

Guwahati Water Supply Project

(JICA Loan No. ID-P201)

Contract Package No.: C#04

Supply, Installation, Construction and Commissioning of Rising & Transmission Main

(Gravity Mains, Pressure Mains) Reservoirs (MBR, Main Service Reservoirs &

Sub Zone Reservoirs) for the South Central Zone. (Item Rate)

Contract Agreement

Priced Bill of Quantities

Summary of Prices




Chief Executive Officer
Guwahati Metropolitan Dev. Authority

Contract Package No. : C - 04
Supply, Installation, Construction and Commissioning of Rising & Transmission Main
(Gravity Mains, Pressure Mains) Reservoirs (MBR, Main Service Reservoirs
& Sub Zone Reservoirs) & Pumping station for the South Central Zone.

Summary of Prices

Sr. nos	Particulars	Total Amount		
		Basic Rate	Local Applicable taxes and duties etc.	Foreign
1.01	Transmission Mains			
	Earth Work	113,497,684		
	Concrete and Allied Work	2,971,409	1,944,305	
	Pipelines, Specials and Appurtenances	519,483,782	44,800	7,808,248
	Sub Total	635,952,874	9,797,352	
1.02	Pumping station at Narkasur			
	Civil Works	31,629,989		958,486
	Mechanical Works	10,040,220		200,811
	Electrical Works	10,804,389		217,093
	Sub Total	52,474,598		1,376,390
1.03	Reservoir at Ramsha Hill -1			
	Civil Works	141,296,592		3,701,154
	Mechanical Works	51,484,278		1,029,739
	Electrical Works	493,649		9,987
	Sub Total	193,274,519		4,740,880
1.04	Reservoir at Ramsha Hill -2			
	Civil Works	7,001,074		173,256
	Mechanical Works	17,299,462		346,029
	Electrical Works	649,254		13,218
	Sub Total	24,949,790		532,503
1.05	Reservoir at Amiya Nagar			
	Civil Works	118,813,187		3,108,122
	Mechanical Works	30,180,476		603,658
	Electrical Works	640,569		13,020
	Sub Total	149,634,232		3,724,800
1.06	Reservoir at Geeta Nagar -1			
	Civil Works	56,139,780		1,471,136
	Mechanical Works	56,091,682		1,121,881
	Electrical Works	637,226		12,971
	Sub Total	112,868,688		2,605,988
1.07	Reservoir at Geeta Nagar -2			
	Civil Works	11,011,125		279,395



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& Sub Zone Reservoirs) & Pumping station for the South Central Zone.

Summary of Prices

Sr. nos	Particulars	Total Amount		
		Basic Rate	Local Applicable taxes and duties etc.	Foreign
	Mechanical Works	16,779,574	335,638	
	Electrical Works	518,980	10,511	
	Sub Total	28,309,679	625,544	
1.08	Reservoir at Lichubagan			
	Civil Works	33,860,315	874,237	
	Mechanical Works	11,007,537	220,198	
	Electrical Works	549,578	11,125	
	Sub Total	45,417,430	1,105,560	
1.09	Reservoir at Narkasur			
	Civil Works	54,660,652	1,440,852	
	Mechanical Works	18,456,563	369,178	
	Electrical Works	640,569	13,020	
	Sub Total	73,757,784	1,823,050	
1.10	Reservoir at Sonaighuli			
	Civil Works	160,712,781	4,247,936	
	Mechanical Works	36,447,178	728,991	
	Electrical Works	644,161	13,093	
	Sub Total	197,804,120	4,990,020	
2.00	Access Road			
	Ramsahill	35,033,569	791,080	
2.01	Amiya Nagar	34,047,765	737,245	
2.02	Geeta Nagar (I)	9,120,611	199,370	
2.03	Geeta Nagar (II)	23,002,625	493,023	
2.04	Luchibagan	28,750,962	624,121	
2.05	Narkasur	58,764,001	1,403,186	
2.06	Sonaighuli	15,480,238	332,364	
	Sub Total	204,199,769	4,580,388	
3.00	Days work			
	Sub Total	2,606,650	0	
	Grand Total	1,721,250,134	35,902,385	
	Total Amount	1,757,152,519		



Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

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Priced Bill of Quantities for Transmission Mains




Chief Executive Officer
Guwahati Metropolitan Dev. Authority

Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate			Amount			
				Local		Foreign	Local		Foreign	
				Basic Rate	Applicable taxes and duties etc.		Basic Rate	Applicable taxes and duties etc.		
1.0	EARTH WORK									
1.01	Earth work in excavation in foundation trenches, pipeline trenches, valve chamber, thrust block, WBM and asphalt road, brick and stone masonry etc. in all kinds of soils such as murum, sand, sandy silt, clay, kankar etc. including dressing, rammimg of bottoms including shoring, strutting, Dewatering whenever required taking out the excavated soil and depositing, and disposal of surplus excavated earth, sand, murum, sludge etc to a place identified by the Contractor and approved by the Engineer including loading, unloading, stacking etc complete. (Depth of excavation measured from the existing ground level to the formation level, backfilling is not included)									
A	For Pipe line trenches, pipe encasing, etc									
(a)	0 to 1.5m depth	m ³	85,325	72.00	2.00		6,143,400	170,650		
(b)	1.5 to 3.0 m depth	m ³	54,813	85.00	2.00		4,659,105	109,626		
(c)	3.0 to 4.5 m depth	m ³	5,374	104.00	2.00		558,896	10,748		
B	For Valve Chamber etc									
(a)	0 to 1.5m depth	m ³	369	72.00	2.00		26,568	738		
(b)	1.5 to 3.0 m depth	m ³	31	85.00	2.00		2,635	62		
(c)	3.0 to 4.5 m depth	m ³	18	104.00	2.00		1,872	36		




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Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
1.02	Earth work in excavation in foundation trenches or drains, pipeline trenches, valve chamber, thrust block, WBM and asphalt road etc. in soft rock/ordinary rock including dressing of sides, ramming of bottoms, including shoring, strutting, Dewatering whenever required taking out of excavated soil and depositing and disposal of surplus excavated earth, sand, murrum, sludge etc to a place identified by the Contractor and approved by the Engineer including loading, unloading, stacking etc complete. (Depth of excavation measured from the existing ground level to the formation level, backfilling is not included).						
A	For Pipe line trench						
(a)	0 to 1.5m depth	m ³	8,532	98.00	2.00	836,136	17,064
(b)	1.5 to 3.0 m depth	m ³	5,481	111.00	2.00	608,391	10,962
(c)	3.0 to 4.5 m depth	m ³	537	143.00	3.00	76,791	1,611
B	For Valve Chamber						
(a)	0 to 1.5m depth	m ³	41	98.00	2.00	4,018	82
(b)	1.5 to 3.0 m depth	m ³	7	111.00	2.00	777	14
(c)	3.0 to 4.5 m depth	m ³	3	143.00	3.00	429	9
1.03	Providing and laying bouldersoling in river crossing section	m ³	8	1,428.00	22.00	11,424	176
1.04	Filling in pipeline trenches, foundation, chambers etc. with approved excavated soil (excluding rock) including depositing in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering including lead up to 50m and lift upto 4.5m, including compaction to achieve 90% Standard Proctor density etc., complete	m ³	99,398	33.00	1.00	3,280,134	99,398



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Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Foreign	Local	Foreign
				Basic Rate	Applicable taxes and duties etc.	Basic Rate	Applicable taxes and duties etc.
1.05	Filling in plinth, trench with well graded river sand including watering, ramming, consolidating and dressing complete including cost of sand as per drawing and specifications around pipe to achieve Class N bedding. For soft Rock	m ³	11,044	221.00	4.00	2,440,773	44,177
1.06	Sub Base % Base for restoration of existing Providing, and constructing granular sub-base with close graded grading-I material for 150 mm compacted thickness and wet mix mecadam with graded stone aggregate for 250 mm thickness including premixing the material with water at OMC in mechanical mixing plant, carting to work side, spreading and compacting etc complete for all leads and lifts as per drawing and specification.	m ²	56,883	909.00	14.00	51,706,647	796,362
1.07	Bituminous surface for restoration of existing asphalt Providing and constructing Asphalt road consisting of providing and applying tack coat over W/MM surface with bitumen emulsion (for normal bitumen surface), providing and laying bituminous mecadam with 100-120 TPH hot mixed plant using crushed aggregate of grading - I material for 50 mm compacted thickness, and providing close graded premix surfacing with material of type-B for 20 mm compacted thickness with mechanical means using HMP of appropriate capacity, including transportation spreading to required grade, rolling etc complete for all leads and lifts, as per drawing and specification.	m ²	45,506	948.00	15.00	43,139,688	682,590
SUB TOTAL						113,497,684	1,944,305




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Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local		Foreign	
				Basic Rate	Applicable taxes and duties etc.	Basic Rate	Applicable taxes and duties etc.
2.00	Concrete and Allied Works						
2.01	Providing and laying Plain cement concrete M-15 grade PCC for all types of Valve chamber, thrust block, anchor block, anti-floatation block etc vibrating mix with respect with vibrations complete in all respect with 40mm/25 stone aggregate (crusher broken) including fine finish of surface to required camber / super elevation and grade including curing as per specifications.	m ³	10.54	5,840.00	88.00	61,554	928
2.02	Providing and laying in position machine batched, machine mixed and machine vibrated design mix concrete of specified grade for reinforced cement concrete structural elements, including the cost of centering and shuttering and reinforcement including rendering in cement mortar 1:3 (1 cement : 3 coarse sand) and making good the joints and admixtures in recommended proportions as per IS 9103 to accelerate retard setting of concrete improve workability without impairing strength and durability as per direction of Engineer-in-charge.						
	M20 grade for all type valve chambers	m ³	227	6,618.00	100.00	1,502,286	22,700
	M25 grade for River Crossing	m ³	21	13,885.00	209.00	291,585	4,389
2.03	Providing and fabricating reinforcement for RCC work including pipe incasement straightening, cutting, bending, placing in position and binding (including cost of binding wire) all complete etc as per specification and drawing.						
	Thermo-mechanically Treated Bars (Fe 415 grade)	MT	8	58,393.00	876.00	467,144	7,008
2.04	Providing and fixing in position precast SFRC Covers for butterfly valve chamber, Air valve chamber etc and for covering manhole of scour valve chambers in concrete grade M20 of any size and shape including all precasting work, curing etc.. complete.	m ³	50	5,878.00	104.00	343,900	5,200



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Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
2.05	Structural steel work in single section fixed with connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete above plinth level upto 4.5 meter height in R.S. joist flats, tees, angles and channels.	MT	5	60,988.00	915.00	304,940	4,575
			SUBTOTAL			2,971,409	44,800
3.0	Pipelines, Specials and Appurtenances						
3.01	Providing, Supplying and fabricating spirally welded MS pipes of following internal diameters and thicknesses as per Specifications and as per IS 2062, IS 3585 and IS 5504. The rate shall include all local and central taxes. Third party inspection, transportation, freight charges, loading and unloading, conveyance to site and stacking the same, cost of all labour, material and giving satisfactory testing as per technical specifications. complete in all respects as per Specifications and Drawings. Unit Rate shall include lining and coating.						
a	1700 mm ID 12 mm thick	m	380	46883	704.00	17,815,540	267,520
b	1650 mm ID 20 mm thick	m	30	61590	924.00	1,847,700	27,720
c	1500 mm ID 16 mm thick for Pumping mains	m	2,030	39335	591.00	79,850,050	1,199,730
d	1500 mm ID 10 mm thick for Transmission mains	m	1,190	28733	431.00	34,192,270	512,890
e	1400 mm ID 10 mm thick	m	1,030	27193	408.00	28,008,790	420,240
f	1200 mm ID 10 mm thick	m	500	22739	342.00	11,369,500	171,000
g	1200 mm ID 20 mm thick	m	30	37005	556.00	1,110,150	16,680
h	1000 mm ID 8 mm thick	m	1,770	16471	248.00	29,153,670	438,960
i	900 mm ID 8 mm thick	m	3,115	15171	228.00	47,257,665	710,220
j	800 mm ID 6 mm thick	m	7,700	11420	172.00	87,934,000	1,324,400
k	700 mm ID 6 mm thick	m	8,720	9655	145.00	84,191,600	1,264,400
i	600 mm ID 6 mm thick for railway crossing	m	10	8584	129.00	85,840	1,290
m	500 mm ID 6 mm thick	m	3,345	7913	119.00	26,468,985	398,055
n	300 mm ID 5 mm thick For washout	m	30	3601	55.00	108,030	1,650



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Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
o	250 mm ID 5 mm thick For washout	m	30	3282	50.00	98,460	1,500
p	150 mm ID 5 mm thick For washout	m	30	2649	40.00	79,470	1,200
3.02	Providing, and Supplying of All types of MS specials such as tees, tapers, tail pieces, man hole covers, bearing plates, flanges, for MS pipe to MS pipe connection, valve connections, MS Anchor bolts, Straps, Air vent pipe of different dia and dismentling joint etc of various sizes, manufactured from Fe 410 grade MS plates having thickness not less than the pipes with standard flanges not less than 16 mm thick wherever required complete in all respect as per specification and Drawings including loading, transportation to work site, unloading and stacking, etc complete with cost of third party inspection, all the material and labour, taxes and duties for all leads and lifts involved. Negative tolerance will not be allowed in respect of the thickness of MS specials. Unit Rate shall include lining and coating.	MT	171	114736	1,722.00	19,619,856	294,462
3.03	Handling, aligning, laying and jointing to correct line and level pipes, and specials etc in trenches. The rate to include transportation of pipes and specials from store yard to site, loading, unloading, hoisting, lowering, marginal cutting, wherever necessary, assembling, providing temporary supports etc., all with approved equipment complete for pipes of following diameters and thickness, the rate also shall include Radiography of field joints, bend test, etc as specified, as per Specification and Drawings.	m					
a	1700 mm ID 12 mm thick	m	380	2,336.00	36.00	887,680	13,680
b	1500 mm ID 16 mm thick for Pumping mains	m	2,030	1,882.00	29.00	3,820,460	58,870
c	1500 mm ID 10 mm thick for Transmission mains	m	1,190	1,817.00	28.00	2,162,230	33,320
d	1400 mm ID 10 mm thick	m	1,030	1,720.00	26.00	1,771,600	26,780
e	1200 mm ID 10 mm thick	m	500	1,623.00	25.00	81,500	12,500
f	1000 mm ID 8 mm thick	m	1,770	1,428.00	22.00	2,527,560	38,940



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Package-4 Transmission Mains for the South Central Zone

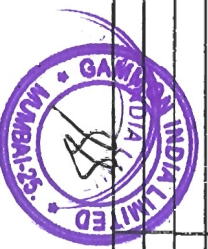
Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
g	900 mm ID 8 mm thick	m	3,115	1,363.00	21.00	4,245,745	65,415
h	800 mm ID 6 mm thick	m	7,700	1,103.00	17.00	8,493,100	130,900
i	700 mm ID 6 mm thick	m	8,720	844.00	13.00	7,359,680	113,360
j	600 mm ID 6 mm thick for railway crossing	m	10	734.00	12.00	7,340	120
k	500 mm ID 6 mm thick	m	3,345	617.00	10.00	2,063,865	33,450
l	300 mm ID 5 mm thick For washout	m	10	552.00	9.00	5,520	90
m	250 mm ID 5 mm thick For washout	m	10	520.00	8.00	5,200	80
n	150 mm ID 5 mm thick For washout	m	10	500.00	8.00	5,000	80
VALVES AND APPURTENANCES							
3.04	Supplying and fixing in position true to line and level, following diameters and rating double flanged Butterfly valves with manually operated as per IS 13095 of approved make with accessories and as per specifications and drawings. The rate shall include loading, unloading, Third party inspection, hoisting with the help of approved equipment, supplying and fixing of seals, packing nuts, bolts etc. The rate shall include for approved anti-corrosive painting and testing and touch up at site as required.	Nos.	4	433038	6,496.00	1,732,152	25,984
a	1200 mm dia PN i.6 rating	Nos.	1	908958	13,635.00	908,958	13,635
b	800 mm dia	Nos.	4	159636	2,395.00	638,544	9,580
c	700 mm dia	Nos.	1	133939	2,010.00	133,939	2,010
d	600 mm dia	Nos.	4	118330	1,775.00	473,320	7,100
e	500 mm dia	Nos.	1	81247	1,219.00	81,247	1,219
3.05	Railway crossing with Jacking and Pushing method including construction of jacking platform, Thrust arrangement, installation required capacity, hydraulic jack with required compressors, excavation inside the pipe line etc complete as per drawing and specification of following diameter of pipe						
a	Jacking and pushing of 1650 mm ID 20 mm thickness	m	30	59,690.00	896.00	1,790,700	26,880
b	Jacking and pushing of 1200 mm ID 20 mm thickness	m	30	46,714.00	701.00	1,401,420	21,030



Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate		Amount		
				Local	Foreign	Local	Foreign	
				Basic Rate	Applicable taxes and duties etc.	Basic Rate	Applicable taxes and duties etc.	
3.06	Supply and installation of 800 mm dia Bulk flow meter propeller type suitable to measure Min flow 130 LPS and max 1200 LPS on distribution outlet for Ramsahill to distribution zone at the location as shown on Transmission system Drawings at 380 m from Ramsahill reservoir. Rates including third party inspection.	Nos.	1	360824	5,413.00	360,824	5,413	
3.07	Supplying and fixing in position true to line and level, Flow Control valve of 800 mm dia PN 1.6 and as per drawing and specification. Rates including third party inspection.	Nos.	1	2268563	34,029.00	2,268,563	34,029	
3.08	Supplying and fixing in position true to line and level, kinetic double orifice cast steel air valves of following rating with flanged ends, cast steel isolating valves, with cap, ISI marked with EPDM rubber gaskets, and MS nuts & bolts as per requirements, field testing and commissioning etc complete as per specification and drawings for all leads and lifts. The rate shall include for approved anti-corrosive painting and testing, third party inspection and touch up at site as required.							
	a	200 mm dia PN 1.6 rating	Nos.	6	47810	718.00	286,860	4,308
	b	200 mm dia PN 2.5 rating	Nos.	3	113847	1,708.00	341,541	5,124
	c	150 mm dia PN 1.6 rating	Nos.	30	40849	613.00	1,225,470	18,390
	d	100 mm dia PN 1.6 rating	Nos.	4	28065	421.00	112,260	1,684
	e	80 mm dia PN 1.6 rating	Nos.	2	19836	298.00	39,672	596
3.09	Supplying, hoisting, lowering in position and fixing in true to line and level following diameters scour valves / wash out of approved make with accessories as per specifications and Drawings. The rate shall include cost of spun yarn, fiber, asbestos ring, rubber packing, bolts, nuts, third party inspection etc. The rate shall include for approved anti-corrosive painting and testing.							
		300 mm Size Valve PN 1.6 rating	Nos.	2	61012	916.00	122,024	1,832
		300 mm Size Valve PN 2.5 rating	Nos.	2	116802	1,753.00	233,604	3,506
		200 mm Size Valve PN 1.6 rating	Nos.	3	37563	564.00	112,689	1,692



Chief Executive Officer
 Sunwahall Mahapalukan Dev. Authority

Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate		Amount		
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.	Foreign
	150 mm Size Valve PN 1.6 rating	Nos.	18	26048	391.00	468,864	7,038	
	80 mm Size Valve PN 1.6 rating	Nos.	2	13004	196.00	26,008	392	
3.10	Manufacturing and supplying mild steel stubs with pad plates and flanges as per specifications and drawings for air valves, scour valves and fixing to the pipeline after cutting and proper finishing; as directed by Engineer, including 2 coats of painting over primer.							
	For and Scour Valves	MT	2	114736	1,722.00	229,472	3,444	
3.11	Providing, Laying and Jointing RCC class NP-2 Non-pressure pipes (IS-458) of approved make with collars jointed with CM 1:2 or having Spigot and Socket ends with flexible rubber rings (EPDM) joints including testing of joints etc complete.							
	a 400 mm dia.	m	50	12008	181.00	600,400	9,050	
	b 300 mm dia.	m	50	2115	32.00	105,750	1,600	
	c 250 mm dia.	m	50	1741	27.00	87,050	1,350	
	d 200 mm dia.	m	50	1381	21.00	69,050	1,050	
	e 150 mm dia.	m	50	861	13.00	43,050	650	
3.12	DUCTILE IRON PIPES							
	Providing, lowering, laying and jointing K-9 Ductile Iron pipes, spigot and socket type with rubber ring joints as per IS 8329 and Specifications, with internal cement mortar lining and external Metallic Zinc Coating with Finishing layer of Epoxy coating applied per specifications for potable water supply, including cost of EPDM rubber ring as per IS 5382, including transportation, freight charges, loading and unloading, conveyance to site and stacking the same, cost of all labour, material and giving satisfactory Hydraulic field testing and Commissioning as per technical specifications & third party inspection etc complete for following nominal diameters.							
a	150 mm ID DI - K9 pipe	m	500	1429	22.00	714,500	11,000	



Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate			Amount		
				Basic Rate	Local Applicable taxes and duties etc.	Foreign	Local Basic Rate	Local Applicable taxes and duties etc.	Foreign
3.13	Providing and Laying DI Specials and fittings as per IS 9523, 2000: Tee's, Socket, tail pieces, flanged tapers, Double flanged short pipes, all bends, dismentling joints etc and all types of specials as required for the work suitable for various sizes of DI pipes including cost of EPDM rubber ring as per IS 5382, including Third party inspection, transportation, freight, loading & unloading, stocking, joining with jointing material etc., inclusive all, complete of sizes required for DI pipes.								
	All Specials (DI -K9)	MT	5	122108	1,832.00		610,540	9,160	
3.14	Hydraustatic test as per IS 8329 at site on laid pipes and as per specification including cost of water, equipment, man power, electricity etc complete in all respect.								
a	1700 mm ID 12 mm thick	m	380	39.00			14,820	0	
b	1500 mm ID 16 mm thick for Pumping mains	m	2,030	37.00			75,110	0	
c	1500 mm ID 10 mm thick for Transmission mains	m	1,190	37.00			44,030	0	
d	1400 mm ID 10 mm thick	m	1,030	33.00			33,990	0	
e	1200 mm ID 10 mm thick	m	500	29.00			14,500	0	
f	1000 mm ID 8 mm thick	m	1,770	26.00			46,020	0	
g	900 mm ID 8 mm thick	m	3,115	24.00			74,760	0	
h	800 mm ID 6 mm thick	m	7,700	20.00			154,000	0	
i	700 mm ID 6 mm thick	m	8,720	16.00			139,520	0	
j	600 mm ID 6 mm thick for railway crossing	m	10	13.00			130	0	
k	500 mm ID 6 mm thick	m	3,345	11.00			36,795	0	
l	150 mm ID DI - K9 pipe	m	500	7.00			3,500	0	
3.15	Disinfecting water mains by flushing with water containing bleaching powder as per specification and cleaning the same with fresh water, including getting the sample of water from the disinfected main tested in the municipal laboratory.								
a	1700 mm ID 12 mm thick	m	380	20.00			7,600	0	
b	1500 mm ID 16 mm thick for Pumping mains	m	2,030	19.00			38,570	0	



Chief Executive Officer
 Guwahati Metropolitan Development Authority

Package-4 Transmission Mains for the South Central Zone

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
c	1500 mm ID 10 mm thick for Transmission mains	m	1,190	19.00		22,610	0
d	1400 mm ID 10 mm thick	m	1,030	17.00		17,510	0
e	1200 mm ID 10 mm thick	m	500	15.00		7,500	0
f	1000 mm ID 8 mm thick	m	1,770	13.00		23,010	0
g	900 mm ID 8 mm thick	m	3,115	8.00		24,920	0
h	800 mm ID 6 mm thick	m	7,700	7.00		53,900	0
i	700 mm ID 6 mm thick	m	8,720	6.00		52,320	0
j	600 mm ID 6 mm thick for railway crossing	m	10	7.00		70	0
k	500 mm ID 6 mm thick	m	3,345	6.00		20,070	0
l	150 mm ID DI - K9 pipe	m	500	4.00		2,000	0
SUB TOTAL						519,483,782	7,808,248
GRAND TOTAL						635,952,874	9,797,352




Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

P.M.

Priced Bill of Quantities for Pumping Station at Narkasur




Chief Executive Officer
Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount			
				Local		Foreign	Local		Foreign
				Basic Rate	Applicable taxes and duties etc.		Basic Rate	Applicable taxes and duties etc.	
1. CIVIL WORKS									
1.0	Site clearance by cleaning and grubbing Reservoir area including uprooting rank vegetation including grass, shrubs, bushes, removing temporary structure, removing all trees coming in the alignment with all contractor's machinery, labour, tools & plants, including obtaining permission from concerned departments and taking out all cut materials by the agency with all lead and lift complete as directed by Engineer and as per standard specification in the entire proposed Reservoir area	LS	1	68,773.00	1,376.00		68,773	1,376	
1.01	Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murrum, including removing and disposing of the surplus excavated material from site and stacking and spreading as directed, including dewatering where necessary, preparing the bed for foundation etc. complete.	m ³	650	59.00	2.00		38,350	1,300	
	Upto all lift								
1.02	Excavation for foundation / pipe trenches in soft rock or ripplable rock at all levels and depth below ground including removing and disposing of the surplus excavated materials from the site and stacking and spreading as directed, including dewatering where necessary, preparing the bed for foundation etc. complete.								
	Upto all lift	m ²	250	78.00	2.00		19,500	500	
1.03	Excavation for foundation / pipe trenches in hard rock or non ripplable rock at all levels and depth below ground including removing and disposing of the surplus excavated materials up to the site and stacking and spreading as directed including dewatering where necessary, preparing the bed for foundation etc. complete.								
	Upto all lift	m ³	250	221.00	5.00		55,250	1,250	



Chief Executive Officer
Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
1.04	Filling with excavated soil including watering, ramming, consolidating and dressing complete and disposal of surplus excavated materials to a place identified by the Contractor and approved by the Engineer including loading, unloading, stacking etc complete as per drawing and specifications.						
	All kinds of soil	m ³	240	78.00	2.00	18,720	480
1.05	Providing and laying cement concrete (M:20) including curing, compaction etc. using hard broken stone aggregate 20 mm nominal size under the foundation and plinth, including cost of shuttering, complete. (For all Non structural Concrete)	m ³	60	5,840.00	117.00	350,400	7,020
1.06	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced concrete structural elements, including the cost of centering, Shuttering and reinforcement including curing, compaction, finishing and making good the joints and admixtures in recommended proportions as per IS 9103. M-30grade reinforced cement concrete. (For all structural Concrete)						
a	Floor slab	m ³	150	6,618.00	133.00	992,700	19,950
b	Column	m ³	250	6,618.00	133.00	1,654,500	33,250
c	Foundation	m ³	100	6,618.00	133.00	661,800	13,300
d	Beam	m ³	75	6,618.00	133.00	496,350	9,975
e	Roof slab	m ³	120	6,618.00	133.00	794,160	15,960
f	Retaining wall, foundation, conc ramp to pumping station etc	m ³	650	6,618.00	133.00	4,301,700	86,450




Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
1.07	Providing and fixing in position steel bar reinforcement (Top Steel Fe-415 Grade) of various diameters for RCC footings, foundations, slabs, beams, columns, Retaining wall, newels, chajjas, lintels, copings, chairs and accessories, rebars in service building B/W etc. as per specification and drawings; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete. (including cost of binding wire).						
	for Pumping station	Kg	340000	55.00	2.00	18,700,000	680,000
	For Retaining Walls	Kg	18000	55.00	2.00	990,000	36,000
1.08	Brick Masonry Construction of Brick masonry for super structure of 300 mm thick walls in CM (1:6) prop.using First class best quality table moulded bricks including cost and conveyance of all materials, labour, scaffolding, Curing etc., complet for finished item of work and as per drawing and specification.	m ³	110	3,634.00	73.00	399,740	8,030
1.09	Flooring						
a	Providing and laying IPS cement concrete flooring (with iron filling and flakes in flooring) 50 mm thick M:20 concrete laid to proper level and slope in alternate bays, including compacting, PVC/Glass/Aluminum strips at joints, marking lines to give appearance of tiles of 30 cm x 30 cm or other size laid diagonally/square etc. finishing smooth and curing complete.	m ²	200	390.00	8.00	78,000	1,600
b	Providing and laying Ceramic tile flooring in Control Room, bath room, chlorination room, and chlorination storage room using approved quality and finishing to required level, curing, etc., complete all as per specifications.	m ²	60	1,298.00	26.00	77,880	1,560



Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
1.10	Plastering						
a	Providing and applying cement plaster 6 mm thick to ceiling in single coat in cement mortar 1:3 with cut neeru finish to concrete surface in all positions including scaffolding and curing etc. complete.	m ²	500	143.00	3.00	71,500	1,500
b	Providing and applying internal cement plaster 12 mm thick in a single coat in cement mortar 1:4 without neeru finish to concrete or brick surface in all positions including scaffolding and curing complete. Providing groove at joint of Brick Masonry and concrete members complete.	m ²	500	117.00	3.00	58,500	1,500
1.11	PAINTING						
a	Providing and applying primer coat for wall surface as per	m ²	400	20.00	1.00	8,000	400
b	Providing and applying washable oil bound distemper of approved colour and shade to new surfaces in two coats including scaffolding; preparing the surfaces complete.	m ²	400	39.00	1.00	15,600	400
c	Providing and applying priming coat on concrete/masonry/ plastered surfaces including scaffolding if necessary, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter and sand papering as required as per specification.	m ²	400	20.00	1.00	8,000	400
d	Providing and applying exterior emulsion water based water proof cement paint (On Doors & Windows) of approved colour and shade to exterior old/new surface in two coats including scaffolding preparing the surface to receive paint etc. complete	m ²	100	29.00	1.00	2,900	100
e	Painting on new surface with ducco paint (1C or equivalent) to give an even shade (minimum 4 coats with preparation of surface by rubbing, primer coats, ducco filler putty including polishing etc complete :						
	on steel work	m ²	100	52.00	2.00	5,200	200



[Signature]
Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

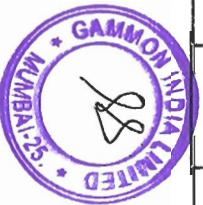
Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Foreign	Local	Foreign
				Basic Rate	Applicable taxes and duties etc.	Basic Rate	Applicable taxes and duties etc.
DOOR & WINDOW AND ROLLING SHUTTER							
a	Providing and fixing solid rolling shutters in as per drawings & specification, complete in all respect including welding, painting, finishing etc. complete	m ²	12	2,596.00	52.00	31,152	624
b	Providing and fixing internal steel frame of door including complete in all respect complete and size as per drawings and specification	m ²	5	2,596.00	52.00	12,980	260
c	Providing and fixing in position steel windows with operable frame, of approved quality, fixture and fastenings, handle, stopper etc. complete as per drawings and specification.	m ²	40	1,947.00	39.00	77,880	1,560
d	Providing and fixing grided rolling shutters in as per drawings & specification, complete in all respect including welding, painting, finishing etc. complete.	m ²	24	3,115.00	63.00	74,760	1,512
d	Providing and fixing 14 inch Roof ventilator including complete in all respect including welding, painting, finishing etc. complete and as per specification	LS	2	1,947.00	39.00	3,894	78
1.13	Providing and erecting 3.0 m high chain link fencing with chain link having hole size 65 mm x 65 mm supported on M.S. angle post of size 50 mm x 50 mm x 6 mm at 2.40 m c/c including excavating pits for foundation fixing post in M20 Concrete of size 45 cm x 45 cm x 45 cm fixing chain link with 3.25 mm (10 gauge) G.I. wire at top and bottom and with oil paint etc. complete and Providing and fixing steel frame 4.0 m wide Double leaf Entrance gate (exterior) complete in all respect including welding, painting, finishing etc. complete and as per drawings and specification..	m	100	2,725.00	55.00	272,500	5,500



Chief Executive Officer
Guvahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
Water proofing on Roof							
1.14	Providing and laying three layers of cold bituminous paint with two layers of polyester felt and gravel to roof and parapet walls for water proofing.	m ²	200	234.00	5.00	46,800	1,000
1.15	Paved area						
a	Providing, Laying, compacting Subgrade with selected job excavated material in paved area and access road within the fence line from existing subgrade to the underside of the basecourse as per drawings	m ³	760	273.00	6.00	207,480	4,560
b	Providing, Laying, compacting Base course 500 mm thick in paved area and access road within fence line as per drawings and	m ³	100	2,336.00	47.00	233,600	4,700
c	Providing, Laying, compacting asphalt concrete binder course 50 mm thick of paved area as per drawings and specification.	m ³	15	10,122.00	203.00	151,830	3,045
d	Providing, Laying, compacting Asphalt concrete surface course 30 mm thick of paved area as per drawings and specification.	m ³	10	10,122.00	203.00	101,220	2,030
1.16	Providing, Fixing and installation of all sanitary fixtures related Plumbing for the bath room / sanitation facilities with all accessories ISI marked fittings and Connections including cost of labour and material and preparation of plumbing shop drawings as part of the contractor post contract shopdrawing and as per specification.	LS	1	32,441.00	649.00	32,441	649
1.17	Providing, Fixing and installing local water supply by tapping the 700 mm MS Inlet (or Discharge) piping, and connecting to the bathroom .	LS	1	12,977.00	260.00	12,977	260



Chief Executive Officer
Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local		Foreign	
				Basic Rate	Applicable taxes and duties etc.	Basic Rate	Applicable taxes and duties etc.
1.18	Providing, Fixing and installation of Waste water pipe and manholes from the bathroom to the septic tank including cost of labour and material as per drawings and specifications.	LS	1	12,977.00	260.00	12,977	260
1.19	Providing, Fixing and installation of Septic tank and absorption pit as per drawings and specification: including cost of labour and material and as per drawings and specification..	LS	1	19,465.00	390.00	19,465	390
1.20	Providing, Fixing and installation of Traffic barrier complete in all respect (Type A) as per drawings and specification.	m	50	5,840.00	117.00	292,000	5,850
1.21	Providing and laying floor drain as per drawings including cost of labour and material.	m	30	1,724.00	35.00	51,720	1,050
1.22	Providing and laying Storm water / roof drain system of the reservoir including all: pipes, Manholes. Rates also include excavation, concreting, shuttering, steel, specials, pipes, fittings, etc complete in all respect as per drawings and specification.	LS	1	83,047.00	1,661.00	83,047	1,661
1.23	Providing, Fixing and installation of Fire hydrants system complete including fittings, valves, Pipes etc as per releavent IS code and as per drawings and specifications.	LS	1	22,709.00	455.00	22,709	455
1.24	Supply install polyethylene sheeting between gravel and PCC under Pump Station and retaining wall base.	m ²	250	26.00	1.00	6,500	250



Chief Executive Officer
Gurwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
1.25	Supply, install, 2 x 2 meters plexiglass window in wall between Control Room and Pump Room. Cost shall include framing, plexiglass, and all incidental costs.	LS	1	14,534.00	291.00	14,534	291
SUB TOTAL						31,629,989	958,486
2.0 MECHANICAL WORKS							
Installation of Mechanical Equipment including, but no limited to, safe storage, protection, erection, installation, pre-commissioning & commissioning testing as per specification and drawing for following items.							
2.01	Supplying, installing, commissioning & third party inspection and giving test and trail of Horizontal split casing pump including Motor as per specification and drawings.						
a	Pump, Motor, Base	Each	3	1,236,141.00	24,723.00	3,708,423	74,169
b	Design, Supply all materials, install pump pad/foundation	Each	3	110,281.00	2,206.00	330,843	6,618
Pump Discharge Piping							
2.02	Supplying, installing, commissioning & third party inspection of 400 mm dia. MS discharge pipe from Pumps to and connection to 700mm MS pipe to the Narkasur Reservoir; outlet with all fittings, all valves including, Solenoid check valve, pressure gauges, flanges, bends, tees, reducers enlargers, nuts, bolts and gaskets, sleeve coupling etc jointing with the pipe as per specification and drawings.	Each	3	608,186.00	12,164.00	1,824,558	36,492
Pump Inlet Piping							
2.03	Supplying, installing, commissioning & third party inspection of 500 mm dia. MS pipe from the 700mm MS pipe from Ramsa Hill reservoir to the pump inlet including connection to the 700mm pipe. Cost includes all fittings, all valves, pressure gauges, flanges, bends, tees, couplings, reducers enlargers, nuts, bolts and gaskets, sleeve coupling, etc jointing with the inlet pipe as per specification and drawings.	Each	3	613,986.00	12,280.00	1,841,958	36,840



Chief Executive Officer
Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Foreign	Local	Foreign
				Basic Rate	Applicable taxes and duties etc.	Basic Rate	Applicable taxes and duties etc.
2.04	Surge bypass section supplying, installing, commissioning & third party inspection of 300 mm dia. MS pipe from inlet to outlet surge bypass with all fittings, All valves, pressure gauges, flanges, bends, tees, reducers enlargers, nuts, bolts and gaskets, sleeve coupling etc joining with the inlet pipe as per specification and drawings..	LS	1	820,230.00	16,405.00	820,230	16,405
2.05	700 MS Inlet and Outlet Pipe Supplying, installing, commissioning & third party inspection of 700 mm ø MS pipe from the fence line to the surge bypass piping for Inlet and Outlet pipe from Ramsa Hill Reservoir/ to Narkasur reservoir including connection to 400 and 500 mm intake/discharge pipes, continuous thrust blocks, all fittings, flange, bends, tees, reducer nut, bolt etc complete in all respect and as per drawings and specification..	LS	1	660,450.00	13,209.00	660,450	13,209
2.06	Supplying, installing, commissioning & third party inspection of Monorail (manually operated) of capacity 3.0 T with all accessories, cable, connection, etc complete in all respect and as per specification and drawings. Contractor is responsible for and cost shall include selecting I beam, designing connection of I beam to roof beams, preparing and submitting shop drawings to Engineer.	Nos	1	435,365.00	8,708.00	435,365	8,708
2.07	Supply and install Split Unit Air Conditioning for Control Room. Cooling Capacity should not be less than 20,000 BThU/Hr. Operating Voltage 230V	Each	1	241,106.00	4,823.00	241,106	4,823
2.08	Washout to Manhole Supplying, installing, 300 mm MS pipe from Surge bypass to manhole. Cost shall include connection to the 300 mm pipe all fittings, all valves, flanges, bends, tees, couplings, reducers enlargers, nuts, bolts and gaskets, sleeve coupling, etc and connecting to the manhole.	LS	1	152,923.00	3,059.00	152,923	3,059



Chief Executive Officer
Guvahatti Metropolitan Dev. Authority

Pumping Station at NARKASUR

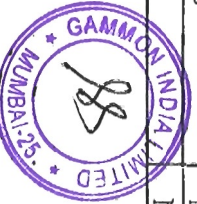
Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
2.09	Supply and Install hydrant . Cost shall include excavation, bedding, backfill, pipes, fittings, valves, valve box and all other items to complete installation.	Each	1	24,364.00	488.00	24,364	488
			SUB TOTAL			10,040,220	200,811
3.00	Electrical & Instrumentation Work						
	ELECTRICAL WORKS FOR PUMPS: Manufacturing, Testing at shop floor, Supply, Installation including related civil work like Transformer Base etc, Testing and Commissioning at site the following items / Systems as per Tender Specification to be located in the Fields						
3.01	GOD/DO along with CT, PT units for metering, ACSR Conductors, Insulators along with required accessories as per REC standards	Set	1	848,785.00	16,976.00	848,785	16,976
3.02	Providing , Laying, Terminations with Lugs and Glands of 11kV grade 3C X 120mm ² XLPE, aluminum armoured cable	m	30	995.00	20.00	29,850	600
3.03	500kVA Power Transformer with Off-Circuit Tap changer 11kV /0.433 kV including Transformer Base	Nos.	2	1,000,355.00	20,008.00	2,000,710	40,016
3.04	415 V Power Motor Control Centre (PMCC) with MFM meters, Protection, Control wiring, Indicating lamps, control switches etc, as per approved SLD and complete in all respect,	Set	1	422,422.00	8,449.00	422,422	8,449
3.05	415V Capacitor bank suitable as per the Motor rating	Set	3	10,524.00	211.00	31,572	533
3.06	Providing , Laying, Terminations with Lugs and Glands of 1.1kV grade XLPE, aluminum/copper armoured cable as under						
a	3.5CX240mm ² (Al)	m	50	1,517.00	31.00	75,850	1,550
b	4CX25mm ² (Al)	m	30	614.00	13.00	18,420	390
c	3.5CX120mm ² (Al)	m	60	1,299.00	26.00	77,940	1,560



Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Foreign	Local	Foreign
				Basic Rate	Applicable taxes and duties etc.	Basic Rate	Applicable taxes and duties etc.
d	3CX95mm2 (Al)	m	120	454.00	10.00	54,480	1,200
e	3CX2.5mm2 (Cu)	m	30	443.00	9.00	13,290	270
f	14Cx1.5 (Cu)	m	60	707.00	15.00	42,420	900
3.07	160KVA, 415V Diesel Generator Set with AMF panel, Exhaust System, Piping system, 200 liter Day oil tank, and 2500liter Bulk	Set	1	4,446,480.00	88,930.00	4,445,480	88,930
3.08	Construction of cable trench in floor of the size 1100mm W/X750 mm Depth	m	10	9,947.00	199.00	99,470	1,990
3.09	Cable Duct in floor Slab of Pump House of the size 200mmX200 mm	m	50	1,658.00	34.00	82,900	1,700
	INSTRUMENTATION SYSTEM FOR PUMPS: Manufacturing, Testing at shop floor, Supply, Installation, Testing and Commissioning at site following Instrumentation systems as per Specification. Located in the Fields and the Control Room.						
3.10	Instrument Control panel complete with all electrical accessories like Auto/Manual and On/Off Switches, Relays, PBs, Indicating lamps, PLC system etc duly wired and tested, meeting the operational requirements as per (i) Functional Design Specification (FDS) and (ii) 3 Nos Check Valves as per attached control logic (catalogue no. E-60-08/660-08 (R-10/2010) , complete with Operator Interface Unit / PC based control system, UPS, Printer along with all necessary softwares and hardware,required for the operation of the 3 Pumps(2D+1S)	Set	1	1,033,597.00	20,672.00	1,033,597	20,672
3.11	Remote Pressure measuring system for down and upstream line pressure indication in control room with alarm.	Set	2	10,942.00	219.00	21,884	438
3.12	Ultrasonic Level measuring system for the Tanks	Set	2	29,841.00	597.00	59,682	1,194
3.13	Push Burton Stations for manual operations of check valves	Set	3	3,316.00	67.00	9,948	201
3.14	Instrument and power supply Cables on "as required basis"	Lot	1	464,179.00	9,284.00	464,179	9,284
3.15	Field Cabinets with Fixtures to mount Field Instruments	Nos.	2	13,263.00	266.00	26,526	532
3.16	Junction Boxes	Nos.	2	1,658.00	34.00	3,316	68



Chief Executive Officer
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Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
3.17	150 mm 0-10 kg/sq.cm Pr Gauge complete with Snubber, isolating Valve and pig tail pipe etc	Nos.	8	21,883.00	438.00	175,064	3,504
3.18	0-6 / 0-10 kg/sq.cm range Pressure Switches	Nos.	2	4,974.00	100.00	9,948	200
Service Buildings Internal Lighting System							
Manufacturing, Testing at shop floor, Supply, Installation, Testing and Commissioning at site the following Items / Systems as per Tender Specification to be located in the Fields and the Control Room :-							
3.18	Lighting Distribution Board (DB)						
a	12 Way	Nos	1	17,795.00	356.00	17,795	356
b	16 Way	Nos	1	26,336.00	527.00	26,336	527
3.19	Providing & Fixing industrial fluorescent tube fitting with reflector fabricated from CRCA sheet and finished with powder coating / stove enamelled paint complete with accessories like Electronic Ballast, starter, terminal block duly prewired with copper conductor including making connection, testing etc. as required.						
a	2 X 28 Watts T5 lamp	Nos.	6	1,211.00	25.00	7,266	150
b	1 X 28 Watts T5 lamp	Nos.	15	499.00	10.00	7,485	150
c	Bulk Head fittings along with 100 W lamp	Nos.	6	997.00	20.00	5,982	120
d	Switches, Junction boxes, Ceiling rose, modular fittings for switches & sockets, Receptacles etc on as required basis	Lot	1	4,983.00	100.00	4,983	100
3.20	Point Wiring along with heavy duty PVC conduit complete with fittings, clasmps, nut bolts, etc.						
a	Short point (upto 3m)	Per Point	20	597.00	12.00	11,940	240
b	Medium point (upto 6m)	Per Point	12	863.00	18.00	10,356	216



Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local		Foreign	
				Basic Rate	Applicable taxes and duties etc.	Basic Rate	Applicable taxes and duties etc.
3.21	Pipe Earthing for SB's as per IS:3043 with perforated 3.0 Mtr. Long, 40 mm dia. 'B' class G.I. Pipe including all accessories like nut, bolts, reducer, nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300 mm and embodying the pipe complete with alternate layers salt and coke/ charcoal, testing of earth resistance	Nos.	1	26,336.00	527.00	26,336	527
3.22	Supply & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required.						
a	8 SWG G.I. Wire	m	300	22.00	1.00	6,600	300
b	25x6 mm GI Flat	m	100	46.00	1.00	4,600	100
c	50x10 mm GI Flat	m	50	93.00	2.00	4,650	100
3.23	Providing & Fixing metal clad industrial 3-phase, 5 Pin, 20Amp rating plug top & socket unit with pin and sleeve type contact on porcelain/Bakelite base in sheet steel enclosure with MCB including making connections with jugs, testing etc.as required for use as welding socket.	Nos	1	4,983.00	100.00	4,983	100
Service Buildings Out-Side Lighting System							
Manufacturing, Testing at shop floor, Supply, Installation, Testing and Commissioning at site the following items / Systems as per Tender Specification to be located in the Fields and the Control Room :-							



Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
3.24	Supply and erection of 7 mtr high Mild steel swaged tubular pole conforming to IS: 2713-1980 (part I to II) with galvanised base plate of size 400mm x 400mm x 7mm in position including excavation of the pit and filling the same with C.C. of M-20 grade from base plate to 50cm above ground level, with the help of steel frame not less than 40 cm dia up to 114.3mm outer dia and 50 cm beyond 114.3mm outer dia around the pole. Duly finished with cement plaster, earthing terminals, cable entry, GI cable sleeve complete as required. The pole shall be galvanised using ISI mark seamless tube for structural	Nos.	8	17,795.00	356.00	142,360	2,848
3.25	Providing & Fixing IP-54 protected street light luminaire suitable for HPSV/ MH lamp, made out from powder coated single piece die cast aluminium housing, electrochemically brightened and anodized POT optics aluminium reflector, UV stabilised acrylic bowl cover/toughened glass cover and accessories like copper ballast, electronic ignitor, capacitor, holder prewired up to terminal block etc. as required including making connection testing etc. as required.	Nos.	5	6,406.00	129.00	38,436	774
a	70 Watt HPSV	Nos.	5	6,406.00	129.00	38,436	774
b	150 Watt HPSV	Nos.	2	7,830.00	157.00	15,660	314
3.26	Providing & Fixing IP65 protected decorative lighting luminaire Post top suitable for following lamps, made of powder coated cast aluminium housing, moulded acrylic lamp compartment with built in anodized aluminium louvers for lamp shielding and glare control, metallic lid top cover, including the cost of control gear complete in all respect. Bollards are including cost of decorative base pipe/ plate	Nos.	2	3,559.00	72.00	7,118	144
a	70 Watt HPSV	Nos.	2	3,559.00	72.00	7,118	144



Chief Executive Officer
 Guwahati Metropolitan Dev. Authority

Pumping Station at NARKASUR

Item No.	Description	Unit	Quantity	Rate		Amount	
				Local	Applicable taxes and duties etc.	Local	Applicable taxes and duties etc.
3.27	Supply & Laying XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor armoured of IS:7098-i approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, 11nd class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size						
a	4/CX 25 mm ²	m	250	613.00	13.00	153,250	3,250
b	4/CX 16 mm ²	m	750	335.00	7.00	251,250	5,250
3.28	Supplying and making end terminations with heavy duty single compression brass gland SIBG type, aluminium lugs duty crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.						
a	4/CX 25 mm ²	Nos.	4	356.00	8.00	1,424	32
b	4/CX 16 mm ²	Nos.	18	321.00	7.00	5,778	126
c	Feeder Pillar	Nos.	1	1,068.00	22.00	1,068	22
			SUB TOTAL			10,804,389	217,003
			GRAND TOTAL			52,474,598	1,376,300



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Priced Bill of Quantities for Reservoir

RE




Chief Executive Officer
Guwahati Metropolitan Dev. Authority