track web stiffener	40*6	0.200	0.087	0.010	7850.0	327.816		
	Guide track web	2*6	10.450	0.120	0.020	7850.0	2362.536		
	Suide guide flange	42*6	0.150	0.100	0.010	7850.0	296.730		
	Sill beam - web stiffener	24*6	0.225	0.060	0.008	7850.0	122.084		
	Stiffener supporting seal seat on sill beam	2*6	0.229	0.145	0.008	7850.0	25.024		
	Base for vertical seal seat on sill beam	2*6	0.140	0.900	0.008	7850.0	94.954		
	Connecting plate on sill beam with vertical seal track	2*6	0.120	0.160	0.008	7850.0	14.470		
	Stiffener support for connecting plate with vertical seal track	2*6	0.237	0.180	0.008	7850.0	32.149		
	Sill beam - alignment plate	26*6	0.300	0.100	0.010	7850.0	367.380		
	Vertical seal track base	42*6	0.470	0.100	0.008	7850.0	743.804		
	Dogging beam anchoring plate	4*6	0.300	0.300	0.016	7850.0	271.296		
	(12x5) 6 nos primary embedded parts								
	Anchoring plate - primary - sill beam	26*6	0.300	0.100	0.010	7850.0	367.380		
	Anchoring plate - wheel track	42*6	0.200	0.100	0.010	7850.0	395.641		
	Anchoring plate - wheel track (side)	20*6	0.100	0.100	0.010	7850.0	94.201		
	Anchoring plate - seal track	84*6	0.100	0.100	0.010	7850.0	395.641		
	Anchoring plate - side guide	42*6	0.100	0.150	0.010	7850.0	296.730		
	Embedded parts for dogging beam								
	Base plate	4	0.400	0.400	0.012	7850.0	60.289		
	Total Quantity						21033.975 kg		

	Total Deducted Quantity							0.000 kg
	Net Total Quantity							21033.975 kg
	Say 21033.975 kg @ Rs 64.18 / kg							<b>Rs 1349960.52</b>
2	85.107 Supply of MS round bar including cost of conveyance charges							
	Em parts							
	Anchoring rod - primary - wheel track, ISRO 16	42*2*6	0.310			1.58	246.547	
	Anchoring rod - primary - wheel track (side), ISRO 16	20*6	0.310			1.58	58.702	
	Anchoring rod - primary - guide track, ISRO 16	42*2*6	0.310			1.58	246.547	
	Anchoring rod - primary - sill beam, ISRO 16	26*2*6	0.310			1.58	152.625	
	Anchoring rod - primary - dogging beam ISRO 16	42*2*6	0.310			1.58	246.547	
	Anchoring rod - primary - dogging beam ISRO 16	16*6	0.350			1.58	53.021	
	Total Quantity							1003.989 kg
	Total Deducted Quantity							0.000 kg
	Net Total Quantity							1003.989 kg
	Say 1003.989 kg @ Rs 64.18 / kg							<b>Rs 64436.01</b>
3	od137503/2019_2020 Supply of MS Bolts and Nuts							
	nut and two washers							
	Roller Track M16 - 155 LG Bolt	84*6				0.03	15.624	
	Wheel Track (side) M16 - 115LG Bolt	20*6				0.03	3.720	
	Guide track M16 - 110 LG bolt	84*6				0.03	15.624	

	Vertical seal track 1 M16 - 125 LG bolt	42*6				0.03	7.812		
	Vertical seal track 2 M16 - 315 LG bolt	42*6				0.03	7.812		
	Sill beam M16 - 170 LG bolt	52*6				0.03	9.672		
	Bolt for connecting plate on sill beam with seal track M16 x 55 LG	4*6				0.03	0.744		
	Bolt								
	Roller track M16 - 155 LG bolt	84*6	0.155			1.58	123.430		
	Wheel track (side) M16 - 115 LG bolt	20*6	0.115			1.58	21.805		
	Guide track M16 - 110 LG Bolt	84*6	0.110			1.58	87.596		
	Vertical seal track 1 M16 - 125 LG bolt	42*6	0.125			1.58	49.770		
	Vertical seal track 2 M16 - 315 LG bolt	42*6	0.315			1.58	125.421		
	Sill beam M16 - 170 LG bolt	52*6	0.170			1.58	83.804		
	Bolt for connecting plate on sill beam with seal track M16x55LG	4*6	0.0550			1.58	2.086		
	Total Quantity						554.920 quintal		
	Total Deducted Quantity						0.000 quintal		
	Net Total Quantity						554.920 quintal		
	Say 554.920 quintal @ Rs 77.64 / quintal						<b>Rs 43083.99</b>		
4	85.102 Supply of MS Tees, Angles, Joists, ISMB, ISMC confirming to IS2062GrA/B including cost of conveyance charges								
	Supply of MS Tees, Angles, Joists, ISMB, ISMC confirming to IS202GrA/B including cost of conveyance charges								
	Sill beam ISMB 250x125	1*6	12.900			37.3	2887.020		

	ISA on connecting plate, 80x80x8 - sill beam	2*6	0.150			9.6	17.280		
	Angle pieces for side alignment bolt for wheel track web ISA 130x130x10	20*6	0.080			6.8	65.280		
	Vertical wheel seat, ISA 130x130x10	2*6	10.450			19.7	2470.380		
	Dogging beam, ISMB 250	4*2	1.300			37.3	387.920		
	Total Quantity						5827.880 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						5827.880 kg		
	Say 5827.880 kg @ Rs 66.13 / kg						<b>Rs 385397.70</b>		
5	85.108 Fabrication, erection and commissioning of Structural steel Embedded parts in IS2062 Grade and accessories as per approved specifications, drawings and directions of deptl officer at site including cost of labour , machinery , incidental and handling charges etc complete but excluding cost of material already supplied								
	MS plates	21033.975					21033.975		
	MS round	1005.263					1005.263		
	Bolts and nuts	554.92					554.920		
	Sections	5827.88					5827.880		
	Total Quantity						28422.038 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						28422.038 kg		
	Say 28422.038 kg @ Rs 75.59 / kg						<b>Rs 2148421.85</b>		
6	od138589/2019_2020 Fabrication, supply, erection and assembling of wheel track, sill seat and seal track in correct position and alignment by welding SS embedded parts in 304L Grade as per approved specifications, drawings and directions of deptl officer at site including cost of all materials, labour, welding, shearing, grinding etc, lead and lift, conveyance, incidental and handling etc complete. Rate analysis SS embedded parts 2.6Qtl								
	EM parts SS								
	Strap for vertical seal track - SS	2*6	10.350	0.080	0.008	7850.0	623.981		
	Strap for wheel track	2*6	10.350	0.150	0.012	7850.0	1754.947		

	SS strap for sill beam	1*6	12.800	0.140	0.008	7850.0	675.226		
	Strap for side seal seat with sill beam	2*6	0.090	0.150	0.008	7850.0	10.174		
	Total Quantity						3064.328 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						3064.328 kg		
	Say 3064.328 kg @ Rs 488.03 / kg						<b>Rs 1495483.99</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>7 F1 - Supply of materials, fabrication, painting and erection of MS regulator shutter</b>									
1	85.101 Supply of MS plates confirming to IS 2062GrB including cost of conveyance charges								
	MS plates for type I shutter (12x5)								
	Skin plate botom	1*6	12.700	2.000	0.012	7850.0	14356.081	1/303	
	Skin plate top	1*6	12.700	3.150	0.012	7850.0	22610.826	2/303	
	End box bottom	4*6	2.000	0.510	0.012	7850.0	2306.016	3/303	
	End box top	4*6	3.150	0.510	0.012	7850.0	3631.976	4/303	
	Full depth vertical stiffener web 1	3*6	1.019	1.212	0.010	7850.0	1745.095	21/303	
	Full depth vertical stiffener web 2	3*6	1.490	1.212	0.010	7850.0	2551.709	22/303	
	Full depth vertical stiffener web 3 (below lifting arrangement)	2*6	1.480	1.212	0.010	7850.0	1689.722	22a/303	
	Full depth vertical stiffener web 4,5	10*6	0.510	1.212	0.010	7850.0	2911.346	23,24/303	
	Full depth vertical stiffener web 6	5*6	0.960	1.212	0.010	7850.0	2740.090	25/303	
	Full depth vertical stiffener web 7	5*6	0.420	1.212	0.010	7850.0	1198.790	26/303	
	Full depth vertical stiffener flange 1	3*6	1.400	0.160	0.010	7850.0	316.512	33/303	
	Full depth vertical stiffener flange 2	5*6	1.300	0.160	0.010	7850.0	489.841	34/303	
	Full depth vertical stiffener flange 3	5*6	0.415	0.160	0.010	7850.0	156.372	35/303	
	Full depth vertical stiffener flange 4	5*6	0.390	0.160	0.010	7850.0	146.953	36/303	

	Full depth vertical stiffener flange 5	5*6	0.645	0.160	0.010	7850.0	243.036	37/303
	Vertical stiffener 1	26*6	1.019	0.150	0.010	7850.0	1871.802	27/303
	Vertical stiffener 2	26*6	1.490	0.150	0.010	7850.0	2736.981	28/303
	Vertical stiffener 3,4	52*6	0.510	0.150	0.010	7850.0	1873.638	29,30/303
	Vertical stiffener 5	26*6	0.960	0.150	0.010	7850.0	1763.424	31/303
	Vertical stiffener 6	26*6	0.420	0.150	0.010	7850.0	771.498	32/303
	Horizontal girder web	4*6	12.326	1.200	0.010	7850.0	27866.621	14/303
	Horizontal girder flange on skin plate	4*6	12.326	0.150	0.012	7850.0	4179.994	13/303
	Horizontal girder flange bottom outside	2*6	12.820	0.250	0.016	7850.0	4830.576	15/303
	Horizontal girder flange top outside	2*6	12.820	0.200	0.016	7850.0	3864.461	13/303
	Horizontal girder web stiffener bottom 1	4*6	1.062	0.190	0.010	7850.0	380.154	18/303
	Horizontal girder web stiffener bottom 2	8*6	1.062	0.115	0.010	7850.0	460.186	19/303
	Horizontal girder web stiffener top	16*6	1.062	0.090	0.010	7850.0	720.291	20/303
	Seal clamp (bottom)	1*6	11.762	0.080	0.010	7850.0	443.193	55/303
	seal support (bottom)	1*6	11.762	0.020	0.020	7850.0	221.597	56/303
	Vertical seal base (for L type seal)	2*6	5.070	0.105	0.020	7850.0	1002.948	53/303
	Vertical seal base on bottom seal end	2*6	0.090	0.105	0.006	7850.0	5.342	54/303
	End box stiffener	24*6	0.510	0.150	0.010	7850.0	864.757	5/303
	End box stiffener at roller	8*6	0.200	0.150	0.010	7850.0	113.040	6/303
	Pad plate for roller (two sides)	16*6	0.170	0.180	0.010	7850.0	230.602	7,9/303
	Lock plate for roller	8*6	0.170	0.080	0.010	7850.0	51.245	10/303
	Round lock plate Dia 150x20mm thk	8*6				2.77	133.104	8/303
	Lifting leg	4*6	0.350	0.875	0.020	7850.0	1153.950	17/320
	Lifting leg stiffener plate	4*6	0.560	0.150	0.010	7850.0	158.256	18/320



	Pad plate for lifting arrangement	12*6	0.200	0.200	0.010	7850.0	226.081	8/320
	Lock plate for lifting arrangement	24*6	0.120	0.050	0.010	7850.0	67.824	9/320
	Spacer for pulley shaft OD-200, ID-91-8 THK	8*6	0.200	0.200	0.008	7850.0	120.577	15/320
	Spacer plate for lifting leg shaft	4*6	0.090	0.040	0.010	27.11	0.024	16/320
	Lifting bracket shaft 90 Dia 240L	2*6	0.240			49.91	143.741	13/320
	Pulley shaft 90 Dia 212L	4*6	0.212			49.91	253.943	11/320
	Diaphragm plate	2*6	0.850	0.650	0.010	7850.0	520.455	19/320
	Plate for lifting bracket	4*6	1.590	0.800	0.016	7850.0	3834.317	1/320
	Gusset plate for lifting bracket upper 1	2*6	0.300	0.110	0.012	7850.0	37.304	3/320
	Gusset plate for lifting bracket upper 2	2*6	0.250	0.110	0.012	7850.0	31.086	4/320
	Gusset plate for lifting bracket bottom 1	4*6	0.130	0.200	0.012	7850.0	58.781	5/320
	Gusset plate for lifting bracket bottom 2	4*6	0.100	0.110	0.012	7850.0	24.869	6/320
	Plate for rope guard	4*6	0.110	0.925	0.008	7850.0	153.358	7/320
	Cover plate for lifting bracket	4*6	0.150	0.440	0.010	7850.0	124.344	2/320
	Splice plate for connecting upper and lower leaves of shutter U/S	2*6	12.200	0.160	0.010	7850.0	1838.784	303/41
	Splice plate (Full depth vertical stiffener flange)	5*6	0.160	0.4500	0.010	7850.0	169.560	303/45
	Splice plate (end box)	4*6	0.480	0.160	0.010	7850.0	144.692	303/43
	Side guide base	4*6	0.200	0.200	0.012	7850.0	90.433	59/303
	Side guide - guiding plate	8*6	0.070	0.2100	0.010	7850.0	55.390	60/303
	Side guide round	4*6	0.116	0.030	0.046	7850.0	30.160	61/303
	Guide on skin plate	4*6	0.150	0.040	0.040	7850.0	45.216	63/303

	Dogging beam 1	4*6	1.450	0.120	0.016	7850.0	524.506	3/305
	Dogging beam 2	4*6	1.450	0.200	0.016	7850.0	874.176	4/305
	Dogging beam 3	4*6	0.100	0.220	0.016	7850.0	66.317	5/305
	Dogging beam stiffener	12*6	0.0880	0.200	0.012	7850.0	119.371	6/306
MS Plates for type I shutter (12x5) deduction								
	Horizontal girder web	4*6	1.726	0.723	0.010	7850.0	-2351.039	Deduction from 14/303
Total Quantity							122347.334 kg	
Total Deducted Quantity							-2351.039 kg	
Net Total Quantity							119996.295 kg	
Say 119996.295 kg @ Rs 64.18 / kg							<b>Rs 7701362.21</b>	
2	85.102 Supply of MS Tees, Angles, Joists, ISMB, ISMC confirming to IS2062GrA/B including cost of conveyance charges							
6 Nos of shutters of size 12x5 height								
	Bracing angle bottom ISA 75x75x10	4*6	0.960			11.0	253.440	40/303
	Bracing angle top ISA 75x75x10	4*6	1.490			11.0	393.360	39/303
	Inclined bracing angle - ISA 75x75x10	4*6	1.400			11.0	369.600	38/303
	Top horizontal support on skin plate ISMC 150x75x10	1*6	12.326			16.4	1212.879	17/303
	Vertical seal clamp ISA 75x75x8	2*6	5.150			8.9	550.021	52/303
	Dogging beam support ISA 75x75x8	8*6	0.232			8.9	99.111	9/305
	Dogging beam handle 16mm dia rod	4*6	0.305			1.58	11.551	7/305
Total Quantity							2889.962 kg	
Total Deducted Quantity							0.000 kg	
Net Total Quantity							2889.962 kg	
Say 2889.962 kg @ Rs 66.13 / kg							<b>Rs 191113.19</b>	
3	85.110							

	Fabrication and supply of Structural steel wheel gate and accessories as per approved specifications, drawings and directions of deptl officer at site including cost of labour, machinery, all leads and lifts, incidental and handling charges etc complete but excluding cost of material already supplied						
	MS plates	119996.29 5					119996.29 5
	MS sections	2889.962					2889.962
	Total Quantity						122886.257 kg
	Total Deducted Quantity						0.000 kg
	Net Total Quantity						122886.257 kg
	Say 122886.257 kg @ Rs 62.86 / kg						<b>Rs 7724630.12</b>
4	85.112 Painting all the exposed surfaces of the gate and embedded parts with two coats of epoxy coal tar black paint confirming to IS14948 with a minimum film thickness of 150+/-5 microns per each coat over two coats of priming coat applied with zinc primer containing not less than 85% of zinc dry film with a film thickness of 70+/-5 microns , so that the total film thickness of all coats including priming coat at any rate is not less than 350microns over the grit blasted and cleaned surface to class A standard of IS 14177 including cost of all materials , labour charges , cost of testing all painting materials, all incidental charges, hire of T&P etc complete as per the direction of departmental officer at site						
	MS plates for type I shutter (12x5) deduction						
	Horizontal girder web	4*6	1.726	0.723		2.0	-59.899 Deduction from 14/303
	MS plates for type I shutter (12x5)						
	Skin plate bottom	1*6	12.700	2.000		2.0	304.800 1/303
	Skin plate top	1*6	12.700	3.150		2.0	480.060 2/303
	End box bottom	4*6	2.000	0.510		2.0	48.960 3/303
	End box top	4*6	3.150	0.510		2.0	77.112 4/303
	Full depth vertical stiffener web 1	3*6	1.019	1.212		2.0	44.462 21/303
	Full depth vertical stiffener web 2	3*6	1.490	1.212		2.0	65.012 22/303
	Full depth vertical stiffener web 3 (below lifting arrangement)	2*6	1.480	1.212		2.0	43.051 22a/303
	Full depth vertical stiffener web 4,5	10*6	0.510	1.212		2.0	74.175 23,24/303
	Full depth vertical stiffener web 6	5*6	0.960	1.212		2.0	69.812 25/303

	Full depth vertical stiffener web 7	5*6	0.420	1.212		2.0	30.543	26/303
	Full depth vertical stiffener flange 1	3*6	1.400	0.160		2.0	8.064	33/303
	Full depth vertical stiffener flange 2	5*6	1.300	0.160		2.0	12.480	34/303
	Full depth vertical stiffener flange 3	5*6	0.415	0.160		2.0	3.984	35/303
	Full depth vertical stiffener flange 4	5*6	0.390	0.160		2.0	3.744	36/303
	Full depth vertical stiffener flange 5	5*6	0.645	0.160		2.0	6.192	37/303
	Vertical stiffener 1	26*6	1.019	0.150		2.0	47.690	27/303
	Vertical stiffener 2	26*6	1.490	0.150		2.0	69.732	28/303
	Vertical stiffener 3,4	52*6	0.510	0.150		2.0	47.736	29,30/303
	Vertical stiffener 5	26*6	0.960	0.150		2.0	44.928	31/303
	Vertical stiffener 6	26*6	0.420	0.150		2.0	19.656	32/303
	Horizontal girder web	4*6	12.326	1.200		2.0	709.978	14/303
	Horizontal girder flange on skin plate	4*6	12.326	0.150		2.0	88.748	13/303
	Horizontal girder flange bottom outside	2*6	12.820	0.250		2.0	76.920	15/303
	Horizontal girder flange top outside	2*6	12.820	0.200		2.0	61.536	13/303
	Horizontal girder web stiffener bottom 1	4*6	1.062	0.190		2.0	9.686	18/303
	Horizontal girder web stiffener bottom 2	8*6	1.062	0.115		2.0	11.725	19/303
	Horizontal girder web stiffener top	16*6	1.062	0.090		2.0	18.352	20/303
	Seal clamp (bottom)	1*6	11.762	0.080		2.0	11.292	55/303
	Seal support (bottom)	1*6	11.762	0.020		2.0	2.823	56/303
	Vertical seal base (for L type seal)	2*6	5.0700	0.105		2.0	12.777	53/303
	Vertical seal base on bottom seal end	2*6	0.090	0.105		2.0	0.227	54/303
	End box stiffener	24*6	0.510	0.150		2.0	22.032	5/303

End box stiffener at roller	8*6	0.200	0.150		2.0	2.880	6/303
Pad plate for roller (two sides)	16*6	0.170	0.180		2.0	5.876	7,9/303
Lock plate for roller	8*6	0.170	0.0800		2.0	1.306	10/303
Round lock plate dia 150x20mm thk	8*6				2.0	96.000	8/303
Lifting leg	4*6	0.350	0.875		2.0	14.700	17/320
Lifting leg stiffener plate	4*6	0.560	0.150		2.0	4.032	18/320
Pad plate for lifting arrangement	12*6	0.200	0.200		2.0	5.761	8/320
Lock plate for lifting arrangement	24*6	0.120	0.050		2.0	1.728	9/320
Spacer for pulley shaft OD-200, ID-91-8 THK	8*6	0.200	0.200		2.0	3.841	15/320
Spacer plate for lifting leg shaft	4*6	0.090	0.040		2.0	0.173	16/320
Lifting bracket shaft 90 dia 240 L	2*6	0.240			2.0	5.760	13/320
Pulley shaft 90 dia 212 L	4*6	0.212			2.0	10.176	11/320
Diaphragm plate	2*6	0.850	0.650		2.0	13.260	19/320
Plate for lifting bracket	4*6	1.590	0.800		2.0	61.057	1/320
Gusset plate for lifting bracket upper 1	2*6	0.300	0.110		2.0	0.792	3/320
Gusset plate for lifting bracket upper 2	2*6	0.250	0.110		2.0	0.660	4/320
Gusset plate for lifting bracket bottom 1	4*6	0.130	0.200		2.0	1.249	5/320
Gusset plate for lifting bracket bottom 2	4*6	0.100	0.110		2.0	0.528	6/320
Plate for rope guard	4*6	0.110	0.925		2.0	4.884	7/320
Cover plate for lifting bracket	4*6	0.150	0.440		2.0	3.168	2/320

	Splice plate for connecting upper and bottom leaves of shutter U/S	2*6	12.200	0.160		2.0	46.848	303/41
	Splice plate (Full depth vertical stiffener flange)	5*6	0.160	0.4500		2.0	4.320	303/45
	Splice plate (end box)	4*6	0.480	0.160		2.0	3.687	303/43
	Side guide base	4*6	0.200	0.200		2.0	1.921	59/303
	Side guide - guiding plate	8*6	0.070	0.2100		2.0	1.412	60/303
	Side guide round	4*6	0.116	0.030		2.0	0.168	61/303
	Guide on skin plate	4*6	0.150	0.040		2.0	0.289	63/303
	Dogging beam 1	4*6	1.450	0.120		2.0	8.352	3/305
	Dogging beam 2	4*6	1.450	0.200		2.0	13.920	4/305
	Dogging beam 3	4*6	0.100	0.220		2.0	1.056	5/305
	Dogging beam stiffener	12*6	0.0880	0.200		2.0	2.535	6/306
	6 Nos of shutters of size 12x5 height							
	Bracing angle bottom ISA 75x75x10	4*6	0.960			0.3	6.912	40/303
	Bracing angle top ISA 75x75x10	4*6	1.490			0.3	10.728	39/303
	Inclined bracing angle - ISA 75x75x10	4*6	1.400			0.3	10.080	38/303
	Top horizontal support on skin plate ISMC 150x75x10	1*6	12.326			0.6	44.374	17/303
	Vertical seal clamp ISA 75x75x8	2*6	5.150			0.3	18.540	52/303
	Dogging beam support ISA 75x75x8	8*6	0.232			0.3	3.341	9/305
	Dogging beam handle 16mm dia rod	4*6	0.305			0.05	0.367	7/305
	Total Quantity						2944.970 sqm	
	Total Deducted Quantity						-59.899 sqm	
	Net Total Quantity						2885.071 sqm	

	Say 2885.071 sqm @ Rs 809.89 / sqm						<b>Rs 2336590.15</b>	
5	85.111 Erection of the gates safely in the grooves , assembling and aligning including cost of all machinery, labour all incidental and conveyance charges etc complete as per direction of departmental officer at site							
	MS plates	119996.29 5					119996.29 5	
	MS sections	2889.962					2889.962	
	Total Quantity						122886.257 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						122886.257 kg	
	Say 122886.257 kg @ Rs 6.09 / kg						<b>Rs 748377.31</b>	
6	od138692/2019_2020 Supply of SS bolts							
	Hex. bolt with washer (roller)							
	Hex. bolt with washer M16 40LG	56				0.13	7.280	11/303
	Hex. bolt with washer M16 30LG	32				0.13	4.096	12/303
	Hex. bolt with washer (splice plate assembly)							
	M16 X 40 LG HEX BOLT WITH WASHER (SS) full depth stiffener	40*6				0.13	31.201	46/303
	M16 X 65 LG HEX BOLT WITH WASHER (SS)	288*6				0.16	276.480	47,48/303
	M12 X 90 LG HEX BOLT WITH WASHER (SS)	4*6				0.13	3.000	49/303
	Hex. bolt with washer (side guide)							
	M16 X 40 LG HEX BOLT WITH WASHER	16*6				0.13	12.480	
	Hex. bolt with washer(lifting)							
	M16 40LG hexagonal bolt with nut	48*6				0.13	37.440	10/320
	Total Quantity						371.977 kg	

SI No	Description	No	L	B	D	CF	Quantity	Remark
Total Deducted Quantity							0.000 kg	
Net Total Quantity							371.977 kg	
Say 371.977 kg @ Rs 182.67 / kg							<b>Rs 67949.04</b>	
<b>8 F2 - Supplying and fixing of flat type rubber seal at the bottom side, angular type at outer vertical side.</b>								
1	85.116 Supplying and fixing in correct position with specified initial interface the flat type rubber seal confirming to IS 11855 to the gates including cost of SS bolts and nut all labour and machinery and incidental and conveyance charges complete as per approved specification and drawing							
Shutters - 6 Nos - Flat seal								
	Flat type seal	1*6	11.976				71.857	
Total Quantity							71.857 metre	
Total Deducted Quantity							0.000 metre	
Net Total Quantity							71.857 metre	
Say 71.857 metre @ Rs 1905.10 / metre							<b>Rs 136894.77</b>	
2	85.117 Supplying and fixing in correct position with specified initial interface the Angular type rubber seal confirming to IS11855 to the gates including cost of SS bolts and nuts and all labour and machinery and incidental and conveyance charges complete as per approved specifications and drawings							
Other Engineering Organisations Shutters (6 Nos ) - Angular type rubber seal								
	Angular type teflon cladded rubber seal D30x120 width	2*6	5.156				61.872	
Total Quantity							61.872 metre	
Total Deducted Quantity							0.000 metre	
Net Total Quantity							61.872 metre	
Say 61.872 metre @ Rs 2971.20 / metre							<b>Rs 183834.09</b>	
3	od138742/2019_2020 Providing rubber flap between splice plate and skin plate including cost of rubber and labour excluding SS bolt and nut							
	RUBBER 160 X 3 - 480LG	4*6	0.480				11.520	
	RUBBER 160 X 3 - 12200LG	2*6	12.200				146.400	
Total Quantity							157.920 metre	
Total Deducted Quantity							0.000 metre	
Net Total Quantity							157.920 metre	



SI No	Description	No	L	B	D	CF	Quantity	Remark
Say 157.920 metre @ Rs 638.83 / metre							<b>Rs 100884.03</b>	
<b>9 F3 - Supplying and fixing thrust roller assembly</b>								
1	od138763/2019_2020 Supplying and fixing cast steel thrust roller assembly having 300mm dia. 100mm tread width, SS(304) shaft and 22219E self aligning spherical roller bearing and accessories as per approved specifications and drawings including cost of all materials, machineries, labour, all lift and lead, incidental and conveyance charges etc complete Rate analysis for Thrust roller - 2							
	Cast steel thrust roller	8*6					48.000	
Total Quantity							48.000 no	
Total Deducted Quantity							0.000 no	
Net Total Quantity							48.000 no	
Say 48.000 no @ Rs 41486.80 / no							<b>Rs 1991366.40</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>10 F4 - Supply of materials, fabrication, painting and erection of hoisting bridge, covers and frames of driving units and rope drum for shutter</b>								
1	85.101 Supply of MS plates confirming to IS 2062GrB including cost of conveyance charges							
6 Nos of shutters of size 12 m width x 5 m height								
	Longitudinal girder web	2*6	13.990	1.000	0.010	7850.0	13178.580	2/311
	Longitudinal girder flange	4*6	13.990	0.200	0.020	7850.0	10542.864	1/311
	Foundation base plate	4*6	0.450	0.500	0.010	7850.0	423.901	3a/311
	Base plate	4*2	0.450	0.500	0.025	7850.0	353.251	3/311
	Stiffener on main girder with base plate	16*2	1.020	0.235	0.010	7850.0	602.127	4/311
	Plate on foundation rod	24*2	0.100	0.100	0.016	7850.0	60.289	6/311
	Vertical stiffener on main girder below C5	4*6	0.620	0.085	0.010	7850.0	99.287	13/311
	Vertical stiffener on main girder below C6 and C4	8*6	0.720	0.0850	0.010	7850.0	230.602	14/311
	Vertical stiffener on main girder below C7	18*6	0.820	0.0850	0.010	7850.0	590.917	15/311

Vertical stiffener on main girder below pulley cross girder	4*6	0.870	0.0850	0.010	7850.0	139.322	16/311
Vertical stiffener on main girder	34*6	1.000	0.0850	0.010	7850.0	1361.190	17/311
Supporting plate for hand rail post	24*6	0.150	0.200	0.010	7850.0	339.120	24/311
Flat on hand rail	2*6	13.9900	0.050	0.008	7850.0	527.144	27/311
Pulley bracket	4*6	1.596	0.550	0.016	7850.0	2646.041	29/311
Pad plate for pulley	8*6	0.200	0.200	0.010	7850.0	150.721	32/311
Lock plate for pulley	16*6	0.120	0.050	0.010	7850.0	45.216	31/311
Spacer OD 200, ID 92	8*6	0.200	0.200	0.008	7850.0	120.577	35/311
Base plate for worm reducer	1*6	0.400	0.450	0.010	7850.0	84.780	17/312
Stiffener plate for base plate 1 (worm reducer unit)	4*6	0.090	0.090	0.010	7850.0	15.261	18/312
Stiffener plate for base plate 2 (worm reducer unit)	2*6	0.100	0.155	0.010	7850.0	14.601	20/312
Base plate for brake unit	1*6	0.150	0.500	0.010	7850.0	35.325	21/312
Stiffener plate for brake unit base plate	4*6	0.065	0.065	0.010	7850.0	7.960	23/312
Base plate for motor	1*6	0.250	0.250	0.010	7850.0	29.438	24/312
Stiffener plate for motor base 1	4*6	0.070	0.070	0.010	7850.0	9.232	25/312
Stiffener plate for motor base 2	1*6	0.070	0.100	0.010	7850.0	3.297	27/312
Diaphragm plate (rope drum)	4*6	0.350	0.600	0.020	7850.0	791.280	13/314
Cover plate (rope drum)	4*6	0.280	0.120	0.020	7850.0	126.605	14/314
Stiffener plate - 1 (RD diaphragm)1	8*6	0.080	0.185	0.010	7850.0	55.767	11/314
Stiffener plate - 2 (RD diaphragm)2	4*6	0.080	0.130	0.010	7850.0	19.594	12/314

Spacer (RD) OD:250 ID:81 8THK	4*6	0.250	0.250	0.080	7850.0	942.000	15/314
Plummer block base plate 1	4*6	0.100	0.315	0.025	7850.0	148.365	16/314
Plummer block base plate 2	4*6	0.100	0.280	0.040	7850.0	211.008	17/314
Additional plate on RD base frame 1	2*6	0.090	1.760	0.010	7850.0	149.213	7/314
Additional plate on RD base frame 2	2*6	0.090	0.780	0.010	7850.0	66.129	8/314
Stiffener plate on RD base frame 1	10*6	0.170	0.276	0.010	7850.0	220.994	9/314
Stiffener plate on RD base frame 2	2*6	0.080	273.000	0.010	7850.0	20573.280	10/314
Drum cover body (side and top)	2*6	2.640	0.560	0.00315	7850.0	438.686	6/315
Drum cover body (side)	4*6	0.710	1.675	0.00315	7850.0	705.773	7/315
Door sheet	2*6	0.210	0.310	0.0035	7850.0	21.464	11/315
DU cover body (side) - 1	4*6	1.650	0.980	0.00315	7850.0	959.625	8/313
DU cover body (side) - 2	2*6	0.980	0.820	0.00315	7850.0	238.453	9/313
DU cover body (side) - 3	2*6	0.570	0.820	0.00315	7850.0	138.692	10/313
DU cover (Top)	2*6	0.820	1.750	0.00315	7850.0	425.808	11/313
Plate	2*6	0.150	0.150	0.005	7850.0	10.598	12/313
Plate	4*6	0.500	1.030	0.005	7850.0	485.130	13/313
Base plate for dial gauge worm reducer	1*6	0.300	0.470	0.008	7850.0	53.129	2/319
Stiffener support plate for worm reducer base 1	2*6	0.185	0.150	0.010	7850.0	26.141	4/319
Stiffener support plate for base 2	1*6	0.170	0.150	0.010	7850.0	12.011	4a/319
Shim for dial assembly	1*6	0.060	0.165	0.002	7850.0	0.933	5/319
Plummer block base plate	1*6	0.280	0.090	0.010	7850.0	11.870	6/319

	Stiffener support plate for plummer block base 1	2*6	0.100	0.090	0.010	7850.0	8.478	7/319	
	Needle	1*6	0.170	0.0400	0.00315	7850.0	1.009	10/319	
	Needle base	1*6	0.040	0.040	0.040	7850.0	3.015	10a/319	
	Plate for dial gauge	2*6	0.230	0.276	0.010	7850.0	59.799	21/319	
	Total Quantity						58515.892 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						58515.892 kg		
	Say 58515.892 kg @ Rs 64.18 / kg						<b>Rs 3755549.95</b>		
2	85.102 Supply of MS Tees, Angles, Joists, ISMB, ISMC confirming to IS2062GrA/B including cost of conveyance charges								
	Shutters - 6 Nos								
	Cross Member - C7 (ISMC 200 X 75)	8*6	2.490			22.1	2641.393	11/311	
	Cross Member - C4 & C6 (ISMC 300 X 90)	2*6	2.490			35.8	1069.704	8/311	
	Cross Member support for pulley bracket - (ISMC 150 X 75)	4*6	1.174			16.4	462.087	12/311	
	Cross Member - C5 (ISMB 400 X 140)	2*6	2.490			61.6	1840.609	7/311	
	Cross Member - C3 (ISMC 200 X 75)	4*6	1.246			22.1	660.879	9/311	
	Cross Member - C2 (ISMC 200 X 75)	2*6	1.169			22.1	310.019	10/311	
	Supporting angle for cross member ISA 75x75x8	34*6	0.100			8.9	181.561	18/311	
	Toe guard hand rail (75x75x8)	2*6	13.250			8.9	1415.101	25/311	
	Hand rail post (65x65x6)	24*6	1.250			7.7	1386.000	26/311	
	Flat on hand rail	2*6	13.990	0.050	0.008	7850.0	527.144		
	DU base frame - 1 ISMC 150 X 75	2*6	1.750			16.4	344.400	11/312	

DU base frame -2 ISMC 150 X 75	3*6	0.700				16.4	206.640	12/312
Manual operation support - 1 ISA 75X75X8	4*6	0.800				8.9	170.881	14/312
Manual operation support - 2 ISA 75X75X8	2*6	0.400				8.9	42.721	15/312
Manual operation support - 3 ISA 75X75X8	2*6	0.500				8.9	53.401	16/312
Worm reducer base plate support ISA 100 X 100 X 8	2*6	0.700				12.1	101.640	19/312
Brake base plate support ISA 75 X 75X 8	2*6	0.700				8.9	74.760	22/312
Motor base plate support ISA 75 X 75 X 8	2*6	0.700				8.9	74.760	26/312
Plummer support ISA 75 X 75 X 8	1*6	0.250				8.9	13.351	28/312
Rod 1 for hand operation	1*6	0.550				9.86	32.539	29/312
Handle	1*6	0.367				9.86	21.712	31.312
Ladder - Main frame, ISMC 200 X 75	2*2	7.500				22.1	663.000	Ladder
Ladder - Hand rail support, ISA 65 X 65 X 6	12*2	1.000				5.8	139.200	Ladder
Ladder - Step, ISA 40 X 40 X 6	30*2	2.400				3.5	504.000	Ladder
Ladder hand rail flat	2*2	7.500	0.050	0.008		7850.0	94.200	Ladder
Rope drum handle 16 dia	4*6	0.300				1.58	11.376	10/315
Rope drum handle 16 dia	2*6	0.400				1.58	7.585	10/315
Rope drum handle 16 dia	2*6	0.280				1.58	5.309	10/315

Rope drum cover - ISA 35 X 35 X 5	4*6	2.640				2.6	164.736	1/315
Rope drum cover - ISA 35 X 35 X 5	4*6	0.570				2.6	35.568	2/315
Rope drum cover - ISA 35 X 35 X 5	2*6	0.946				2.6	29.516	3/315
Rope drum cover - ISA 35 X 35 X 5	1*6	0.082				2.6	1.280	4a/315
Rope drum cover - ISA 35 X 35 X 5	2*6	0.205				2.6	6.396	5/315
Rope drum cover - ISA 35 X 35 X 5	2*6	0.135				2.6	4.213	4/315
Rope drum cover - ISA 35 X 35 X 5	8*6	0.500				2.6	62.401	5a/315
Rope drum cover flat 1	4*6	0.0500	1.000	0.005	7850.0		47.100	
Rope drum cover flat 2	2*6	0.0500	1.406	0.005	7850.0		33.112	
Rope drum base frame ISMC 300 X 90	2*6	1.760				35.8	756.096	6/314
Rope drum base frame ISMC 300 X 90	2*6	1.250				35.8	537.000	5/314
Rope drum base frame ISMC 300 X 90	2*6	0.980				35.8	421.008	4/314
Rope drum base frame ISMC 300 X 90	2*6	0.972				35.8	417.572	3/314
Rope drum base frame ISMC 300 X 90	2*6	0.870				35.8	373.752	2/314
Rope drum base frame ISMC 300 X 90	2*6	0.270				35.8	115.992	1/314
DU cover frame-1 ISA - 35 X 35 X 6	4*6	0.840				3.0	60.481	1/313
DU cover frame-2 ISA - 35 X 35 X 6	4*6	1.087				3.0	78.265	2/313
DU cover frame-3 ISA - 35 X 35 X 6	4*6	0.273				3.0	19.657	3/313
DU cover frame-4 ISA - 35 X 35 X 6	4*6	1.000				3.0	72.000	4/313

	DU cover frame-5 ISA - 35 X 35 X 6	4*6	2.400			3.0	172.800	5/313	
	DU cover frame-6 ISA - 35 X 35 X 6	4*6	0.840			3.0	60.481	6/313	
	DU cover frame-7 ISA - 35 X 35 X 6	6*6	0.770			3.0	83.160	7/313	
	Round handle 12 dia	4*6	0.300			0.89	6.408	14/313	
	Dial assembly frame ISMC - 100 X 50	2*6	0.925			9.2	102.120	3/319	
	Dial assembly ROUND 20 dia	1*6	0.2200			2.46	3.248	8/319	
	Dial assembly ISA 50 X 50 X 6	2*6	0.050			4.5	2.700	9/319	
	Total Quantity						16723.034 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						16723.034 kg		
	Say 16723.034 kg @ Rs 66.13 / kg						<b>Rs 1105894.24</b>		
3	85.103 Supply of MS checquered plates including cost of conveyance charges								
	Other Checquered plate for type I (12 X 5) Hoist								
	MS checquered plate - 18 mm	2*6	2.450	2.720		64.9	5189.924	19/311	
	MS checquered plate - 28 mm	4*6	1.120	1.570		64.9	2738.884	20/311	
	MS checquered plate - 38 mm	2*6	0.940	1.050		64.9	768.676	21/311	
	MS checquered plate - 48 mm	2*6	0.400	1.255		64.9	390.958	22/311	
	MS checquered plate - 58 mm	2*6	0.855	2.450		64.9	1631.392	23/311	
	MS checquered plate - ladder 8 mm	30*6	0.600	0.300		64.9	2102.760		
	Total Quantity						12822.594 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						12822.594 kg		
	Say 12822.594 kg @ Rs 73.33 / kg						<b>Rs 940280.82</b>		
4	od138792/2019_2020								

	Supply of GI pipe 32mm dia							
	Hand rails							
	Hand rails of hoist bridge	2*6	12.300				147.601	28/311
	Hand rails of ladder	2*2	7.500				30.000	
	Total Quantity						177.601 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						177.601 metre	
	Say 177.601 metre @ Rs 220.73 / metre						<b>Rs 39201.87</b>	
5	od138799/2019_2020 Supply of MS bolts and nuts							
	MS bolts and nuts							
	M24 X 750 anchor bolt with two nuts and washers	24*6				3.09	444.960	5/311
	M16 X 30 long hexagonal bolt with washer	32*6				0.05	9.601	33/331
	M16 X 60 long hexagonal bolt with nut and washer	8*6				0.15	7.200	37/311
	M16 X 40 Hex screw bolt with nut and washer	48*6				0.12	34.560	38/311
	M 12 X 100 Hex bolt, nut and washer	18*6				0.27	29.161	32/312
	M 30 X 135 Hex bolt, nut and washer	4*6				0.75	18.000	33/312
	M 12 X 60 Hex bolt, nut and washer	20*6				0.08	9.600	15/313
	M 20 X 100 Hex bolt, nuts and washer	8*6				0.33	15.840	20/314
	M 16 X 100 Hex bolt, nuts and washer	8*6				0.25	12.000	21/314
	M 16 X 90 Hex bolt, nuts and washer	32*6				0.2	38.401	22/314
	M 8 hexagonal screw with nut and washer	16*6				0.05	4.801	12/315



	M 12 X 40 Hex bolts, nuts and washer	22*6				0.11	14.520	13/315	
	M 6 X 20 hexagonal screw	1*6				0.03	0.180	11/319	
	M10 X 60 Hex. bolt, nut and washer	2*6				0.21	2.520	13/319	
	M10 X 50 Hex. bolt, nut and washer	4*6				0.2	4.801	14/319	
	M10 X 20 Hex. bolt, nut and washer	2*6				0.15	1.800	15/319	
	Total Quantity						647.945 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						647.945 kg		
	Say 647.945 kg @ Rs 77.64 / kg						<b>Rs 50306.45</b>		
6	85.124 Fabrication and supply of Hoisting bridge unit in structural steel conforming to IS2062Gr including ladder, covers for hoisting unit etc as per approved specifications, drawings and directions of deptl officer at site including cost of labour, machinery, incidental and handling charges for fixing handrails and allied works etc complete but excluding material already supplied and weight of pipes for hand rails etc								
	Plates, section, bolt and nuts								
	Plates	58515.892					58515.892		
	Sections	16722.983					16722.983		
	Cheq. plate	12822.594					12822.594		
	Total Quantity						88061.469 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						88061.469 kg		
	Say 88061.469 kg @ Rs 58.93 / kg						<b>Rs 5189462.37</b>		
7	od138964/2019_2020 Painting all the exposed surfaces of the hoisting bridge components with two coats of synthetic enamel paint with a minimum film thickness of 150+/-5 microns per each coat over two coats of priming coat applied with zinc rich primer containing not less than 85% of zinc on dry film thickness of 70+/- microns. So that the total film thickness of all coats including priming coat at any rate is not less than 350 microns over the grit blasted and cleaned surface to class A standard of IS14177 including cost of all materials, labour charges, cost of testing all painting materials, all incidental charges, hire of T & P etc complete as per the direction of department officers at the site Rate analysis for 10 m2 for existing shutters								
	Hand rails								

	Hand rails of Hoist bridge - GI pipe, NB 32mm	2*6	12.300			0.13	19.631	28/311
	Hand rails of ladder - GI pipe, NB 32mm	2*2	7.500			0.13	3.990	
	Chequered plate of type I (12 X 5) Hoist							
	MS chequered plate - 18 mm	2*6	2.450	2.720		2.0	159.936	19/311
	MS chequered plate - 28 mm	4*6	1.120	1.570		2.0	84.404	20/311
	MS chequered plate - 38 mm	2*6	0.940	1.050		2.0	23.688	21/311
	MS chequered plate - 48 mm	2*6	0.400	1.255		2.0	12.048	22/311
	MS chequered plate - 58 mm	2*6	0.855	2.450		2.0	50.274	23/311
	MS chequered plate - ladder 8 mm	30*6	0.600	0.300		2.0	64.800	
	6 Nos of shutters of size 12 m width X 5 m height							
	Longitudinal girder web	2*6	13.990	1.000		2.0	335.760	2/311
	Longitudinal girder flange	4*6	13.990	0.200		2.0	134.304	1/311
	Foundation base plate	4*6	0.450	0.500		2.0	10.800	3a/311
	Base plate	4*2	0.450	0.500		2.0	3.600	3/311
	Stiffener on main girder with base plate	16*2	1.020	0.235		2.0	15.341	4/311
	Plate on foundation rod	24*2	0.100	0.100		2.0	0.961	6/311
	Vertical stiffener on main girder below C5	4*6	0.620	0.085		2.0	2.530	13/311
	Vertical stiffener on main girder below C6 and C4	8*6	0.720	0.085		2.0	5.876	14/311
	Vertical stiffener on main girder below C7	18*6	0.820	0.085		2.0	15.056	15/311

Vertical stiffener on main girder below pulley cross girder	4*6	0.870	0.085		2.0	3.550	16/311
Vertical stiffener on main girder	34*6	1.000	0.085		2.0	34.680	17/311
Supporting plate for hand rail post	24*6	0.150	0.200		2.0	8.640	24/311
Pulley bracket	4*6	1.596	0.550		2.0	42.135	29/311
Pad plate for pulley	8*6	0.200	0.200		2.0	3.841	32/311
Lock plate for pulley	16*6	0.120	0.050		2.0	1.153	31/311
Spacer OD 200, ID 92	8*6	0.200	0.200		2.0	3.841	35/311
Base plate for worm reducer	1*6	0.400	0.450		2.0	2.160	17/312
Stiffener plate for base plate 1 (worm reducer unit)	4*6	0.090	0.090		2.0	0.389	18/312
Stiffener plate for base plate 2 (worm reducer unit)	2*6	0.100	0.155		2.0	0.372	20/312
Base plate for brake unit	1*6	0.150	0.500		2.0	0.900	21/312
Stiffener plate for brake unit base plate	4*6	0.065	0.065		2.0	0.203	23/312
Base plate for motor	1*6	0.250	0.250		2.0	0.750	24/312
Stiffener plate for motor base 1	4*6	0.070	0.070		2.0	0.236	25/312
Stiffener plate for motor base 2	1*6	0.070	0.100		2.0	0.085	27/312
Diaphragm plate (Rope drum)	4*6	0.350	0.600		2.0	10.080	13/314
Cover plate (Rope drum)	4*6	0.280	0.120		2.0	1.613	14/314
Stiffener plate - 1 (RD diaphragm)1	8*6	0.080	0.185		2.0	1.421	11/314
Stiffener plate - 2 (RD diaphragm)2	4*6	0.080	0.130		2.0	0.500	12/314
Spacer (RD) OD:250 ID:81 8THK	4*6	0.250	0.250		2.0	3.000	15/314

Plummer block base plate 1	4*6	0.100	0.315		2.0	1.512	16/314
Plummer block base plate 2	4*6	0.100	0.280		2.0	1.345	17/314
Additional plate on RD base frame 1	2*6	0.090	1.760		2.0	3.802	7/314
Additional plate on RD base frame 2	2*6	0.090	0.780		2.0	1.685	8/314
Stiffener plate on RD base frame 1	10*6	0.170	0.276		2.0	5.631	9/314
Stiffener plate on RD base frame 2	2*6	0.080	273.000		2.0	524.160	10/314
Drum cover body (side and top)	2*6	2.640	0.560		2.0	35.482	6/315
Drum cover body (side)	4*6	0.710	1.675		2.0	57.084	7/315
Door sheet	2*6	0.210	0.310		2.0	1.563	11/315
DU cover body(side) - 1	4*6	1.650	0.980		2.0	77.616	8/313
DU cover body(side) - 2	2*6	0.980	0.820		2.0	19.287	9/313
DU cover body(side) - 3	2*6	0.570	0.820		2.0	11.218	10/313
DU cover (Top)	2*6	0.820	1.750		2.0	34.440	11/313
Plate	2*6	0.150	0.150		2.0	0.540	12/313
Plate	4*6	0.500	1.030		2.0	24.720	13/313
Base plate for dial gauge worm reducer	1*6	0.300	0.470		2.0	1.692	2/319
Stiffener support plate for worm reducer base 1	2*6	0.185	0.150		2.0	0.666	4/319
Stiffener support plate for base 2	1*6	0.170	0.150		2.0	0.307	4a/319
Shim for dial assembly	1*6	0.060	0.165		2.0	0.119	5/319
Plummer block base plate	1*6	0.280	0.090		2.0	0.303	6/319

Stiffener support plate for plummer block base 1	2*6	0.100	0.090		2.0	0.216	7/319
Needle	1*6	0.170	0.040		2.0	0.082	10/319
Needle base	1*6	0.040	0.040		2.0	0.020	10a/319
Plate for dial gauge	2*6	0.230	0.276		2.0	1.524	21/319
Shutters - 6 Nos							
Cross Member - C7 (ISMC 200 X 75)	8*6	2.490			0.7	83.664	11/311
Cross Member - C4 & C6 (ISMC 300 X 90)	2*6	2.490			0.96	28.685	8/311
Cross Member support for pulley bracket - (ISMC 150 X 75)	4*6	1.174			0.6	16.906	12/311
Cross Member - C5 (ISMB 400 X 140)	2*6	2.490			1.36	40.637	7/311
Cross Member - C3 (ISMC 200 X 75)	4*6	1.246			0.7	20.933	9/311
Cross Member - C2 (ISMC 200 X 75)	2*6	1.169			0.7	9.820	10/311
Supporting angle for cross member ISA 75 X 75 X 8	34*6	0.100			0.3	6.120	18/311
Toe guard hand rail (75 X 75 X 8)	2*6	13.250			0.3	47.700	25/311
Hand rail post (65 X 65 X 6)	24*6	1.250			0.26	46.801	26/311
Flat on hand rail	2*6	13.990	0.050		2.0	16.788	26/311
90 dia pulley shaft	4*6	0.210			0.28	1.412	30/311
Shaft for manual operation 40 dia 1	1*6	0.408			0.13	0.319	9/312
Shaft for manual operation 40 dia 2	1*6	0.550			0.13	0.430	10/312
DU Base Frame - 1 ISMC 150 X 75	2*6	1.750			0.6	12.600	11/312
DU Base Frame - 2 ISMC 150 X 75	3*6	0.700			0.6	7.560	12/312

Manual operation support - 1 ISA 75 X 75 X 8	4*6	0.800			0.3	5.761	14/312
Manual operation support - 2 ISA 75 X 75 X 8	2*6	0.400			0.3	1.441	15/312
Manual operation support - 3 ISA 75 X 75 X 8	2*6	0.500			0.3	1.800	16/312
Worm reducer base plate support ISA 100 X 100 X 8	2*6	0.700			0.4	3.360	19/312
Brake base plate support ISA 75 X 75 X 8	2*6	0.700			0.3	2.520	22/312
Motor base plate support ISA 75 X 75 X 8	2*6	0.700			0.3	2.520	26/312
Plummer support ISA 75 X 75 X 8	1*6	0.250			0.3	0.450	28/312
Rod 1 for hand operation	1*6	0.550			0.05	0.166	29/312
Handle	1*6	0.367			0.05	0.111	31/312
Ladder - main frame, ISMC 200 X 75	2*2	7.500			0.7	21.000	Ladder
Ladder - Hand rail support, ISA 65 X 65 X 6	12*2	1.000			0.26	6.240	Ladder
Ladder - step, ISA 40 X 40 X 6	30*2	2.400			0.16	23.040	Ladder
Ladder hand rail flat	2*2	7.500	0.050		2.0	3.000	Ladder
Rope drum handle 16dia	4*6	0.300			0.05	0.360	10/315
Rope drum handle 16dia	2*6	0.400			0.05	0.241	10/315
Rope drum handle 16dia	2*6	0.280			0.05	0.169	10/315
Rope drum cover - ISA 35 X 35 X 5	4*6	2.640			0.14	8.871	1/315

Rope drum cover - ISA 35 X 35 X 5	4*6	0.570			0.14	1.916	2/315
Rope drum cover - ISA 35 X 35 X 5	2*6	0.946			0.14	1.590	3/315
Rope drum cover - ISA 35 X 35 X 5	1*6	0.082			0.14	0.069	4a/315
Rope drum cover - ISA 35 X 35 X 5	2*6	0.205			0.14	0.345	5/315
Rope drum cover - ISA 35 X 35 X 5	2*6	0.135			0.14	0.227	4/315
Rope drum cover - ISA 35 X 35 X 5	8*6	0.500			0.14	3.361	5a/315
Rope drum base frame ISMC 300 X 90	2*6	1.760			0.96	20.276	6/314
Rope drum base frame ISMC 300 X 90	2*6	1.250			0.96	14.400	5/314
Rope drum base frame ISMC 300 X 90	2*6	0.980			0.96	11.290	4/314
Rope drum base frame ISMC 300 X 90	2*6	0.972			0.96	11.198	3/314
Rope drum base frame ISMC 300 X 90	2*6	0.870			0.96	10.023	2/314
Rope drum base frame ISMC 300 X 90	2*6	0.270			0.96	3.111	1/314
Rope drum cover flat 1	4*6	0.050	1.000		2.0	2.401	
Rope drum cover flat 2	2*6	0.050	1.406		2.0	1.688	
DU Cover frame - 1 ISA 35 X 35 X 6	4*6	0.840			0.14	2.823	1/313
DU Cover frame - 2 ISA 35 X 35 X 6	4*6	1.087			0.14	3.653	2/313
DU Cover frame - 3 ISA 35 X 35 X 6	4*6	0.273			0.14	0.918	3/313
DU Cover frame - 4 ISA 35 X 35 X 6	4*6	1.000			0.14	3.361	4/313
DU Cover frame - 5 ISA 35 X 35 X 6	4*6	2.400			0.14	8.064	5/313

	DU Cover frame - 6 ISA 35 X 35 X 6	4*6	0.840			0.14	2.823	6/313	
	DU Cover frame - 7 ISA 35 X 35 X 6	6*6	0.770			0.14	3.881	7/313	
	Round handle 12 dia	4*6	0.300			0.03	0.216	14/313	
	Dial assembly frame ISMC - 100 X 50	2*6	0.925			0.4	4.440	3/319	
	Dial assembly round 20 dia	1*6	0.220			0.06	0.080	8/319	
	Dial assembly ISA 50 X 50 X 6	2*6	0.050			0.2	0.121	9/319	
	Total Quantity						2401.262 sqm		
	Total Deducted Quantity						0.000 sqm		
	Net Total Quantity						2401.262 sqm		
	Say 2401.262 sqm @ Rs 966.78 / sqm						<b>Rs 2321492.08</b>		
8	85.136 Erection of the hoisting bridge unit including handrails , ladder and platform etc. in correct alignment and anchoring it ; setting and aligning the covers of the hoisting unit etc complete including cost of all labour, machinery, incidental and conveyance , lead and lift charges etc complete but excluding cost of materials already supplied								
	Other Engineering Organisations Hand rails								
	Hand rails of hoist bridge	2*6	12.300			3.09	456.085	28/311	
	Hand rails of ladder	2*2	7.500			3.09	92.700		
	Plates, section, bolt & nuts								
	Plates	58515.892					58515.892		
	Sections	16722.983					16722.983		
	Cheq. plate	12822.594					12822.594		
	Bolts & Nuts	646.925					646.925		
	Total Quantity						89257.179 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						89257.179 kg		
	Say 89257.179 kg @ Rs 3.40 / kg						<b>Rs 303474.41</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>11 F5 - Supplying, stacking, erecting and trial run of rope drum hoisting unit</b>									



1	85.128 Providing Line shaft ,material : MS rolled/ forged steel							
	Line shaft							
	65 mm Dia line shaft	2*6	4.150			26.0	1294.801	
	Total Quantity						1294.801 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						1294.801 kg	
	Say 1294.801 kg @ Rs 128.95 / kg						<b>Rs 166964.59</b>	
2	85.125 Conveying and erecting in position the already supplied rope drum hoisting units (15T/ 20T/25T/30T) capacity on the hoisting bridge and correcting the alignment as far as possible manually as per the direction of departmental officer at site including cost of all labour, machinery, lead and lift and all incidental and conveyance charges etc complete							
	Shutters - 6nos							
	Erection for 30 ton	6					6.000	
	Total Quantity						6.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						6.000 no	
	Say 6.000 no @ Rs 55766.26 / no						<b>Rs 334597.56</b>	
3	od139261/2019_2020 Supplying and stacking of 35 Tonne capacity rope drum hoisting unit having 12 m lift at a hoisting speed of about 0.45 m/min(+/-10%) through pulley arrangements with 4 numbers of falls on either side with 24 mm tested galvanized wire rope 6/36 construction, fibre core having breaking capacity 34250 Kg and driven by TEFC squirrel cage induction motor hoist duty type having capacity not less than 7.5 HP and driven through self locking worm reducer and open gear reduction unit including 2 nos. of plummer blocks with bearings for line shaft supported at proper intervals and including cost of electro magnetic thruster brake assembly manual operating systems, electrical accessories, limit switch and other safety equipments as per drawings specifications and statutory requirements etc complete Rate analysis for 35 T capacity rope drum hoisting unit (all MR items rate including GST)							
	Supplying and stacking of 35 Tonne capacity rope drum hoisting unit	1*6					6.000	
	Total Quantity						6.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						6.000 set	
	Say 6.000 set @ Rs 1074393.54 / set						<b>Rs 6446361.24</b>	
4	85.135							

	Conveying and Fixing wire rope already supplied to the new gates and Hoisting unit safely and conducting Trial run							
	Shutters - 6 nos							
		6					6.000	
	Total Quantity						6.000 set	
	Total Deducted Quantity						0.000 set	
	Net Total Quantity						6.000 set	
	Say 6.000 set @ Rs 16889.83 / set						<b>Rs 101338.98</b>	
5	od139459/2019_2020 Providing Dial gauge assembly with Dial, 1 5/8 feet worm reducer, chain & sprockets, Frame and other accessories.							
	Dial gauge							
	Dial gauge assembly	6					6.000	r
	Total Quantity						6.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						6.000 no	
	Say 6.000 no @ Rs 22116.78 / no						<b>Rs 132700.68</b>	
6	od139469/2019_2020 Cost of supplying and stacking WIRE ROPE : 24mm dia WIRE ROPE 6 X 36 CONSTRUCTION, RIGHT HAND LAY UNGALVANISED MAIN FIBER CORE UTS 180 KG/MM2 HAVING BRAKING LOAD CAPACITY OF 336KN (34250Kg), CONFORMING TO IS 2266 - 1989							
	Wire rope							
	Wire rope 24mm	1*6	120.000				720.000	
	Total Quantity						720.000 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						720.000 metre	
	Say 720.000 metre @ Rs 464.60 / metre						<b>Rs 334512.00</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>12 F6 - Fabrication and supply of embedded parts for lock shutters 8 number</b>								
1	85.101 Supply of MS plates confirming to IS 2062GrB including cost of conveyance charges							
	8 nos primary embedded parts							
	Linear connecting plate	132*2	0.067	0.067	0.010	7850.0	93.031	102/11
	Linear - plate	2*2	6.200	3.730	0.016	7850.0	11618.503	102/6

	Plate at sill beam joint	4*2	0.100	0.2218	0.010	7850.0	13.930	102/4	
	Total Quantity						11725.464 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						11725.464 kg		
	Say 11725.464 kg @ Rs 64.18 / kg						<b>Rs 752540.28</b>		
2	85.107 Supply of MS round bar including cost of conveyance charges								
	Embedded parts								
	Linear 16mm 325LG rod	220*2	0.325			1.58	225.654	102/12	
	Sill beam 16mm 325LG rod	144*2	0.325			1.58	147.701	102/3	
	Guide roller track 16mm 325LG ord	96*2	0.325			1.58	98.468	102/15	
	Anchor rod hoist unit embedded parts 30mm	8*8	0.750			5.54	265.920	107/17	
	Total Quantity						737.743 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						737.743 kg		
	Say 737.743 kg @ Rs 64.18 / kg						<b>Rs 47348.35</b>		
3	85.102 Supply of MS Tees, Angles, Joists, ISMB, ISMC conforming to IS2062GrA/B including cost of conveyance charges								
	MS Sections								
	Liner ISA 150 X 150 X 10	22*2	1.020			22.8	1023.265	102/9	
	Liner ISA 150 X 150 X 10	44*2	0.225			22.8	451.441	102/8	
	Liner ISA 150 X 150 X 10	44*2	1.210			22.8	2427.744	102/7	
	Liner ISMB 1/2 CUT 400 X 140	4*2	5.660		0.500	61.6	1394.624	102/10	
	SILL BEAM ISA 75 X 75 X 8	48*2	0.2218			8.9	189.506	102/2	
	Sill beam - ISMC 250 X 80	4*2	5.820			30.4	1415.424	102/1	

	Guide roller track 1/2 ISMB 450 X 150	4*2	5.950		0.500	72.4	1723.121	102/14
	Total Quantity						8625.125 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						8625.125 kg	
	Say 8625.125 kg @ Rs 66.13 / kg						<b>Rs 570379.52</b>	
4	85.108 Fabrication, erection and commissioning of Structural steel Embedded parts in IS2062 Grade and accessories as per approved specifications, drawings and directions of deptl officer at site including cost of labour , machinery , incidental and handling charges etc complete but excluding cost of material already supplied							
	MS sections							
	Liner ISA 150 X 150 X 10	22*2	1.020			22.8	1023.265	102/9
	Liner ISA 150 X 150 X 10	44*2	0.225			22.8	451.441	102/8
	Liner ISA 150 X 150 X 10	44*2	1.210			22.8	2427.744	102/7
	Liner ISMB 1/2 CUT 400 X 140	4*2	5.660		0.500	61.6	1394.624	102/10
	SILL BEAM ISA 75 X 75 X 8	48*2	0.2218			8.9	189.506	102/2
	Sill beam - ISMC 250 X 80	4*2	5.820			30.4	1415.424	102/1
	Guide roller track 1/2 ISMB 450 X 150	4*2	5.950		0.500	72.4	1723.121	102/14
	8 nos primary embedded parts							
	Liner connecting plate	132*2	0.067	0.067	0.010	7850.0	93.031	102/11
	Liner - plate	2*2	6.200	3.730	0.016	7850.0	11618.503	102/6
	Plate at sill beam joint	4*2	0.100	0.2218	0.010	7850.0	13.930	102/4
	Embedded parts							
	Liner 16mm 325LG rod	220*2	0.325			1.58	225.940	102/12
	Sill beam 16mm 325LG rod	144*2	0.325			1.58	147.889	102/3
	Guide roller track 16mm 325LG rod	96*2	0.325			1.58	98.593	102/15

	Anchor rod hoist unit embedded parts 30mm	8*8	0.750			5.54	265.920	107/17
	Total Quantity						21088.931 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						21088.931 kg	
	Say 21088.931 kg @ Rs 75.59 / kg						<b>Rs 1594112.29</b>	
5	od139846/2019_2020 Bending Charge of ISMB For Roller track including machine hire charges, preheating charges, current charge, labour etc complete							
	Guide roller track 1/2 ISMB 450 X 150	4*2	5.950		0.500	72.4	1723.121	
	Total Quantity						1723.121 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						1723.121 kg	
	Say 1723.121 kg @ Rs 16.82 / kg						<b>Rs 28982.90</b>	
6	od139898/2019_2020 Fabrication, supply, erection and assembling in correct position and alignment by welding SS Embedded parts in 304L Grade like roller track, seal track, seal seat etc as approved specifications, drawings and directions of depl officer at site including cost of all materials, labour, welding, shearing, grinding etc, lead and lift, conveyance, incidental and handling etc complete Rate analysis SS embedded parts 2.6Qtl							
	SS plate for roller track							
	SS plate for roller track	4*2	5.957	0.170	0.008	7850.0	508.776	
	Total Quantity						508.776 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						508.776 kg	
	Say 508.776 kg @ Rs 488.03 / kg						<b>Rs 248297.95</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>13 F7 - Supply of materials, fabrication, and erection of MS diamond lock shutter</b>								
1	85.101 Supply of MS plates confirming to IS 2062GrB including cost of conveyance charges							
	Shutter							
	Skin plate	1*8	5.356	5.200	0.010	7850.0	17490.554	103/1
	Plate on horizontal girder flange	5*8	0.160	5.646	0.010	7850.0	2836.551	103/1a

End box plate	1*8	2.315	5.200	0.016	7850.0	12095.783	103/2
Pivot box stiffener plate 1	1*8	0.490	0.616	0.016	7850.0	303.289	103/3
Pivot box stiffener plate 1a	2*8	0.236	0.616	0.016	7850.0	292.148	103/3a
Pivot box stiffener plate 2	1*8	0.490	1.104	0.016	7850.0	543.557	103/4
Pivot box stiffener plate 2a	2*8	0.236	1.104	0.016	7850.0	523.590	103/4a
Pivot box stiffener plate 3	1*8	0.490	1.284	0.016	7850.0	632.180	103/5
Pivot box stiffener plate 3a	2*8	0.236	1.284	0.016	7850.0	608.958	103/5a
Pivot box stiffener plate 4	1*8	0.490	0.926	0.016	7850.0	455.918	103/6
Pivot box stiffener plate 4a	2*8	0.236	0.926	0.016	7850.0	439.170	103/6a
Pivot box stiffener plate 5	5*8	0.488	0.490	0.016	7850.0	1201.339	103/7
Vertical wood seal support web	1*8	5.200	0.476	0.010	7850.0	1554.426	103/9
Vertical wood seal support flange 1	1*8	5.200	0.210	0.012	7850.0	822.932	103/10
Vertical wood seal support flange 2	1*8	5.200	0.500	0.012	7850.0	1959.361	103/11
Full depth vertical stiffener web 1	3*8	0.490	0.095	0.010	7850.0	87.701	103/12
Full depth vertical stiffener web 2	3*8	0.490	1.390	0.010	7850.0	1283.193	103/13
Full depth vertical stiffener web 3	3*8	0.490	1.290	0.010	7850.0	1190.877	103/14
Full depth vertical stiffener web 4	3*8	0.490	1.110	0.010	7850.0	1024.708	103/15
Full depth vertical stiffener web 5	3*8	0.490	0.890	0.010	7850.0	821.613	103/16
Full depth vertical stiffener pivot box 1	1*8	0.488	0.375	0.010	7850.0	114.924	103/17

	Full depth vertical stiffener pivot box 2	1*8	0.488	0.095	0.010	7850.0	29.115	103/18
	Full depth vertical stiffener pivot box 3	1*8	0.488	1.390	0.010	7850.0	425.985	103/19
	Full depth vertical stiffener pivot box 4	1*8	0.488	1.290	0.010	7850.0	395.339	103/20
	Full depth vertical stiffener pivot box 5	1*8	0.488	1.110	0.010	7850.0	340.176	103/21
	Full depth vertical stiffener pivot box 6	1*8	0.488	0.890	0.010	7850.0	272.753	103/22
	Full depth vertical stiffener pivot box 7	1*8	0.488	0.375	0.010	7850.0	114.924	103/23
	Full depth vertical stiffener flange 1	3*8	0.210	1.220	0.010	7850.0	482.681	103/30
	Full depth vertical stiffener flange 2	3*8	0.210	1.220	0.010	7850.0	482.681	103/31
	Full depth vertical stiffener flange 3	3*8	0.210	0.940	0.010	7850.0	371.902	103/32
	Full depth vertical stiffener flange 4	3*8	0.210	0.720	0.010	7850.0	284.861	103/33
	Vertical stiffener 1	10*8	0.200	1.390	0.010	7850.0	1745.840	103/25
	Vertical stiffener 2	10*8	0.200	1.290	0.010	7850.0	1620.241	103/26
	Vertical stiffener 3	10*8	0.200	1.110	0.010	7850.0	1394.160	103/27
	Vertical stiffener 4	10*8	0.200	0.890	0.010	7850.0	1117.841	103/28
	Vertical stiffener 5	10*8	0.200	0.375	0.010	7850.0	471.001	103/29
	Stiffener plate at pintle and pivot	6*8	0.390	0.488	0.010	7850.0	717.126	103/60
	Guide roller pin 75D 150LG	1*8	5.200				41.600	
	Roller bracket	2*8	0.185	0.150	0.016	7850.0	55.767	
	Roller mounting plate 1	1*8	0.350	0.360	0.016	7850.0	126.605	
	Roller mounting plate 2	1*8	0.350	0.360	0.016	7850.0	126.605	
	Spring socket plate OD 135 ID 17.5 15tk	8*8	1.680				107.520	
	Lock plate	2*8	0.040	0.090	0.008	7850.0	3.618	

	Plate	1*8	0.350	0.360	0.016	7850.0	126.605		
	Total Quantity						57137.718 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						57137.718 kg		
	Say 57137.718 kg @ Rs 64.18 / kg						<b>Rs 3667098.74</b>		
2	85.102 Supply of MS Tees, Angles, Joists, ISMB, ISMC confirming to IS2062GrA/B including cost of conveyance charges								
	Horizontal girder ISMB 500 X 180	5*8	5.748			86.9	19980.049	103/8	
	Walk way base support ISMC 200 X 75	10*8	0.250			22.1	442.000	103/41	
	Walk way platform base ISMC 150 X 75	2*8	5.500			16.4	1443.200	103/42	
	Walk way platform base cross support ISMC 150 X 75	5*2	0.850			16.4	139.400	103/43	
	Toe guard ISA 65 X 65 X 6	2*8	5.500			5.8	510.400	103/44	
	Hand rail vertical post base ISA 75 X 75 X 6	10*8	0.150			6.8	81.600	103/46	
	Hand rail vertical post ISA 50 X 50 X 6	10*8	1.250			4.5	450.000	103/47	
	Flat on hand rail	2*8	4.790	0.050	0.008	7850.0	240.650		
	Total Quantity						23287.299 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						23287.299 kg		
	Say 23287.299 kg @ Rs 66.13 / kg						<b>Rs 1539989.08</b>		
3	85.103 Supply of MS chequered plates including cost of conveyance charges								
	Chequered plate	1*8	5.500	0.850		64.9	2427.260	103/45	
	Total Quantity						2427.260 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						2427.260 kg		
	Say 2427.260 kg @ Rs 73.33 / kg						<b>Rs 177990.98</b>		



4	od140041/2019_2020 Supply of GI pipe 32mm dia							
	32 mm dia GI pipe							
	GI pipe 32mm dia hand rail	2*8	8.120				129.920	
	Total Quantity						129.920 metre	
	Total Deducted Quantity						0.000 metre	
	Net Total Quantity						129.920 metre	
	Say 129.920 metre @ Rs 220.73 / metre						<b>Rs 28677.24</b>	
5	od140063/2019_2020 Supplying and fixing spring loaded guide roller assembly having 200 mm Dia, 70mm tread width, pin and Al Bronze bush and accessories as per approved specifications and drawings including cost of all materials, machineries, labour, all lift and lead, incidental and conveyance charges etc complete Rate analysis for roller - 1							
	Spring loaded guide roller assembly	1*8					8.000	
	Total Quantity						8.000 no	
	Total Deducted Quantity						0.000 no	
	Net Total Quantity						8.000 no	
	Say 8.000 no @ Rs 17423.34 / no						<b>Rs 139386.72</b>	
6	85.110 Fabrication and supply of Structural steel wheel gate and accessories as per approved specifications, drawings and directions of deptl officer at site including cost of labour, machinery, all leads and lifts, incidental and handling charges etc complete but excluding cost of material already supplied							
	Shutter							
	Skin plate	1*8	5.356	5.200	0.010	7850.0	17490.554	103/1
	Plate on horizontal girder flange	5*8	0.160	5.646	0.010	7850.0	2836.551	103/1a
	End box plate	1*8	2.315	5.200	0.016	7850.0	12095.783	103/2
	Pivot box stiffener plate 1	1*8	0.490	0.616	0.016	7850.0	303.289	103/3
	Pivot box stiffener plate 1a	2*8	0.236	0.616	0.016	7850.0	292.148	103/3a
	Pivot box stiffener plate 2	1*8	0.490	1.104	0.016	7850.0	543.557	103/4
	Pivot box stiffener plate 2a	2*8	0.236	1.104	0.016	7850.0	523.590	103/4a

Pivot box stiffener plate 3	1*8	0.490	1.284	0.016	7850.0	632.180	103/5
Pivot box stiffener plate 3a	2*8	0.236	1.284	0.016	7850.0	608.958	103/5a
Pivot box stiffener plate 4	1*8	0.490	0.926	0.016	7850.0	455.918	103/6
Pivot box stiffener plate 4a	2*8	0.236	0.926	0.016	7850.0	439.170	103/6a
Pivot box stiffener plate 5	5*8	0.488	0.490	0.016	7850.0	1201.339	103/7
Vertical wood seal support web	1*8	5.200	0.476	0.010	7850.0	1554.426	103/9
Vertical wood seal support flange 1	1*8	5.200	0.210	0.012	7850.0	822.932	103/10
Vertical wood seal support flange 2	1*8	5.200	0.500	0.012	7850.0	1959.361	103/11
Full depth vertical stiffener web 1	3*8	0.490	0.095	0.010	7850.0	87.701	103/12
Full depth vertical stiffener web 2	3*8	0.490	1.390	0.010	7850.0	1283.193	103/13
Full depth vertical stiffener web 3	3*8	0.490	1.290	0.010	7850.0	1190.877	103/14
Full depth vertical stiffener web 4	3*8	0.490	1.110	0.010	7850.0	1024.708	103/15
Full depth vertical stiffener web 5	3*8	0.490	0.890	0.010	7850.0	821.613	103/16
Full depth vertical stiffener pivot box 1	1*8	0.488	0.375	0.010	7850.0	114.924	103/17
Full depth vertical stiffener pivot box 2	1*8	0.488	0.095	0.010	7850.0	29.115	103/18
Full depth vertical stiffener pivot box 3	1*8	0.488	1.390	0.010	7850.0	425.985	103/19
Full depth vertical stiffener pivot box 4	1*8	0.488	1.290	0.010	7850.0	395.339	103/20
Full depth vertical stiffener pivot box 5	1*8	0.488	1.110	0.010	7850.0	340.176	103/21
Full depth vertical stiffener pivot box 6	1*8	0.488	0.890	0.010	7850.0	272.753	103/22

	Full depth vertical stiffener pivot box 7	1*8	0.488	0.375	0.010	7850.0	114.924	103/23
	Full depth vertical stiffener flange 1	3*8	0.210	1.220	0.010	7850.0	482.681	103/30
	Full depth vertical stiffener flange 2	3*8	0.210	1.220	0.010	7850.0	482.681	103/31
	Full depth vertical stiffener flange 3	3*8	0.210	0.940	0.010	7850.0	371.902	103/32
	Full depth vertical stiffener flange 4	3*8	0.210	0.720	0.010	7850.0	284.861	103/33
	Vertical stiffener 1	10*8	0.200	1.390	0.010	7850.0	1745.840	103/25
	Vertical stiffener 2	10*8	0.200	1.290	0.010	7850.0	1620.241	103/26
	Vertical stiffener 3	10*8	0.200	1.110	0.010	7850.0	1394.160	103/27
	Vertical stiffener 4	10*8	0.200	0.890	0.010	7850.0	1117.841	103/28
	Vertical stiffener 5	10*8	0.200	0.375	0.010	7850.0	471.001	103/29
	Stiffener plate at pintle and pivot	6*8	0.390	0.488	0.010	7850.0	717.126	103/60
	Guide roller pin 75D 150 LG	1*8	5.200				41.600	
	Roller bracket	2*8	0.185	0.150	0.016	7850.0	55.767	
	Roller mounting plate 1	1*8	0.350	0.360	0.016	7850.0	126.605	
	Roller mounting plate 2	1*8	0.350	0.360	0.016	7850.0	126.605	
	Spring socket plate OD 135 ID 17.5 15tk	8*8	1.680				107.520	
	Lock plate	2*8	0.040	0.090	0.008	7850.0	3.618	
	Plate	1*8	0.350	0.360	0.016	7850.0	126.605	
	Chequered plate	1*8	5.500	0.850		64.9	2427.260	103/45
	Horizontal girder ISMB 500 X 180	5*8	5.748			86.9	19980.049	103/8
	Walk way base support ISMC 200 X 75	10*8	0.250			22.1	442.000	103/41
	Walk way platform base ISMC 150 X 75	2*8	5.500			16.4	1443.200	103/42

	Walk way platform base cross support ISMC 150 X 75	5*2	0.850			16.4	139.400	103/43	
	Toe guard ISA 65 X 65 X 6	2*8	5.500			5.8	510.400	103/44	
	Hand rail vertical post base ISA 75 X 75 X 6	10*8	0.150			6.8	81.600	103/46	
	Hand rail vertical post ISA 50 X 50 X 6	10*8	1.250			4.5	450.000	103/47	
	Flat on hand rail	2*8	4.790	0.050	0.008	7850.0	240.650	103/47	
	Total Quantity						82852.277 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						82852.277 kg		
	Say 82852.277 kg @ Rs 62.86 / kg						<b>Rs 5208094.13</b>		
7	od140199/2019_2020 Fabrication, supply, erection and assembling in correct position and alignment by welding SS embedded parts in 304L grade like roller track, seal track, seal seat etc as per approved specifications, drawings and directions of deptl officer at site including cost of all materials, labour, welding, shearing, grinding etc, lead and lift, conveyance, incidental and handling etc complete 								
	SS pad for roller track								
	SS plate	4*2	5.957	0.170	0.008	7850.0	508.776	13/102	
	Total Quantity						508.776 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						508.776 kg		
	Say 508.776 kg @ Rs 488.03 / kg						<b>Rs 248297.95</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>14 F8 - Fabrication of top pivot and pinlet</b>									
1	85.101 Supply of MS plates conforming to IS 2062GrB including cost of conveyance charges								
	Pintle stiffener plate	3*8	0.140	0.140	0.010	7850.0	36.927	104/6	
	Pintle foundation plate 1	4*8	0.150	0.150	0.012	7850.0	67.824	104/8	
	Pintle foundation plate 2	8*8	0.200	0.200	0.012	7850.0	241.153	104/4	
	Pivot connecting plate	2*8	0.120	0.200	0.050	7850.0	150.721	105/2	
	Pivot base plate 1	2*8	0.400	0.350	0.040	7850.0	703.360	105/7	
	Pivot base plate 2	2*8	0.400	0.265	0.040	7850.0	532.545	105/6	

	Pivot base plate stiffener	4*8	0.265	0.295	0.010	7850.0	196.376	105/8	
	Pivot foundation plate	12*8	0.080	0.080	0.012	7850.0	57.877	105/10	
	Plate	2*8	0.130	0.130	0.010	7850.0	21.227	105/12	
	Total Quantity						2008.010 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						2008.010 kg		
	Say 2008.010 kg @ Rs 64.18 / kg						<b>Rs 128874.08</b>		
2	85.107 Supply of MS round bar including cost of conveyance charges								
	40 mm anchor rod	8*8	1.000			9.85	630.400		
	30 mm rod	4*8	0.500			5.54	88.640		
	Pivot connecting rod 85 mm	2*8	0.815			44.52	580.541		
	Pivot anchor rod 40mm	12*8	0.750			9.85	709.200		
	Pivot pin 95mm	2*8	0.165			55.6	146.785		
	Total Quantity						2155.566 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						2155.566 kg		
	Say 2155.566 kg @ Rs 64.18 / kg						<b>Rs 138344.23</b>		
3	85.102 Supply of MS Tees, Angles, Joists, ISMB, ISMC confirming to IS2062GrA/B including cost of conveyance charges								
	ISA 150 X 150 X 10	1*8	0.945			22.8	172.368		
	Total Quantity						172.368 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						172.368 kg		
	Say 172.368 kg @ Rs 66.13 / kg						<b>Rs 11398.70</b>		
4	85.124 Fabrication and supply of Hoisting bridge unit in structural steel confirming to IS2062Gr including ladder, covers for hoisting unit etc as per approved specifications, drawings and directions of deptl officer at site including cost of labour, machinery, incidental and handling charges for fixing handrails and allied works etc complete but excluding material already supplied and weight of pipes for hand rails etc								
	Pintle stiffener plate	3*8	0.140	0.140	0.010	7850.0	36.927	104/6	

	Pintle foundation plate 1	4*8	0.150	0.150	0.012	7850.0	67.824	104/8
	Pintle foundation plate 2	8*8	0.200	0.200	0.012	7850.0	241.153	104/4
	Pivot connecting plate	2*8	0.120	0.200	0.050	7850.0	150.721	105/2
	Pivot base plate 1	2*8	0.400	0.350	0.040	7850.0	703.360	105/7
	Pivot base plate 2	2*8	0.400	0.265	0.040	7850.0	532.545	105/6
	Pivot base plate stiffener	4*8	0.265	0.295	0.010	7850.0	196.376	105/8
	Pivot foundation plate	12*8	0.080	0.080	0.012	7850.0	57.877	105/10
	Plate	2*8	0.130	0.130	0.010	7850.0	21.227	105/12
	40mm anchor rod	8*8	1.000			9.85	630.400	
	30 mm rod	4*8	0.500			5.54	88.640	
	Pivot connecting rod 85mm	2*8	0.815			44.52	580.541	
	Pivot anchor rod 40mm	12*8	0.750			9.85	709.200	
	Pivot pin 95mm	2*8	0.165			55.6	146.785	
	ISA 150 X 150 X 10	1*8	0.945			22.8	172.368	
						Total Quantity	4335.944 kg	
						Total Deducted Quantity	0.000 kg	
						Net Total Quantity	4335.944 kg	
						Say 4335.944 kg @ Rs 58.93 / kg	<b>Rs 255517.18</b>	
5	od140296/2019_2020 Supply of cast steel, IS 1030 Gr.340 - 570W, for pintle pin, pivot assembly, pivot pin, pivot pin collar, pivot collar and aluminium bronze bush, IS 305 Gr.AB2 etc for shutters and embedded parts, cost of material and conveyance charges etc complete Rate analysis for one set per one shutter							
	Cast steel pintle assembly							
	Cast steel pintle assembly including mountings on shutter	4*2					8.000	
						Total Quantity	8.000 set	
						Total Deducted Quantity	0.000 set	
						Net Total Quantity	8.000 set	
						Say 8.000 set @ Rs 1308063.48 / set	<b>Rs 10464507.84</b>	
6	od140304/2019_2020							

Erection of cast iron pintle set, pintle pin and aluminium bronze bush for shutters and embedded parts, cost of labour and hire charge etc complete Data for one set								
Erection charge of pintle set	2*4						8.000	
Total Quantity							8.000 set	
Total Deducted Quantity							0.000 set	
Net Total Quantity							8.000 set	
Say 8.000 set @ Rs 6906.50 / set							<b>Rs 55252.00</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>15 F9 - Supply of bolt and nut</b>								
1	od140307/2019_2020 Supply of MS bolts and nuts							
	M16 X 90 mm length	2*190				1.6	608.000	
	M16 X 40 mm length	20*8				0.3	48.000	103/59
	M16 X 50 mm length sill beam joint	8*2				0.4	6.400	102/5
Total Quantity							662.400 kg	
Total Deducted Quantity							0.000 kg	
Net Total Quantity							662.400 kg	
Say 662.400 kg @ Rs 77.64 / kg							<b>Rs 51428.74</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>16 F10 - Providing wooden seal at side, bottom and at joints</b>								
1	od140493/2019_2020 Providing wooden seal superior quality (Teak wood) for bottom side and joint sealing Side = 0.3m x 0.1m x 5.5m bottom = 0.2m x 0.1m x 5.59m, joint = 0.35m x 0.35m x 5.5m							
	Wood seal at centre	1*8	5.200	0.500	0.420		8.736	103/34
	Wood seal at bottom	1*8	5.675	0.200	0.180		1.635	103/35
	Wood seal side	1*8	5.200	0.250	0.370		3.848	103/36
Total Quantity							14.219 cud m	
Total Deducted Quantity							0.000 cud m	
Net Total Quantity							14.219 cud m	
Say 14.219 cud m @ Rs 36222.42 / cud m							<b>Rs 515046.59</b>	
2	od140502/2019_2020 Supplying and fixing in correct position with specified flat type rubber flap on wooden seal excluding SS screw, drilling charges also included Rate analysis of flat type rubber seal							
	rubber 150 x 19	1*8	5.200				41.600	

	rubber 200 x 19	1*8	5.700				45.600		
	rubber 175 x 19	1*8	5.200				41.600		
	Total Quantity						128.800 metre		
	Total Deducted Quantity						0.000 metre		
	Net Total Quantity						128.800 metre		
	Say 128.800 metre @ Rs 1512.82 / metre						<b>Rs 194851.22</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>17 F11 - Painting of the shutters and embedded parts</b>									
1	85.112 Painting all the exposed surfaces of the gate and embedded parts with two coats of epoxy coal tar black paint confirming to IS14948 with a minimum film thickness of 150+/-5 microns per each coat over two coats of priming coat applied with zinc primer containing not less than 85% of zinc dry film with a film thickness of 70+/-5 microns , so that the total film thickness of all coats including priming coat at any rate is not less than 350microns over the grit blasted and cleaned surface to class A standard of IS 14177 including cost of all materials , labour charges , cost of testing all painting materials, all incidental charges, hire of T&P etc complete as per the direction of departmental officer at site								
	ISA 150 x 150 x 10	1*8	0.945			0.6	4.536		
	Pintle stiffener plate	3*8	0.140	0.140		2.0	0.941	104/6	
	Pintle foundation plate 1	4*8	0.150	0.150		2.0	1.440	104/8	
	Pintle foundation plate 2	8*8	0.200	0.200		2.0	5.121	104/4	
	Pivot connecting plate	2*8	0.120	0.200		2.0	0.768	105/2	
	Pivot pin collar	2*8	0.160	0.280		2.0	1.434	105/4	
	Pivot base plate 1	2*8	0.400	0.350		2.0	4.480	105/7	
	Pivot base plate 2	2*8	0.400	0.265		2.0	3.393	105/6	
	Pivot base plate stiffener	4*8	0.265	0.295		2.0	5.004	105/8	
	Pivot foundation plate	12*8	0.080	0.080		2.0	1.229	105/10	
	Plate	2*8	0.130	0.130		2.0	0.541	105/12	
	Chequered plate	1*8	5.500	0.850		2.0	74.800	103/45	
	Horizontal girder ISMB 500 X 180	5*8	5.748			1.72	395.463	103/8	
	Walk way base support ISMC 200 X 75	10*8	0.250			0.7	14.000	103/41	



Walk way platform base ISMC 150 X 75	2*8	5.500			0.6	52.800	103/42
Walk way platform base cross support ISMC 150 X 75	5*2	0.850			0.6	5.100	103/43
Toe guard ISA 65 X 65 X 6	2*8	5.500			0.26	22.881	103/44
Hand rail vertical post base ISA 75 X 75 X 6	10*8	0.150			0.3	3.600	103/46
Hand rail vertical post ISA 50 X 50 X 6	10*8	1.250			0.26	26.000	103/47
Shutter							
Skin plate	1*8	5.356	5.200		2.0	445.620	103/1
Plate on horizontal girder flange	5*8	0.160	5.646		2.0	72.269	103/1a
End box plate	1*8	2.315	5.200		2.0	192.608	103/2
Pivot box stiffener plate 1	1*8	0.490	0.616		2.0	4.830	103/3
Pivot box stiffener plate 1a	2*8	0.236	0.616		2.0	4.653	103/3a
Pivot box stiffener plate 2	1*8	0.490	1.104		2.0	8.656	103/4
Pivot box stiffener plate 2a	2*8	0.236	1.104		2.0	8.338	103/4a
Pivot box stiffener plate 3	1*8	0.490	1.284		2.0	10.067	103/5
Pivot box stiffener plate 3a	2*8	0.236	1.284		2.0	9.697	103/5a
Pivot box stiffener plate 4	1*8	0.490	0.926		2.0	7.260	103/6
Pivot box stiffener plate 4a	2*8	0.236	0.926		2.0	6.994	103/6a
Pivot box stiffener plate 5	5*8	0.488	0.490		2.0	19.130	103/7
Vertical wood seal support web	1*8	5.200	0.476		2.0	39.604	103/9
Vertical wood seal support flange 1	1*8	5.200	0.210		2.0	17.472	103/10

Vertical wood seal support flange 2	1*8	5.200	0.500		2.0	41.600	103/11
Full depth vertical stiffener web 1	3*8	0.490	0.095		2.0	2.235	103/12
Full depth vertical stiffener web 2	3*8	0.490	1.390		2.0	32.693	103/13
Full depth vertical stiffener web 3	3*8	0.490	1.290		2.0	30.341	103/14
Full depth vertical stiffener web 4	3*8	0.490	1.110		2.0	26.108	103/15
Full depth vertical stiffener web 5	3*8	0.490	0.890		2.0	20.933	103/16
Full depth vertical stiffener pivot box 1	1*8	0.488	0.375		2.0	2.928	103/17
Full depth vertical stiffener pivot box 2	1*8	0.488	0.095		2.0	0.742	103/18
Full depth vertical stiffener pivot box 3	1*8	0.488	1.390		2.0	10.854	103/19
Full depth vertical stiffener pivot box 4	1*8	0.488	1.290		2.0	10.073	103/20
Full depth vertical stiffener pivot box 5	1*8	0.488	1.110		2.0	8.667	103/21
Full depth vertical stiffener pivot box 6	1*8	0.488	0.890		2.0	6.950	103/22
Full depth vertical stiffener pivot box 7	1*8	0.488	0.375		2.0	2.928	103/23
Full depth vertical stiffener flange 1	3*8	0.210	1.220		2.0	12.298	103/30
Full depth vertical stiffener flange 2	3*8	0.210	1.220		2.0	12.298	103/31
Full depth vertical stiffener flange 3	3*8	0.210	0.940		2.0	9.476	103/32
Full depth vertical stiffener flange 4	3*8	0.210	0.720		2.0	7.258	103/33
Vertical stiffener 1	10*8	0.200	1.390		2.0	44.480	103/25
Vertical stiffener 2	10*8	0.200	1.290		2.0	41.280	103/26
Vertical stiffener 3	10*8	0.200	1.110		2.0	35.520	103/27
Vertical stiffener 4	10*8	0.200	0.890		2.0	28.481	103/28

	Vertical stiffener 5	10*8	0.200	0.375		2.0	12.001	103/29
	Pintle base	1*8	1.100			2.0	17.600	103/53
	Pivot base	1*8	0.850			2.0	13.600	103/52
	Flat on hand rail	2*8	0.050	4.790		2.0	7.665	103/48
	Stiffener plate at pintle and pivot	6*8	0.390	0.488		2.0	18.271	103/60
	Roller bracket	2*8	0.185	0.150		2.0	0.888	
	Roller mounting plate 1	1*8	0.350	0.360		2.0	2.016	
	Roller mounting plate 2	1*8	0.350	0.360		2.0	2.016	
	Lock plate	2*8	0.040	0.090		2.0	0.116	
	Plate	1*8	0.350	0.360		2.0	2.016	
	MS sections							
	Liner ISA 150 X 150 X 10	22*2	1.020			0.6	26.928	102/9
	Liner ISA 150 X 150 X 10	44*2	0.225			0.6	11.880	102/8
	Liner ISA 150 X 150 X 10	44*2	1.210			0.6	63.888	102/7
	Liner ISMB 1/2 CUT 400 X 140	4*2	5.660		0.500	1.36	30.791	102/10
	SILL BEAM ISA 75 X 75 X 8	48*2	0.2218			0.3	6.388	102/2
	SILL BEAM - ISMC 250 X 80	4*2	5.820			0.82	38.180	102/1
	Guide roller track 1/2 ISMB 450 X 150	4*2	5.950		0.500	1.5	35.700	102/14
	Embedded parts							
	Liner 16mm 325LG rod	220*2	0.325			0.05	7.150	102/12
	Sill beam 16mm 325LG rod	144*2	0.325			0.05	4.681	102/3
	Guide roller track 16mm 325LG rod	96*2	0.325			0.05	3.121	102/15

	Anchor rod hoist unit embedded parts 30 mm	8*8	0.750			0.05	2.401	107/17
8nos Primary Embedded Parts								
	Liner connecting plate	132*2	0.065	0.065		2.0	2.231	102/11
	Liner - plate	2*2	6.200	3.730		2.0	185.008	102/6
	Plate at sill beam joint	4*2	0.100	0.2218		2.0	0.355	102/4
Total Quantity							2353.763 sqm	
Total Deducted Quantity							0.000 sqm	
Net Total Quantity							2353.763 sqm	
Say 2353.763 sqm @ Rs 809.89 / sqm							<b>Rs 1906289.12</b>	
Sl No	Description	No	L	B	D	CF	Quantity	Remark
<b>18 F12 - Erection of shutter in groove safely</b>								
1	85.111 Erection of the gates safely in the grooves , assembling and aligning including cost of all machinery, labour all incidental and conveyance charges etc complete as per direction of departmental officer at site							
	Skin plate	1*8	5.356	5.200	0.010	7850.0	17490.554	103/1
	Plate on horizontal girder flange	5*8	0.160	5.646	0.010	7850.0	2836.551	103/1a
	End box plate	1*8	2.315	5.200	0.016	7850.0	12095.783	103/2
	Pivot box stiffener plate 1	1*8	0.490	0.616	0.016	7850.0	303.289	103/3
	Pivot box stiffener plate 1a	2*8	0.236	0.616	0.016	7850.0	292.148	103/3a
	Pivot box stiffener plate 2	1*8	0.490	1.104	0.016	7850.0	543.557	103/4
	Pivot box stiffener plate 2a	2*8	0.236	1.104	0.016	7850.0	523.590	103/4a
	Pivot box stiffener plate 3	1*8	0.490	1.284	0.016	7850.0	632.180	103/5
	Pivot box stiffener plate 3a	2*8	0.236	1.284	0.016	7850.0	608.958	103/5a
	Pivot box stiffener plate 4	1*8	0.490	0.926	0.016	7850.0	455.918	103/6
	Pivot box stiffener plate 4a	2*8	0.236	0.926	0.016	7850.0	439.170	103/6a

Pivot box stiffener plate 5	5*8	0.488	0.490	0.016	7850.0	1201.339	103/7
Vertical wood seal support web	1*8	5.200	0.476	0.010	7850.0	1554.426	103/9
Vertical wood seal support flange 1	1*8	5.200	0.210	0.012	7850.0	822.932	103/10
Vertical wood seal support flange 2	1*8	5.200	0.500	0.012	7850.0	1959.361	103/11
Full depth vertical stiffener web 1	3*8	0.490	0.095	0.01	7850.0	87.701	103/12
Full depth vertical stiffener web 2	3*8	0.490	1.390	0.010	7850.0	1283.193	103/13
Full depth vertical stiffener web 3	3*8	0.490	1.290	0.010	7850.0	1190.877	103/14
Full depth vertical stiffener web 4	3*8	0.490	1.110	0.010	7850.0	1024.708	103/15
Full depth vertical stiffener web 5	3*8	0.490	0.890	0.010	7850.0	821.613	103/16
Full depth vertical stiffener pivot box 1	1*8	0.488	0.375	0.010	7850.0	114.924	103/17
Full depth vertical stiffener pivot box 2	1*8	0.488	0.095	0.010	7850.0	29.115	103/18
Full depth vertical stiffener pivot box 3	1*8	0.488	1.390	0.010	7850.0	425.985	103/19
Full depth vertical stiffener pivot box 4	1*8	0.488	1.290	0.010	7850.0	395.339	103/20
Full depth vertical stiffener pivot box 5	1*8	0.488	1.110	0.010	7850.0	340.176	103/21
Full depth vertical stiffener pivot box 6	1*8	0.488	0.890	0.010	7850.0	272.753	103/22
Full depth vertical stiffener pivot box 7	1*8	0.488	0.375	0.010	7850.0	114.924	103/23
Full depth vertical stiffener flange 1	3*8	0.210	1.220	0.010	7850.0	482.681	103/30
Full depth vertical stiffener flange 2	3*8	0.210	1.220	0.010	7850.0	482.681	103/31
Full depth vertical stiffener flange 3	3*8	0.210	0.940	0.010	7850.0	371.902	103/32

	Full depth vertical stiffener flange 4	3*8	0.210	0.720	0.010	7850.0	284.861	103/33
	Vertical stiffener 1	10*8	0.200	1.390	0.010	7850.0	1745.840	103/25
	Vertical stiffener 2	10*8	0.200	1.290	0.010	7850.0	1620.241	103/26
	Vertical stiffener 3	10*8	0.200	1.110	0.010	7850.0	1394.160	103/27
	Vertical stiffener 4	10*8	0.200	0.890	0.010	7850.0	1117.841	103/28
	Vertical stiffener 5	10*8	0.200	0.375	0.010	7850.0	471.001	103/29
	Stiffener plate at pintle and pivot	6*8	0.390	0.488	0.010	7850.0	717.126	103/60
	Guide roller pin 75D 150LG	1*8	5.200				41.600	
	Roller bracket	2*8	0.185	0.150	0.016	7850.0	55.767	
	Roller mounting plate 1	1*8	0.350	0.360	0.016	7850.0	126.605	
	Roller mounting plate 2	1*8	0.350	0.360	0.016	7850.0	126.605	
	Spring socket plate OD 135 ID 17.5 15 tk	8*8	1.680				107.520	
	Lock plate	2*8	0.040	0.090	0.008	7850.0	3.618	
	Plate	1*8	0.350	0.360	0.016	7850.0	126.605	
	Horizontal girder ISMB 500 X 180	5*8	5.748			86.9	19980.049	103/8
	Walk way base support ISMC 200 X 75	10*8	0.250			22.1	442.000	103/41
	Walk way platform base ISMC 150 X 75	2*8	5.500			16.4	1443.200	103/42
	Walk way platform base cross support ISMC 150 X 75	5*2	0.850			16.4	139.400	103/43
	Toe guard ISA 65 X 65 X 6	2*8	5.500			5.8	510.400	103/44
	Hand rail vertical post base ISA 75 X 75 X 6	10*8	0.150			6.8	81.600	103.46
	Hand rail vertical post ISA 50 X 50 X 6	10*8	1.250			4.5	450.000	103/47
	Flat on hand rail	2*8	4.790	0.050	0.008	7850.0	240.650	

	Chequered plate	1*8	5.500	0.850		64.9	2427.260	103/45	
	32 mm dia GI pipe								
	GI pipe 32mm dia hand rail	2*8	8.120			3.09	401.453		
	Pintle stiffener plate	3*8	0.140	0.140	0.010	7850.0	36.927	104/6	
	Pintle foundation plate 1	4*8	0.150	0.150	0.012	7850.0	67.824	104/8	
	Pintle foundation plate 2	8*8	0.200	0.200	0.012	7850.0	241.153	104/4	
	Pivot connecting plate	2*8	0.120	0.200	0.050	7850.0	150.721	105/2	
	Pivot base plate 1	2*8	0.400	0.350	0.040	7850.0	703.360	105/7	
	Pivot base plate 2	2*8	0.400	0.265	0.040	7850.0	532.545	105/6	
	Pivot base plate stiffener	4*8	0.265	0.295	0.010	7850.0	196.376	105/8	
	Pivot foundation plate	12*8	0.080	0.080	0.012	7850.0	57.877	105/10	
	Plate	2*8	0.130	0.130	0.010	7850.0	21.227	105/12	
	40mm anchor rod	8*8	1.000			9.85	630.400		
	30mm rod	4*8	0.500			5.54	88.640		
	Pivot connecting rod 85mm	2*8	0.815			44.52	580.541		
	Pivot anchor rod 40mm	12*8	0.750			9.85	709.200		
	Pivot pin 95mm	2*8	0.165			55.6	146.785		
	ISA 150 X 150 X 10	1*8	0.945			22.8	172.368		
	Total Quantity						87589.674 kg		
	Total Deducted Quantity						0.000 kg		
	Net Total Quantity						87589.674 kg		
	Say 87589.674 kg @ Rs 6.09 / kg						<b>Rs 533421.11</b>		
SI No	Description	No	L	B	D	CF	Quantity	Remark	
<b>19 F13 - Supply of materials, fabrication and erection of hoist assembly</b>									
1	od140850/2019_2020 Supplying and stacking of 6Tonne capacity rack and pinion hoisting unit assembly								
		1*8					8.000		
	Total Quantity						8.000 set		
	Total Deducted Quantity						0.000 set		

		Net Total Quantity					8.000 set	
		Say 8.000 set @ Rs 879122.70 / set					<b>Rs 7032981.60</b>	
2	85.101 Supply of MS plates confirming to IS 2062GrB including cost of conveyance charges	MS plates						
	Pinion2 shaft support case	1*8	162.000				1296.000	
	Wheel shaft support case	1*8	124.000				992.000	
	Motor mount vertical plate	1*8	0.550	0.650	0.050	7850.0	1122.551	
	Motor mount base plate	1*8	0.550	1.300	0.050	7850.0	2245.101	
	Motor mount stiffener plate	1*8	0.575	1.295	0.050	7850.0	2338.123	
	Anchor plate	8*8	0.150	0.150	0.016	7850.0	180.864	
	Wheel mounting base plate	1*8	0.400	0.400	0.025	7850.0	251.201	
	Wheel mounting vertical plate	1*8	0.400	0.970	0.025	7850.0	609.160	
	Wheel mounting vertical stiffener plate	1*8	0.345	0.965	0.025	7850.0	522.693	
	Wheel mounting vertical stiffener plate	1*8	0.345	0.965	0.025	7850.0	522.693	
	Wheel mounting top plate	1*8	0.400	0.700	0.025	7850.0	439.600	
	Wheel mounting top stiffener plate	1*8	0.190	0.695	0.025	7850.0	207.319	
	Hinge pin	1*8	7.100				56.800	
	Spacer OD 150 ID 100 tk10	2*8	0.150	0.150	0.010	7850.0	28.260	
	Hinge base	1*8	0.300	0.580	0.020	7850.0	218.544	
	Hinge plate	2*8	0.190	0.300	0.020	7850.0	143.184	
	Hinge base plate stiffener	2*8	0.095	0.100	0.012	7850.0	14.319	
	Hinge base plate stiffener 2	2*8	0.100	0.385	0.012	7850.0	58.028	



	Hinge base plate stiffener 3	2*8	0.250	0.430	0.012	7850.0	162.024	
	Total Quantity						11408.464 kg	
	Total Deducted Quantity						0.000 kg	
	Net Total Quantity						11408.464 kg	
	Say 11408.464 kg @ Rs 64.18 / kg						<b>Rs 732195.22</b>	
3	od140897/2019_2020 Fabrication, supply and erection of Hoisting supporting structure and hoisting unit in structural steel confirming to IS2062Gr etc as per approved specifications, drawings and directions of deptl officer at site including cost of labour, machinery, allied works etc complete but excluding material already supplied 							
	MS plate							
	Pinion 2 shaft support case	1*8	162.000				1296.000	
	Wheel shaft support case	1*8	124.000				992.000	
	Motor mount vertical plate	1*8	0.550	0.650	0.050	7850.0	1122.551	
	Motor mount base plate	1*8	0.550	1.300	0.050	7850.0	2245.101	
	Motor mount stiffener plate	1*8	0.575	1.295	0.050	7850.0	2338.123	
	Anchor plate	8*8	0.150	0.150	0.016	7850.0	180.864	
	Wheel mounting base plate	1*8	0.400	0.400	0.025	7850.0	251.201	
	Wheel mounting vertical plate	1*8	0.400	0.970	0.025	7850.0	609.160	
	Wheel mounting vertical stiffener plate	1*8	0.345	0.965	0.025	7850.0	522.693	
	Wheel mounting vertical stiffener plate	1*8	0.345	0.965	0.025	7850.0	522.693	
	Wheel mounting top plate	1*8	0.400	0.700	0.025	7850.0	439.600	
	Wheel mounting top stiffener plate	1*8	0.190	0.695	0.025	7850.0	207.319	
	Hinge pin	1*8	7.100				56.800	
	Spacer OD 150 ID 100 tk 10	2*8	0.150	0.150	0.010	7850.0	28.260	

	Hinge base	1*8	0.300	0.580	0.020	7850.0	218.544	
	Hinge plate	2*8	0.190	0.300	0.020	7850.0	143.184	
	Hinge base plate stiffener	2*8	0.095	0.100	0.012	7850.0	14.319	
	Hinge base plate stiffener 2	2*8	0.100	0.385	0.012	7850.0	58.028	
	Hinge base plate stiffener 3	2*8	0.250	0.430	0.012	7850.0	162.024	
Total Quantity							11408.464 kg	
Total Deducted Quantity							0.000 kg	
Net Total Quantity							11408.464 kg	
Say 11408.464 kg @ Rs 56.21 / kg							<b>Rs 641269.76</b>	
SI No	Description	No	L	B	D	CF	Quantity	Remark
<b>20 Shifting of Utilities LS</b>								
Lump-Sum Total						<b>Rs 200000.00</b>		
Provision for GST payments (in %) @							<b>12.0%</b>	
Amount reserved for GST payments						<b>68462642.97</b>		
Total						<b>638984667.97</b>		
Lumpsum for round off						<b>15332.03</b>		
<b>TOTAL Rs 639000000.00</b>								
<b>Rounded Total Rs 63,90,00,000</b>								
<b>Rupees Sixty Three Crore Ninety Lakh Only</b>								

(Cost Index Applied for this estimate is 31.06%)