

LATUR CITY MUNICIPAL CORPORATION

AUGMENTATION OF LATUR WATER SUPPLY SCHEME		
Part Wise Cost Abstract		
Sr.No.	Name of Sub-works	Ammount
	<u>CIVIL PART</u>	
1	Working Survey	25,00,000
2	Intake Well .(6.00 M Dia)	33,97,500
3	Inspection Well (5.00 M Dia)	16,94,800
4	Connecting Main (1400 MM Dia L = 80 M) TWO ROWS	1,00,07,000
5	Jack well & Pump House.(15.00 M Dia)	3,69,30,300
6	Approach Bund (Length 70 m)	27,73,600
7	Meter Room At Head Work	5,51,500
8	Estimate of Raw Water Rising Main (HW To M.S.Shaft) (1000 MM DIA D.I.K- 9 PIPES. L - 3615 M)	12,53,06,600
9	Estimate of M.S.Shaft	45,20,500
10	Estimate of Raw Water Gravity Main (M.S.Shaft to WTP) (1200MM Dia = 25390 M,1100 MM Dia=20500 & 700 MM Dia=800M D.I.K-7 PIPES)	1,99,05,97,600
	Total Cost	2,17,82,79,400

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AUGMENTATION OF LATUR WATER SUPPLY SCHEME				
Estimate of Survey Work				
ABSTRACT				
Description of Item / measurements	Qty	Rate	Unit	Amount
1	2	3	4	5
Item No. 1 : Provision for working survey including levelling compassing , taking trial pits , preperation of detail hydraulic designs , typing the designs and estimates and preparing the drawings and preparing 6 nos booklets etc complete.				
	Job	2500000.00	Lump sum	2500000.00
		Total Rs.		25,00,000

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AUGMENTATION OF LATUR WATER SUPPLY SCHEME				
Estimate of Intake Well (DIA - 6.0 M)				
ABSTRACT				
Description of Item	Qty	Rate	Unit	Amount
1	2	3	4	5
Item No. 1 :- Excavation in general in soft material comprising of soft soil, soft murum, sand, hard murum with boulders in wet or dry condition for Head Works i.e. Intake Well, Connecting Pipe, Jack Well, Pump House, Supply Well, etc. for lift 0 to 1.5 M and lead of 150 M including baricating, gurading, disposing off surplus excavated stuff within a radius of 0.5 km. as directed by Engineer-in- charge, etc. complete excluding refilling.				
Lift 0.0 to 1.5 m	176.81	510.00	Cum	90174.00
Item No. 2 :- Excavation in general in hard material comprising of soft rock ,hard rock,manjara rock etc by blasting / controlled blasting chiselling as required in wet or dry condition for Head Works i.e. Intake well, connecting pipe, Jack well, pump house, supply well, etc for lift 0 to 1.5 m and lead of 150 M including barricading gurading, disposing off surplus excavated stuff within a radius of 0.5 km as directed by Engineer in charge				
Lift 1.50 to 3.00 m	106.34	1149.00	Cum	122182.00
Lift 3.00 to 4.50 m	92.28	1180.00	Cum	108895.00
Lift 4.50 to 6.00 m	86.13	1211.00	Cum	104308.00
Lift 6.0 to 7.50 m	80.19	1242.00	Cum	99602.00
Lift 7.50 to 9.00 m	74.47	1273.00	Cum	94799.00
Lift 9.0 to 10.50 m	18.87	1304.00	Cum	24609.00
Item No. 3 :- Providing and casting in situ Cement concrete M-15 /1:2:4 grade of C.C. of trap / granite / quartzite / gneiss metal for foundation and bedding including dewatering , compacting and curing.etc. complete				
PCC for levelling course below slab .				
Lift 5.0 to 10.0 M.Below G.L	6.99	7279.39	Cum	50853.00
Item No. 4 :- Providing and casting in situ cement concrete of trap/granite/quartzite/ gneiss metal fo RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, form work, compaction, finishing and curing, etc.complete (By weigh batching and mix desing for M-250 and M-300 only. Use of L& T A.C.C Ambuja, Birla Gold, Manikgad, Rajashree, etc, cement is permitted.) Excluding m.S. or Tor reinforcement Reinforced Cement Concrete				
A) Footings M-300				
Lift 5.0 to 10.0 (Below G. L.)	10.90	9564.77	Cum	104223.00

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Item No. 5 : Providing and casting in situ cement concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as directed by Engineer-in-charge including normal dewatering, centring, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface where necessary or roughening if special finish is to be provided and curing, etc.complete (By weight batching and mix design for M-250 - and M-300 only. Use of L& T A.C.C Ambuja, Birla Gold, Manikgad, Rajashree, etc, cement is permitted.) Excluding M.S. or Tor reinforcement				
A)Vertical staining wall of well(Grade M - 300)				
a) Lift 0.00 to 5.00 Above Below G. L.	53.45	10724.47	Cum	573174.00
b) Lift 5.00 to 10.00 Above Below G. L.	23.75	11741.67	Cum	278907.00
Item No. 6 :- Providing and casting in situ cement concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as directed by Engineer-in-charge including normal dewatering, centring, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface where necessary or roughening if special finish is to be provided and curing, etc.complete (By weight batching and mix design for M-250 and M-300 only. Use of L& T A.C.C Ambuja, Birla Gold, Manikgad, Rajashree, etc, cement is permitted.) Excluding M.S. or Tor reinforcement				
B) Slabs (M-300)				
a) Lift 0.00 to 5.00 Above Below G. L.	10.26	10724.47	Cum	110086.00
Item No. 7 :- Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes, caps, footing, foundation, slabs, beams, columns, canopies staircases. Newels, chajjas, lintels, parades, copings, fins, arches, etc. as per detailed designs, drawings and schedules including cutting , bending ,hooking the bars ,binding with wires or tack welding and supporting as required etc complete (including cost of binding wire) Tor steel.				
Lift 0.00 to 5.00				
1.00% of Concrete Qty	5.001	80681.00	MT	403507.00
Lift 5.00 to 10.00				
1.00% of Concrete Qty	1.865	84715.05	MT	157965.00
Item No. 8 : - Providing and fixing in position steel fibre reinforced concrete (SFRC) frame and covers of approved make including loading,unloading, transportation, all taxes,etc.complete as directed by Engineer in Charge				
Size - 90 x 60 cm.	1.00	3798.00	No	3798.00

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ITEM No. 9 :- Dewatering the excavated trenches and pools of water in the building trenches/ pipeline trenches, well works by using pumps and other devices including disposing of water of safe distance as directed by Engineer-in-charge (including cost of machinery, labour, etc. complete as directed by Engineer-in-charge).				
Intake well of 6.0 M. dia.	1.00	287016.00	No	287016.00
ITEM No.10 :- Providing and fixing in position C.I. Type dapuri steps of 22 mm dia. M.S. bar step with proper anchorage, etc. and providing and applying 3 coats of anti-corrosive paint, etc complete as directed by Engineer-in-charge.				
ITEM No.11 :- Providing and fixing M.S. sluice gates in position as per detailed drawing and specification including cost of all materials, labour, operating pedestal, connecting rod, painting with three coats of anti-corrosive paint, etc. complete as directed by Engineer-in-charge.				
ITEM No.12 :- Providing and fixing in position C.I. /M.S. rose pieces in intake wells including cost of all materials and labour, painting with three coats of anti-corrosive oil paint, etc.complete as directed by Engineer-				
ITEM No.13:- Preparing designs of well from structural designer and getting it approved from appropriate authority. The drawing sets to be submitted in seven copies by the agency.				
Job Work	Job		L.S	10000.00
Total of subwork				3397426.00
	Say		Rs.	33,97,500

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AUGMENTATION OF LATUR WATER SUPPLY SCHEME				
Estimate of Inspection Well No. -1 (Dia - 2.0 M)				
ABSTRACT				
Description of Item	Qty	Rate	Unit	Amount
1	2	3	4	5
Item No. 1 :- Excavation in general in soft material comprising of soft soil, soft murum, sand, hard murum with boulders in wet or dry condition for Head Works i.e. Intake Well, Connecting Pipe, Jack Well, Pump House, Supply Well, etc. for lift 0 to 1.5 M and lead of 150 M including baricating, gurading, disposing off surplus excavated stuff within a radius of 0.5 km. as directed by Engineer-in- charge, etc. complete excluding refilling.				
Lift 0 to 1.5 M.	154.47	510.00	Cum	78781.00
Item No. 2 :- Excavation in general in hard material comprising of soft rock ,hard rock,manjara rock etc by blasting / controlled blasting chiselling as required in wet or dry condition for Head Works i.e. Intake well, connecting pipe, Jack well, pump house, supply well, etc for lift 0 to 1.5 m and lead of 150 M including barricading gurading, disposing off surplus excavated stuff within a radius of 0.5 km as directed by Engineer in charge				
Lift 1.50 to 3.00 M.	89.18	1149.00	Cum	102470.00
Lift 3.00 to 4.50 M	76.35	1180.00	Cum	90098.00
Lift 4.50 to 6.0 M	58.97	1211.00	Cum	71418.00
Lift 6.00 to 7.50 M.	65.40	1242.00	Cum	81222.00
Lift 7.50 to 9.00 M	60.24	1273.00	Cum	76680.00
Lift 9.00 to 10.50 M	46.07	1304.00	Cum	60078.00
Item No. 3 :- Providing and casting in situ Cement concrete M-15 /1:2:4 grade of C.C. of trap / granite / quartzite / gneiss metal for foundation and bedding including dewatering , compacting and curing.etc. complete				
PCC for levelling course below raft slab of Jack well				
(Lift 5.00 to 10.00 Below G. L.)	5.13	7279.39	Cum	37362.00
Item No. 4 :- Providing and casting in situ cement concrete of trap/granite/quartzite/ gneiss metal fo RCC work in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering, form work, compaction, finishing and curing, etc.complete (By weigh batching and mix desing for M-250 and M-300 only. Use of L& T A.C.C Ambuja, Birla Gold, Manikgad, Rajashree, etc, cement is permitted.) Excluding m.S. or Tor reinforcement Reinforced Cement Concrete.				
A) Footings M-300				
Lift 5.00 to 10.00 M	9.35	9564.77	Cum	89448.00

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Item No. 5 :Providing and casting in situ cement concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as directed by Engineer-in-charge including normal dewatering, centring, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface where necessary or roughening if special finish is to be provided and curing, etc.complete (By weight batching and mix design for M-250 - and M-300 only. Use of L& T A.C.C Ambuja, Birla Gold, Manikgad, Rajashree, etc, cement is permitted.) Excluding M.S. or Tor reinforcement				
A)Vertical staining wall of well(Grade M-300)				
a) Lift 0.00 to 5.00 Above Below G. L.				
	22.87	10724.47	Cum	245309.00
Lift 5.00 to 10.00 (Below G. L.)	16.34	11741.67	Cum	191841.00
Item No. 6 :- Providing and casting in situ cement concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work as directed by Engineer-in-charge including normal dewatering, centring, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface where necessary or roughening if special finish is to be provided and curing, etc.complete (By weight batching and mix design for M-250 and M-300 only. Use of L& T A.C.C Ambuja, Birla Gold, Manikgad, Rajashree, etc, cement is permitted.) Excluding M.S. or Tor reinforcement				
B) Slabs M-300				
a) Lift 0.00 to 5.00				
	4.58	10724.47	Cum	49130.00
Item No. 7 :-Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes, caps, footing, foundation, slabs, beams, columns, canopies staircases. Newels, chajjas, lintels, parapets, copings, fins, arches, etc. as per detailed designs, drawings and schedules including cutting , bending ,hooking the bars ,binding with wires or tack welding and supporting as required etc complete (including cost of binding wire) Tor steel.				
Lift 0.00 to 5.00				
1.00% of Concrete Qty	2.155	80681.00	MT	173883.81
b) Lift 5.0 to 10.00				
1.00% of Concrete Qty	2.017	84715.05	MT	170842.93
Item No. 8 : - Providing and fixing in position steel fibre reinforced concrete (SFRC) frame and covers of approved make including loading,unloading, transportation, all taxes,etc.complete as directed by Engineer-in-Charge.				

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Size - 90 x 60 cm.	1.00	3798.00	No	3798.00
ITEM No. 9 :- Dewatering the excavated trenches and pools of water in the building trenches/ pipeline trenches, well works by using pumps and other devices including disposing of water of safe distance as directed by Engineer-in-charge (including cost of machinery, labour fuel) etc complete				
Inspection well of 5.0 M. dia.	1.00	152917.50	No	152917.50
ITEM No.10 :- Providing and fixing in position C.I. Type dapuri steps of 22 mm dia. M.S. bar step with proper anchorage, etc. and providing and applying 3 coats of ant-corrosive paint, etc complete as directed by Engineer-in-charge.				
	32.00	464.00	No	14848.00
ITEM No.11:- Preparing designs of well from structural designer and getting it approved from appropriate authority. The drawing sets to be submitted in seven copies by the agency.				
Job Work	Job		L.S	4600.00
Total of subwork			Rs.	1694727.24
	Say		Rs.	16,94,800

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AUGMENTATION OF LATUR WATER SUPPLY SCHEME				
Estimate of Connecting Main 1400 MM RCC NP-III Pipe L - 80 M				
A B S T R A C T				
Qty	Description of Item	Rate	Unit	Amount
1	2	3	4	5
	ITEM NO. 1			
	Excavation in general in soft material comprising of soft soil, soft murum, sand, hard murum with boulders in wet or dry conditions for Head Works, i.e. intake well, Connecting pipe, jack well, Pump House. Supply Well etc. For lift 0 to 1.5 M and lead of 150m including barricating gaurding disposing off surplus excavated stuff within a radius of 0.5 km as directed by engineer incharge etc complete excluding refilling			
	a) For head word on river or dam submergence			
994.50	Lift 0.00 to 1.50 m.	510.00	Cum	507195.00
	ITEM No. 2			
	Excavation in general in hard material comprising of soft rock, Manjara rock, etc. by blasting/controlled blasting, chiseling as required in wet or dry conditions for Head Works, i.e. intake well, Connecting pipe, jack well, Pump House. Supply Well etc. For lift 0 to 1.5 and lead of 150m including barricating gaurding disposing off surplus excavated stuff within a radius of 0.5 km as directed by engineer incharge etc complete excluding			
	a) For head word on river or dam submergence			
664.50	Lift 1.50 to 3.00 m.	1149.00	Cum	763511.00
586.50	Lift 3.0 to 4.5 m.	1180.00	Cum	692070.00
550.50	Lift 4.5 to 6.0 m.	1211.00	Cum	666656.00
321.38	Lift 6.0 to 7.50 m.	1242.00	Cum	399148.00
159.38	Lift 9.0 to 10.50 m.	1301.00	Cum	207347.00
30.37	Lift 10.50 to 12.00 m.	1332.00	Cum	40459.00
	ITEM NO. 3			
	Providing ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for either collar joints or rubber ring joints, excluding GST lev-ied by GOI & GOM in all respect including inspection charges, transport to departmental stores, unloading and stacking etc. complete as per IS-458/1988. Note :One collar should be supplied with each full length plain ended RCC pipe, cost including in rates below. One rubber ring should be supplied with each full length of socketed pipe, cost included in rates below.			
160.00	1400 mm dia.RCC NP-III Pipe.	11146.00	Rmt	1783360.00
	ITEM NO. 4 :-			

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	Lowering, laying and jointing in proper grade and alignment R.C.C. pipes with collar joints in C.M.1:1 proportion or socketed R.C.C. pipes with rubber joints (excluding cost of rubber ring or R.C.C. collar,) including cost of conveyance from stores to site of work, cost of jointing material, labour, etc. complete as directed by Engineerin- charge (For all class of pipes.) as per IS- 783-1985.			
160.00	1400 mm dia.RCC NP-III pipes (without rubber ring)	883.00	Rmt	141280.00
	ITEM NO. 5 :-			
	Dewatering the excavated trenches and pools of water in the building trenches/ pipeline trenches, well works by using pumps and other devices including disposing of water of safe distance as directed by Engineer-in-charge (including cost of machinery, labour,fuel) etc complete			
80.00	For Connecting Main	5750.00	Rmt	460000.00
	ITEM NO. 6 :-			
	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm. Layers with all leads and lifts including consolidation, surcharging, etc. complete			
3377.63		92.00	Cum	310742.00
	ITEM NO. 7 :-			
	Providing,construction coffer dam in river basin/dam storages as per type design including excavation,filling the middle portion with B.c soil [in gunny bags if required] providing impervious /semipervious materials inculuding remming ,copacting to the satisfaction of Engineer in charge,till the completion of work including dismentlling of coffer dam after completion of works and disposing off the material as directed by the engineer			
	Note : Pay line maximum - Top width payable shall be 2 mtr.and maximum payable side slopes shall be 1.5 Horizontal to 1 Vertical, if the constructed top width of the side slopes are less, then the measurments at actual are payable. Extra top width or flatt slopes are not payable. contractor is free to use ballies,plastic sheets,piles,pipes, CGI sheets for supporting hearting material instead of impervious/ semipervious hearting material for whichno extra payments shall be payable 30%payment shall be withheld for dismentelling of			
4432.30		818.00	Cum	3625621.00
Total of subwork			Rs.	10006964.00
	Say		Rs.	1,00,07,000

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AUGMENTATION OF LATUR WATER SUPPLY SCHEME				
Estimate of Jack Well & Pump House 15 M Dia RCC				
A B S T R A C T				
Qty	Description of Item	Rate	Unit	Amount
1	2	3	4	5
	ITEM NO. 1			
	Excavation in general in soft material comprising of soft soil, soft murum, sand, hard murum with boulders in wet or dry conditions for Head Works, i.e. intake well, Connecting pipe, jack well, Pump House. Supply Well etc. For lift 0 to 1.5 M and lead of 150m including barricating gaurding disposing off surplus excavated stuff within a radius of 0.5 km as directed by engineer incharge etc complete excluding refilling			
	a) For head word on river or dam submergence			
808.13	Lift 0.00 to 1.50 m.	510.00	Cum	412148.00
	ITEM NO. 2			
	Excavation in general in hard material comprising of soft rock, Manjara rock, etc. by blasting/controlled blasting, chiseling as required in wet or dry conditions for Head Works, i.e. intake well, Connecting pipe, jack well, Pump House. Supply Well etc. For lift 0 to 1.5 and lead of 150m including barricating gaurding disposing off surplus excavated stuff within a radius of 0.5 km as directed by engineer incharge etc complete			
	a) For head word on river or dam submergence			
656.10	Lift 1.50 to 3.00 m.	1149.00	Cum	753862.00
541.77	Lift 3.0 to 4.50 m.	1180.00	Cum	639289.00
526.72	Lift 4.50 to 6.00 m.	1211.00	Cum	637861.00
511.89	Lift 6.0 to 7.50 m.	1242.00	Cum	635762.00
497.26	Lift 7.5 to 9 m.	1273.00	Cum	633013.00
482.85	Lift 9.0 to 10.5 m.	1304.00	Cum	629635.00
468.65	Lift 10.5 to 12 m.	1335.00	Cum	625645.00
454.66	Lift 12 to 13.5 m.	1366.00	Cum	621065.00
440.88	Lift 13.50 to 15.0 m.	1397.00	Cum	615913.00
427.32	Lift 15.0 to 16.50 m.	1428.00	Cum	610210.00
413.96	Lift 16.50 to 18.0 m.	1459.00	Cum	603975.00
400.82	Lift 18.0 to 19.50 m.	1490.00	Cum	597228.00
387.89	Lift 19.50 to 21.0 m.	1521.00	Cum	589988.00
63.59	Lift 21.0 to 22.50 m.	1552.00	Cum	98684.00
	ITEM NO. 3 :-			
	Providing and laying in situ cement concrete M-15 / 1:2:4 of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including dewatering, form work, compacting roughening if special finish is to be provided, finishing if required etc. complete.			
	Lift 0.0 to 5.0 M			
	individual footing of pump house			
8.10	1:2:4 (M – 150) grade for Jack well	6691.29	Cum	54199.00
	Lift 20 to 25.0 M			
38.18	1:2:4 (M – 150) grade for Jack well	9043.69	Cum	345246.00
	ITEM NO. 4			
	Providing and laying in situ of C.C. of trap/ granite / quartzite/ gneiss metal for RCC works in foundation like raft, grillage, strip foundation and footing of RCC columns and steel stanchions including normal dewatering , centering, form work, compaction, finishing and curing, etc. complete. (By weight batching mix design for M – 250 & M-300 only. Use of L&t , ACC, Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted. Excluding M.S. or Tor reinforcement.)			
	Lift 0 to 5			
	a) For RCC M – 300 grade			
21.20	Footing for Column of Pump House.	8745.47	Cum	185360.00
	Lift 20 to 15			
	a) For RCC M – 300 grade			
263.01	1) Bottom Slab of Jack well	12022.67	Cum	3162057.00
	ITEM NO. 5			

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	Providing and laying in situ Cement Concrete of trap/ granite/ quartzite/ gneiss metal of approved quality for RCC works as per detailed drawing and design or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surface with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M – 250 and M –300 only. Use of L & T. A.C.C. Ambuja, Birla Gold, Manikgad, Rajshree etc Cement is permitted. Excluding M.S. or Tor reinforcement.)			
	Lift 0 to 5 M For RCC M – 300			
316.62	Slabs/ Landings/ Vertical walls/ .	10724.47	Cum	3395557.00
	Lift 5 to 10 M For RCC M – 300			
121.75	Slabs/ Landings/ Vertical walls/ Waist slabs	11741.67	Cum	1429578.00
	Lift 5 to 10 M For RCC M – 250			
31.55	Slabs/ Landings/ Vertical walls/ Waist slabs	11453.47	Cum	361351.00
	Lift 10 to 15 M For RCC M – 300			
121.75	Slabs/ Landings/ Vertical walls/ .	12758.87	Cum	1553424.00
	Lift 15 to 20 M For RCC M – 300			
121.75	Slabs/ Landings/ Vertical walls/ Waist slabs	13776.07	Cum	1677271.00
	Lift 15 to 20 M For RCC M – 250			
59.04	Slabs/ Landings/ Vertical walls	13435.47	Cum	793254.00
	Lift 20 to 25 M For RCC M – 300			
1.22	Slabs/ Landings/ Vertical walls/ Waist slabs	14793.27	Cum	18011.00
	ITEM NO. 6			
	Providing and laying in situ Cement Concrete of trap/ granite/ quartzite/ gneiss metal of approved quality for RCC works as per detailed drawing and design or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surface with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M – 250 and M –300 only. Use of L & T. A.C.C. Ambuja, Birla Gold, Manikgad, Rajshree etc Cement is permitted. Excluding M.S. or Tor reinforcement.)			
	For Beams & Lintels			
	Lift 0 to 5.M For RCC M – 300			
86.04	Floor Beam of Jack well	10038.47	Cum	863758.00
	Lift 5 to 10M For RCC M – 250			
11.12	Lintel Beam for Pump House	10716.47	Cum	119217.00
	Lift 10 to 15 M (Above & Below G.L.) M-250			
17.11	For Beams & Lintels with	11640.47	Cum	199121.00
	Lift 15 to 20 M (Above & Below G.L.) M-250			
11.69	For Beams & Lintels with	12564.47	Cum	146884.00
	ITEM NO.7			
	Providing and laying in situ Cement Concrete of trap/ granite/ quartzite/ gneiss metal of approved quality for RCC works as per detailed drawing and design or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surface with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M – 250 and M –300 only. Use of L & T. A.C.C. Ambuja, Birla Gold, Manikgad, Rajshree etc Cement is permitted. Excluding M.S. or Tor reinforcement.)			
	All type of columns			
	Lift 0 to 5 M For RCC. M – 300			
9.08	All types of Columns	10203.47	Cum	92597.00
	Lift 5 to 10 M (Above & Below G.L.) M – 300			
3.00	All types of Columns	11168.57	Cum	33506.00
	Lift 10 to 15 M For RCC M – 300			
3.00	All types of Columns	12133.67	Cum	36401.00
	Lift 15 to 20 M (Above & Below G.L.) M – 300			
3.00	All types of Columns	13098.77	Cum	39296.00
	Lift 20 to 25 M (Above & Below G.L.) M – 300			
0.03	All types of Columns	14063.87	Cum	422.00
	All type of columns			
	Lift 0 to 5 M For RCC M – 250			

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1.28	All types of Columns	9956.47	Cum	12695.00
	Lift 5 to 10 M (Above & Below G.L.) M-250			
13.70	All types of Columns	10896.87	Cum	149233.00
	Lift 10 to 15 M For RCC M – 250			
12.75	All types of Columns	11837.27	Cum	150925.00
	Lift 15 to 20 M (Above & Below G.L.) M-250			
1.28	All types of Columns	12777.67	Cum	16292.00
	ITEM No.8 :-			
	Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes , caps, footings foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, copings fins, arches, etc as per detailed designs, drawings, and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc complete. (including cost of binding wire.)			
	Lift 0 to 5 M			
34.09	b) Tor Steel.	80681.00	M.T.	2750035.00
	Lift 5 to 10 M			
14.22	b) Tor Steel.	84715.05	M.T.	1204483.00
	Lift 10 to 15 M			
12.14	b) Tor Steel.	88749.10	M.T.	1077127.00
	Lift 15 to 20 M			
15.45	b) Tor Steel.	92783.15	M.T.	1433095.00
	Lift 20 to 25 M			
20.74	b) Tor Steel.	96817.20	M.T.	2008380.00
	ITEM No.9 :-			
	Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm. Layers with all leads and lifts including consolidation, surcharging, etc. complete			
4577.61		92.00	Cum	421140.00
	ITEM No. 10:-			
	Dewatering the excavated trenches and pools of water in the building trenches/ pipeline trenches, well works by using pumps and other devices including disposing of water of safe distance as directed by Engineer-in-charge (including cost of machinery, labour,fuel) etc complete			
1	Jack well of 15.0 M. dia.	717540.00	No	717540.00
	ITEM No. 11 :-			
	Providing IInd class B.B masonry with conventional / Indian standerd type bricks in CM 1:6 in Superstructure including striking joints , raking out joints, watering,and scaffolding etc. complete.			
21.60	lift 0.00 to 3.80.M. Above Floor Slab	8423.53	Cum	181915.00
31.39	lift 3.80 to 7.60.M	8503.47	Cum	266959.00
20.44	Lift 7.60 to 11.40.M	8583.41	Cum	175442.00
	ITEM No. 12 :-			
	Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size & shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (With mechanical gear)			
12.00	1) Rolling steel shutter.	5308.00	sqm.	63696.00
	ITEM No. 13 :-			
	Providing and fixing steel window of various sizes as per detailed drawing without hot dip zinc coating, without ventilators, including fabricating / glazing with plain / obscured glass panels of approved type and quality, iron oxidised fixtures and fastenings, oil painting two coats complete.			
30.60	a) for Steel windows	4607.00	sqm.	140974.00
	ITEM No. 14:-			

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	Providing & fixing steel Ventilator fully glazed partly top hung and partly fixed as per detailed drawing without hot dip zinc coating includign glazing with plain obscured glass panel and of approved type and quality and fixtures and fastening without te			
15.30	1) Steel Ventilators	3375.00	sqm.	51638.00
	ITEM No. 15 :-			
	Providing and fixing in position M.S. Ladder 0.5 M wide consisting of 75 x 10 mm M.S. flats as stringers and 16 mm dia M.S. bars in double rows as steps paced at 25 cm c/c including cost of material and labour involved welding, anchoring and applying 3 oats of anticorrosive paint, etc. complete as directed by Engineer-in- charge.			
49.50		1493.00	Rm.	73904.00
	ITEM No. 16 :-			
	Providing and fixing in position copper lightening conductor including copper rod of 20 mm dia as per upper terminal 1.5 M.long with a knob at end with conical spike at top, Copper tape conductor 20 x 3 mm size, copper earth plate of 3 mm thick and necessary excavation, laying and fixing the conductor, providing and fixing 40 mm G.I. pipe upto 3 M. height from ground and 0.5 M below ground including making all connections, filling the earthing pit with charcoal,salt,etc.and refilling and watering etc.			
1.00	1) For tape of 10 M length	14897.00	No	14897.00
15.00	Rebate/ extra rate per metre length or part thereof over and above initial length of 10 M.	394.00	Mtr.	5910.00
	ITEM No. 17 :-			
	Providing internal cement plaster 20 mm thick in two coats in cement mortar 1:3 without neeru finish to cocrete, brick surfaces in all positions including scaffolding and curing , etc. complete			
1614.00	a) 20 mm thick cement plaster (1:3)	415.56	Sq.M.	670709.00
	ITEM No. 18 :-			
	Providing sand faced plaster externally in cement mortor using kharsalia / kasaba or similar type of sand in all positions including base coat of 15 mm thick in cement mortor 1:4 using waterproofing compound at 1 Kg per cement bag. Curing the same for no			
924.97		683.30	Sq.M	632029.00
	ITEM No.19 :-			
	Providing and applying two coats of Exterior acraylic emulsion paint conforming to corresponding I.S.of approved manufacture and of approved colour to the plastered surfaces including cleaning,prepaireing the plaster surface,applying primer coat ,scaffolding if necessecary,and watering the surface for two days etc complete.			
924.97		261.00	sqm.	241418.00
	ITEM NO.20			
	Providing & applying washable oil-bound distemper of approved colour and shade to old & new surfaces in two coats including scaffolding, preparing the surfaces. (excluding the primer coat.) etc. complete.			
1614.00		48.00	sqm.	77472.00
	ITEM NO.21			
	Providing and applying white wash in two coat for wall surface to receive oil bound distemper treatment etc. complete.			
2538.97		12.00	sqm.	30468.00
	ITEM NO.22			
	Providing and fixing in position C.I. / M.S. rose piece in intake wells including cost of all materials and labour, painting with three coats of anti corrosive oil paint,etc, complete as directed by Engineer in charge.			
4800.00		120.00	Kg.	576000.00
	ITEM NO.23			
	Providing and fixing G.I. Pipe railing having 1.00 M height consisting 50x50x6 mm thick M.S. angle as verticals at 1.5 M c/c and additional posts at every corner with 3 rows of 25 mm dia G.I. pipes of medium class variety as horizontal and paintin 3 coats			
65.00		1191.00	Rmt.	77415.00
	ITEM NO.24			

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	Providing and fixing MS Sluice Gate in position as per detailed drawing and specification including cost of all materials, labour, operating pedestal, connecting rod, painting with three coats of anti-corrosive paint etc. complete as directed by Engineer-i			
3200.00		137.00	Kg	438400.00
	ITEM NO. 25 :-			
	Providing,construction coffer dam in river basin/dam storages as per type design including excavation,filling the middle portion with B.c soil [in gunny bags if required] providing impervious /semipervious materials inculuding remming ,compacting to the satisfaction of Engineer in charge,till the completion of work including dismantlling of coffer dam after completion of works and disposing off the material as directed by the engineer in charge.			
	Note : Pay line maximum - Top width payable shall be 2 mtr.and maximum payable side slopes shall be 1.5 Horizontal to 1 Vertical, if the constructed top width of the side slopes are less, then the measurments at actual are payable. Extra top width or flatt slopes are not payable. contractor is free to use ballies,plastic sheets,piles,pipes, CGI sheets for supporting hearting material instead of impervious/ semipervious hearting material for whichno extra payments shall be payable 30%payment shall be withheld for dismantelling of coffer dam			
327.50		181.00	Cum	59278.00
	Total of subwork		Rs.	36930257.00
	Say Rs			3,69,30,300

LATUR CITY MUNICIPAL CORPORATION

AUGMENTATION OF LATUR WATER SUPPLY SCHEME				
R.C.C. Approach Bridge & Earthen Approach Bund				
ABSTRACT				
Qty	Description of Item	Rate	Unit	Amount
1	2	3	4	5
	EARTHEN APPROACH BUND (60 m Length)			
	Item No.01:- Providing earth work in embankment with approved materials obtained from departmental land or other sources upto lead of 50m. including all lifts, laying in layers of 20cm. to 30cm. thickness breaking clods, dressing to the required lines, curves, grades & section, watering and compaction with Power roller to achieve not less than 97 % of standard proctor density etc.. complete.			
3150.00		757.00	cum	2384550.00
	Item No.02:- Providing dry rubble stone pitching 23 cm (About 9``)thick including packing with quarry spalls and hard murum etc. complete as directed by Engineer -In -Charge			
425.04		915.27	cum	389025.55
Total of subwork			Rs.	2773576.00
Say			Rs.	27,73,600

LATUR CITY MUNICIPAL CORPORATION

AUGMENTATION OF LATUR WATER SUPPLY SCHEME

Estimate of Meter Room at Headworks

A B S T R A C T

Description of Item	Qty	Rate	Unit	Amount
1	2	3	4	5
ITEM NO. 1				
Excavation for foundation/pipe trenches in earth, soils of all types of sand gravel & soft murum incl. Removing the excavated material upto a distance of 50 M. & lift as below.stacking and spreading as directed, Normal dewatering, preparing the bed for fo				
Lift 0 to 1.5 M.	14.112	165.00	Cum.	2328.00
ITEM NO. 2				
Excavation for foundation/ pipe trenches in hard murum & boulders. W.B.M. road including removing the excavated material upto a distance of 50 m beyond the area and lifts as below stacking and spreading as directed by Engineer- in-charge, Normal dowering				
Lift 0 to 1.5 M.	12.35	211.00	Cum.	2605.00
ITEM No.3				
Excavation for foundation/ pipe trenches in soft rock & old cement and lime masonry foundation asphalt road including removing the excavated material upto a distance of 50 m beyond the area and lifts as below stacking as directed by Engineer-in-charge,				
Lift 0 to 1.5 M.	8.82	629.00	Cum.	5548.00
ITEM No.4				
Providing & laying in situ following grades of C.C. of trap/ granite / quartzite /gneiss metal for foundation and bedding including dewatering, form work, compacting and curing, finishing etc. Complete.(Bd-E- 1/287)				
c) 1:2:4 (M -150) grade (with 12 to 20 mm metal)	2.65	6691.29	Cum	17705.00
ITEM No.5				
Providing and laying in situ Cement Concrete of trap/ granite/ quartzite/ gneiss metal of approved quality for RCC works as per detailed drawing and design or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction,				
Lift 0 to 5 M For RCC M – 250				
RCC Column footing	5.78	8479.47	Cum	48977.00
ITEM No.6				
Providing and laying in situ Cement Concrete of trap/ granite/ quartzite/ gneiss metal of approved quality for RCC works as per detailed drawing and design or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction,				

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Lift 0 to 5 M For RCC M – 250				
RCC Beams/Braces/Lintel	3.31	9792.47	Cum	32433.00
ITEM No.7				
Providing and laying in situ Cement Concrete of trap/ granite/ quartzite/ gneiss metal of approved quality for RCC works as per detailed drawing and design or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction,				
Lift 0 to 5 M				
RCC ColumnsM-250	3.30	9956.47	Cum	32856.00
ITEM No.8				
Providing and laying in situ Cement Concrete of trap/ granite/ quartzite/ gneiss metal of approved quality for RCC works as per detailed drawing and design or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction,				
Lift 0 to 5 M M-250				
RCC Slab/Landing/Vertical Wall	3.58	10462.47	Cum	37435.00
ITEM NO.9				
Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes , caps, footings foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, copings fins, arches, etc as per detailed designs, drawings, and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc complete. (including cost of binding wire.)				
Lift 0 to 5 M				
Tor Steel.	1.25	80681.00	M.T.	101120.00
ITEM NO.10				
Providing IInd class B.B masonry with conventional / Indian standerd type bricks in CM 1:6 in plinth & Superstructure including striking joints , raking out joints, watering,and scaffolding etc. complete.				
For superstructure	9.09	8423.53	Cum	76605.00
For Plinth	3.31	8184.53	Cum	27107.00
ITEM NO.11				

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Providing and fixing rolling shutter fabricated from steel laths of minimum thickness 0.9 mm with lock plate of 3.15 mm thickness reinforced with 35 x 35 x 5 mm angle section fitted with sliding bolts and handles for both sides, deep M.S. channel section of depth and thickness not less than 65 mm and 3.15 mm respectively with hold fast arrangements, M.S. Bracket plate 300 x 300 x 3.15 mm minimum size & shape with square bar, suspension shaft of minimum 32 mm diameter, hood cover of M.S. sheet not less than 0.9 mm thickness and of any size at top and safety devices including mechanical gear operation arrangement consisting of worm gear wheels and worms of high grade cast iron or mild steel and one coat of red lead primer etc. complete. (I.S. 6248-1979) (With mechanical gear)				
Rolling steel shutter.				
	5.25	5308.00	Sq.m.	27867.00
ITEM NO.12				
Providing & fixing steel window of various sizes as per detailed drawings fabricated from I.S. stander section without hot dip zinc coating without/ with ventilators including fabrication, glazing with non acetinic / plain / obscured glass panels of approved type and quality all fixtures and fastening without teak wood boxing, and architraves and finishing with one coat of primer complete. with guard bars 12 mm square bar 10 cm. centre to centre.				
for Steel windows	2.40	4607.00	Sq.m.	11057.00
ITEM NO. 13				
Providing & fixing steel Ventilator fully glazed partly top hung and partly fixed as per detailed drawing without hot dip zinc coating includign glazing with plain obscured glass panel and of approved type and quality and fixtures and fastening without teak wood boxing and architraves and oil painting two coats etc complete.				
Steel Ventilators	0.81	3375.00	Sq.m.	2734.00
ITEM NO. 14				
Providing internal cement plaster 20 mm thick in two coats in cement mortar 1:3 without neeru finish to cocrete, brick surfaces in all positions including scaffolding and curing , etc. complete				
a) 20 mm thick cement plaster (1:4)	64.00	415.56	Cum	26596.00
ITEM NO15				
Providing sand faced plastre externally in cement mortor using kharsalia / kasaba or similar type of sand in all positions including base coat of 20 mm thick in cement mortor 1:4 using waterproofing compound at 1 Kg per cement bag. Curing the same for no				
	71.11	683.30	Sq.m.	48587.00
ITEM NO. 16				

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Providing and applying two coats of Exterior acryallic emulsion paint conforming to corresponding I.S.of approved manufacture and of approved colour to the plastered surfaces including cleaning,prepaireing the plaster surface,applying primer coat ,scaffolding if necessecary,and watering the surface for two days etc complete.				
1) New Surface.	71.11	261.00	Sq.m.	18559.00
ITEM NO.17				
Providing and laying vitirified rustic matt stone premium quality finish decorative type tiles of size 590 mm to 605mm X 590mm to 605mm of 8 to 10 mm thickness and confirming to IS 15622 - 2006 (Group Bla) of approved make shade and pattern for flooring in required position laid on a bed of 1:4 cement mortar including neat cement float , filling joints curing and clearing etc.complete. Note : (Water absorption should not be more than 0.05%) Spec. No.: Bd.M.12 Page No. 385				
	16.00	1769.00	Sq.m.	28304.00
ITEM NO. 18				
Providing and applying washable oil bound distemper of approved colour and shade to old and new surface in three coats including scaffolding preparing the surfaces (including the primer coat) etc.complete				
	64.00	48.00	Sq.m.	3072.00
Total of subwork			Rs.	551495.00
		Say RS		5,51,500

LATUR CITY MUNICIPAL CORPORATION

AUGMENTATION OF LATUR WATER SUPPLY SCHEME

R.W.R.M.From H.W to SHAFT @ Dabha pati (1000 mm.dia.D.I.K-9.Pipe.L-3615.M)

ABSTRACT

Qty	Description of Item	Rate	Unit	Amount
1	2	3	4	5
	ITEM No. 1 :- Providing D.I.Pipes (push on joints pressure pipes of D I of following class and diameter confirming to the I S specifications inclusive cost of jointing materials (Rubber gasket of EPDM quality) excluding GST levied by GOI and GOM in all respect,including Third party inspection charges of TPI agency approved by MJP including transit, insurance, railway freight, unloading from railway wagon, loading into truck, transportation to deparmental store, site of work, unloading, stacking etc. complete as directed by Engineer in charge (IS- 1536/2001 for pipes and IS 158/1969 and IS 12820/1989 or latest edition/ revision with amendments for rubber gasket)			
3615.00	1000 mm dia.DI.K-9 Pipe.	27750.00	Rmt	100316250.00
	ITEM No.2 :- Providing & Supplying ISI standard D.I. specials and fittings with sealing rubber gasket of SBR complete with C.I. follower glands and mild steel nut bolts coated or otherwise protected from rusting and suitable for D.I.pipes including cost of labour,material and transportation to stors /site,loading,unloading including all taxes etc complete as per IS-9523.			
17289	350 mm dia & Above,PN-16	186.00	Kg.	3215754.00
	ITEM No:3 :-Providing and supplying ISI mark CI D/F reflux valves (non-return valves) of following dia including railway freight, inspection charges, unloading from railway wagon, loading into truck, transportation upto departmental stores, unloading, stacking excluding GST levied by GOI & GOM in all respect etc. complete. Reflux valves as per I.S.5312 Part I (1984)			
1	1000 mm dia Reflux Valve.P.N.1.6	906647.00	No.	906647.00
	ITEM No:4 :- Providing double flanged Sluice Valves conforming to IS-14846 including worm gear arrangements as per test pressure, stainless steel spindle, caps, including inspection charges transportation stores,unloading,stacking excluding GST levied by GOI & GOM in all respect etc.complete.			
10	200 mm dia Sluice Valve.P.N.1.6	27877.00	No.	278770.00
1	1000 mm dia Sluice Valve.P.N.1.6	1013501.00	No.	1013501.00

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	Item No 5 :- Providing and supplying at site ductile Iron / Spheroidal Graphite (S.G) iron single / Double chamber tamper proof air valve without isolating sluice valve.Valves in accordance with BSEN 1074-4 of PN 10/16 rated with body and bonnet of ductile iron conforming to EN 1563/IS 1865.Gr.500/7 or Gr.400/15 floats,float guide,seat ring of stainless steel I.4436/I.4306.seat ring gasket of WRAS approved EPDM rubber (suitable for drinking water) internal fastness of stainless steel A2 Body & Bonnet coated inside & outside with electrostatically applied epoxy poeder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min.250 microns.Flange connections as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14845,including transportation charges excluding GST levied by GOI & GOM in all respect etc.complete..			
9	200 mm dia. Tamper Proof Air Valve.PN-1.60	31689.00	No.	285201.00
	Item No. 6 :- Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum, hard murau,hard murum boulder & W.B.M. road,soft rock and old cement and lime masonry foundation,asphalt road, Hard rock by controlled blasting,Hard rock & concrete road by chiselling , wedging,line drilling by machanical means or by all means other than blasting including trimming and levelling the bed by chiselling where necessary including removing the excavated material upto a distance of 50 metres and lifts as below, stacking and spreading as directed, manual dewatering, preparing the bed for foundation and excluding backfilling etc. complete			
12146.00	Lift 0 to 3.0 M.	445.97	Cum.	5416751.62
	ITEM No.11 :- Filling in plinth and floors murum bedding in trenches with approved murum from excavated materials from foundation 15 cm to 20 cm layers including watering			
867.60	A).Murum available from excavated stuff	92.00	Cum	79820.00
	ITEM No. 12 :- Lowering laying and jointing with SBR ruber gaskets C.I. S/S pipes of various classes with CI / MS specials of following diameter in proper position, grade and alignment as directed by Engineer-in-charge including conveyance of material from stores to site of work, including cost of jointing materials and rubber rings labour, giving hydraulic testing etc. complete.			
3615.00	1000 mm dia.DI.K-9 Pipe.	1021.00	RM	3690915.00
	ITEM No. 13 :- Hydraulic testing of pipeline to specified pressure including cost of all materials and labour and water for testing using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary.			
	CI Class 'LA' / Mortar inlined D.I. K-9 / K-7			

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3.62	1000 mm dia.DI.K-9 Pipe.	113603.00	Km	410675.00
	ITEM No. 14 :- Lowering, laying and jointing in position following C.I. D/F reflux valves, Butterfly valves and sluice valves including cost of all labour jointing material including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves)			
10	200 mm dia Sluice Valve.P.N.1.6	4160.00	No.	41600.00
2	1000 mm dia Reflux Valve.P.N.1.6	19344.00	No.	38688.00
	ITEM No. 15 :- Providing and fixing in position air valve shaft including providing and fixing G.I. Medium class of 6 mm thick M.S. pipe shaft 2.70 m long over branch flange of air valve tee. Providing PCC block of M- 150 concrete 150 mm thick around the air valve tee including encasing of vertical shaft in PCC M- 150 as shown in type design together with providing and making flanged joints wherever required cost of air valve over the shaft excluding cost of air valve and branched flanged air valve tee, etc complete as per branched flanged air valve tee, etc complete as per type design and as directed by Engineer-in-charge for following diameters of pipe lines. (Type design)			
	A) Foundation on Murum and Hard Strata			
9.00	1000 to 1200 mm Dia pipeline.	19192.00	No.	172728.00
	ITEM No.16 :- Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:2:6 proportion PCC bedding excluding excavation, B.B. masonry in C.M. 1:5 proportion precast RCC frame and cover etc. complete as directed by Engineer in charge (internal size 60 x 45 cm and depth 0.9 m.)			
2	2) As above of 150 x 150 cm internal size and depth upto 1.5M with precast RCC slab cover	29017.62	No.	58036.00
	ITEM No. 17 :- Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm. Layers with all leads and lifts including consolidation, surcharging, etc. complete			
8347.62		92.00	Cum	767982.00
	Item No. 18 :- Providing and supplying ISI standard MS specials of required thickness with 3 coats of approved make epoxy paint (Shalimar, Ciba or Mahindra & Mahindra make) from inside and outside including all taxes (Central and local), octroi, inspection charges, transportation to stores / site, and stacking, etc. complete.			
3000.00	MS Specials (All Socketed)	95.00	Kg	285000.00
	ITEM No. 19 :- Providing and laying in situ cement concrete of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including dewatering, form work, compacting roughening if special finishis to be provided, finishing if required etc. complete.			
68.32	1:2:4 (M – 150) grade	6691.29	Cum	457168.67

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	Item No.20 :- Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work in foundation like raft,grillage,strip foundation and footing of R.C.C. columns and steel stanchions including normal dewatering,formwork,compaction,finishing and curing etc.complete			
	In R.C.C. M-200			
171.52	For Thrust/Anchor block at bends	8054.63	cum	1381510.00
	Item No. 21 :- Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes , caps, footings foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, copings fins, arches, etc as per detailed designs, drawings, and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc complete. (including cost of binding wire.)			
13.464	Tor Steel.	80681.00	MT	1086299.00
	Item No. 22 :- Making cross connection to existing distribution main of any type including excavation, breaking and removing exiting pipes, lowering, laying of specials and pipes in their position, refilling, closing the water supply in that area, dewatering and restarting the water supply, etc. complete as directed by Engineer-in-charge for following diamerts of existing pipeline, irrespective of diameter of branch line (the number of joints involved will be paid separately depending upon the nature of joints and required pipes, valves and specials will be supplied free of cost at stores).			
1.00	1000 mm dia	72794.00	No.	72794.00
	Item No. 23 :- Provision for charges to be deposited to PWD department and Telephone department for various permissions (Including Crossing of National Highway, State Highway, MDR & ODR etc. & charges to be paid against pipe line to be laid along the road side,etc)			
3000.00	PWD Charges Along the Road	275	Rmt	825000.00
1.00	Road Crossing	5500	Rmt	5500.00
	Item No. 24 :- Provision for charges towards crop compensasion of farmers,etc.) Note:-Contractor should submitt GPS photos of affected farm along with concern farmer & farmer Name and address.Also contractor should submitt authentic 7/12 & 8A of affected farmer and receipt of payment paid to farmer as per valuation of crop affected.Contractractor should submitt GPS photographs before and after execution of pipeline work.Payment should be payable after joint inspection of Municipal Engineer, PMC, Contractor & Concern Farmer as per actual valuation.			
18000		250.00	Sq.mt.	4500000.00

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Total	Rs.	125306590
Say Rs	Rs.	12,53,06,600

LATUR CITY MUNICIPAL CORPORATION

AUGMENTATION OF LATUR WATER SUPPLY SCHEME

Estimate of M.S. SHAFT

A B S T R A C T

Qty	Description of Item	Rate	Unit	Amount
1	2	3	4	5
	ITEM No. 1 :-			
	Providing & supplying ISI standerd MS Specials of required thickness with 3 coats of approved make epoxy paint (Shalimar, Ciba or Mahindra & Mahindra make) from inside and outside including all taxes (Central & Local), octroi, inspection charges, transportation to store/site, and stacking etc complete.			
20873.94	MS barrels (pipe pieces) locally manufactured (for small quantities)	92	kg	1920402.17
	ITEM No. 2 :-			
	Providing and making flanged joints to flanged C.I./M.S. pipes of all classes/specials etc. including all jointing materials (rubber packing, nut bolts etc), labour, hydraulic testing etc.			
12	1) 1000 mm dia	8909	joint	106908.00
15	2) 1500 mm dia.	13363.5	joint	200452.50
	ITEM No. 3 :-			
	Excavation for foundation/ pipe trenches in hard murum & boulders. W.B.M. road including removing the excavated material upto a distance of 50 m beyond the area and lifts as below stacking and spreading as directed by Engineer- in-charge, Normal dowering, preparing the bed for found-ation and excluding backfilling etc complete. (Bd-A - 3/259)			
24.50	Lift 0 to 1.5 M.	211	Cum	5169.50
	ITEM No.4:-			
	Excavation for foundation/ pipe trenches in soft rock & old cement and lime masonry foundation asphalt road including removing the excavated material upto a distance of 50 m beyond the area and lifts as below stacking as directed by Engineer-in-charge, normal dewatering, preparing the bed for foundation and excluding backfilling etc complete. (Bd-A-4/259)			
49.00	Lift 0 to 1.5 M.	629	Cum	30821.00
	ITEM No.5:-			
	Providing & laying in situ following grades of C.C. of trap/ granite / quartzite /gneiss metal for foundation and bedding including dewatering, form work, compacting and curing, finishing etc. Complete.(Bd-E- 1/287)			
5.4	c) 1:2:4 (M -150) grade (with 12 to 20 mm metal)	6691.29	Cum	36133.00

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	Item No.6 :- Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work in foundation like raft,grillage,strip foundation and footing of R.C.C. columns and steel stanchions including normal dewatering,formwork,compaction,finishing and curing etc.complete			
	In R.C.C. M-200			
37.50	For r block at Shaft	8054.63	Cum	302049.00
	Item No. 7 :- Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes , caps, footings foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, copings fins, arches, etc as per detailed designs, drawings, and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc complete. (including cost of binding wire.)			
2.94	Tor Steel.	80681.00	MT	237505.00
	ITEM No.8 :-			
	Erecting and hoisting in position and jointing,testing M.S./C.I.D/Fpipes and specials invertical position including cost of all jointing materials (rubber packing,nutbolts,etc.) labour,scaffolding,hydraulic testing etc.			
26	1000 mm DF MS Pipes	8909	Rmt	231634.00
29	1500 mm DF MS Pipes	13363.5	Rmt	387541.50
	ITEM No9:-			
	Providing and supplying ISI mark C.I. D/F sluice valves and butterfly valves of following diameter including all taxes (Central and Local). Railway wagon, loading into truck, transport to departmental stores/ site,unloading, stacking etc. Complete.			
1	1) 1000 mm dia (PN 1.6)-for bypass	1013501	No.	1013501.00
	ITEM No10:-			
	Lowering, laying and jointing in position following C.I. D/F Sluice Valve cost of all labour, jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete (Rate			
1	2) 1000 mm dia CIDF Sluice valve. -bypass	19344	No.	19344.00
	ITEM No.11:-			
	Providing and constructing B.B. masonry valve chamber with 15 mm cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in C.M. 1:5 cm thick precast RCC frame & cover etc complete as directed by Engineer-in-charge.			
1	1)As above of 1.5 x 1.5cm internal size and depth upto 1.5M with precast RCC slab cover	29017.62	No.	29018.00
		Total	Rs.	4520478.67
			Say	45,20,500

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AUGMENTATION OF LATUR WATER SUPPLY SCHEME

RWGM from M.S. Shaft to WTP

(1200MM Dia = 25390 M,1100 MM Dia.=20500 & 700 MM Dia=800M D.I.K-7 PIPES)

ABSTRACT

Qty	Description of Item	Rate	Unit	Amount
1	2	3	4	5
	ITEM No. 1 :- Providing D.I.Pipes (push on joints pressure pipes of D I of following class and diameter confirming to the I S specifications inclusive cost of jointing materials (Rubber gasket of EPDM quality) excluding GST levied by GOI and GOM in all respect,including Third party inspection charges of TPI agency approved by MJP including transit, insurance, railway freight, unloading from railway wagon, loading into truck, transportation to depatmental store, site of work, unloading, stacking etc. complete as directed by Engineer in charge (IS- 1536/2001 for pipes and IS 158/1969 and IS 12820/1989 or latested edition/ revision with			
25390.00	1200 mm dia.DI.K-7 Pipe.	38818.00	Rmt	985589020.00
20500.00	1100 mm dia.DI.K-7 Pipe.	33427.00	Rmt	685253500.00
800.00	700 mm dia.DI.K-7 Pipe.	13246.00	Rmt	10596800.00
	1277.41	42700000		
	ITEM No.2 :- Providing & Supplying ISI standard D.I. specials and fittings with sealing rubber gasket of SBR complete with C.I. follower glands and mild steel nut bolts coated or otherwise protected from rusting and suitable for D.I.pipes including cost of labour,material and transportation to stors /site,loading,unloading including all taxes etc complete as per IS-9523.			
155088	350 mm dia & Above,	186.00	Kg	28846368.00
	ITEM No:3 :- Providing double flanged Reflux Valves conforming to IS-5312 including worm gear arrangements as per test pressure, stainless steel spindle, caps, including inspection charges transportation stores,unloading,stacking excluding GST levied by GOI & GOM in all respect etc.complete.			
1	1200 mm dia Sluice Valve.P.N.1.6	1306050.00	Nos.	1306050.00
1	1100 mm dia Sluice Valve.P.N.1.6	1097039.00	Nos.	1097039.00
1	700 mm dia Sluice Valve.P.N.1.6	444257.00	Nos.	444257.00
	ITEM No:4 :- Providing double flanged Sluice Valves conforming to IS-14846 including worm gear arrangements as per test pressure, stainless steel spindle, caps, including inspection charges transportation stores,unloading,stacking excluding GST levied by GOI & GOM in all respect etc.complete.			
102	200 mm dia Sluice Valve.P.N.1.6 (Isolated & scour)	27877.00	Nos.	2843454.00
1	700 mm dia Sluice Valve.P.N.1.6	368329.00	Nos.	368329.00
2	1100 mm dia Sluice Valve.P.N.1.6	1259767.00	Nos.	2519534.00
2	1200 mm dia Sluice Valve.P.N.1.6	1489438.00	Nos.	2978876.00

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	Item No 5 :- Providing and supplying at site ductile Iron / Spheroidal Graphite (S.G) iron single / Double chamber tamper proof air valve without isolating sluice valve.Valves in accordance with BSEN 1074 4 of PN 10/16 rated with body and bonnet of ductile iron conforming to EN 1563/IS 1865.Gr.500/7 or Gr.400/15 floats,float guide,seat ring of stainless steel I.4436/I.4306.seat ring gasket of WRAS approved EPDM rubber (suitable for drinking water) internal fastness of stainless steel A2 Body & Bonnet coated inside & outside with electrostatically applied epoxy poeder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min.250 microns.Flange connections as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14845,including transportation charges excluding GST levied by GOI & GOM in all respect etc.complete..			
95	200 mm dia. Tamper Proof Air Valve.PN-1.60	31689.00	Nos.	3010455.00
	Item No. 6 :- Excavation for foundation / pipe trenches in earth, soils of all types, sand, gravel and soft murum, hard murau,hard murum boulder & W.B.M. road,soft rock and old cement and lime masonry foundation,asphalt road, Hard rock by controlled blasting,Hard rock & concrete road by chiselling , wedging,line drilling by machanical means or by all means other than blasting including trimming and levelling the bed by chiselling where necessary including removing the excavated material upto a distance of 50 metres and lifts as below, stacking and spreading as directed, manual dewatering, preparing the bed for foundation and excluding backfilling, etc. complete.			
#####	Lift 0 to 3.0 M.	582.00	Cum.	106055677.50
	ITEM No.11 :- Filling in plinth and floors murum bedding in trenches with approved murum from excavated materials from foundation 15 cm to 20 cm layers including watering and compaction etc.			
13370.80	A).Murum available from excavated stuff	92.00	Cum	1230114.00
	ITEM No. 12 :- Lowering laying and jointing with SBR ruber gaskets C.I. S/S pipes of various classes with CI / MS specials of following diameter in proper position, grade and alignment as directed by Engineer-in-charge including conveyance of material from stores to site of work, including cost of jointing materials and rubber rings labour, giving hydraulic testing etc. complete.			
25390.00	1200 mm dia.DI.K-9 Pipe.	1225.20	Rmt	31107828.00
20500.00	1100 mm dia.DI.K-9 Pipe.	1021.00	Rmt	20930500.00
800.00	700 mm dia.DI.K-9 Pipe.	529.00	Rmt	423200.00
	ITEM No. 13 :- Hydraulic testing of pipeline to specified pressure including cost of all materials and labour and water for testing using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary.			
	<u>CI Class 'LA' / Mortar inlined D.I. K-9 / K-7</u>			
25.39	1200 mm dia.DI.K-9 Pipe.	136323.60	Km	3461257.00
20.50	1100 mm dia.DI.K-9 Pipe.	113603.00	Km	2328862.00

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0.80	700 mm dia.DI.K-9 Pipe.	58662.00	Km	46930.00
	ITEM No. 14 :- Lowering, laying and jointing in position following C.I. D/F reflux valves, Butterfly valves and sluice valves including cost of all labour jointing material including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of			
102	200 mm dia Sluice Valve.P.N.1.6 (Isolated & scour)	4160.00	Nos.	424320.00
3	1200 mm dia Sluice Valve.P.N.1.6	24545.00	Nos.	73635.00
3	1100 mm dia Sluice Valve.P.N.1.6	22336.00	Nos.	67008.00
2	700 mm dia Sluice Valve.P.N.1.6	11785.00	Nos.	23570.00
	ITEM No. 15 :- Providing and fixing in position air valve shaft including providing and fixing G.I. Medium class of 6 mm thick M.S. pipe shaft 2.70 m long over branch flange of air valve tee. Providing PCC block of M- 150 concrete 150 mm thick around the air valve tee including encasing of vertical shaft in PCC M- 150 as shown in type design together with providing and making flanged joints wherever required cost of air valve over the shaft excluding cost of air valve and branched flanged air valve tee, etc complete as per branched flanged air valve tee, etc complete as per type design and as directed by Engineer-in-charge for following diameters of			
	A) Foundation on Murum and Hard Strata			
93.00	1000 to 1200 mm Dia pipeline.	19192.00	Nos.	1784856.00
	B) Foundation on Murum and Hard Strata			
2.00	450 to 900 mm Dia pipeline.	15284.00	Nos.	30568.00
	ITEM No.16 :- Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:2:6 proportion PCC bedding excluding excavation, B.B. masonry in C.M. 1:5 proportion precast RCC frame and cover etc. complete as directed by Engineer in charge (internal size 60 x 45 cm and depth 0.9 m.)			
9	As above of 150 x 150 cm internal size and depth upto 1.5M with precast RCC slab cover	29017.62	Nos.	261159.00
	ITEM No. 17 :- Refilling the trenches with available excavated stuff with soft material first over pipeline and then hard material in 15 cm. Layers with all leads and lifts including consolidation, surcharging,			
#####		92.00	Cum	10946892.00
	Item No. 18 :- Providing and supplying ISI standard MS specials of required thickness with 3 coats of approved make epoxy paint (Shalimar, Ciba or Mahindra & Mahindra make) from inside and outside including all taxes (Central and local), octroi, inspection charges, transportation to stores / site, and stacking, etc. complete.			
5000.00	MS Specials (All Socketed)	95.00	Kg	475000.00
	ITEM No. 19 :- Providing and laying in situ cement concrete of trap/ granite/ quartzite/ gneiss metal for foundation and bedding including dewatering, form work, compacting roughening if special finishis to be provided, finishing if required etc. complete.			
2016.18	1:2:4 (M – 150) grade	6691.29	Cum	13490873.51

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	Item No.20 :- Providing and casting in situ Cement Concrete of trap/granite/quartzite/ gneiss metal of approved quality for RCC work in foundation like raft,grillage,strip foundation and footing of R.C.C. columns and steel stanchions including normal dewatering,formwork,compaction,finishing and curing etc.complete			
	In R.C.C. M-200			
545.74	For Thrust/Anchor block at bends	8054.63	Cum	4395713.00
	Item No. 21 :- Providing and fixing in position steel bar reinforcement of various diameters for RCC pipes , caps, footings foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, copings fins, arches, etc as per detailed designs, drawings, and schedules, including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc complete. (including cost of binding wire.)			
42.840	Tor Steel.	80681.00	MT	3456406.00
	Item No. 22 :- Making cross connection to existing distribution main of any type including excavation, breaking and removing exiting pipes, lowering, laying of specials and pipes in their position, refilling, closing the water supply in that area, dewatering and restarting the water supply, etc. complete as directed by Engineer-in-charge for following diamerts of existing pipeline, irrespective of diameter of branch line (the number of joints involved will be paid separately depending upon the nature of joints and required pipes, valves and specials will be supplied free of cost at stores).			
2.00	1000 mm dia	72794.00	Nos.	145588.00
	Item No. 23 :- RATES FOR ROAD AND RAILWAY CROSSING BY PUSH THROUGH METHOD Pushing of M.S. pipe of following dia for road crossing and railway crossing by push through method in all types of strata by using hydraulic jack and drilling machine of required diameter, below MS casing pipe lowering, laying, jointing of material,required welding machinery,tripod, chain pully block,crane , blower ,compressor,loading and unloading of machinery into the trench etc,transporting and dewatering etc.complete as directed by engineer			
90.00	b) 500 mm to 1200 mm dia MS pipe	34522.00	Rmt	3107000.00
	Item No. 24 :- Manufacturing, providing and supplying spirally welded / ERW/ SAW / fabricated M. S. pipes (Commercial Quality) including procurements of plates, gas cutting to required size rolling, tack welding assembling in suitable lengths to form pipes, welding on automatic welding machine and forming 'V' edge on both ends of pipes including railway freight, insurance, unloading from railway wagon, loading into truck, transport to stores, unloading, stacking, excluding GST levied by GOI and GOM in all respect etc. complete as per IS - 3589 and IS-5504 as applicable as per specifications (No negative tolerance in thickness is permissible).			
60.00	Dia of Pipe : 1000 mm (I. D.) 9.0mm thk	21065.00	Rmt	1263900.00
30.00	Dia of Pipe : 700 mm (I. D.) 9.0mm thk	14802.00	Rmt	444060.00

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	Item No. 25 :- Provision for charges to be deposited to PWD department and Telephone department for various permissions (Including Crossing of National Highway, State Highway, MDR & ODR etc. & charges to be paid against pipe line to be laid along the road side etc.)			
47500.00	PWD Charges Along the Road	275	Rmt	13062500.00
3.00	Road Crossing	5500	Rmt	16500.00
	Item No. 26 :- Provision for charges towards crop compensasion of farmers,etc.) Note:-Contractor should submitt GPS photos of affected farm along with concern farmer & farmer Name and address.Also contractor should submitt authentic 7/12 & 8A of affected farmer and receipt of payment paid to farmer as per valuation of crop affected.Contractractor should submitt GPS photographs before and after execution of pipeline work.Payment should be payable after joint inspection of Municipal Engineer, PMC, Contractor & Concern Farmer as per actual valuation.			
186760		250	Sq.mt.	46690000.00
		Total	Rs.	1990597599
		Say Rs	Rs.	1,99,05,97,600