



1 PRICE SCHEDULE

1.1 Name of the Work

Construction, Supply, Erection, Testing, Commissioning, Start-up of 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD followed by 6 months performance run & 5 years O & M period.

1.2 Terms and Conditions

- a) The price Schedule shall be with reference to the Notice Inviting Tender, Instruction to Bidders, Conditions of Contract Specifications, Scope of Work and Technical Specifications (Volume II, A, B, C, D, E) of the Tender Documents and minutes of pre-bid meeting.
- b) The Price Schedule, Notice Inviting Tender, Instruction to Bidders, Conditions of Contract, Scope of Work and the Technical Specifications for Civil, Electrical, Mechanical and Operation & Maintenance which form an integral part of this Contract, shall be read in conjunction.
- c) The contractor shall generally submit his R.A. bills once in a month. If the progress of work is more during a month and eligible for the stage of payment, more bills can be submitted in a month.
- d) The rates and prices in the price schedule shall, except in cases separately provided for, be deemed to cover all the contractual obligations under this contract.
- e) In case of any discrepancy between the amount quoted in words and figures, and in original, lowest price shall be considered as final and valid.
- f) Any other item to be executed as per scope of work but not covered in the sub-head under broad break-up of payment should also be specified separately along with price Schedule by the bidder.
- g) The Bidder shall quote all prices in the price schedule in Indian currency in both words and figures.
- h) The Price Offer is valid for a period of minimum 180 days from the date of submission of the tender document and till the bidder withdraws his offer in writing beyond 180 days.
- i) Income Tax, Works Contract Tax, VAT, if any and any surcharge or any other taxes as applicable from time to time will be deducted from the payments of the contractor, at source, as applicable.
- j) The Bidder shall include in his price Bid, trade tax, income tax, works contract tax, VAT, Octroi, any surcharge, sales tax, and all other Central Govt. and State Govt. taxes / duties as applicable. Any payment will not be reimbursed for any new taxes or any increase in tax during execution of the work.
- k) Successful tenderer shall take out necessary Insurance Policy / policies so as to provide adequate insurance cover for execution of awarded contract work from the "Directorate of Insurance, Maharashtra State Mumbai" only. Its postal address for correspondence is 264, MHADA, First Floor, Opp. Kalanagar, Bandra (E), Mumbai – 400 051 (Tel No. 2643 8690 / 2643 8746, Fax 2643 8461) within seven days from the date of work order failure of which TMC is free to deduct 1% of contract value from 1st RA bill of work against premium of this policy which may please be noted.
- l) The contractor shall submit the running bills to the Engineer-in-Charge. After scrutiny, the Engineer-in-Charge shall record the bill and send the same to accounts department for payment duly recommended.



1.1 CIVIL COST ESTIMATES FOR KPS 3

It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
	Excavation				
1	Excavation for foundation in earth soil..etc complete.				
a	0 to 1.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-1/259)(Item 1)	374.55	147.4	cum.	55,208
b	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-1/259)(Item 1 & 4)		161.7		0
2	Excavation for foundation in hard murum etc. complete.				
a	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-2/259)(Item 2 & 4)	98.77	185.9	cum.	18,361
b	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-2/259)(Item 2 & 4)		217.8		0
3	Excavation for foundation in hard murum,boulder & WB.M...etc complete.				
c	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-3/259)(Item 3 & 4)	65.67	221.1	cum.	14,519
d	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-3/259)(Item 3 & 4)		235.4	cum.	0
4	Excavation for foundation in soft rock & old cement,masonry,asphalt ..etc complete.				
a)	0 to 1.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5)		487.3	cum.	0
b)	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)		509.3	cum.	0
c)	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)		531.3	cum.	0
d)	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)	30.65	553.3	cum.	16,961
					0
5	Excavation for foundation in hard rock...etc complete.				0



Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
a	0 to 1.5		896.5	cum.	0
b)	1.5 to 3.0		918.5	cum.	0
c	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		940.5	cum.	0
d)	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		962.5	cum.	0
e	6 to 7.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)	23.87	984.5	cum.	23496
f	7.5 to 9 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		1006.5	cum.	0
6	Providing dry trap/rubble soling 15 cm to 20 cm thick including hand packing & compacting etc complete.				
	(PWD DSR 2012-2013 it no.5 page no.8	13.09	819	cum.	10720
7	Refilling the trenches with available excavated material etc completed				
	(MJP /SR 2012-2013 Page no.37) item no.17	234.24	66	cum.	15460
8	Dewatering				
	(MJP /SR 2012-2013 Page no. 36)(BD-A-9/261)	900	66	HP/hr	59400
9	Timbering				
	0-1.5 m	32.50	270.6	Sq.M	8794
	1.5- 3.0 m	29.67	292.6	Sq.M	8682
	3 - 4.5 m	26.85	314.6	Sq.M	8446
	4.5 to 6m	24.02	336.6	Sq.M	8085
	MJP DSR P No 37,38 Item No 22 b.)				
10	Tranportation				
a	Cartng away the excavated material for a lead beyond 1 km (MJP /SR 2012-2013 Page no. 21)		186.19	cum.	0

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NO. OF CORRECTIONS

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It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
b	Cartng away the excavated material for a lead beyond 3 km (MJP /SR 2012-2013 Page no. 21)	240.09	239.01	cum.	57383
c	Cartng away the excavated material for a lead beyond 5 km (MJP /SR 2012-2013 Page no. 21)		289.01	cum.	0
d	Cartng away the excavated material for a lead beyond 10 km (MJP /SR 2012-2013 Page no. 21)		407.85	cum.	0
11	PCC (M 15)				
	Providing & laying in situ following grades of CC of trap/granite/quartzite/gneiss metal for foundation & bedding including normal dewatering ,form work ,compaction,finishing & curing etc complete.				
	(MJP /SR 2012-2013 Page no. 41)(Item No : 1/b)	31.04	5364.5	cum.	166496
12	RCC (M-25)				
a	Providing & laying in situ Ready Mix Concrete grade of trap/granite/quartzite/gneiss metal for RCC work in foundation like raft ,grillage,strip foundation & footing of RCC column including normal dewatering ,form work ,compaction,finishing & curing including transporation from mixing plant up to distance of 25 km pouring the concrete at work site for 1.5 m above G.L & 5.0 m lift below G.L. C.C. M25 etc. complete.				
	(MJP /SR 2012-2013 Page no. 42)(Item No : 2/c)	17.35	7386.5	cum.	128129



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
	Providing & laying in situ Ready Mix Concrete grade of trap/granite/quartzite/gneiss metal of approved quality for RCC work as per detailed drawings & designs or as directed by Engineer-in - Charge including normal dewatering, form work, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness & even surface wherever necessary or roughening if special finish is to be provided & curing including transportation from mixing plant up to distance of 25 km pouring the concrete at work site for 1.5 m above G.L & 5.0 m lift below G.L. C.C. M25 etc. complete.				
b	a) columns (MJP /SR 2012-2013 Page no. 42)(Item No : 3/b)		9033.2		0
c	b) Beams/Braces/Lintels(MJP /SR 2012-2013 Page no. 43)(Item No : 4/b)		9001.3		0
d	c) Slabs/Landings/Vertical walls/Waist Slab/Steps for staircase.(MJP /SR 2012-2013 Page no. 43)(Item No : 5/b)	82.57	9441.3		779598
13	Reinforcement				
a)	Providing & fixing in position reinforcement of various diameters for RCC pile, footings, columns, Slabs etc complete				
	TOR steel (MJP /SR 2012-2013 Bd-F-17/306 page no. 45, item no.8)	14.99	64686.6	MT	969519
b)	Providing fusion bonded epoxy coating to reinforcement bar as per IS 13620-993 specification for a thk of 175+- 50 microns Etc complete				
	(MJP /SR 2012-2013, page no. 46, item no.9)	14.99	14706	MT	220413
14	Providing & fixing GI pipe Hand Railing having 1 m height..... Etc complete.				
	(MJP /SR 2012-2013, page no. 52, item no.1)	15	1019.7	Rmt	15296



Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
15	Structural work				
	Providing structural steel work in single steel stanchions composed of RSJ ,channel etc with caps,bases,mild steel plates.....etc complete.				
	(MJP /SR 2012-2013, page no. 39, item no.3)		67643.4	M ton	
a	Ladder	4.5	1514.7	Rmt	6816
	(MJP /SR 2012-2013, page no. 295, item no.5)				
b	Rungs	14	363	nos.	5082
	(MJP /SR 2012-2013, page no. 292, item no.11)				
16	Painting				
a	Providing & applying two coats of epoxy paint of approved make (Shalimar,Ciba,M&M) to concrete surfaces..... Etc complete.				
	(MJP/SR 2012-2013 / Page no. 295 (Item 6/b)	215.7	628.1	Sq M	135481
e	Providing & applying synthetic enamel paint of approved colour & quality to structural steel work Etc complete				
	(PWD/SR 2012-2013 / Page no. 55 (Item 5/a)	20	54.6	sqm	1092
17	Constructing BB Masonary Manholeetc complete(7m depth approx)				
	(MJP DSR 2012-2013 it no.vi/2 page no.97	1	117612	no	117612
	Rebate	-2	7286.4		-14573
18	Providing and fixing M.S.wicket Gate 1 m wide for compound with 40mm dia. G I pipe, approved grill work, RCC M-15 side pillars foundation, finishing painting etc complete.				
	(MJP DSR 2012-2013 it no.4 page no.52	1	17716	no	17716
19	Watchman cabin(Porta)	1	53146.00	no.	53146

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**Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD
at Kharigaon, Thane Phase II
Volume III: Price Schedule**

It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
20	Rising Main				
a	Providing & Laying Rising main(DI K-9)500mm dia	150	6444.9	Rmt	966735
	(PWS DSR 2012-2013 it no.1 page no.58 and 61				
b	Lowering laying and jointing with rubber gasket	150	308	Rmt	46200
	(MJP DSR 2012-2013 it no.2 (viii) page no.61				
21. a	Providing of 500mm dia RCC Pipes(NP3 Class)	10	2550.9	Rmt	25509
b	Lowering laying	10	223.3	Rmt	2233
	Total Cost in Rs.				3948018
	Total Cost in Crores Rs.				0.39

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NO. OF CORRECTIONS

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1.2 MECHANICAL COST ESTIMATES FOR KPS 3

Sr No	Description	Qty	Source	Size and description as per tender	Unit rate in Rs	Total Cost in Rs.
1	Raw Sewage Pumps	2	FMR	870 m ³ /hr at 15 m	1250000	3620590
2	Screens					
2.1	Sewer Chewer	2	Auric	300 mm	2015000	5836392
3	Valves					
3.1	Non Return Valves	2	MJP DSR 2012-13, page no 174 to 177, complete	400 mm	63789	127578
3.2	Knife Gate valves	3	FMR	400 mm	144000	625638
3.3	Air valve	2	MJP DSR 2012-13, page no 174 to 177, complete	80 mm	15559	31118
4	Piping and specials	1	Lumpsum	Unit	567,467	567467
					Total Rs	10808783
					Total in Cr Rs.	1.08



1.3 ELECTRICAL COST ESTIMATES OF KPS 3

Sr No	Description	Qty	Unit	Rate	Amount	Reference
1	Cables					
a	From POS to LT panel 3.5Cx185sqmm	500	Rmt	1297	648500	I No CB 5-6 pg 65 MJP (E&M) 12-13
b	From DG to LT panel 3.5Cx185sqmm	50	Rmt	1297	64850	I No CB 5-6 pg 65 MJP (E&M) 12-13
c	From LT panel to sewer chewer panel 3.5Cx2.5 Sq.mm	30	Rmt	108	3240	I No CB 4-1 pg 65 MJP (E&M) 12-13
d	From LT panel to starter panel 3.5Cx25sqmm	30	Rmt	296	8880	I No CB 5-1 pg 65 MJP (E&M) 12-13
2	100 KVA DG set with AMF Panel	1	No	798117	798117	GOM, PWD, Electrical , CSR 2013- 14,P-153, I-11-1-10
3	LT Cable Terminations					
3.1	3.5Cx185 sqmm	8	Nos	1605	12840	GOM, PWD, Electrical , CSR 2013- 14,P-114, I-7-4-10
3,2	3.5Cx2.5 Sq.mm	4	Nos	1130	4520	GOM, PWD, Electrical , CSR 2013- 14,P-114, I-7-4-8
3.3	3.5Cx25sqmm	4	Nos	1379	5516	GOM, PWD, Electrical , CSR 2013- 14,P-114, I-7-4-9
4	Earthing					
4.1	Design,Supplying and erecting Pipe type Earthing with 40 mm .dia ,G.I pipe complete with all materials as per specification	4	Nos.	1536	6144	GOM, PWD, Electrical , CSR 2013-14,P-139, I-9-1-4
4.2	Design,Supplying and erecting G.I strip of required size used for earthing on wall and / or any purpose with necessary copper clamps fixed on wall joints required as per specification	250	Kg	158	39500	GOM, PWD, Electrical , CSR 2013-14,P-140, I-9-2-3
4.3	Design,Supplying and erecting G.I earth wire of high purity of different size used for earthing or any other purposes on wall with necessary G.I. clamps fixed on wall / cable/ conduit with screws in an approved manner.	3	kg	152	456	GOM, PWD, Electrical , CSR 2013-14,P-140, I-9-2-5
4.4	Design,Supplying and erecting copper wire of high purity of different size used for earthing or any other purposes on wall with necessary G.I. clamps fixed on wall / cable/ conduit with screws in an approved manner.	1	kg	868	868	GOM, PWD, Electrical , CSR 2013-14,P-140, I-9-2-4



Sr No	Description	Qty	Unit	Rate	Amount	Reference
5	LT Panel					
5.1	Metering: - Supplying, installation, testing & commissioning of cubical type LT panel suitable for 415V, 3 Phase, 250 A, 4 Wire, 50Hz, AC supply system having front surface area 6 sq.mtr (Approx.) fabricated in compartmentalized (preferably) design from CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates including powder coating etc, as per specification and Including protection relays and metering with C.T's as per single line diagram and specifications	1	No.	49,007	49,007	GOM, PWD, Electrical, CSR 2013-14, P-88, I-5-7-3
5.2	Incomings : 200 Amps (lcs-36kA upto 433V) TPN MCCB with microprocessor release	2	Nos.	14,191	28,382	GOM, PWD, Electrical, CSR 2013-14, P-86, I-5-5-2
5.3	Out goings feeders:-					
	a) 100 Amp 4 Pole MCCB (lcs- 36 kA upto 433V) with Thermal magnetic release	3	Nos.	4,877	14,631	GOM, PWD, Electrical, CSR 2013-14, P-86, I-5-5-1
	b) 16 Amp 4 Pole MCCB (lcs- 36 kA upto 433V) with Thermal magnetic release	4	Nos.	4,877	19,508	GOM, PWD, Electrical, CSR 2013-14, P-86, I-5-5-1
	c) Rotary handle for MCCB with adjustable telescopic rod suitable for upto 100- 250 A, MCCB	9	Nos.	1,278	11,502	GOM, PWD, Electrical, CSR 2013-14, P-94, I-5-11-14
	d) 16A MCB (TPN)	5	Nos.	775	3,875	GOM, PWD, Electrical, CSR 2013-14, P-82, I-5-3-18
	e) 32 A MCB (TPN)	2	Nos.	775	1,550	GOM, PWD, Electrical, CSR 2013-14, P-82, I-5-3-18



Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

Sr No	Description	Qty	Unit	Rate	Amount	Reference
	f) 10 A MCB(TPN)	3	Nos.	776	2,328	GOM, PWD, Electrical , CSR 2013-14,P-82, I-5-3-19
	g)Selector switch suitable for Voltmeter / Ammeter	6	Nos.	286	1,716	GOM, PWD, Electrical , CSR 2013-14,P-102, I-6-5-1
	h) fully automatic Star Delta starter	5	No.	7,080	35,400	GOM, PWD, Electrical , CSR 2013-14,P-173 I-12-5-4
	i) Digital Voltmeter	1	No.	2,575	2,575	GOM, PWD, Electrical , CSR 2013-14,P-101 I-6-3-12
	i) Digital Ammeter	4	No.	2,828	11,312	GOM, PWD, Electrical , CSR 2013-14,P-101 I-6-3-11
	j)Local / Remote Selector switch	5	Nos.	286	1,430	GOM, PWD, Electrical , CSR 2013-14,P-102, I-6-5-1
	k) Indicating lamps	32	Nos.	279	8,928	GOM, PWD, Electrical , CSR 2013-14,P-102, I-6-5-2
	l) 30 kVAr,APFC Capacitor Bank	1	No	176,275	176,275	GOM, PWD, Electrical , CSR 2013-14,P-105, I-6-7-6
6	400 ND-Full Bore,Electro Magnetic Flowmeter with sensor transmitter, cable, flow meter and surge arrestor complete.	1	No	395463	395463	WM4 (g), Pg-103, MJP (E & M) 12-13
Total Cost in Rs.		23,57,313				
Total Cost in Lakhs		23.57				
Total Cost in Cr.		0.24				

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NO. OF CORRECTIONS

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1.4 INSTRUMENTATION COST ESTIMATE FOR KPS 3

Sr. No	Item Description	Unit	Qty.	Rate	Amount	Remarks
1	Pressure Gauge	Nos.	3	1226	3678	MJP_SOR_12-13_Item No. PM 11- 3, Pg. No. 9
2	Level Transmitter (Ultrasonic) with indicator	Nos.	1	72755	72755	Rate Analysis
3	Differential Level Transmitter	Nos.	2	42742	85483	Rate Analysis
4	Electromagnetic Flowmeter, 500 mm including accessories	Nos.	1	605083	605083	MJP_SOR_12-13_Item No. 4 (O), Pg. No. 103
TOTAL in Rs.					7,67,000	
TOTAL in Crore					0.08	



2.1 CIVIL COST ESTIMATE FOR KPS 4

It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
	Excavation				
1	Excavation for foundation in earth soil..etc complete.				
a	0 to 1.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-1/259)(Item 1)	5916	147	cum.	871990
b	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-1/259)(Item 1 & 4)		162		0
2	Excavation for foundation in hard murum etc. complete.				
a	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-2/259)(Item 2 & 4)	3450	186	cum.	641302
b	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-2/259)(Item 2 & 4)		218		0
3	Excavation for foundation in hard murum,boulder & WB.M...etc complete.				
c	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-3/259)(Item 3 & 4)	457	221	cum.	100946
d	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-3/259)(Item 3 & 4)		235	cum.	0
4	Excavation for foundation in soft rock & old cement,masonry,asphalt ..etc complete.				
a)	0 to 1.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5)		487	cum.	0
b)	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)		509	cum.	0
c)	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)		531	cum.	0
d)	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)	419	553	cum.	231748
					0
5	Excavation for foundation in hard rock...etc complete.				0
a	0 to 1.5		897	cum.	0
b	1.5 to 3.0		919	cum.	0



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
c	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		941	cum.	0
d	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		963	cum.	0
e	6 to 7.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)	385	985	cum.	379381
f	7.5 to 9 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)	187	1007	cum.	188326
g	9 to 10.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259)(Item 8 & 11)	170	1029	cum.	174551
h	10.5 to 12 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259)(Item 8 & 11)		1051	cum.	0
6	Providing dry trap/rubble soling 15 cm to 20 cm thick including hand packing & compacting etc complete.				
	(PWD DSR 2012-2013 it no.5 page no.8	88	819	cum.	72031
7	Refilling the trenches with available excavated material etc completed				
	(MJP /SR 2012-2013 Page no.37) item no.17	6373	66	cum.	420592
8	Dewatering				
	(MJP /SR 2012-2013 Page no. 36)(BD-A-9/261	12000	66	HP/hr	792000
9	Tranportation				
a	Cartng away the excavated material for a lead beyond 1 km (MJP /SR 2012-2013 Page no. 21)		186	cum.	0
b	Cartng away the excavated material for a lead beyond 3 km (MJP /SR 2012-2013 Page no. 21)		239	cum.	0
c	Cartng away the excavated material for a lead beyond 5 km (MJP /SR 2012-2013 Page no. 21)		289	cum.	0
d	Cartng away the excavated material for a lead beyond 10 km (MJP /SR 2012-2013 Page no. 21)		408	cum.	0
10	PCC (M 15)				



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
	Providing & laying in situ following grades of CC of trap/granite/quartzite/gneiss metal for foundation & bedding including normal dewatering, form work, compaction, finishing & curing etc complete.				0
	(MJP /SR 2012-2013 Page no. 41)(Item No : 1/b)	422	5365	cum.	2264672
11	RCC (M 20)				
	Providing & laying in situ Ready Mix Concrete grade of trap/granite/quartzite/gneiss metal for RCC work in foundation like raft, grillage, strip foundation & footing of RCC column including normal dewatering, form work, compaction, finishing & curing including transportation from mixing plant up to distance of 25 km pouring the concrete at work site for 1.5 m above G.L & 5.0 m lift below G.L. C.C. M20 etc. complete.				
	(PWD DSR 2012-2013 it no.4 page no.18)		7065	Cum	0
12	RCC (M-25)				
a	Providing & laying in situ Ready Mix Concrete grade of trap/granite/quartzite/gneiss metal for RCC work in foundation like raft, grillage, strip foundation & footing of RCC column including normal dewatering, form work, compaction, finishing & curing including transportation from mixing plant up to distance of 25 km pouring the concrete at work site for 1.5 m above G.L & 5.0 m lift below G.L. C.C. M25 etc. complete.				
	(MJP /SR 2012-2013 Page no. 42)(Item No : 2/c)	201	7387	cum.	1487852
					0



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
	Providing & laying in situ Ready Mix Concrete grade of trap/granite/quartzite/gneiss metal of approved quality for RCC work as per detailed drawings & designs or as directed by Engineer-in - Charge including normal dewatering ,form work ,compaction,finishing the formed surfaces with CM 1:3 of sufficient minimum thickness & even surface wherever necessary or roughening if special finish is to be provided & curing including transportation from mixing plant up to distance of 25 km pouring the concrete at work site for 1.5 m above G.L & 5.0 m lift below G.L. C.C. M25 etc. complete.				
b	a) columns (MJP /SR 2012-2013 Page no. 42)(Item No : 3/b)	59	9033		530881
c	b) Beams/Braces/Lintels(MJP /SR 2012-2013 Page no. 43)(Item No : 4/b)	62	9001		556388
d	c) Slabs/Landings/Vertical walls/Waist Slab/Steps for staircase.(MJP /SR 2012-2013 Page no. 43)(Item No : 5/b)	621	9441		5864442
e	d) Chajjas/Parapets/Pardis/Curtain walls/Partition walls (MJP /SR 2012-2013 Page no. 44)(Item No : 6/b)		9699		0
13	Reinforcement				
a)	Providing & fixing in position reinforcement of various diameters for RCC pile ,footings ,columns,Slabs etc complete				
	TOR steel (MJP /SR 2012-2013 Bd-F-17/306 page no. 45, item no.8)	141	64687		9151456
b)	Providing fusion bonded epoxy coating to reinforcement bar as per IS 13620-993 specification for a thk of 175+- 50 microns Etc complete				
	(MJP /SR 2012-2013, page no. 46, item no.9)	141	14706		2080513
14	Brick Work				
	Providing second class Burnt Brick Masonry with conventional /I.S. type bricks in cement mortar 1: 6 in superstructure , including striking joints,raking out joints ,watering & scaffolding etc complete.				



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
	(PWD DSR 2012-2013 it no.1 page no.24)	134	4419	Cu.m	593317
15	Plastering				
a)	Providing cement plaster 25 mm thick in two coats , in cement mortar 1:4 without neeru finish to concrete,brick or stone surface in all positions including raking out joints ,scaffolding & curing etc. complete.				
	(PWD DSR 2012-2013 it no.5 page no.37)	382	269	sq.m	102582
b)	Providing sand face cement plaster externally in two coats using approved screened sand in all positions including providing base coat of 15 mm thk in cement mortar 1: 4 mixing approved water proofing compound at the rate of 1kg/50 kg of cement & curing the saame for not less than two days & keeping the surface base coat rough to receive the sand faced treatment of 8 mm thk in cement mortar 1:4 & finishing the surface by taking out grains & curing for 14 days including preparing the surface & scaffolding etc complete.				
	(PWD DSR 2012-2013 it no.6 page no.37)	872	353	sq.m	307456
16	Water Proofing				



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
a	Providing and laying water proofing treatment of 112 mm average thickness consisting of 120 mm thick layer in cement mortar 1:3 with water proofing compound at the rate of one kilograme per bag of cement as base , constructing and laying brick bat coba in cement mortar 1:5, with water proofing compound at the rate of 1kg per bag of cement and having average thickness of 80 mm and finishing with 20 mm cement plaster layer in cement mortar 1:3 with approved water proofing compound at the rate of 1kg/cement bag, including all leads, lifts and laid to proper slope to drain of water entirely including watta at the junction of para pet and work up to height of 30 cms or as directed and, including finishing the top layer of water proofing treatment with false marking of 30x 30 cms or as directed and covering whole treatment with 7 years guarantee, on requisite stamp paper etc. complete				0
	(PWD/SR 2012-2013 / Page no.30 (Item 5)	158	947	Sqm	149664
					0
b	Providing water proof bedding of W.C & Bath 25 mm thk in CM 1:3 using 1 kg of qpproved water proofing compound of IS std per 50 kg of cement including levelling ,curing etc complete.				0
	(PWD/SR 2012-2013 / Page no. 31 (Item 9)		2356	Sqm	0
17	Doors				
	Providing & fixing anodized aluminium fully glazed door including door frame with powder coating, 5mm thick sheet ,necessarry fixture Etc complete.	38	3797	sq.m	142950
18	Windows				
A	Suppling & fixing in position anodized extruded modular aluminium section two track sliding windows Etc complete	12	2790	Sq M	32139
B	Suppling & fixing in position anodized extruded modular aluminium section three track sliding windows Etc complete				0



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
C	Providing and fixing in position aluminium louvered window/ventilator with powder coatingetc complete				
	(PWD/SR 2012-2013 / Page no.79 (Item 35)	1	1893	Sq M	1704
19	Rolling Shutter				
	Providing & fixing rolling shutter fabricated from 18/19 gauges steel with side guides , bottomrail,brackets including rolling springs ,locking arrangement & housing box at the top with one coat of red lead primer etc complete.				
	(PWD/SR 2012-2013 / Page no. 78 (Item 29)	20	2144	Sq M	42882
20	Providing & fixing GI pipe Hand Railing having 1 m height..... Etc complete.				
	(MJP /SR 2012-2013, page no. 52, item no.1)	36	1020	Rmt	36709
21	Structural work				
	Providing structural steel work in single steel stanchions composed of RSJ ,channel etc with caps,bases,mild steel plates.....etc complete.				
	(MJP /SR 2012-2013, page no. 39, item no.3)	2	67643	M ton	135287
	Flooring				
a	Providing & laying in position polished kota stone flooring Etc complete 55 cmx55 cm				
	(PWD/SR 2012-2013 / Page no.42 (Item 5)	39	938	Sqm	36586
b	Providing & laying ceramic tiles of IS std & approved quality 30x30 cm size for flooring etc complete				
	(PWD/SR 2012-2013 / Page no.44 (Item 14)		1078		0
c	Providing & laying coloured glazed tiles for flooringsize 300x200 mm				
	(PWD/SR 2012-2013 / Page no.43 (Item 11)	8	938		7036



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
d	Providing & laying coloured glazed tiles for dadosize 300x200 mm				
	(PWD/SR 2012-2013 / Page no.43 (Item 12)		938	Sqm	0
e	Providing sills, and frames of polished kota stone 25 to 30 mm thick on bed of cement mortar 1:4etc.				0
	(PWD/SR 2012-2013 / Page no.49 (Item 28)	10	905	Sq M	9237
f	Providing and laying precast polished chequered colour cement tiles of size 20x32x20 etc complete				0
	(PWS DSR 2012-2013 it no.27 page no.48	34	524	Sq.M	18039
23	Painting				
a	Providing & applying two coats of epoxy paint of approved make (Shalimar,Ciba,M& M) to concrete surfaces..... Etc complete.				
	(MJP/SR 2012-2013 / Page no. 295 (Item 6/b)	781	628	Sq M	490408
b	Providing & applying two coats of water proof cement paint of approved manufacture and colour to the plastered surface,including scaffolding,preparing the surfaceetc complete				
	(PWD/SR 2012-2013 / Page no. 55 (Item 8/a)	1264	36	Sq M	45125
c	Providing & applying one priming coat of approved quality on concrete/masonry/plastered surfaces including scaffolding if necessary.....etc complete				
	(PWD/SR 2012-2013 / Page no. 56 (Item 12)	1264	18	sqm	22563
d	Providing & applying two coats of oil bound distemper				
	(PWD/SR 2012-2013 / Page no. 57 (Item 4/a)		33	sqm	0



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
e	Providing & applying synthetic enamel paint of approved colour & quality to structural steel work Etc complete				
	(PWD/SR 2012-2013 / Page no. 55 (Item 5/a)	70	55	sqm	3822
f	Providing & applying one priming coat of approved quality over steel & other metal surfaces.....etc complete				
	(PWD/SR 2012-2013 / Page no. 56 (Item 10)	70	17	sqm	1176
24	Road Restoration				
a	Compaction of excavated part by vibratory roller				
	(PWD/SR 2012-2013 / Page no. 137 (Item 22)	3470	17	Sq M	58296
b	Providing and constructing WBM road in layers of 75/100mm completed thickness, preparation of subgrade etc. complete.				
	(PWD DSR 2012-2013, Pg No 223, (Item No 3 (a/i)	1056	1259	cum.	1329187
	WBM Grade II metal				
C.	Providing and laying hotmix hot laid bituminous macadam 50/75mm avg. thickness with 3.3% bitumen etc.				
	(PWD DSR 2012-2013, Pg No 145, (Item No 61 (A)	268	5385	cum.	1443934
d	Providing and laying tack coat by using bulk bitumen by 60/70 grade on WBM surface etc. complete.				
	(PWD DSR 2012-2013 item No.59 (a) page no. 144)	3568	60	sq.m.	213693
e	Providing and laying tack coat by using bulk bitumen by 60/70 grade on BM surface etc. complete.				
	(PWD DSR 2012-2013 item No.59 (b) page no. 144)	3568	32	sq.m.	114160



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
f	Providing, laying & Compacting 25 mm thk. Premix bitumious carpet of 30/40 grade of bitumen including etc. complete.				
	(PWS DSR 2012-2013 it no.42,43,44 (i) page no.141	3568	191	Sq M	681393
25	Sanitary & Plumbing				
a	Providing and laying in trenches 15mm dia of approved GI pipe embossed at every metre the ISI mark and name of manufacturer, having 21.32mm outer dia with screwed sockets, joints, and necessary galvanized iron fittings such as backnuts, elbows, bends, tees, plugs, etc including providing and applying two coats of oil paint with one coat of primer and necessary excavation and backfilling etc complete. (Heavy Type)				
	(PWS DSR 2012-2013 it no.1 (B/a) page no.97	40	208	RM	8316
b	Providing and laying on walls 15mm dia of approved GI pipe embossed at every metre the ISI mark and name of manufacturer, having 21.32mm outer dia with screwed sockets, joints, etc complete. (Heavy Type)				
	(PWS DSR 2012-2013 it no.2 (B/a) page no.98	20	222	RM	4431
c	Providing and fixing 15mm dia screw down bib/stop tap of brass of heavy type etc complete				
	(PWS DSR 2012-2013 it no.5 (a) page no.100	2	165	No	330
d	Providing and fixing 75mm dia UPVC iron rain water pipes etc complete				
	(PWS DSR 2012-2013 it no.39(b) page no.112	16	488	RM	7812
e	Providing and fixing approved and tested water metre bearing ISI mark with non return valve including..... etc complete.	1	2578	No	2578
	(PWS DSR 2012-2013 it no.4(A / i) page no.100				



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
f	Providing, hoisting and fixing in position sintex or equivalent high density polythylene UV stabilized water storage tank with necessary connections, etc complete				
	(PWS DSR 2012-2013 it no.59 page no.117	2000	8	Lit	16800
g	Providing ISI standard Stoneware pipes				
	(MJP DSR 2012-2013 it no.1(ii) page no.91	20	184	RM	3674
h	Lowering, Laying & Jointing stoneware pipe etc.				
	(MJP DSR 2012-2013 it no.2(ii) page no.91	20	116	RM	2310
i	Chambers and Manholes 60 x 45 cm internal size and depth upto 0.9m with S.F.R.C frame and cover				
	(MJP DSR 2012-2013 it no.3(A) page no.284		7502	No	0
j	Chambers and Manholes 90 x 60 cm internal size and depth upto 0.9m with S.F.R.C frame and cover (For Overflow Pipe)				
	(MJP DSR 2012-2013 it no.3(D) page no.284	2	14611	No	29223
k	Providing & fixing European type white glazed of (IS Std.) earthenware closet pan with Bekelite seat etc Complete				
	(PWS DSR 2012-2013 it no.20 page no.106	1	3575	No	3575
l	Providing & fixing 55x40cm earthenware wash hand basin etc complete				
	(PWS DSR 2012-2013 it no.27(A/b) page no.108	1	2050	No	2050
m	Providing & fixing 10cm dia uPVC Nahani Trap fixed with UPVC grating etc complete				
	(PWS DSR 2012-2013 it no.32 page no.110	2	386	No	773
26	Providing and erecting 1.5m high wire fencing with seven rows of barbed wire etc complete				



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
	(PWS DSR 2012-2013 it no.61 page no.129	90	549	RM	49424
27	Providing & Laying				
a	Providing and fixing kerb stones in position				
	(PWS DSR 2012-2013 it no.1 page no.232	20	266	Rmt	5313
b	Painting to kerb stones	20	89	Rmt	1785
	(PWS DSR 2012-2013 it no.5 page no.244				
28	making opening in concrete wall				
	(PWS DSR 2012-2013 it no.51 page no.127		393	Cum	0
29	Providing of 500mm dia RCC Pipes(NP3 Class)	20	3362		67232
	(MJP DSR 2012-2013 it no.vi/1/e page no.95				
30	laying of 500mm dia RCC Pipes(NP3 Class)	20	367		7348
	(MJP DSR 2012-2013 it no.vi/2 page no.97				
31	Constructing BB Masonary Manholeetc complete(7m depth approx)				
	(MJP DSR 2012-2013 it no.vi/2 page no.97	1	117612		117612
	Rebate	-2	7286		-14573
32	Filling in plinth with approved material				
	(PWS DSR 2012-2013 it no.3 page no.7	315	169	Cum	53216
33	Providing and fixing M.S.Gate 2.5 m wide for compound with 40mm dia. G I pipe, approved grill work, RCC M-15 side pillars foundation, finishing painting etc complete.				
	(MJP DSR 2012-2013 it no.3 page no.52	1	30056	no.	30056



It. No.	Description	Quantity	Rate	Unit	Rate as per MJP/PWD DSR 2012-13
34	Providing and fixing M.S.wicket Gate 1 m wide for compound with 40mm dia. G I pipe, approved grill work, RCC M-15 side pillars foundation, finishing painting etc complete.				
	(MJP DSR 2012-2013 it no.4 page no.52)	1	17716	no	17716
35	Rising Main				
a	Providing & Laying Rising main(DI K-9)1000mm dia	1720	21611	Rmt	37170232
	(PWS DSR 2012-2013 it no.1 page no.58 and 61)				
b	Lowering laying and jointing with rubber gasket	1720	1129	Rmt	1941192
	(MJP DSR 2012-2013 it no.2 (viii) page no.61)				
36	Grouting				
	Sealing of cracks by injection process through nipples complete as per drawing and technical specifications with				
	Cement Grout	250	80	Kg	20025
	(PWS DSR 2012-2013 it no.3 page no.247)				
37	Land scaping, site cleaning, etc work				100000
	Total Cost in Rs.				7,14,76,864
	Total Cost in Cr. Rs.				7.15



2.2 MECHANICAL COST ESTIMATES FOR KPS 4

Sr No	Description	Qty	Source	Size and description as per tender	Unit rate in Rs	Total Cost in Rs.
1	Raw Sewage Pumps	6	FMR	881 m ³ /hr at 25 m	1350000	11730713
2	Screens					
2.1	Mechanical screens	2	Jash	1.2 m x 8 m deep	1200000	3475767
2.2	Manual screen	1	Jash	1.2 m wide	660000	955836
2.3	J' screens	6	Jash	1.2 m wide	770000	6690851
3	Flat belt conveyor	1	Jash	0.6 m x 6 m	350000	506883
4	Sluice gates					
4.1	Up stream of screens	3	Batty and Co	1.2 m x 1.4 m	460000	1998566
4.2	Down stream of screens	3	Batty and Co	1.2 m x 1.4 m	460000	1998566
5	Valves					
6.2	Non Return Valves	6	MJP DSR 2012-13, page no 160 and 170, complete	400 mm	63789	382734
		1	MJP DSR 2012-13, page no 160 and 170, complete	900 mm	168498	168498
6.3	Knife Gate valves	6	Jash	400 mm	144000	1251276
		1	Jash	900 mm	489000	708187
6.4	Air valve	2	MJP DSR 2012-13, page no 174 to 177, complete	80 mm	15559	31118
7	EOT	1	Hercules	5 T, Pump House	786,960	1139704
		1	Hercules	2 T, Screen chamber	200,000	289647
17	Piping and specials	1	Lumpsum	Unit	2,228,536	2228536
Total Rs						3,35,56,881
Total in Cr Rs.						3.36



2.3 ELECTRICAL COST ESTIMATES FOR KPS 4

S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
A	Power Connection					
1	Design,Supplying and erecting Rolled Steel Joist pole 100 x 116 x 10 mtr long (23 kg/m) with provided base plate in provided foundation as per specification	4	Nos.	1436	5744	GOM, PWD, Electrical , CSR 2013-14,P-125, I-8-1-10
2	Design,Supplying and erecting 100x 50 mm with 4.7 mm thick web and 7.5 mm thick flange channel iron cross arm of suitable length for 2.4m wide 4 Pole structure and erecting on 4 Pole with 50x6 mm clamp as per approved method of construction and complete as per specification	2	Nos.	2174	4348	GOM, PWD, Electrical , CSR 2013-14,P-131, I-8-4-11
3	Design,Supplying and erecting Porcelain disc type insulator suitable for 22 kV line,complete as per specification	3	Nos.	1483	4449	GOM, PWD, Electrical , CSR 2013-14,P-136, I-8-6-7
4	Design,Supplying and erecting Porcelain Post type insulator suitable for 22 kV line,complete as per specification	3	Nos.	1121	3363	GOM, PWD, Electrical , CSR 2013-14,P-136, I-8-6-13
5	Design,Supplying and erecting G.I . Stay set for poles , including loop insulators at inaccessible height complete with anchor plate 300x 300 x 6 mm, straining screws , G.I. stay wire 7/10 SWG. G.I. stay rod 20 mm x 1.8 m length and pole clamps duly erected in proded cement concrete foundation	2	Nos.	1393	2786	GOM, PWD, Electrical , CSR 2013-14,P-136, I-8-7-1
6	Design,Supplying and erecting Pole clamp made from 50x 10 mm MS flat for pole or post complete erected with 15 mm bolts and nuts, complete duly painted with one coat of red oxide and two coats of aluminium paint	12	Nos.	259	3108	GOM, PWD, Electrical , CSR 2013-14,P-137, I-8-7-11
7	Design,Supplying and erecting approved make 22 kV out door type gang operated air break, triple pole switch 200 A, capacity with 3 post pin type insulator per phase, mounted in horizontal or vertical position with necessary channels on provided cross arm with adequate length of "C" class G.I. pipe for operating handle erected on extended square	1	set	25521	25521	GOM, PWD, Electrical , CSR 2013-14,P-145, I-10-2-3

CONTRACTOR

NO. OF CORRECTIONS

EXECUTIVE ENGINEER



Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
	shaft. The operating handle provided with lock and key at suitable height from ground level with necessary clamp					
8	Design, Supplying and erecting approved make 22 kV out door type Drop Out Fuse with insulator complete with fuse holders, fuse barrel with metal fitting, fuse element mounted on M.S. channel with working current of 15 Amps capacity complete erected on provided cross arm	3	set	16541	49623	GOM, PWD, Electrical, CSR 2013-14, P-146, I-10-2-6
9	Design, Supplying and erecting extra thick alkathene pipe 10mm.dia erected to enclose bare conductor wires.	7	Mtrs	41	287	GOM, PWD, Electrical, CSR 2013-14, P-146, I-10-2-11
10	Design, Supplying and erecting hard drawn copper soil wire No; 0 to 6 SWG complete erected for connections on H.T. Sides	40	Kg	853	34120	GOM, PWD, Electrical, CSR 2013-14, P-146, I-10-2-10
11	Design, Supplying and erecting Distribution class, 22 kV thyrite type lightning arresters, on provided cross arm as per specification	3	Nos.	2063	6189	GOM, PWD, Electrical, CSR 2013-14, P-136, I-8-6-16
12	Supplying and erection Aluminum conductor, XLPE / PVC - 22 KV, 150 Sq.mm armoured cable complete erected in approved trench or on tray or to be buried in ground with layer of brick and sand as per direction of Engineer in Charge.	2000	RMT	2302	4604000	MJP Schedule, 2012 - 2013, P-69, CB-12-6
12.1	Supplying and erection of jointing kit for 22 KV, 150 Sq.mm XLPE cable.					
	a) Outdoor Type	3	Nos.	17523	52569	MJP Schedule, 2012 - 2013, P-69, CB-29-3
	b) Straight Through Type	6	Nos.	36776	220656	MJP Schedule, 2012 - 2013, P-69, CB-30-4
13	Design, Supplying and erecting Pipe type Earthing with 40 mm .dia .G.I pipe complete with all materials as per specification	3	Nos.	1536	4608	GOM, PWD, Electrical, CSR 2013-14, P-139, I-9-1-4
14	Design, Supplying and erecting	4	Nos.	3270	13080	GOM, PWD,

CONTRACTOR

NO. OF CORRECTIONS

EXECUTIVE ENGINEER



S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
	cement concrete foundation including excavation for the poles 60cm x 60cm x x deep 1/6 of pole length in 1:3:6 cement concrete (20 x 25 mm stone metel) and 45 cm x 45 cm x 45 cm /45 dia x 45 cm. height plinth duly plastered and with necessary curing and finishing in an approved manner					Electrical , CSR 2013-14,P-194, I-16-3-3
15	Design,Supplying and laying of ISI standard R.C.C , 150mm,2 m length	50	RM	2,668	133,400	MJP Schedule,Civil- DSR 2012 - 2013,P-92, CB 12-8
B	SUB STATION and Pumping Station					
16	Design,Supplying and Erecting approved make 500 kVA, 3phase, 50 C/S Oil immersed and naturally cooled outdoor type, copper wound transformer with delta connection on HV side & star connection on LV side (Dyn11) with additional neutral brought out on load side, voltage rating 11/0.433kV with off load tap changer -12.5% to +2.5% in steps of 2.5% and other fittings as per (IS 2026) specification.	2	No.	699,749	1,399,498	MJP Schedule,Civil- DSR 2012 - 2013,P-32, TR-2-10
17	Design,Supplying ,erection,testing and commissioning of 22 kV Switchgear panelconsisting, a) SF6 CB/VCB ,630A,16kA/3Sec - 1 no, b) Load Break Switch ,630 A,16kA - 2 no's with air insulated aluminium PVC sleeving Bus bars, bottom entry incoming and outgoing cables (Incomer-2No's+Outgoing-1 no's),including protection relays and metering with C.T as per single line diagram and specifications	1	No.	1,923,273	1,923,273	GOM, PWD, Electrical , CSR 2013-14,P-91, I-6-4-3,I - 5-9-9
18	Design,Supplying, erecting, testing, commissioning 22kV H.T metering cubical (Compact Type)approved by MSEDCL/ Licensee fabricated with 2mm.(14SWG) M.S.sheets with supporting angle and channel, painted with powder coating/expoxy paint of required shade copper bus bar size 25x6mm electronic security lock and heavy duty mechanical lock , with counter meter for measuring	1	No.	172,630	172,630	GOM, PWD, Electrical , CSR 2013-14,P-102, I-6-4-3



S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
	no of times the opening of doors, top side cover(C.T,P.T Cover) interlock with meter doors, epoxy coated 3nos C.T having required ratio 25/5A burden 10VA class 0.5 I.L 12/28/75 kVP epoxy terminal block suitable for provided trivector meter and provision for incoming and outgoing cables etc complete duly tested by licensee with necessary test certificates and erected on provided plinth / C.C foundation(including trivector meter)					
19	Supply, Erection, Testing and Commissioning of 22 kV H.T Switchgear Panel, 630 Amp, 25 KA indoor VCB with CT,PT and protection relay for O/C, S/C, E/F and transformer protection relay (OTI,WTI and Bucholz) complete with 1 I/C and 2 O/G feeder for transformers as per specification.	1	No.	2,726,400	2,726,400	RA
20	Design,Supplying and laying of earthed armoured, aluminium conductor XLPE power cable of 22 kV grade conforming to IS 7098(Part II) amended upto date as per the following size 3C x 150 Sqmm	80	RM	2,302	184,160	MJP Schedule, 2012 - 2013,P-69, CB-12-6
	H.T Cable Termination (Outdoor)					
21	Design,Providing and erecting Heat shrinkable Out door termination Kit for 3Cx150,sqmmm,22kV XLPE HT cable as per specifications.	2	Nos.	17,523	35,046	MJP Schedule, 2012 - 2013,P-75, CB 29-3
	H.T Cable Termination (Indoor)					
22	Design,Providing and erecting Heat shrinkable Out door termination Kit for 3Cx150,sqmmm,22kV XLPE HT cable as per specifications.	5	Nos.	12,024	60,120	MJP Schedule, 2012 - 2013,P-75, CB 28-3
23	Sub-Station and Pumping Station Earthing and lightning					
23.1	Design,Supplying and erecting Pipe type Earthing with 40 mm .dia ,G.I pipe complete with all materials as per specification	10	Nos.	1536	15360	GOM, PWD, Electrical , CSR 2013-14,P-139, I-9-1-4
23.2	Design,Supplying and erecting Copper earth plate type Earthing with with all materials as per specification	8	Nos.	7440	59520	GOM, PWD, Electrical , CSR 2013-14,P-139,



Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
						I-9-1-5
23.3	Design,Supplying and erecting Copper strip (for Transformer Neutral Earthing) of required size used for earthing on wall and / or any purpose with necessary copper clamps fixed on wall joints required as per specification	100	Kg	865	86500	GOM, PWD, Electrical , CSR 2013-14,P-140, I-9-2-2
23.4	Design,Supplying and erecting G.I strip of required size used for earthing on wall and / or any purpose with necessary copper clamps fixed on wall joints required as per specification	800	Kg	158	126400	GOM, PWD, Electrical , CSR 2013-14,P-140, I-9-2-3
23.5	Design,Conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge 40mm dia copper pipe of standard length with 5nos.copper spikes fixed on copper ball as air terminals duly threaded in copper pipe erected on provided foundation in an approved manner.	2	Each	4370	8740	GOM, PWD, Electrical , CSR 2013-14,P-140, I-9-3-3
23.6	Design,Supplying and erecting G.I earth wire of high purity of different size used for earthing or any other purposes on wall with necessary G.I. clamps fixed on wall / cable/ conduit with screws in an approved manner.	50	kg	152	7,600	GOM, PWD, Electrical , CSR 2013-14,P-140, I-9-2-5
24	BUS Duct ,1.1kV, 1600 A, 50 Hz, 4 Wire	15	RMT	901,752	901,752	RA
25	Cabling :-Supply and erection , XLPE insulated armoured cable 1100 grade with ISI mark three and half core, standard aluminum conductor with 6mm thick 25 mm width MS spacer with GI earth wire 6 sq.mm, complete erected with 25 X 3 mm MS clamps in an approved manner.					
25.1	3.5 Core 400 Sq.mm (AYFY)	200	RMT	2,665	533,000	MJP Schedule, 2012 - 2013,P-65, CB 5-11
25.2	3.5 Core 240 Sq.mm (AYFY)	50	RMT	1,753	87,650	MJP Schedule, 2012 - 2013,P-65, CB 5-9
25.3	3.5 Core 185 Sq.mm (AYFY)	300	RMT	1,293	387,900	MJP Schedule, 2012 - 2013,P-65,

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S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
						CB 5-8
25.4	3 C X 16 Sq.mm (AYFY)	300	RMT	214	64,200	MJP Schedule, 2012 - 2013, P-64, CB 4-5
25.5	3 C X 4 Sq.mm (AYFY)	1650	RMT	129	212,850	MJP Schedule, 2012 - 2013, P-64, CB 4-2
25.6	4 C X 6 Sq.mm (AYFY)	350	RMT	176	61,600	MJP Schedule, 2012 - 2013, P-66, CB 6-2
25.6	3C X 2.5 Sq.mm (YWY)	500	RMT	198	99,000	MJP Schedule, 2012 - 2013, P-66, CB 7-2-2
25.7	3C X 4 Sq.mm (YWY)	500	RMT	242	121,000	GOM, PWD, Electrical, CSR 2013-14, P-111, I-7-2-6
25.8	5 C X 2.5 Sq.mm (YWY)	300	RMT	270	81,000	MJP Schedule, 2012 - 2013, P-66, CB 7-2-4
25.9	2 C X 2.5 Sq.mm (YWY)	400	RMT	175	70,000	MJP Schedule, 2012 - 2013, P-66, CB 7-2-1
26	Supply and erection of lugs and Double compression gland for PVC / XLPE cable termination at both end.					
26.1	3.5 Core 400 Sq.mm (AYFY)	6	Nos.	2,542	15,252	GOM, PWD, Electrical, CSR 2013-14, P-114, I-7-4-13
26.2	3.5 Core 240 Sq.mm (AYFY)	4	Nos.	2,059	8,236	GOM, PWD, Electrical, CSR 2013-14, P-114, I-7-4-11
26.3	3.5 Core 185 Sq.mm (AYFY)	12	Nos.	1,379	16,548	GOM, PWD, Electrical, CSR 2013-14, P-114, I-7-4-9
26.4	3 C X 4 Sq.mm (AYFY)	100	Nos.	1,130	113,000	GOM, PWD, Electrical,



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S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
						CSR 2013-14,P-114, I-7-4-8
26.5	4 C X 6 Sq.mm (AYFY)	30	Nos.	1,130	33,900	GOM, PWD, Electrical , CSR 2013-14,P-114, I-7-4-9
26.6	3C X 2.5 Sq.mm (YWY)	20	Nos.	1,130	22,600	GOM, PWD, Electrical , CSR 2013-14,P-114, I-7-4-9
26.7	3C X 4 Sq.mm (YWY)	40	Nos.	1,130	45,200	GOM, PWD, Electrical , CSR 2013-14,P-114, I-7-4-9
26.8	5 C X 2.5 Sq.mm (YWY)	12	Nos.	1,130	13,560	GOM, PWD, Electrical , CSR 2013-14,P-114, I-7-4-10
26.9	2 C X 2.5 Sq.mm (YWY)	30	Nos.	1,130	33,900	GOM, PWD, Electrical , CSR 2013-14,P-114, I-7-4-11
27	Providing and fixing G.I perforated cable trays of size as below including fixing on provided angles as per specifications					
27.1	80x20mm	250	mtrs.	88	22,000	MJP Schedule,2012 - 2013,P-76, I-CB-34-1
27.2	200x20mm	250	mtrs.	172	43,000	MJP Schedule,2012 - 2013,P-76, I-CB 34-2
27.3	400x20mm	250	mtrs.	330	82,500	MJP Schedule,2012 - 2013,P-76, I-CB 34-3
27.4	Providing and fixing the support Structure for cable tray as per specifications	800	kg	46	36,800	MJP Schedule (Civil),2012 - 2013, P-8,I-21
	Point Wiring					
28	Design,supplying and erecting point wiring for light/fan/bell in 20 mm metal conduit with 1.5 sq .mm FR grade copper wire 10 meters average length with flush type switch and required accessories as per specification	40	Nos.	888	35,520	GOM, PWD, Electrical , CSR 2013-14,P-27, I-1-9-1
29	Design,supplying and erecting	8	Nos.	683	5,464	GOM, PWD,

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S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
	point wiring for single Phase independent 5/15A plug in 20 mm metal conduit with 1.5 sq .mm FR grade copper wire 6 meters average length with flush type switch and required accessories as per specification					Electrical , CSR 2013-14,P-27, I-1-9-3
30	Design,supplying and erecting point wiring for single phase Exhaust fan in 20 mm metal conduit with 1.5 sq .mm FR grade copper wire 10 meters average length with flush type switch and required accessories as per specification	12	Nos.	888	10,656	GOM, PWD, Electrical , CSR 2013-14,P-27, I-1-9-3
31	Design,supplying & erecting mains with 2cx4 sq.mm F.R copper wire , in 16 gauge 20 mm dia. Rigid steel conduit, with continuous GI earth wire of 2.5 sq.mm as per specification	150	RM	59	8,850	GOM, PWD, Electrical , CSR 2013-14,P-16, I-1-4-2
	Indoor Lighting					
32	Design,Supplying and erecting approved make 2 x 36 /40 W with white stove enamelled / powder coated industrial type flou.fitting with one 40W VPIT copper ballast and lamps fixed at ceiling or on wall as per specification	25	Nos.	1,142	28,550	GOM, PWD, Electrical , CSR 2013-14,P-46, I-2-4-13,P-39, I-2-1-10
33	Design,Supplying and erecting approved make plain pendent type bakelite lamp holder complete erected at position with necessary length of twinflexible wire (upto 1 m) with 11 W lamp.	8	Nos.	176	1,408	GOM, PWD, Electrical , CSR 2013-14,P-40, I-2-41-21 & P-43, I-2-3-4
	Outdoor Lighting					
34	Design,Supplying and erecting steel tubular swaged pole 165.1 x 139.7 x 114.3 mm .dia with 4.5 x 4.5 x 3.65 mm thickness (5 + 2 + 2.5 m) length respectively and total 10 m long with pole cap , base plate in provided foundation (weight 147 kg) as per specification	7	Nos.	12,659	88,613	GOM, PWD, Electrical , CSR 2013-14,P-125, I-8-1-3
34.1	Design,Supplying and erecting cement concrete foundation including excavation for the poles 60cm x 60cm x x deep 1/6 of pole length in 1:3:6 cement concrete (20 x 25 mm stone metel) and 45 cm x 45 cm x 45 cm /45 dia x 45 cm. height plinth duly plastered and with necessary curing and finishing in	7	Nos.	3270	22890	GOM, PWD, Electrical , CSR 2013-14,P-194, I-16-3-3

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Volume III: Price Schedule

S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
	an approved manner					
34.2	Design,Supplying and erecting street light fitting suitable for 150 W H.P.S.V lamp with accessories and lamp on provided bracket as per specification	7	Nos.	3,215	22,505	GOM, PWD, Electrical , CSR 2013-14,P-54, I-2-8-14,P-40, I-2-1-37
34.3	Design,Supplying and erecting street light bracket made from 25mm.dia 'B' class G.I. pipe ,0.6m. In length along with pole cap of 300 mm length and 80 mm dia duly welded with provided leads as per specification	7	Nos.	442	3,094	GOM, PWD, Electrical , CSR 2013-14,P-50, I-2-6-1
35	Design,Supplying and erecting flood light luminaries suitable for 150 W, H.P.S.V lamp complete with accessories with lamp on provided bracket as per specification	2	Nos.	6,012	12,024	GOM, PWD, Electrical , CSR 2013-14,P-55, I-2-8-22,P-40, I-2-1-37
	Ventilation System:					
36	Design,Supplying and erecting Exhaust fan heavy duty 230V,AC,50Hz,375 mm, 900RPM complete erected in position as per specification	12	Nos	3,405	40,860	GOM, PWD, Electrical , CSR 2013-14,P-61, I-2-13-17
37	Design,Supplying and erecting fresh air cum exhaust fan of light duty 250 V, A.C. 50 cycles 300mm. 1400 rPM rust proof body & blades , wire mesh , duly erected in an approved manner and marking Sr.no and date of erection	2	Nos	1,343	2,686	GOM, PWD, Electrical , CSR 2013-14,P-61, I-2-13-14
38	Design,Supplying and erecting regular / standard model ceiling fan of 1400 mm, sweep complete erected in position as per specification	4	Nos	1,794	7,176	GOM, PWD, Electrical , CSR 2013-14,P-60, I-2-13-3
39	Design,Supplying and erecting Split type room Airconditioning unit 1 TR 5 star capacity 230/250 V, 50 cycles , A.C. supply having 1 No of air handling unit hi wall mounting type complete at position as per specification	2	Nos	70,488	140,976	GOM, PWD, Electrical , CSR 2013-14,P-64, I-3-2-7
	Main LT Panel					
40	Main Electrical Panel shall be complete with DOL starter feeders for Screens, power feeders for pump control panels to be supplied by pump vendors and power feeders for utilities & EOT	1	No.	1,936,379	1,936,379	Attachment-1
43	Design,Supplying and erecting 260 kVAr, 440 V, Three phase	1	No.	536,120	278,400	GOM, PWD, Electrical ,

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S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
	,50 cycles, Thyristor switched Microprocessor controlled, APFC Passive Filter Panel, consisting of steps of APP type capacitor units confirming to IS 13585 with harmonic filter reactors , as per specifications					CSR 2013-14,P-105 I-6-7-12
44	Indoor/ Outdoor Lighting , Ventilation and Power Distribution DB:- Design,Supplying and erecting triple pole and neutral distribution board (TPNDDB) with door surface / flush mounted SPMCB of 12 ways , on iron fram / wooden board (Horizontal type) as per specification	3	Nos.	24,947	74,841	GOM, PWD, Electrical , CSR 2013-14,P-84, I-5-4-7
	a)63A,TPN ,MCB for Incoming-1No					GOM, PWD, Electrical , CSR 2013-14,P-82, I-5-3-15
	b)10A,SPN ,MCB for outgoing-8Nos					GOM, PWD, Electrical , CSR 2013-14,P-82, I-5-5-3-11
	c)32A,TPN,MCB for outgoing -4Nos					GOM, PWD, Electrical , CSR 2013-14,P-82, I-5-3-10
45	Miscellaneous Items:-					
45.1	Design,Supplying and erecting, D.C.P type fire extinguisher 5 kg capacity cartridge type with gun metal cap 150 gram CO2 gas cartridge, powder and brackets conforming to IS 2171-1985 and complete erected with necessary clamps made from 50 x 6 mm M.S. flat with nuts & bolts grouted in wall complete	2	Nos.	3,040	6,080	GOM, PWD, Electrical , CSR 2013-14,P-148, I-10-2-34
45.2	Providing printed instruction chart for treating persons suffering from electric shock , printed in English & marathi and duly laminated.	2	Nos.	112	224	GOM, PWD, Electrical , CSR 2013-14,P-147, I-10-2-22
45.3	Supplying standard first aid box with necessary antiseptic cream, medicine for use on wounds due burn, crepe bandage ,gauge bandage,medicated ready to use bandage (Band-aid) adhesive tape for medicinal use,scissors,anti-septic solution (Savion or similar) etc.	1	Nos.	695	695	GOM, PWD, Electrical , CSR 2013-14,P-147, I-10-2-27

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S. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total (RS)	Referred From
45.4	Providing floor mounting stand for keeping 4 no's of FIRE buckets 1500mm in length, 900mm in height frame made out of 30x30x4 mm, angle iron with cross supports for legs, welded with 4 hook and duly painted with one coat of red lead and two coats of silver paint with providing round bottom FIRE Bucket of 9 litres capacity as per IS: 2536 made out of 24 gauge G.I sheet with extra handle at bottom duly painted white inside and red outside with FIRE Mark, on provided stand / Wall hook	1	Nos.	5,520	5,520	GOM, PWD, Electrical, CSR 2013-14, P-147, I-10-2-24 & 25
45.5	Rubber hand Gloves as per IS 340715 suitable for working on 22 KV supply	1	Set	565	565	GOM, PWD, Electrical, CSR 2013-14, P-147, I-10-2-23
45.6	Supplying and fixing PVC Synthetic elastomer electrically insulated mat with class C insulation conforming IS: 15652-2006 having 3.00 mm thickness upto 22 kV	6	RMT	6,332	37,992	GOM, PWD, Electrical, CSR 2013-14, P-148, I-10-2-32
45.7	Supplying and fixing PVC Synthetic elastomer electrically insulated mat with class A insulation conforming IS: 15652-2006 having 2.00 mm thickness upto 3.3 kV	10	RMT	4,022	40,220	GOM, PWD, Electrical, CSR 2013-14, P-147, I-10-2-30
46	Supplying and erecting three phase, 32A, 415V, industrial Power plug with socket, switches (4-pole MCB) and Earth leakage Circuit Breaker (ELCB)	3	No	4,974	14,922	RA
47	Supplying and erecting three phase, 20A, 415V, Power plug with socket, switches (2-pole MCB)	3	No	1,026	3,078	RA
48	Push Button station : Providing erecting shrouded / Unshrouded push button actuator with box	23	Nos.	1,146	26,358	RA
49	750 kVA DG set with AMF Panel	1	No.	6,026,400	6,026,400	RA
Total Cost in Rs					2,39,62,492	
In Cr.Rs					2.39	



2.4 INSTRUMENTATION COST ESTIMATES FOR KPS 4

Sr. No	Item Description	Unit	Qty.	Rate	Amount	Remarks
1	Pressure Gauge	Nos.	7	1226	8582	MJP_SOR_12-13_Item No. PM 11- 3, Pg. No. 9
2	Level Transmitter (Ultrasonic) with indicator	Nos.	1	72755	72755	Rate Analysis
3	Differential Level Transmitter	Nos.	2	42742	85483	Rate Analysis
4	Electromagnetic Flowmeter, 900 mm	Nos.	1	838682	838682	MJP_SOR_12-13_Item No. 4 (O), Pg. No. 103
5	PLC based control system with associated DI,DO, AI modules, alarmnannunciation and UPS along with battery	LS	1	2406751	2406751	Rate Analysis
6	SITC of instrumentation, control, communication cable	LS	1	1887648	1887648	Rate Analysis
7	Furniture	LS	1	70000	70000	Approximate
TOTAL in Rs.					53,69,902	
TOTAL in Crore					0.54	



3.1 CIVIL COST ESTIMATES FOR KHARIGAON STP

It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
1	Pilling- (PWD/SR 2012-2013 / Page no. 9,11 & 12(Item 2,4 &8) / BdL-5 Pg No 368				
a	500 Dia End bearing cast-in-situ pile in M25 grade concrete with socketing of 3 to 5 times of pile diameter inside hard rock based on the quality of rock	2,760	1,870	RMT	51,61,200.00
b	Chipping and dressing of the RCC pile upto .6 m including cleaning reinforcement and removal of dismantled material.... Etc complete	138	118.6	RMT	16,366.8
C	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position above 400 mm to 550mm dia. As per IS code or stanerd specification...etc.	20	42,846	nos.	8,56,920
2	Excavation				
a	0 to 1.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-1/259)(Item 1)	1329.68	147.4	cum.	1,95,994.832
b	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-1/259)(Item 1 & 4)		161.7		0
	Excavation for foundation in hard murum etc. complete.				
a	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-2/259)(Item 2 & 4)		185.9	cum.	0
b	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-2/259)(Item 2 & 4)		217.8		0
3	Excavation for foundation in hard murum,boulder & WB.M...etc complete.				
c	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-3/259)(Item 3 & 4)		221.1	cum.	0
d	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-3/259)(Item 3 & 4)		235.4	cum.	0
4	Excavation for foundation in soft rock &old cement,masonry,asphalt ..etc complete.				
a	0 to 1.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5)		487.3	cum.	0
b	1.5 to 3 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)		509.3	cum.	0
c	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)		531.3	cum.	0
d	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-4/259) (Item 5 & 11)		553.3	cum.	0



It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
5	Excavation for foundation in hard rock...etc complete.				
a	0 to 1.5		896.5	cum.	0
b	1.5 to 3.0		918.5	cum.	0
c	3 to 4.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		940.5	cum.	0
d	4.5 to 6 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		962.5	cum.	0
e	6 to 7.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		984.5	cum.	0
f	7.5 to 9 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		1,006.5	cum.	0
g	9 to 10.5 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		1,028.5	cum.	0
h	10.5 to 12 m (MJP/SR 2012-2013 / Page no. 33 (BD-A-6/259) (Item 8 & 11)		1,050.5	cum.	0
6	Providing dry trap/rubble soling 15 cm to 20 cm thick including hand packing & compacting etc complete.				
	(PWD DSR 2012-2013 it no.5 page no.8	735.5391786	819	cum.	6,02,406.59
7	Refilling the trenches with available excavated material etc completed				
	(MJP /SR 2012-2013 Page no.37) item no.17	6,372.6	66	cum.	4,20,591.6
8	Dewatering				
	(MJP /SR 2012-2013 Page no. 36)(BD-A-9/261)	10,000	66	HP/hr	6,60,000
9	Tranportation				
a	Cartng away the excavated material for a lead beyond 1 km (MJP /SR 2012-2013 Page no. 21)		186.19	cum.	0
b	Cartng away the excavated material for a lead beyond 3 km (MJP /SR 2012-2013 Page no. 21)		239.01	cum.	0
c	Cartng away the excavated material for a lead beyond 5 km (MJP /SR 2012-2013 Page no. 21)		289.01	cum.	0
d	Cartng away the excavated material for a lead beyond 10 km (MJP /SR 2012-2013 Page no. 21)		407.85	cum.	0
10	PCC (M 15)				
	Providing & laying in situ following grades of CC of trap/granite/quartzite/gnesis metal for foundation & bedding including normal dewatering ,form work				0



It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
	,compaction,finishing & curing etc complete.				
	(MJP /SR 2012-2013 Page no. 41)(Item No : 1/b)	612.0774643	5,364.5	cum.	32,83,489.56
11	RCC (M 20)				
	Providing & laying in situ Ready Mix Concrete grade of trap/granite/quartzite/gneiss metal for RCC work in foundation like raft ,grillage,strip foundation & footing of RCC column including normal dewatering ,form work ,compaction,finishing & curing including transporation from mixing plant up to distance of 25 km pouring the concrete at work site for 1.5 m above G.L & 5.0 m lift below G.L. C.C. M20 etc. complete.				
	(PWD DSR 2012-2013 it no.4 page no.18		7,065.3	cum	0
12	RCC (M-25)				
	Providing & laying in situ Ready Mix Concrete grade of trap/granite/quartzite/gneiss metal for RCC work in foundation like raft ,grillage,strip foundation & footing of RCC column including normal dewatering ,form work ,compaction,finishing & curing including transporation from mixing plant up to distance of 25 km pouring the concrete at work site for 1.5 m above G.L & 5.0 m lift below G.L. C.C. M25 etc. complete.				0
a	(MJP /SR 2012-2013 Page no. 42)(Item No : 2/c)	1891.288786	7,386.5	cum.	1,39,70,004.62
	Providing & laying in situ Ready Mix Concrete grade of trap/granite/quartzite/gneiss metal of approved quality for RCC work as per detailed drawings & designs or as directed by Engineer-in - Charge including normal dewatering ,form work ,compaction,finishing the formed surfaces with CM 1:3 of sufficient minimum thickness & even surface wherever necessary or roughening if special finish is to be provided & curing including transporation from mixing plant up to distance of 25 km pouring the concrete at work site for 1.5 m above G.L & 5.0 m lift below G.L. C.C. M25 etc. complete.				0



It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
b	a) columns (MJP /SR 2012-2013 Page no. 42)(Item No : 3/b)	64.4885	9,033.2		5,82,537.52
c	b) Beams/Braces/Lintels(MJP /SR 2012-2013 Page no. 43)(Item No : 4/b)	185.91	9,001.3		16,73,431.68
d	c) Slabs/Landings/Vertical walls/Waist Slab/Steps for staircase.(MJP /SR 2012-2013 Page no. 43)(Item No : 5/b)	1583.0426	9,441.3		1,49,45,980.1
e	d) Chajjas/Parapets/Pardis/Curtain walls/Partion walls (MJP /SR 2012-2013 Page no. 44)(Item No : 6/b)	30	9,698.7		2,90,961
13	Reinforcement				0
a)	Providing & fixing in position reinforcement of various diameters for RCC pile ,footings ,columns,Slabs etc complete				0
	TOR steel (MJP /SR 2012-2013 Bd-F-17/306 page no. 45, item no.8)	613.2765079	64,686.6	MT	3,96,70,772.15
b)	Providing fusion bonded epoxy coating to reinforcement bar as per IS 13620-993 specification for a thk of 175+- 50 microns Etc complete				0
	(MJP /SR 2012-2013, page no. 46, item no.9)	613.2765079	14,706	MT	90,18,844.32
14	Brick Work				
	Providing second class Burnt Brick Masonry with conventional /I.S. type bricks in cement mortar 1 : 6 in superstructure , including striking joints,raking out joints ,watering & scaffolding etc complete.				
	(PWD DSR 2012-2013 it no.1 page no.24)	316.848	4,419.3	cum	14,00,246.37
15	Plastering				
a)	Providing cement plaster 25 mm thick in two coats , in cement mortar 1:4 without neeru finish to concrete,brick or stone surface in all positions including raking out joints ,scaffolding & curing etc. complete.				
	(PWD DSR 2012-2013 it no.5 page no.37)	766	268.5	sqm	2,05,671
b)	Providing sand face cement plaster externally in two coats using approved screened sand in all positions including providing base coat of 15 mm thk in cement mortar 1 : 4 mixing approved water proofing compound at the rate of 1kg/50 kg of cement & curing the saame for not less than two days & keeping the				



It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
	surface base coat rough to receive the sand faced treatment of 8 mm thk in cement mortar 1:4 & finishing the surface by taking out grains & curing for 14 days including preparing the surface & scaffolding etc complete.				
	(PWD DSR 2012-2013 it no.6 page no.37)	2202.6	352.7	sqm	7,76,857.02
16	Water Proofing				
a	Providing and laying water proofing treatment of 112 mm average thickness consisting of 120 mm thick layer in cement mortar 1:3 with water proofing compound at the rate of one kilograme per bag of cement as base , constructing and laying brick bat coba in cement mortar 1:5, with water proofing compound at the rate of 1kg per bag of cement and having average thickness of 80 mm and finishing with 20 mm cement plaster layer in cement mortar 1:3 with approved water proofing compound at the rate of 1kg/cement bag, including all leads, lifts and laid to proper slope to drain of water entirely including watta at the junction of para pet and work up to height of 30 cms or as directed and, including finishing the top layer of water proofing treatment with false marking of 30x 30 cms or as directed and covering whole treatment with 7 years guarantee, on requisite stamp paper etc. complete				
	(PWD/SR 2012-2013 / Page no.30 (Item 5)	116	947	sqm	1,09,852
b	Providing water proof bedding of W.C & Bath 25 mm thk in CM 1:3 using 1 kg of approved water proofing compound of IS std per 50 kg of cement including levelling ,curing etc complete.				
	(PWD/SR 2012-2013 / Page no. 31 (Item 9)	5.52	2,356.2	cum	13,006.22
17	Doors				
	Providing & fixing anodized aluminium fully glazed door including door frame with powder coating, 5mm thick sheet ,necessarry fixture Etc complete.	25.2	3,796.8	sqm	95,679.36
18	Windows				
A	Suppling & fixing in position anodized	46.08	2,789.85	sqm	1,28,556.29



Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
	extruded modular aluminium section two track sliding windows Etc complete				
B	Suppling & fixing in position anodized extruded modular aluminium section three track sliding windows Etc complete				
C	Providing and fixing in position aluminium louvered window/ventilator with powder coatingetc complete				
	(PWD/SR 2012-2013 / Page no.79 (Item 35)	1.8	1,893.15	sqm	3,407.67
19	Rolling Shutter				
	Providing & fixing rolling shutter fabricated from 18/19 gauges steel with side guides , bottomrail,brackets including rolling springs ,locking arrangement & housing box at the top with one coat of red lead primer etc complete.				
	(PWD/SR 2012-2013 / Page no. 78 (Item 29)	12	2,144.1	sqm	25,729.2
20	Providing & fixing GI pipe Hand Railing having 1 m height..... Etc complete.				
	(MJP /SR 2012-2013, page no. 52, item no.1)	704.904	1,019.7	Rmt	7,18,790.61
21	Structural work				
	Providing structural steel work in single steel stanchions composed of RSJ ,channel etc with caps,bases,mild steel plates.....etc complete.				0
	(MJP /SR 2012-2013, page no. 39, item no.3)	4	67,643.4	M ton	2,70,573.6
22	Flooring				0
a	Providing & laying in position polished kota stone flooring Etc complete 55 cmx55 cm				0
	(PWD/SR 2012-2013 / Page no.42 (Item 5)	252	938.1	sqm	2,36,401.2
b	Providing & laying ceramic tiles of IS std & approved quality 30x30 cm size for flooring etc complete				
	(PWD/SR 2012-2013 / Page no.44 (Item 14)		1078		0
c	Providing & laying coloured glazed tiles for flooringsize 300x200 mm				0
	(PWD/SR 2012-2013 / Page no.43 (Item 11)	24	938.1		22,514.4
d	Providing & laying coloured glazed tiles				

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NO. OF CORRECTIONS

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Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
	for dadosize 300x200 mm				
	(PWD/SR 2012-2013 / Page no.43 (Item 12)	96	938.1	sqm	90,057.6
e	Providing sills, and frames of polished kota stone 25 to 30 mm thick on bed of cement mortar 1:4etc.				
	(PWD/SR 2012-2013 / Page no.49 (Item 28)	47.748	904.5	sqm	43,188.1
f	Providing and laying precast polished chequered colour cement tiles of size 20x32x20 etc complete				0
	(PWS DSR 2012-2013 it no.27 page no.48		524.4	sqm	0
					0
23	Painting				0
a	Providing & applying two coats of epoxy paint of approved make (Shalimar,Ciba,M& M) to concrete surfaces..... Etc complete.				
	(MJP/SR 2012-2013 / Page no. 295 (Item 6/b)	2698.146	628.1	sqm	16,94,705.50
b	Providing & applying two coats of water proof cement paint of approved manufacture and colour to the plastered surface,including scaffolding,preparing the surfaceetc complete.				
	(PWD/SR 2012-2013 / Page no. 55 (Item 8/a)	2926.686	35.7	sqm	1,04,482.7
c	Providing & applying one priming coat of approved quality on concrete/masonry/plastered surfaces including scaffolding if necessary.....etc complete				
	(PWD/SR 2012-2013 / Page no. 56 (Item 12)	2926.686	17.85	sqm	52,241.3
d	Providing & applying two coats of oil bound distemper				
	(PWD/SR 2012-2013 / Page no. 57 (Item 4/a)	674	32.55	sqm	21,938.7
e	Providing & applying synthetic enamel paint of approved colour & quality to structural steel work Etc complete				
	(PWD/SR 2012-2013 / Page no. 55 (Item 5/a)	75	54.6	sqm	4,095
f	Providing & applying one priming coat of approved quality over steel & other metal surfaces.....etc complete				
	(PWD/SR 2012-2013 / Page no. 56 (Item 10)	75	16.8	sqm	1,260
24	Road Restoration				
a	Compaction of excavated part by				

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It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
	vibratory roller				
	(PWD/SR 2012-2013 / Page no. 137 (Item 22)	570	16.8	sqm	9,576
b	Providing and constructing WBM road in layers of 75/100mm completed thickness, preparation of subgrade etc. complete.				
	(PWD DSR 2012-2013, Pg No 223, (Item No 3 (a/i)	171	1,258.7	cum	2,15,237.7
	WBM Grade II metal				0
c	Providing and laying hotmix hot laid bituminous macadam 50/75mm avg. thickness with 3.3% bitumen etc.				0
	(PWD DSR 2012-2013, Pg No 145, (Item No 61 (A)	42.75	5,385.3	cum	2,30,221.6
d	Providing and laying tack coat by using bulk bitumen by 60/70 grade on WBM surface etc. complete.				
	(PWD DSR 2012-2013 item No.59 (a) page no. 144)	570	59.9	sqm	34,143
e	Providing and laying tack coat by using bulk bitumen by 60/70 grade on BM surface etc. complete.				
	(PWD DSR 2012-2013 item No.59 (b) page no. 144)	570	32	sqm	18,240
f	Providing, laying & Compacting 25 mm thk. Premix bituminous carpet of 30/40 grade of bitumen including etc. complete.				
	(PWS DSR 2012-2013 it no.42,43,44 (i) page no.141	570	191	sqm	1,08,870
25	Sanitary & Plumbing				
a	Providing and laying in trenches 15mm dia of approved GI pipe embossed at every metre the ISI mark and name of manufacturer, having 21.32mm outer dia with screwed sockets, joints, and necessary galvanized iron fittings such as backnuts, elbows, bends, tees, plugs, etc including providing and applying two coats of oil paint with one coat of primer and necessary excavation and backfilling etc complete. (Heavy Type)				
	(PWS DSR 2012-2013 it no.1 (B/a) page no.97)	50	207.9	RM	10,395
b	Providing and laying on walls 15mm dia of approved GI pipe embossed at every metre the ISI mark and name of manufacturer, having 21.32mm outer dia with screwed sockets, joints, etc complete. (Heavy Type)				
	(PWS DSR 2012-2013 it no.2 (B/a) page	20	221.55	RM	4,431



Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
	no.98				
c	Providing and fixing 15mm dia screw down bib/stop tap of brass of heavy type etc complete				
	(PWS DSR 2012-2013 it no.5 (a) page no.100	4	164.85	No	659.4
d	Providing and fixing 75mm dia UPVC iron rain water pipes etc complete				
	(PWS DSR 2012-2013 it no.39(b) page no.112	24	488.25	RM	11,718
e	Providing and fixing approved and tested water metre bearing ISI mark with non return valve including..... etc complete.	1	2,577.75	No	2,577.75
	(PWS DSR 2012-2013 it no.4(A / i) page no.100				
f	Providing,hoisting and fixing in position sintex or equivalent high density polythylene UV stabilized water storage tankwith necessary connections,etc complete				
	(PWS DSR 2012-2013 it no.59 page no.117	2000	8.4	Lit	16,800
g	Providing ISI standard Stoneware pipes				
	(MJP DSR 2012-2013 it no.1(ii) page no.91	15	183.7	RM	2,755.5
h	Lowering, Laying & Jointing stoneware pipe etc.				
	(MJP DSR 2012-2013 it no.2(ii) page no.91	15	115.5	RM	1,732.5
i	Chambers and Manholes 60 x 45 cm internal size and depth upto 0.9m with S.F.R.C frame and cover				
	(MJP DSR 2012-2013 it no.3(A) page no.284	2	7,502	No	15,004
j	Chambers and Manholes 90 x 60 cm internal size and depth upto 0.9m with S.F.R.C frame and cover(For Overflow Pipe)				
	(MJP DSR 2012-2013 it no.3(D) page no.284		14,611.3	No	0
k	Providing & fixing European type white glazed of (IS Std.) earthenware closet pan with Bekelite seat etc Complete				
	(PWS DSR 2012-2013 it no.20 page no.106	2	3,575.2	No	7,150.4
l	Providing & fixing 55x40cm earthenware wash hand basin etc complete				
	(PWS DSR 2012-2013 it no.27(A/b) page no.108	2	2,049.6	No	4,099.2
m	Providing & fixing 10cm dia uPVC Nahani Trap fixed with UPVC grating etc complete				

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It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
	(PWS DSR 2012-2013 it no.32 page no.110	2	386.4	No	772.8
26	Providing and erecting 1.5m high wire fencing with seven rows of barbed wire etc complete				
	(PWS DSR 2012-2013 it no.61 page no.129	275	549.15	RM	1,51,016.25
27	Providing & Laying				
a	Providing and fixing kerb stones in position				
	(PWS DSR 2012-2013 it no.1 page no.232	190	265.65	Rmt	50,473.5
b	Painting to kerb stones				
	(PWS DSR 2012-2013 it no.5 page no.244	190	89.25	Rmt	16,957.5
28 a	Providing of 1200mm dia RCC Pipes(NP3 Class)				0
	(MJP DSR 2012-2013 it no.vi/1/e page no.95	450	5,412.8	Rmt	24,35,760
b	Laying of 1200mm dia RCC Pipes(NP3 Class)				
	(MJP DSR 2012-2013 it no.vi/2 page no.97	450	367.4	Rmt	1,65,330
29	Constructing BB Masonary Manholeetc complete(7m depth approx)				
	(MJP DSR 2012-2013 it no.vi/2 page no.97	1	1,17,612		1,17,612
	Rebate		7286.4		0
30	Filling in plinth with approved material				
	(PWS DSR 2012-2013 it no.3 page no.7	4410	169	Cum	7,45,290
31	Providing and fixing M.S.Gate 2.5 m wide for compound with 40mm dia. G I pipe, approved grill work, RCC M-15 side pillers foundation, finishing painting etc complete.				
	(MJP DSR 2012-2013 it no.3 page no.52	1	30,056.4	no.	30,056.4
32	Providing and fixing M.S.wicket Gate 1 m wide for compound with 40mm dia. G I pipe, approved grill work, RCC M-15 side pillers foundation, finishing painting etc complete.				
	(MJP DSR 2012-2013 it no.4 page no.52	1	17,716	no	17,716



**Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD
at Kharigaon, Thane Phase II
Volume III: Price Schedule**

It. No.	Description	Quantity	Rate (Rs.)	Unit	Rate as per MJP/PWD DSR 2012-13 (Rs)
33	Rising Main				
a	Providing & Laying Rising main(DI K-9)1000 mm dia (PWS DSR 2012-2013 it no.1 page no.58 and 61		21,610.6	Rmt	
b	Lowering laying and jointing with rubber gasket (MJP DSR 2012-2013 it no.2 (viii) page no.61		1,128.6	Rmt	
34	Grouting				
	Sealing of cracks by injection process through nipples complete as per drawing and technical specifications with				
	Cement Grout (PWS DSR 2012-2013 it no.3 page no.247)	480	80.1	Kg	38,448
35	Land scaping, site cleaning, etc work	LS			1,00,000
36					
Total Cost in Rs.					10,19,31,798
Total Cost in Crores (Rs)					10.19



1.2: Cost estimates for Mechanical works – 46.76 Mld STP at Kharigaon

Sr No	Description	Qty	Size and description as per tender	Cost per unit including taxes and duties in Rs.	Total Cost in Rs.
1	Pumps				
1.1	Centrifuge feed pumps	3	25 m3/hr at 15 m	164894	494683
1.2	Filterate transfer pumps	2	60 m3/hr at 15 m	295488	590975
1.3	Dewatering pump	1	15 m3/hr at 20 m	173421	173421
1.4	Poly dosing pump	2	0-1200 LPH	231228	462456
2	Screens				
2.1	Fine screens	2	1.3 m x 1.5 m deep	1835371	3670743
2.2	Manual screen	1	1.3 m x 1.5 m deep	614199	614199
3	Flat belt conveyor				
		1	0.6 m x 6 m	505811	505811
4	Sluice gates				
		3	1.3 m x 1.3 m	722587	2167761
		3	1.3 m x 1.3 m	722587	2167761
		1	1.3 m x 1.3 m	722587	722587
		2	1.3 m x 1.3 m	722587	1445174
		2	1.3 m x 1.3 m	722587	1445174
		1	1.3 m x 1.3 m	722587	722587
		2	1.3 m x 1.3 m	722587	1445174
		1	1.3 m x 1.3 m	722587	722587
		1	1.3 m x 1.3 m	722587	722587
		1	1.3 m x 1.3 m	722587	722587
5	Mechanical Grit removal	1	7.6 m x 7.6 m x 0.8 m	1734209	1734209
6	Valves				
6.1	Butterfly valves	8	300 mm	33002	264016
		12	150 mm	13901	166812
6.2	Non Return Valves	6	350 mm	73602	441612
		2	100 mm	7575	15150
		3	80 mm	5518	16554
		3	50 mm	3997	11991
6.3	Knife Gate valves	6	200 mm	29414	176482
		11	150 mm	14452	158969
		7	100 mm	10847	75932
		4	80 mm	10116	40465



Sr No	Description	Qty	Size and description as per tender	Cost per unit including taxes and duties in Rs.	Total Cost in Rs.
6.4	Air valve	2	50 mm	11972	23944
6.5	Ball Valve	6	350 mm	79485	476908
		2	100 mm	28903	57807
		40	50 mm	11561	462456
		8	25 mm	10116	80930
6.6	Pressure Relief Valve	6	80 mm	17342	104053
		3	50 mm	14452	43355
7	EOT	1	2 T, Centrifuge house	618384	618384
		1	4 T Blower room	1003097	1003097
		1	1 T chain pulley block	13000	13000
		75	Square bar/Rail	1003	75225
		1875	Bar supports, kg	62	115594
8	Blowers	6	3500 cum/hr, 7 mwc	1206721	7240323
9	UV	1	Nos	31577637	31577637
10	Centrifuges	3	25 m3/hr	3179384	9538151
		1814	m3	19510	35390874
		784	m3	11561	9064133
13	Poly solution mixer	2	Unit	722587	1445174
14	Scraper Clari tubesettler	2	Unit	3034866	6069732
15	Piping considering specials	1	Unit	46174019	46174019
16	SS 316 screen for MBBR media retention	4	Unit	280983	1123931

Total Rs 17,25,97,188
Total in Cr Rs. 17.260



1.3: Cost Estimates for Electrical Works – 46.76 Mld STP at Kharigaon

Sr. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total Cost (Rs)
A	Power Connection				
1	Design,Supplying and erecting Rolled Steel Joist pole 100 x 116 x 10 mtr long (23 kg/m) with provided base plate in provided foundation as per specification	2	Nos.	17232	34464
2	Design,Supplying and erecting 100x 50 mm with 4.7 mm thik web and 7.5 mm thick flange channel iron cross arm of suitable length for 2.4m wide 2 Pole structure and erecting on 2 Pole with 50x6 mm clamp as per approved method of construction and complete as per specification	6	Nos.	2174	13044
3	Design,Supplying and erecting Porcelain disc type insulator suitable for 22 kV line,complete as per specification	3	Nos.	1483	4449
4	Design,Supplying and erecting Porcelain Post type insulator suitable for 22 kV line,complete as per specification	3	Nos.	1121	3363
5	Design,Supplying and erecting Porcelain Pin type insulator suitable for 11 kV line,complete as per specification	6	Nos.	741	4446
6	Design,Supplying and erecting G.I . Stay set for poles , including loop insulators at inaccessible height complete with anchor plate 300x 300 x 6 mm, straining screws , G.I. stay wire 7/10 SWG. G.I. stay rod 20 mm x 1.8 m length and pole clamps duly erected in proded cement concrete foundation	2	Nos.	1393	2786
7	Design,Supplying and erecting Pole clamp made from 50x 10 mm MS flat for pole or post complete erected with 15 mm bolts and nuts, complete duly painted with one coat of red oxide and two coats of aluminium paint	12	Nos.	259	3108
8	Design,Supplying and erecting approved make 22 kV out door type gang operated air break, triple pole switch 200 A, capacity with 3 post pin type insulator per phase, mounted in horizontal or vertical position with necessary channels on provided cross arm with adequate length of "C" class G.I. pipe for operating handle erected on extended square shaft.The operating handle provided with lock and key at suitable height from ground level with necessary clamp	1	set	25521	25521
9	Design,Supplying and erecting approved make 22 kV out door type Drop Out Fuse with insulator complete with fuse holders, fuse barrel with metel fitting, fuse element mounted on M.S. channel with working current of 15 Amps capacity complete erected on provided cross arm	1	set	16541	16541
10	Design,Supplying and erecting extra thick alkathene pipe 10mm.dia erected to enclose bare conductor wires.	7	Mtrs	41	287



Sr. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total Cost (Rs)
11	Design,Supplying and erecting hard drawn copper soil wire No; 0 to 6 SWG complete erected for connections on H.T. Sides	10	Kg	853	8530
12	Design,Supplying and erecting Distribution class, 22 kV thyrite type lightening arresters, on provided cross arm as per specification	3	Nos.	2063	6189
13	Supplying and erection Aluminum conductor, XLPE / PVC - 22 KV, 150 Sq.mm armoured cable complete erected in approved trench or on tray or to be buried in ground with layer of brick and sand as per direction of Engineer in Charge.	2000	RMT	2302	4604000
13.1	Supplying and erection of jointing kit for 22 KV,150 Sq.mm XLPE cable.				
	a) Outdoor Type	3	Nos.	17523	52569
	b) Straight Through Type	6	Nos.	36776	220656
14	Design,Supplying and erecting Pipe type Earthing with 40 mm .dia ,G.I pipe complete with all materials as per specification	3	Nos.	1536	4608
15	Design,Supplying and erecting cement concrete foundation including excavation for the poles 60cm x 60cm x x deep 1/6 of pole length in 1:3:6 cement concrete (20 x 25 mm stone metel) and 45 cm x 45 cm x 45 cm /45 dia x 45 cm. height plinth duly plastered and with necessary curing and finishing in an approved manner	2	Nos.	3270	6540
B	SUB STATION and Pumping Station				
16	Design,Supplying and Erecting approved make 750 kVA, 3phase, 50 C/S Oil immersed and naturally cooled outdoor type, copper wound transformer with delta connection on HV side & star connection on LV side (Dyn11) with additional neutral brought out on load side, voltage rating 11/0.433kV with off load tap changer -12.5% to +2.5% in steps of 2.5% and other fittings as per (IS 2026) specification.	2	No.	971,304	1,942,608
17	Design,Supplying ,erection,testing and commissioning of 22 kV RMU Switchgear panelconsisting, a) SF6 CB/VCB ,630A,16kA/3Sec -1 no, b) Load Break Switch ,630 A,16kA - 2 no's with air insulated aluminium PVC sleeving Bus bars, bottom entry incoming and outgoing cables (Incomer-2No's+Outgoing-1 no's),including protection relays and metering with C.T as per single line diagram and specifications	1	No.	1,923,273	1,923,273
18	Design,Supplying, erecting, testing, commissioning 22kV H.T metering cubical (Compact Type)approved by MSEDCL/ Licensee fabricated with 2mm.(14SWG) M.S.sheets with supporting angle and channel, painted with powder coating/expoxy paint of required shade copper bus bar size 25x6mm electronic security lock and heavy duty mechanical lock , with counter meter for measuring no of times the opening of doors, top	1	No.	172,630	172,630



Sr. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total Cost (Rs)
	side cover(C.T,P.T Cover) interlock with meter doors, epoxy coated 3nos C.T having required ratio 25/5A burden 10VA class 0.5 I.L 12/28/75 kVP epoxy terminal block suitable for provided trivector meter and provision for incoming and outgoing cables etc complete duly tested by licensee with necessary test certificates and erected on provided plinth / C.C foundation(including trivector meter)				
20	Supply, Erection, Testing and Commissioning of 22 kV H.T Switchgear Panel, 630 Amp, 25 KA indoor VCB with CT,PT and protection relay for O/C, S/C, E/F and transformer protection relay (OTI,WTI and Bucholz) complete with 1 I/C and 2 O/G feeder for transformers as per specification.	1	No.	2,726,400	2,726,400
21	Design,Supplying and laying of earthed armoured, aluminium conductor XLPE power cable of 22 kV grade confirming to IS 7098(Part II) amended upto date as per the following size 3C x 150 Sqmm	80	RM	2,302	184,160
	H.T Cable Termination (Outdoor)				
22	Design,Providing and erecting Heat shrinkable Out door termination Kit for 3Cx150,sqmmm,22kV XLPE HT cable as per specifications.	2	Nos.	17,523	35,046
	H.T Cable Termination (Indoor)				
23	Design,Providing and erecting Heat shrinkable Out door termination Kit for 3Cx150,sqmmm,22kV XLPE HT cable as per specifications.	5	Nos.	12,024	60,120
24	Design,Supplying and laying of ISI standard R.C.C , 150mm,2 m length	50	RM	2,668	133,400
25	Supplying and erecting Fencing of section having size 2450 mm in height from ground level and 1200 mm width with angle iron frame work erected in C C foundation including UCR plinth and painted as per specification	45	RM	6,605	297,225
26	Supplying and erecting double leaf hinged door each 1500mm in width x 1850 mm in height using B class,GI pipe with angle iron supports, chain link wiremesh (Jali) complete supported on channel iron , erected in foundation and painted as per specification.	1	No	16,158	16,158
27	Providing and laying RCC (M-150) cable duct of size 2x3 tier-1000Wx1000D for electric cable including form work for centering M.S bar reinforcement, necessary excavation bolder filling, PCC(M100),compacting , curing, plastering, including providing and fixing 35x35x5 mm M.S angle , RCC pre cast cover of Adequate length with 100 mm over lap on either walls etc complete and proving RCC pre cast covers.	100	RM	2,354	235,400
28	Suppling and erecting RCC chamber cover of size 750mm x 750mmx 50mm thick with lifting	50	Nos.	3,395	169,750



Sr. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total Cost (Rs)
	arrangement including laying of angle iron frame of angle size as 50x50x6 mm to be fixed /embedded on top of chamber				
29	Providing and spreading stone metal 25 mm size for 100 mm depth above the ground level	100	Sq.mm	66	6,600
30	Providing transformer plinth 1.5x1.5x1.5 M in size with necessary excavation in ground at bottom with 150 mm. thick M-10 PCC at the bottom and top and 250mm. Thick burnt brick wall constructed at periphery and remaining hollow portion shall be filled with 60mm hard broken aggregate external surface duly plastered 15 mm thick including watering etc. complete	2	Nos.	9,212	18,424
	Sub-Station and Pumping Station Earthing and lightning				
31	Design,Supplying and erecting Pipe type Earthing with 40 mm .dia ,G.I pipe complete with all materials as per specification	15	Nos.	1536	23040
32	Design,Supplying and erecting Copper earth plate type Earthing with with all materials as per specification	10	Nos.	7440	74400
33	Design,Supplying and erecting G.I plate type Earthing with all materials ,testing and recording the results as s per specification	5	Nos.	4018	20090
34	Design,Supplying and erecting Copper strip (for Transformer Neutral Earthing) of required size used for earthing on wall and / or any purpose with necessary copper clamps fixed on wall joints required as per specification	100	Kg	865	86500
35	Design,Supplying and erecting G.I strip of required size used for earthing on wall and / or any purpose with necessary copper clamps fixed on wall joints required as per specification	1000	Kg	158	158000
36	Design,Conventional spike type air termination suitable to carry lightning stroke made up of heavy gauge 40mm dia copper pipe of standard length with 5nos.copper spikes fixed on copper ball as air terminals duly threaded in copper pipe erected on provided foundation in an approved manner.	2	Each	4370	8740
37	Design,Supplying and erecting G.I earth wire of high purity of different size used for earthing or any other purposes on wall with necessary G.I. clamps fixed on wall / cable/ conduit with screws in an approved manner.	25	kg	152	3800
38	BUS Duct ,1.1kV, 1000 A, 50 Hz, 4 Wire	15	RMT	901,752	901,752
39	Cabling:- Supply and erection , XLPE insulated armoured cable 1100 grade with ISI mark three and half core, standard aluminum conductor with 6mm thick 25 mm width MS spacer with GI earth wire 6 sq.mm, complete erected with 25 X 3 mm MS clamps in an approved manner.				
39.1	3.5 Core 400 Sq.mm (AYFY)	250	RMT	2,665	666,250
39.2	3.5 Core 240 Sq.mm (AYFY)	150	RMT	1,753	262,950
39.3	3.5 Core 185 Sq.mm (AYFY)	200	RMT	1,293	258,600



Sr. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total Cost (Rs)
39.4	3 C X 120 Sq.mm (AYFY)	150	RMT	794	119,100
39.5	3 C X 50 Sq.mm (AYFY)	200	RMT	381	76,200
39.6	3 C X 35 Sq.mm (AYFY)	200	RMT	278	55,600
39.7	3 C X 16 Sq.mm (AYFY)	300	RMT	214	64,200
39.8	3 C X 4 Sq.mm (AYFY)	1500	RMT	129	193,500
39.9	4 C X 6 Sq.mm (AYFY)	350	RMT	176	61,600
39.10	5 C X 2.5 Sq.mm (YWY)	1500	RMT	270	405,000
39.11	2 C X 2.5 Sq.mm (YWY)	500	RMT	175	87,500
39.12	3 x 2.5 YWY	700	RMT	140.00	98,000
39.13	16 x 2.5 YWY	1800	RMT	1,247.00	2,244,600
40	Supply and erection of lugs and Double compression gland for PVC / XLPE cable termination at both end.				
40.1	3.5 Core 400 Sq.mm (AYFY)	8	Nos.	2,542	20,336
40.2	3.5 Core 240 Sq.mm (AYFY)	6	Nos.	2,059	12,354
40.3	3.5 Core 185 Sq.mm (AYFY)	6	Nos.	1,379	8,274
40.4	3 C X 120 Sq.mm (AYFY)	12	Nos.	1,379	16,548
40.5	3 C X 50 Sq.mm (AYFY)	4	Nos.	1,130	4,520
40.6	3 C X 35 Sq.mm (AYFY)	10	Nos.	1,130	11,300
40.7	3 C X 16 Sq.mm (AYFY)	10	Nos.	1,130	11,300
40.8	3 C X 4 Sq.mm (AYFY)	100	Nos.	1,130	113,000
40.9	4 C X 6 Sq.mm (AYFY)	30	Nos.	1,130	33,900
40.10	5 C X 2.5 Sq.mm (YWY)	60	Nos.	1,130	67,800
40.11	2 C X 2.5 Sq.mm (YWY)	30	Nos.	1,130	33,900
40.12	3 x 2.5 YWY	20	Nos.	1,131	22,620
40.13	16 x 2.5 YWY	16	Nos.	1,132	18,112
41	Providing and fixing G.I perforated cable trays of size as below including fixing on provided angles as per specifications				
41.1	80x20mm	400	mtrs.	88	35,200
41.2	200x20mm	400	mtrs.	172	68,800
41.3	400x20mm	250	mtrs.	330	82,500
41.4	Providing and fixing the support Structure for cable tray as per specifications	1000	kg	46	46,000
	Point Wiring				
42	Design,supplying and erecting point wiring for light/fan/bell in 20 mm metal conduit with 1.5 sq .mm FR grade copper wire 10 meters average length with flush type switch and required accessories as per specification	50	Nos.	888	44,400
43	Design,supplying and erecting point wiring for single Phase independent 5/15A plug in 20 mm metal conduit with 1.5 sq .mm FR grade copper wire 6 meters average length with flush type switch and required accessories as per specification	10	Nos.	683	6,830
44	Design,supplying and erecting point wiring for single phase Exhaust fan in 20 mm metal conduit with 1.5 sq .mm FR grade copper wire 10 meters average length with flush type switch and required accessories as per specification	12	Nos.	888	10,656
45	Design,supplying & erecting mains with 2cx4 sq.mm F.R copper wire , in 16 gauge 20 mm dia. Rigid steel conduit, with continuous GI earth wire of 2.5 sq.mm as per specification	150	RM	59	8,850



Sr. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total Cost (Rs)
	Indoor Lighting				
46	Design,Supplying and erecting approved make 2 x 36 /40 W with white stove enamelled / powder coated industrial type flou.fitting with one 40W VPIT copper ballast and lamps fixed at ceiling or on wall as per specification	30	Nos.	1,142	34,260
47	Design,Supplying and erecting approved make plain pendent type bakelite lamp holder complete erected at position with necessary length of twinflexible wire (upto 1 m) with 11 W lamp.	12	Nos.	176	2,112
	Outdoor Lighting				
48	Design,Supplying and erecting steel tubular swaged pole 165.1 x 139.7 x 114.3 mm .dia with 4.5 x 4.5 x 3.65 mm thickness (5 + 2 + 2.5 m) length respectively and total 10 m long with pole cap , base plate in provided foundation (weight 147 kg) as per specification	15	Nos.	12,659	189,885
48.1	Design,Supplying and erecting cement concrete foundation including excavation for the poles 60cm x 60cm x x deep 1/6 of pole length in 1:3:6 cement concrete (20 x 25 mm stone metel) and 45 cm x 45 cm x 45 cm /45 dia x 45 cm. height plinth duly plastered and with necessary curing and finishing in an approved manner	15	Nos.	3270	49050
48.2	Design,Supplying and erecting street light fitting suitable for 150 W H.P.S.V lamp with accessories and lamp on provided bracket as per specification	15	Nos.	3,215	48,225
48.3	Design,Supplying and erecting street light bracket for erection of single fitting made from 40mm.dia 'B' class G.I.pipe 1.0 m in length along with pole cap of 300mm length 100mm dia duly welded as per specification.	10	Nos.	719	7,190
48.4	Design,Supplying and erecting flood light luminaries suitable for 150 W, H.P.S.V lamp complete with accessories with lamp on provided bracket as per specification	4	Nos.	6,012	24,048
	Ventilation System:				
49	Design,Supplying and erecting Exhaust fan heavy duty 230V,AC,50Hz,375 mm, 900RPM complete erected in position as per specification	12	Nos	3,405	40,860
50	Design,Supplying and erecting fresh air cum exhaust fan of light duty 250 V, A.C. 50 cycles 300mm. 1400 rPM rust proof body & blades , wire mesh , duly erected in an approved manner and marking Sr.no and date of erection	2	Nos	1,343	2,686
51	Design,Supplying and erecting regular / standard model ceiling fan of 1400 mm, sweep complete erected in position as per specification	6	Nos	1,794	10,764
52	Design,Supplying and erecting Split type room Airconditioning unit 1 TR 5 star capacity 230/250 V, 50 cycles , A.C. supply having 1 No of air handling unit hi wall mounting type complete at position as per specification	3	Nos	70,488	211,464
	Main LT Panel				



Sr. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total Cost (Rs)
53	Supply, erection, testing and Commissioning of main LT panels with required no of incomer and outgoing feeders for APFC, Blower panel, Centrifuge panel, UV system etc .	1	No.	1,007,523	1,007,523
54	Supply, erection, testing and Commissioning of 110 kW, 415 V, 50 Hz,3 -phase, VFD with panel	6	Nos.	597,600	3,585,600
	LT Panel For Centrifuge Unit				
55	Supply, erection, testing and Commissioning of Sub main LT panels with required no of incomer and outgoing feeders with motor starter starters Centrifuge Panel	1	No.	597,203	597,203
56	Design,Supplying and erecting 370 kVAr, 440 V, Three phase ,50 cycles, Thyristor switched Microprocessor controlled, APFC Passive Filter Panel, consisting of steps of APP type capacitor units confirming to IS 13585 with harmonic filter reactors , as per specifications	1	No.	1,204,080	1,204,080
57	Indoor/ Outdoor Lighting , Ventilation and Power Distribution DB:- Design,Supplying and erecting triple pole and neutral distribution board (TPNDB) with door surface / flush mounted SPMCB of 12 ways , on iron fram / wooden board (Horizontal type) as per specification	5	Nos.	24,947	124,735
	a)63A,TPN ,MCB for Incoming-1No				
	b)10A,SPN ,MCB for outgoing-8Nos				
	c)32A,TPN,MCB for outgoing -4Nos				
58	Miscellaneous Items:-				
58.1	Design,Supplying and erecting, D.C.P type fire extinguisher 5 kg capacity catridge type with gun metal cap 150 gram CO2 gas cartridge, powder and brackets conforming to IS 2171-1985 and complete erected with necessary clamps made from 50 x 6 mm M.S. flat with nuts & bolts grouted in wall complete	6	Nos.	3,040	18,240
58.2	Providing printed instruction chart for treating persons suffering from electric shock , printed in English & marathi and duly laminated.	4	Nos.	112	448
58.3	Supplying standard first aid box with necessary antiseptic cream, medicine for use on wounds due burn, crepe bandage ,gauge bandage,medicated ready to use bandage (Band-aid) adhesive tape for medicinal use,scissors,anti-septic solution (Savion or similar) etc.	2	Nos.	695	1,390
58.4	Providing floor mounting stand for keeping 4 no's of FIRE buckets 1500mm in length, 900mm in height frame made out of 30x30x4 mm, angle iron with cross supports for legs, welded with 4 hook and duly painted with one coat of red lead and two coats os silver paint with providing round bottom FIRE Bucket of 9 litres capacity as per IS: 2536 made out of 24 gauge G.I sheet with extra handle at bottom duly painted white inside and red outside with FIRE Mark, on provided stand / Wall hook	1	Nos.	5,520	5,520



Sr. No.	Item Description	Qty	Unit	Unit Rate (Rs)	Total Cost (Rs)
58.5	Rubber hand Gloves as per IS 340715 suitable for working on 22 KV supply	1	Set	565	565
58.6	Supplying and fixing PVC Synthetic elastomer electrically insulated mat with class C insulation conforming IS: 15652-2006 having 3.00 mm thickness upto 22 kV	6	RMT	6,332	37,992
58.7	Supplying and fixing PVC Synthetic elastomer electrically insulated mat with class A insulation conforming IS: 15652-2006 having 2.00 mm thickness upto 3.3 kV	10	RMT	4,022	40,220
59	Supplying and erecting three phase ,32A,415V ,industrial Power plug with socket,switches(4-pole MCB) and Earth leakage Circuit Breaker (ELCB)	3	No	4,974	14,922
60	Supplying and erecting three phase ,20A,415V , Power plug with socket,switches(2-pole MCB)	3	No	1,026	3,078
61	Push Button station : Providing erecting shrouded / Unshrouded push button actuator with box	30	Nos.	1,146	34,380
62	1000 kVA DG set with AMF Panel	1	No.	9,660,000	9,660,000
Total Cost in Rs					3,64,35,357
Total Cost in Crores (Rs)					3.64



1.4: Cost estimates for Instrumentation works – 46.76 Mld STP at Kharigaon

S.No	Item Description	Unit	Qty.	Unit Rate (Rs)	Total Cost (Rs)
1	Ultrasonic level sensor	Nos.	5	72755	363777
2	Differential Level Transmitter	Nos.	2	42742	85483
3	Pressure Switch	Nos.	1	1678	1678
4	Ultrasonic Flow Sensor	Nos.	2	161798	323597
5	Flow Transmitter	Nos.	2	26500	53000
6	pH Quality sensor with Transmitter	Nos.	2	67416	134832
7	DO Quality sensor with Transmitter	Nos.	4	161798	647194
8	Flow Indicator	Nos.	8	570595	4564760
9	Pressure Transmitter	Nos.	4	25000	100000
10	Pressure Indicator	Nos.	11	4045	44495
11	Level Switch	Nos.	4	20000	80000
12	Level Transmitter	Nos.	1	40000	40000
13	Cu plate earthing including cu earthing strip of 25 X 3 mm strip for PLC / SCADA panel.	LS	1	20000	20000
14	Redundant hot standby PLC based control system with associated DI,DO, AI and AO modules as per specification.	LS	1	2971606	2971606
15	SITC of instrumentation, control, communication cable along with cable tray and joints.	LS	1	3446238.5	3446239
16	SITC of LCD screen based PC with all required hardware and software, Dot matrix printer, laser printer and 2 kVA UPS as per specification	LS	1	1305883	1305883
17	Furniture (Table, Chairs, Almirrah, Conference Table etc)	LS	1	200000	200000
18	Laboratory Equipment	LS	1	650000	650000
Total in Rs.					1,50,32,542
Total Cost in Crores (Rs.)					1.5



4.1: O & M for 46.76 Mld STP at Kharigaon

(A) Cost of Chemicals

Chemicals	Reqd .kg/day	Rate Rs./kg	Cost Rs./day	Cost per annum
Polyelectrolyte, kg/T of dry solids in kg/day	50.85	350	17,798	64,96,088
Total Rs./year				64,96,088

(B) Cost of Manpower

Personnel	Nos.	Rate	Amount
Mech Engg.	0.33	40,000	13,200
Ele.Engg	0.33	40,000	13,200
Plant in charge	1	12,500	12,500
Supervisor	4	10,000	40,000
Operators	4	9,075	36,300
Electrician	1	9,975	9,975
Fitter	1	9,975	9,975
Helpers	4	7,250	29,000
Gardener	1	7,500	7,500
Watchman	4	5,000	20,000
Lab Asst.	1	15,000	15,000
Lab Technician	1	10,000	10,000
Total Rs./month			2,16,650
Total/year			2,599,800

(C) Maintenance Cost for STP

Item	Capital cost Rs.	Maintenance cost Rs.
Civil at 0.5% on Capital cost of civil works	101,931,798	509659
Electrical, Instrumentation & Mechanical at 2% on Capital cost of Electrical and Mechanical Equipment	224,065,095	4481302
Total Rs./year		4990961

(D) Sludge disposal

Volume (m ³ /day)	Trips	Rate/trip
42.00	8.40	1000
Rs./day		8,400
Total Rs./year		30,66,000



(E) Lab and office expenses

Lab chemicals	12000
Rs./month	
MPCB analysis	3000
Rs./month	
Total Rs./month	15000
Total Rs./year	180000

Summary of Annual O & M Cost

Chemicals	6,496,088
Manpower	2,599,800
Maintenance	4,990,961
Sludge disposal	3,066,000
Lab expenses	180,000
Total O & M Cost Rs./year	17,332,848

For first year	173.33	lakhs
For second year	190.66	lakhs
For third year	209.73	lakhs
For fourth year	230.70	lakhs
For fifth year	253.77	lakhs
	1,058.19	lakhs



4.1: O & M for KPS 3 & 4

(A) Cost of Manpower for KPS 4

Personnel	Nos.	Rate	Amount
Plant in charge	1	12,500	12,500
Operators	4	9,075	36,300
Electrician	1	9,975	9,975
Fitter	1	9,975	9,975
Helpers	4	7,250	29,000
Watchman	4	5,000	20,000
Total Rs./month			117,750
Total Rs./year			1,413,000

(B) Cost of Manpower for KPS 3

Personnel	Nos.	Rate	Amount
Operators	4	9,075	36,300
Electrician	1	9,975	9,975
Watchman	4	5,000	20,000
Total Rs./month			66,275
Total Rs./year			795,300

(C) Maintenance Cost for KPS 4

Item	Capital cost Rs.	Maintenance cost Rs.
Civil at 0.5% on Capital cost of civil works	71,476,864	357384
Electrical & Mechanical at 2% on Capital cost of Electrical and Mechanical Equipment	62,889,275	1257785
Total Rs./year		1615170

(D) Maintenance Cost for KPS 3

Item	Capital cost Rs.	Maintenance cost Rs.
Civil at 0.5% on Capital cost of civil works	3,948,018	19740
Electrical & Mechanical at 2% on Capital cost of Electrical and Mechanical Equipment	13,933,096	278662
Total Rs./year		298402



Tender for 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD at Kharigaon, Thane Phase II
Volume III: Price Schedule

Summary of Annual O & M Cost	
Manpower Cost in Rs.	2,208,300
Maintenance Cost in Rs.	1,913,572
Total O & M Cost Rs./year	4,121,872

For first year Rs.	41.22	lakhs
For second year Rs.	45.34	lakhs
For third year Rs.	49.87	lakhs
For fourth year Rs.	54.86	lakhs
For fifth year Rs.	60.35	lakhs
	251.64	lakhs

Summary of Annual O & M cost of STP & PS

	SPS cost	STP cost	TOTAL	
For first year Rs.	40.22	173.33	214.55	lakhs
For second year Rs.	45.34	190.66	236.0	lakhs
For third year Rs.	49.87	209.73	259.6	lakhs
For fourth year Rs.	54.86	230.70	285.56	lakhs
For fifth year Rs.	60.35	253.77	314.12	lakhs
	251.64	1,058.19	1309.83.93	lakhs



TENDER FOR WORKS

1./We hereby tender for the execution, for the Thane Municipal Corporation, Thane (hereinbefore and hereinafter referred to as 'TMC, Thane') of the work specified in the underwritten memorandum within the time specified in such memorandum at* (as per e-tendering procedure) (*in figure as well as in words) percent below/above the estimated rates entered in schedule "B" (memorandum showing item of works to be carried out) and as per e-tendering procedure , in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in rule 1 hereof and clause 13 of the annexed conditions of contract and agree that when materials for the work are provided by City Engineer, TMC, Thane such materials and rates to be paid for them shall be as provided in schedule "A" hereto.

MEMORANDUM

DESCRIPTION OF WORKS

General Description:

Construction, Supply, Erection, Testing, Commissioning, Start-up of 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD followed by 6 months performance run & 5 years O & M period.

- | | |
|------------------------------------|----------------------|
| a. Estimated Cost | : Rs. 6092 lakhs. |
| b. Earnest Money: | : Rs. 61.00/- lakhs |
| c. Security Deposit | |
| i) Initial (2%) | :Rs. 1,21,84,547 /- |
| ii) From running account Bill (3%) | : Rs. 1,82,76,820 /- |

Total : Rs. 3,04,61,367/-

d.Time allowed for the work from the date of written order to commence is **(12) twelve months** including monsoon.

2./We agree that this offer shall remain open for acceptance for a minimum period of 180 days from the date of opening the same and thereafter until it is withdrawn by me/us by notice in writing duly addressed to the authority opening the tenders and sent by registered post A.D. or otherwise delivered, at the office of



such authority. The Earnest Money herewith forwarded along with this tender. The amount of Earnest Money shall not bear interest and shall be liable to be forfeited to the TMC, Thane should I/We fail to (i) abide by the stipulation to keep the offer open for the period mentioned above or (ii) sign and complete the contract documents as required by the City Engineer and furnish the security deposit as specified in item (d) of the memorandum contained in Para - 1 above within the time limit, laid down in clause (1) of the conditions of the contract. The amount of earnest money may be adjusted towards the security deposit or refunded to me/us if so desired by me/us in writing unless the same or any part thereof has been forfeited as aforesaid.

3. Should this tender be accepted. I/We hereby agree to abide by and fulfill all the terms and provisions of the conditions of contract annexed hereto so far as applicable and in default thereof to forfeit and pay to TMC, Thane the sum of money mentioned in the said condition.

Contractor _____

Name & Address _____

Dated _____ day of _____ 2014 _____

(Witness) _____

Name & Address _____

Occupation _____

The above tender is hereby accepted by me for and on behalf of the Thane Municipal Corporation.

Officer _____

Dated _____ day of _____ 2014 _____

City Engineer
Thane Municipal Corporation, Thane



PRICE SCHEDULE

Construction, Supply, Erection, Testing, Commissioning, Start-up of 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD followed by 6 months performance run & 5 years O & M period.

Schedule 1: Abstract of Project Cost

Description	Amount in figure (Rs. in Crores)	Amount in words (Rs.)
Capital Cost for 46.76 MLD Sewage Treatment Plants, KPS 3 & 4 Sewage Pumping stations Sewage pumping Station	478,244,138	Rs. Forty Seven Crores Eighty Two Lakhs Forty Four Thousand One Hundred Thirty Eight Only.
5 years O & M Cost for 46.76 MLD STP KPS 3 & 4 Sewage Pumping stations	130,983,208	Rs. Thirteen Crores Nine Lakhs Eighty Three Thousand Two Hundred And Eight Only.
Total cost	609,227,346	Rs. Sixty Crores Ninty Two Lakhs Twenty Seven Thousand Three Hundred Forty Six Only.

I/We have carefully studied the various components included in the Price schedule herein above with the Scope of Work and Detailed Specification and all other Terms and Conditions of this tender, also inspected the work site on the basis of that I/We hereby undertake to execute the work of "Construction, Supply, Erection, Testing, Commissioning, Start-up of 46.76 MLD STP, KPS 3 & 4 Sewage Pumping stations of average capacities, 10.62 MLD & 59.43 MLD followed by 6 months performance run & 5 years O & M period."

Date

Seal

Contractor