S. No.	Particular	Cost (In Lacs)
	INTAKE WELL AND RAW WATER PUMPS	
1.0	Construction of Intake Well and Raw water pump house odda Nallah in Naigarhi for design capacity of 1.60 MLD alongwith Providing and installation of pump sets for pumping of 1.30 MLD raw water for Stage-I. Here a circular intake well is considered with diameter 5.00 meters and height 16 meters including pumphouse of 5.00 m height is considered having average wall thickness 350 mm.	110.61
	RAW WATER PUMPING MAIN	
2.0	Providing and Laying of Raw water pumping Main of 150 mm DI-K-9 having length of 6157 meter from proposed Intake well at Odda Nallah to proposed water treatment plant in Naigarhi town.	104.24
	WATER TREATMENT PLANT	
3.0	Partial construction of WTP of capacity 1.60 MLD (50% cost)	46.07
	Tartal Construction of WTF of capacity 1.00 WILD (50 % Cost)	
	FEEDER NETWORK	
4.0	Providing, Laying and Joiting of 150 mm diameter DI K-7 Class pipe for strengthning and extension of water supply Feeder network having total length of 7513 m of Naigarhi water supply arrangement.	148.92
	OVER HEAD SERVICE RESERVIOUR	
5.0	Construction of 1 No. RCC overhead Service Reservoir having capacity of 1 no.100 KL, 18.00 m for effective distribution of water in Nagar Parishad, Naigarhi.	18.56
	DICTRIBUTION	
	DISTRIBUTION NETWORK	
3.0	Providing, Laying and Jointing of 110 mm to 225 HDPE PN-6 class distribution network pipe line having total lenght of 54956 meter for strengthning and extension of water supply sysytem of Naigarhi town.	383.57
(0)	PLC SCADA	
D.U -	Supply and Installation of PLC SCADA	
	T, , and the second sec	24.00
I	HOUSE SERVICE CONNECTION	
7.0 I	Providing / Shifting House service connections for 500 Nos. of Domestic Water Connection	15.00
1	IT FEEDER	
	IT feeder and Electric sub station at Intake well and WTP.	
	and WTP.	24.15
7 0.e	ransformer	
1	00KVA	
al cost 6	a. D.	14.95
garhi	or Proposed Components for Extension and Strengthening of Distribution Network of	
l cost f	Or Proposed Comment of the	890.08
	or Proposed Components for Extension and strengthening of Distribution Network of clusive of Goods and Services Tax @18% (GST)	1050.29
All costs	TOTAL COST OF PROJECT	1050.00
Post	are inclusive of Good & Service Tax (GST @18%). utting/dismantling has been considered as per actual survey carried out during the month of march 2022. has been prepared on UADD SOR 2021.	1050.29

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1.1 Construction of Intake Well and Raw water pumphouse on odda Nallah for design capacity of 1.60 MLD alongwith Providing and installation of pump sets for pumping of 1.30 MLD raw water for Stage-I, Here a circular intake well is considered with diameter 5.00 meters and height 17 meters including pumphouse of 6.00 m height is considered having average wall thickness 350 mm.

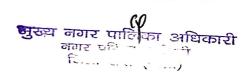
		PHASE 1 - Intake at odda Nallati				
S.No.	Remarks	Description	Qty.	Unit	Rate	Amount (In Lacs)
1.0		Civil work for intake & raw water pump house				
O	Item no. 15.26.5(a) VO	Providing constructing coffer dam in river basin/dam storages as per type design including excavation, filling the middle portion with B.C. soil (in gurnry bags if required). Providing impervious/semilpervious materials on both side	600.00	Cum	719.00	4.31
	Item no.18.14.4	Plain cement concrete Mix M-15 (1 cement : 2 sand : 4 aggregate) below the pipe line having metal of maximum size 12mm 200mm thick in foundation	13,61	Cum	4755.00	0.65
(III)	VOL (I)	2.5°2.5°0.2°10 (column footing of approach bridge)				
		3.14*3.00^2*0.15 (Intake Pcc)				
	Item No.18.18.2 VOL (i)	Reinforced cement concrete work with mix M-25 (1 cement :1 sand:2 aggregate) including the cost of centering & shuttering and the cost of steel reinforcement but including vibration, finishing, curing and cleaning having maximum size of metal as 20 mm for walls of Intake well & approach bridge of 60m.	777.7	Cum	5980.00	47.82
Ī		M 25 Wall thickness 400 mm upto 0-5 m				
		(3.14x6.4x5x0.4)				1
		Wall thickness 350 mm upto 5-10 m (3.14x6.35x5x0.35)				
		Wall thickness 300 mm above 10 m	1			1
(iv)		(3.14x6.3x10x0.30)				
/		Top and Bottom Slab				
- 1		(3.14x0.30x3^2x2)				
		Bridge (50m)				
		Deck Slab (50m) (50x0.30x2.5)				
		(30x0.30x2.3) Columns (10 Nos.)				
		(10x3.14x0.3x0.3x21)				
		Beam				
		(0.30x0.30x50x14)				1
		Footing (10nos.)				
		Footing-(2.5x2.5x10x0.50)				
		Intake well Raft Foundation				
-		(1.5°3.14°10°10)				
(v) I	tem no. 18.34	Reinforcement for R.C.C. work including straighting, cutting, bending, placing in position and binding it all complete with HYSD bars @80kg/cum of concrete.	63976.58	Kg	66.00	42.22
\neg						
vi)	Non-SOR	Supplying and installation of 2 Nos. Deep Well vertical Turbine pumps for pumping of raw water from Proposed Intakewell on Tamas River with 1working and 1 stand-by having total discharge capacity of 0.019 m3/sec, head of 50 m having100% stand by with all necessary electrical and mechanical accessories rating 15KW each as per Phase-I requirement. Job includes providing and installing all necessary electrical mechanical accessories of pumping unit complete in all respect.	30.00	кw	22000	6.60
+	item no. 21.16.5	Pumping out water caused by springs, tides or river seepage, broken water mains or drains or well or the like dewatering of Intake well having 6m	1	nos.	300000.00	3.00
vii) -	VOL (i) item no.	Approach bridge having length of 50m	50	RM	2000	1.00
_	VOL (i)	T				
viii)	Lumpsum	Providing, EOT Crane, Gantry, Ports etc.				5.00
To	otal cost for co	nstruction of Intake Well at Odda nallah along with provision for Raw Wo	ater Pumps	and M	otor Sets.	110.61

Detailed estimate for construction of treatment plant of 1.60 MLD capacity along with Clear water Pumps for 1.60MLD and all necessary electrical and mechanical equipment for clear water pump house as required for next 15 years.	
equipment for clear water pump house as required for next 15 years.	

S.No.	ITEM	Description	Qty.	Rate	Unit	Amount (In Lacs)
1.0	Lumsum	Supplying and installation of Centrifugal pumps for pumping of clear water from treatment plant to OHTs in Churhat having required discharge 15 LPS and 55.00 M pumping head having 100% stand by with all necessary electrical and mechanical accessories. Job includes providing and installing all necessary electrical mechanical accessories of pumping unit complete in all respect.	Each	148350.00	ĸw	2.97
		a) 2 nos. 15 kw (One working and One Stand By)				
3.0	2021 Vol (i) 22.1	Designing (structurally, hydraulically & aesthetically), providing, Constructing and commissioning Water Treatment Plant of 1.60 MLD Production capacity in 22 hour operation with aeration, chemical storage, chemical mixing arrangement, coagulation, sedimentation, rapid gravity filtration, back wash water storage tank, disinfection with chlorination, treated water storage for 60 minutes capacity, wash water recovery plant including sludge drawing bed, clear water pump house, water analysis laboratory, administrative block, security cabin, landscaping, lighting, compound wall (100 m x 100 m, hight 2 m) including cost of process design, cost of all civil, mechanical, electrical and instrumentation works, equipment, construction, installation as per Specifications etc. all complete	1.35	86.2	MLD	43.10
	Total Cost	for Construction of Water Treatment Plant along with sump we	ll and pum	p house	-	₹ 46.07
		Total cost of Goods and Services Tax (GST) @18%				₹ 8.29

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		ding, Laying and Jointing of 110 mm to 355 mm diamater HDFE FN-6 pipe for strengt Naigarhi.		1	Rate on	Amount
S. No	MF UADD SOR(2021) ITEM		Qty	Unit	5OR (2021)	(In Lacs)
	HEM			-		
,	Vol. (i) 7.1	Providing, Laving, Jointing & field testing of High Density Polyethylene pipes, (HDPE) confirming to IS 4984/ 14151/ 12786/ 13488 with necessary jointing material like mechanical connector of jointing pipes by heating to the ends of pipes with the help of Tellon coated electric mirror/ heater to the required temperature and then pressing the ends together against each other, to form a monolitine & leak preof joint by thermosetting process. It may be required to be done with lack/Hydraulic lacks/ Butt fusion machine. (50 mm & above fusion jointed & below 50mm mechanical jointed) for Distribution Network			354.00	151.65
		110 mm dia	42839.00	Rm	460.00	0.64
	1	110 mm dia 125 mm dia	140.00	Rm	572.00	0.09
	1	140 mm dia	16.00	Rm	743.00	3.51
		160 mm dia	473.00	Rm	1151.00	5.73
		200 mm Dia.	498.00	Rm	1457.00	37.91
		225 mm Dia.	2602.00	KHI	1-157.00	199.54
	-	Total Distribution Network pipe line length	46568.00	-		
			54956.00	_	-	
2.0	Lump Sum	Add 2.5 % for specials i.e. Electro Fusion Coupler, Equal Tee, Reducer and Elbow				4.99
	Vol (i) 14.2	90 Deg. etc. Providing & fixing of Cast iron double flanged sluice valves as per I.5.:14846-2000 fitted with cast iron cap including jointing & testing with cost of jointing material such as bolts, muts, rubber insertions etc. all complete (PN 1.0)			4153.00	1.25
3.0			30	Nos		0.13
	14.2.4	100 mm dia	2	Nos	6747.00	0.3
	14.2.6	150 mm dia	3	Nos	11243.00	0.5
	14.2.7	200 mm dia Total	35.00		1	
3.0	Vol (i) 17.21	Road Gully Chambers: Construction of Brick masonry road gully chambers with brick work in cement mortar 1:5 (1 cement: 5 course sand) and 12mm plaster 1:3 including foundation in cement concrete grade M-5 (Nominal Mix) with stone aggregate 40mm nominal size Including precast reinforced cement concrete top cover and frame.				
	17.21.3	Chamber 110 x 50 x 77.5cm with 500x450 mm horizontal and 450x100 mm vertical gratings both.	55	Each	7414.00	4.0
2.0	vol (i) 18.2.1	Earth work in Excavation for pipe trench in all kind of soil in areas including dressing, watering and ramming and disposal of excavated earth lead upto 50 meters and lift upto 1 meters, disposal earth to be levelled neatly and dressed.	31737.09	Cum	151.00	47.9
		Total Quantity of Excavation	31737.07	Cum		
5.0	vol (i) 18.3.3	Filling with moorum for pipe bedding or over the pipe including supply of murrom, L × B × 0.100 Cum (40% of total length)	1209.03	Cum	720.00	8.7
0.0	Vol. (i)	Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 1000 m, stacking serviceable and unserviceable material separately and as per relevant clause of section 200 (10% of the Total Length) (Taking Bituminous Road Thickmess as 10 cms and Granular coarse thickness as 20 cms) (20% of the Total Length)				
a)	18.11.1	Bituminous Course (L*0.55*0.10)	604.52	Cu.m	420.00	2.5
b)	18.11.2	Granular Course (L*0.55*0.150)	906.77	Cu.m	378.00	3.4
7.0	Vol. (iii) 2.5	Dismantling of cement concrete pavements including breaking to pieces not exceeding 0.02 Cum in volume and stock piling at designed locations and disposal of dismantled material upto a lead of 1000 m, stacking of serviceable & unserviceable material separately and as per relevant clause of section 200 25% of total length (having Thickness of Road as 15cm and Width has been considered different for different diameter pipes)	1133.47	Cu.m	749.00	8
		Cement concrete grade M-15 (Nominal Mix) with 20 mm maximum				
8.0	Vol. (i) 18.14.4	size of stone aggregate (25% of total length)	1133.47	Cu.m	4755.00	53.



9.0	Vol. (iii) 6.1	Construction of Dry lean cement concrete Sub-base over a prepared subgrade with coarse and fine aggregate conforming to 15: 383, the size of coarse aggregate not exceeding 26.5mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per MORTH Specifications Table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-601.(25% of total length)	755.65	Cu.m	2504.00 _.	18.92
10.0	Vol. (i) 18.2.8	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20 cms. In depth including consolidation of each layer by ramming watering, lead upto 50 m and lift upto 1m in all kind of soils				
		(Total exacavated qty)	31737.09	Cu.m	4	
		Volume of Pipe	130.51	Cu.m	1	
		Volume of Concrete work	1889.11	Cu.m		
		Volume of moorum bedding	1209.03			
		Net qty of refilling	28508.43	Cu.m	89.00	25.37
14.0	Vol. (ii) 16.15.2		4276.27	Cum	92.87	3.97
		Earth upto 1 km distance (15.% of net refilling)	42/0.2/	Cunt	72.07	383.57
Total Cost	for Laving of Pro	proced Distribution in Naigarhi		_		
Note	Road Restoration	on of 10% BT;50% CC and 40% Kaccha Road has been considered in preparation of of 10% BT;50% CC and 40% Kaccha Road has been considered in preparation of the Nagar Parishad, Naigarhi	this estimate a	nd as pe	er the discus	sion with the

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S. No	ent plant in Nai MP UADD SOR ITEM	Particulars	Qty	Unit	Rate	Amount (In Lacs)
1.0	vol (i) 4.3.5	Providing, Laying and jointing 150 mm DI pipe K-9 class flow diameter socket and spigot pipes including testing of joints cost of pipes and jointing materials complete as per IS 8329: 2000	5392.00	RM	1734.00	93.50
		Add 2.5 % for specials including civil structure for support valve chambers etc.				2.34
		Total cost for Pipe Line				95.83
2.0	vol (i) 18.2.1	Earth work in Excavation for pipe trench in all kind of soil in areas including dressing, watering and ramming and disposal of excavated earth lead upto 50 meters and lift upto 1.50 meters, disposal earth to be levelled neatly and dressed				
20	Vol (i) 16.2.1	Taking total width of the trench as 0.4 + Outer Diameter of Pipe in metre, Length as 6157 metres & depth as 1 + Outer Diameter of Pipe in metres. For150mm diameter Pipe DI K-9 for Pumping main pipe line	3113.88	Cu.m	151.00	4.70
3.0	vol (i) 18.3.3	Filling with moorum for pipe bedding or over the pipe including supply of murrom, L \times 0.55 \times 0.15 Cu.m 20 % of total length .	88.97	Cu.m	720.00	0.64
		Polity of 11				
13.0	Vol. (i) 18.2.8	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20 cms. In depth including consolidation of each layer by ramming watering, lead upto 50 m and lift upto 1.50 m in all kind of soils (Total exacavated qty)	3114	Cu.m		
-	Karana and American	Volume of Pipe	265	Cu.m		
14.0	Vol. (ii) 16.15.2	Net qty of refilling Carriage of material by mechinacal transport including loading unloading and stacking etc. Earth upto 1 km distance (20% of net refilling)	2849	Cu.m	89.00	2.54
		U/	570	Cum	92.87	0.53
tal cos	st of work for lay	ing of Raw Water Pumping Main				
		712000				₹ 104.24

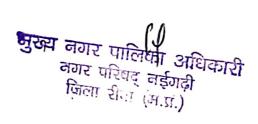
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S. No.	MP UADD SO ITEM	Particulars	Qty	Unit	Rate on SOR	Amour (In Lacs
1.0	Vol. (i) 4.1.3	Providing, laying and jointing socket & spigot centrifugally cast (Spun) Ductile Iror pressure pipes with inside cement mortar lining (class K-7) conforming to IS 8329/2000 with suitable Rubber Gasket (Push on) joints as per IS:5382/85 including testing of joint (laying conforming to IS 12288 : 1987) for feeder Pipe line for Porposed OHT				
		150 mm Dia. DI K-7	7513.00	Rm	1573.00	118.1
	LumpSum	Add 2.5% for specials including civil structure for support valve chambers etc.	7513.00			118.1
		. 0	-	+-		
2	Vol (i) 14.2	Providing & fixing of Cast iron double flanged sluice valves as per I.S.:14846-2000 fitted with cast iron cap including jointing & testing with cost of jointing material such as bolts, nuts, rubber insertions etc. all complete (PN 1.0)				
	14.2.4	150 mm dia	4	Nos	6747.00	0.2
		Total	4.00			
3	Vol (i) 17.21	Road Gully Chambers: Construction of Brick masonry road gully chambers with brick work in cement mortar 1:5 (1 cement: 5 course sand) and 12mm plaster 1:3 including foundation in cement concrete grade M-5 (Nominal Mix) with stone aggregate 40mm nominal size Including precast reinforced cement concrete top cover and frame.5				
4	17.21.3	Chamber 110 x 50 x 77.5cm with 500x450 mm horizontal and 450x100 mm vertical gratings both.	4.00	Each	7414.00	0.30
2.0		Earth work in Excavation for pipe trench in all kind of soil in areas including dressing, watering and ramming and disposal of excavated earth lead upto 50 meters and lift upto 1 meters, disposal earth to be levelled neatly and dressed.				
	vol (i) 18.2.1	Taking total width of the trench as 0.4 + Average Diameter of Pipe in metre, Length as7513 metres & depth as 0.9 +Average Diameter of Pipe in metres.(here it is considered that the road restoration of CC shall also provide cover)	4338.76			
-		Total Quantity of Excavation	4338.76	Cum	151.00	6.55
3.0	vol (i) 18.3.3	Filling with moorum for pipe bedding or over the pipe including supply of murrom, L \times 0.55 \times 0.1 Cu.m (40% of the Total Length)	165.29	Cu.m	720.00	1.19
4.0	JADD SOR 2021 Vol. (iii)	Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 1000 m, stacking serviceable and unserviceable material separately and as per relevant clause of section 200 (20% of total length)				
_	2.4 8	Bituminous Course (L*0,55*0.1)	92.64			
	2.4 D	Granular Course (L*0.55*0.2)	82.64 165.29	Cu.m	420.00 378.00	0.35
5.0	Vol. (iii) 2.5	Dismantling of cement concrete pavements including breaking to pieces not exceeding 0.02 Cum in volume and stock piling at designed locations and disposal of dismantled material upto a lead of 1000 m, stacking of serviceable & unserviceable material separately and as per relevant clause of section 200 40% of total length (having Thickness of Road as 20cm and Width has been considered different for different diameter pipes) (L*0.65*0.15) 40% of total length	247.93	Cu.m	749.00	1.86

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6.0	Vol. (iii) 6.1	Construction of Dry lean cement concrete Sub-base over a prepared subgrade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 26.5mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per MORTH Specifications Table 600-1, cement content not to be less than 150 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-601. Deduct from Item No.6.1 above if paver with Electronic sensor/mechanical paver, is not used and laying is done by any other method. (Note: - The acceptance criteria regarding level, thickness, surface regularity, texture finish, strength of concrete and all other quality control measures shall be the same as in case of machine laid work.) This item is to be executed with Prior written permission of Engineerin-charge Deduct from Item No.6.1 above if static roller is used in place of vibratory rolle (L*0.65*0.10) 30% of total length	123.96	Cu.m	2504.00	3.10
				-		
6.0	Vol. (iii) 6.6 & 6.7	Providing and laying Cement Concrete grade M-20 (Nominal mix 1:1.5:3) with 20 mm graded crushed stone aggregate, mixing shall be in mechanical mixer, laying with paver compacting by use of pin, plate / screed vibrators including form work by strong steel girders fixed by spikes, separation membrane 125 micron thick, i/c cutting of joints @ 4 to 5 m interval & filling it with hot applied bituminous sealant (without dowel bars). (max. thickness 20cm) Deduct from Item No.6.6 above if paver with electronic sensor is not used and laying, compaction is done by any other method (Note: The acceptance criteria regarding level, thickness, surface regularity, texture finish, strength of concrete and all other quality control measures shall be the same as in case of machine laid work.) This item is to be executed with Prior written permission of Engineerin-charge L x 0.1 5x0.65 Cu.m (30% of the Total Length)	185.95	Cu.m	5029.00	9.35
-						
7.0	V-1 (i) 40 0 0	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20 cms. In depth including consolidation of each layer by ramming watering, lead upto 50 m and lift upto 1m in all kind of soils				
7.0	Vol. (i) 18.2.8	(Total exacavated qty)	4338.76	Cu.m]	1
		Volume of Pipe	132.70	Cu.m]	
		Volume of Concrete work	309.91	Cu.m		
		Net qty of refilling	3896.15	Cu.m	89.00	3.47
8.0	Vol. (ii) 16.15.2	Carriage of material by mechinacal transport including loading unloading and stacking etc.				
		Earth upto 1 km distance (20.% of net refilling)	779.23	Cum	92.87	0.72
Tot	al Cost for Laying	of Feeder Network for strengthening and extention of Water supply system for 10 Municipal area	0% town cover	age in N	laigarhi	148.92

Note:- Road Restoration of 30% CC, 20% BT and 50% Kaccha Road has been considered in preparation of this estimate as per actual survey carried out during the month of March, 2022 and as per the discussion with the officials of the Municipal Council Naigarghi



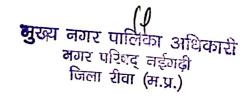
Construction of 1 no. R.C.C. Overhead service reservoirs of 18 metres staging of design capacity 100 KL at Naigarhi in for effective distribution of water. The Staging of the tank will comprise of Columns, Bracing of RCC having storage tank as Intze type. The water tightness etc. complete has to be ensured by the contractor. Work also includes provision for outlet, scour & overflow pipes & valves for the above tank & provision for epoxy coating inside the tank & painting the tank with snowcem from Outside & writing the capacity of tank.	5. No.	MP UADD SOR ITEM	Particulars	No.	Qty	Unit	Rate on SOR	Amount (In Lacs)
	1.0	Vol. (i) 24.1.21	staging of design capacity 100 KL at Naigarhi in for effective distribution of water. The Staging of the tank will comprise of Columns, Bracing of RCC having storage tank as Intze type. The water tightness etc. complete has to be ensured by the contractor. Work also includes provision for inlet, outlet, scour & overflow pipes & valves for the above tank & provision for epoxy coating inside the tank & painting the tank with snowcem from	1	150.00	KLL	1856040.9	18.56

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S.No.	Remarks					
	/ SOR	Particulars	Qty	Unit	Rate	Amount (In Lacs)
		Design and Installtion of SCADA PLC, Sufficient to Monitor the designated flows of Raw and Clear Water upto the Start of the DMA's (District Metering Area) of each Over Head Service Reservoir/ Ground Service Reservoir. (for Proposed System alongwith Integration with the existing SCADA unit) a) Water Treatment Plant Inlet. Flow Transmitter (EMF) / Open Channel Flow Meter (OFM) V-Notch, Turbidity Meter (online) Raneg 1-2000 at inlet as per requirement, pH Meter (Online), level transmitter (LT)				
1.0	Lumpsum	ultrasonic at back wash tank, pH, Turbidity, Residual Chlorine, analyzer at CWR, Chlorine leak detector in Chlorine room, Level Transmitter at CWR, flow transmitter, pressure transmitter at WTP outlet - Master Control Room PLC panel (Main) with central Modem, 2 Nos. Computers for SCADA operating work station and Engineering work station with redundancy, SCADA software-open platform communication (OPC) compatible for future upgradation, Air Conditioner, Printer, UPS, Electrical parameter shall be visible on SCADA such as Voltage, Current, power Factor.	1.00	Nos	1300000	13.00
		 b) Intake well- RTU (Remote Terminal Unit)/ PLC Panel with Modem and Sim, Radar Level Transmitter, PT (pressure Transmitter) at Outlet or at each pumps, Flow Meter (EMF) Online UPS for backup and Voltage Protection, Actuators 	1.00	Nos	500000	5.00
		c) Overhead Service Reservoir Flow Transmitter, Pressure transmitter at Inlet, Level Transmitter on ESR/GSR, Remote Terminal Unit (RTU)/PLC panel with UPS/LPU (Lightning Protection Unit) Modem, ORP - Oxidation, Reduction, Potential Analyzer	3.00	Nos	200000	6.00
		Total Cost for Provision of PLC-SCADA				24.00

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C No.	MP UADD SO	R	7	11-14	Rate	Amount (Ir
S. No.	ITEM	Particulars	Qty	Unit	Rate	Rupees)
Provid	ling and laying Mi	OPE PE 80 blue pipe as per ISO 4427 having 20 mm diameter hous below.	se service c	onņeclions v	rith all accessorie	es as mentioned
1.1	vol (i) -7.12.14	Providing & Supply of Electro Fusion Tapping Ferrule (Branc Tapping Saddle) female BSP threaded with SS 304 insert fitting in accordance with BS EN 12201: Part-3 suitable for drinkin water with in black/blue colour manufactured from compounde PE80/PE 100 virgin polymer and compatible with PE80/PE10 pipes, in pressure rating SDR 11 with min PN 12.5 rated for water application and shall be inclusive of all cost such a testing, all taxes related to central, state & municipal, inspection charges, transportation upto site, transit insurance, loading unloading, stacking etc. complete.	s g d d o o o t s	Each	1137.00	1137
1.2	vol (i) -7.13.5.1	Providing & Supply of Compression fittings, PN16 rated in conformation to ISO:14236-2000 and shall be tested as per ISO:3459, ISO:3501 & ISO:3503, sultable for drinking water & approved by WRAS, UKI KIWA etc., in food grade polypropylene and shall be inclusive of all cost such as testing, all taxes related to central, state & municipal, inspection charges, transportation up to site, transit insurance, loading, unloading, stacking etc complete. Metal inserted Compression Female Threaded Adaptor with SS 304 Material (20 x 15mm)	1 1	Each	126.00	126
1.3	vol (ī)-7.13.4.1	Compression 90 Deg. Elbow	1	Each	206.00	200
1.4	vol (i) -7.14.1	Providing & Supply of PVC Ball Valves in PN16 rating with one end compression using Blue colour compression nut in polypropylene material & other end with female threads conforming to ISO:4422-4, certified from WRAS UK/KIWA etc. suitable for food products & drinking water, female threads in accordance with ISO:7/BS:211 IS: 554 and shall be inclusive of all cost such as testing, all taxes related to central, state & municipal, inspection charges, transportation upto site, transit insurance, loading, unloading, stacking etc. complete. (20x15) PVC Ball Valve with Compression & Female Threads	1	Each	199.00	199
1.5	vol (i) -7.11.1.1	Providing and Supplying Blue MDPE pipes conforming to ISO 4427:1996 manufactured from virgin resin PE 80 Food grade compounded Raw Material having Blue Colour only with quality assurance certificate from quality agencies like WRC/ CIPET (India)/ DVGM/KIWA/SPGN etc. for usage in Drinking Water System The cost shall include testing of all materials, all taxes Central, State, Municipal, Inspection charges, transportation upto site, transitinsurance, loading, unloading, stacking etc. complete. PN 16 (SDR 9) (20mm)	5	Rm	38	190
1.6		Brass Ferrule / NRV for (15mm Dia), tested to 21.09kg/sq.cm. i/c boring and tapping the main.	1	No.	416	416
-	vol (i) -18.2.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil	2 07	Cum	151.00	448
1.8	vol (i) -18.2.8	Filling available excavated earth in trenches, plinth sides of foundation in layers not exceeding 20cm. In depth including consolidation of each layer by ramming watering, lead up to 50m and lift up to 1.5m in all kinds of soils	2.97	Cum	89.00	264
	То	tal Cost of Work for Providing 1 No. Domestic House Service	Connectio	n		2987
		Total Cost of Work for Providing 1 No. Domestic House Se	rvice Conn	ection		3000
						Amount (In Lacs)
Tot	al Cost for Prov	ding House service connections for500 connections	500.00		3000	15.00



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		11.13 Estimate For 1 KM of 33KV Line				
S. No	UADD SOR ITEM 2021	Particulars of Item of Work	Unit	Rate 2021	Qty	Amount 2021
1			111		V	
1.0		Supply of support for overhead line Rail pole of I.S.standard including welding, drilling of required hole etc. complete as required.				
	Vol-IV 13.2.6	H-Beam 152x152mm , Std weight 37.1 kg per meter	Mtr	1810.00	210	380100
2.0	Vol-IV 13.14	Erection of steel tubular or steel rail pole or H-Beam of length exceeding 10 meters but not exceeding 13 meters in cement concrete 1:36 (1 cement :3 coarse sand; 6 graded stone aggregate 40mm nominal size) foundation, base padding & muffing including excavation and refilling etc. as equired (4.55 bags of cement/cmt.)	Each	1855.00	16	29680
3.0	Vol-IV 15.13	4 mm G.I wire.	Each	241.00	16	3856
4.0		Supplying and fixing 33/11/0.4 KV enamel coated danger board size 200x250mm with clamp on existing HT/LT structure / poles.	Each	158.00	20	3160
5.0	Vol-IV 13.33	Erection of angle iron/channel iron cross arm on existing pole etc. as required.	Kg	110.00	516	56760
6.0	PWD SOR 2020(42.5)	Supplying and drawing All Aluminium Alloy conductor (AAAC) of approved make confirming to IS 398-1979 Pt. IV, including binding at existing insulator, jointing, jumpering, tearing off, connecting etc. as required including clearing of obstacles (if any)				
	PWD SOR 2020(42.5.4)	AAAC 0.1 sq inch (100 Sq.mm Al. EQ.) - (Dog) by PWD SOR as this rate not given in UADD SOR	Km.	72079.00	3.10	223444.90
7.0		Supplying and erection of 33kV pin insulator complete with large steel head G.I. pin, nut, washer etc. as required	Set	640.00	45	28800
B.0	Vol-IV 13.82	Supplying and erection of a set of three 11kV disc insulators for 33kV overhead lines with galvanised insulator fittings, ball and socket type, and complete with galvanised strain clamp, bolts, nuts, washers etc. as required.	Set	2132.00	8	17056
9.0	/ol-IV 13.62	Supplying and erection of galvanised stay set for 33kV overhead line complete with 19/20mm dia x 1.8 meters long stay rod, anchor plate of size 45cm x 45cm x 7.5mm thick, thimble, stay clamps, turn buckle (20mmx 600mm), 7/4.00mm dia G.I. stay wire and 33kV strain insulator etc. in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm. nominal size) foundation including excavation and refilling etc. as required.	Set	2050.00	6	12300
0.0		Aiscellaneous works like taping by gride, two structure pole & pole height increase as side condition etc	lump sump	50000.00	1	50000
Total for 1 Km Line						805156.9
Total for 1 Km Line (in LA						8.05

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-	Calculation of estimate Used 50R-UADD I Market rate - taken as per 50R of M.P.P.	ISSR (Vol.	(V) In force fo	om 02.09.202	1	en extincts	
S.N		UNIT	QUANTITY	1	1011-24	SOR	
	11 times	UNIT	QUANTITY	Applied Stem	RATE	AMOUNT	from No. & Page
(1)	DTR 33/0.4 KV PIS FE-Lawel-2 Supplying, installing	g. (3)	(9)	_(5)	_(4)		(4)
	testing and cremmissioning (repper secund)						
_	100KVA 125KVA (LS)	each	1	1	276295 30000	276296 0	
	180KVA (LS)	ent.h			365000	0	
	ZULVA	ench	1	-	401723	Ó	APPTIVITY FAM
	NSKVA	each	1		691939 238330	0	No. 42.79 8
_	35B.VA (LS) 400kVA (LS)	each	1		7,35000 840000	0	42.71 Fage 5 176,177
	SERVA	each	1	-	1011731	0	
_	ENR.VA	each			1143748 1368847	0	
_	1230KVA	each	-		1555010	0	
	16XXVA	each	1	-	1977223	0	
_	2000KVA	ench_			3054050 3729348	0	
2	2000CVA H-Brann 152 h 152 mm, 37.1 Kg:/Mtr-11 mtr Long * 400.1 kg	wach witr.	F/6		1810	11980	UALITY Hom ! 13.26 page 68
3	charmed of \$00 k%0 9.56 kg/mtr	Mg.	056		48	45668	UADD ftern
4	isa 50°30°60nm ang ha 4.590g/mitr	hg	180		48	8640	13.58 FW7
5	Supplying, installing, testing and commissioning of Lightning Arrestons 33to gaptess station type	each	3		11499	34197	UADD frem 1 15.12.3 page 88
•	33KV Polymer disc insulator	set.	21		2132	44772	UADD Item 13.82 page 77
7	338.V Polymer pin insulator		6		640	3840	UADD Item 13.81 page 78
	33kv 3ph CT/17 unti	nos	1		81232	81232	MPTWD1
	334-v 1ph CT/PT unit	nos	3		29043	87129	MPPWD Ite No. 42.125.2 42.126.2 Pa No. 192
0	outdoor with complete structure and accessories	nos	1		176601	176601	MPEB SOR 0201003
1	AAAC-conductor DCG	km	0.08		72079	5766.32	MPPWD Iu No. 425.4 P No 163
2	33kv isolator	nos	6		24581	147486	MPEB SOR 0201061
	supply & Exection of Stay set complete (Galvanized) 19 mm. Dia. * 1.8 meter long stay rod anchor plate of size Sittem#950mm*0.5mm dimble stay clamps, turn buckle (19mm durfof cm.). 7/4.00 mm dia G.I. Stay servened strain associator etc. in cement concrete 12.6(1 cmm). In commit 3 came eand 6 graded stone aggregate 40 mm. Hominal sizet foundation including excavation and entilling etc. as required.	each			2000	8000	UADD Iter No. 13.21 page No. 7
	familiam of steel tablar or steel rail pole or H-Boam of impth exceeding 10 meters but not exceeding 13 meters in exment concrete 13:06a cament 3 came sand 6 guided state aggregate 40 mm nominal state) foundation, have pudding & multing including excavation and refilling etc. as required (4.55 bags of cement/cmt)	each	6		1855	11130	UADD Item 1314 Page No 2
3	Yard than link ferav	Sq.met.	180		876	157680	MPPWD II No. 42.75 I No 178
6	Danger Bourds Examelled Type 23KV	A IOB			164	656	UADD Item 9.11.2 Page No
7	hets clashing devices	Trepp	6		116	696	MPPWD
- 1	Primer cost with aluminism paint, briothing complete with material and labour including prepriation of sortice	sutr.	66		55	3630	UADD Item
- 1	MS pouts gate	ficto.	ı		55091	55091	MPERSON COLOR
	Construction of pedestal (planti) for transferress	cu-met	3.12		7423	36374 4	MPFWD1 No. 42.871 No. 179
	Procedure to evend grass in sub-station yard having Marnam/Hard soil by laying stone cursher dust	Bug med	160		198	33640	MPER SOI 111000
	Earthing of substation nut and holts	Butp	1	MONORON SWA	50000	Sam	UADD Bes
		No.	50		50	2900	15.8 Page No
14	allied works	rach	1	-	10000	10000	hump w

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Arnual Alum consumption at the rate of 25 mg/l for 8 months and 50 mg/l for 4 months for 1.02 MLD. Total requirement of alum 30 x (25 x 8 + 50 x 4) x (1.02) x 106/(1000 x 1000 x 1000) 12.24 18000.00 MT	lo.	Description	Qty.	Rate in Rs.	Unit	Amount (In Lacs)
Well to Water Treatment Plant (For 107MLD Discharge 50 meters pumping head and 22 hours/day) q = 1.07 x 107/(22*360*1000) = 0.013 cumecs KWH = q x Head x 981 / pump elitekercy KWH = 0.013 x 50 x 981 / 0.80 = 8.28 kW say 10 kW KWH = q x Head x 981 / pump elitekercy KWH = 0.013 x 50 x 981 / 0.80 = 8.28 kW say 10 kW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 Annual Extriscal Charges for running pumps sets for clear water pumping from water treatment plant to various OHT's (For 1.02 MLD Discharge 55 meters head and 22 hours/day) q = 1.02 x 107/(22*360*1000) = 0.012 cumecs KWH = q x Head x 981 / pump elitekercy KWH = 0.012 x 53 x 981 / 0.72 = 9.92 kW 5ay 10 kW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300 KW KWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 MT 40600 40						
NWH = q x Head x 981 / pump efficiency NWH = 10 x 22 x 365 = 80300 R0300	ľ	Well to Water Treatment Plant (For 1.07MLD Discharge 50 meters pumping head and				
NWH-0013 x 50 x 98 / 0.80 = x28 KW say 10 KW		q = 1.07 x 10 ⁶ /(22*3600*1000) = 0.013 cumecs				
Namual Electrical Charges for running pumps sets for clear water pumping from water treatment plant to various OHTs (for 1.02 MLD Discharge 55 meters head and 22 hours/day) q = 1.02 × 107/(22*360*1000) = 0.012 cumecs NVH = qx Head x 9.81 / pump efficiency NVH = 0.012 x 55 x 9.81 / 0.70 = 9.92 NV Say 10 NV						
Annual Electrical Charges for running pumps sets for clear water pumpling from water treatment plant to various OHTs (For 1.02 MLD Discharge 55 meters head and 22 hours/day)	-		80300		Ì	
NWH = Q	t	Annual Electrical Charges for running pumps sets for clear water pumpling from water treatment plant to various OHT's (For 1.02 MLD Discharge 55 meters head and 22				
NWH - 0.012 x \$5 x 9.81 / 0.70 = 9.92 kW Say 10 kW WWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 Total Electrical Consumption						
NWH for one year (22 hrs operation) = 10 x 22 x 365 =80300 80300						
Total Electrical Consumption 160600 8.00 KW			80300	1		
Consumption of Chemicals: Annual Alum consumption at the rate of 25 mg/l for 8 months and 50 mg/l for 4 months for 1.02 M.D. Total requirement of alum 30 x (25 x 8 + 50 x 4) x (1.02) x 10 ² /(1000 x 1000 x 1000) 12.24 18000.00 MT MT MT MT MT MT MT	1	KWH for one year (22 hrs operation) = 10 x 22 x 363 -60300				
Annual Alum consumption at the rate of 25 mg/l for 8 months and 50 mg/l for 4 months for 1.02 MLD. Total requirement of alum		Total Electrical Consumption	160600	8.00	KW	12.85
Annual Alum consumption at the rate of 25 mg/l for 8 months and 50 mg/l for 4 months for 1.02 MLD. Total requirement of alum	I				-	
months for 1.02 MLD. Total requirement of alum 12.24 18000.00 MT 30 x (25 x 8 + 50 x 4) x (1.02) x 10°/(1000 x 1000) 12.24 18000.00 MT 1.02 x 8.5 x 30 x 12 x 10°/(1000 x 1000 x 1000) MT 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.00 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.00 x 3.5 x 30 x 12/1000 1.29 30000.00 MT 1.29 30000.00	C	Consumption of Chemicals :			_	
30 x (25 x 8 + 50 x 4) x (1.02) x 10 ⁶ /(1000 x 10000 x 10000) 12.24 18000.00 MT	A	Annual Alum consumption at the rate of 25 mg/1 for 8 months and 50 mg/1 for 4				
(ii) Lime 4 MT per MLD for 1.02 MLD (iii) Chlorine consumption @ 3.50 P.P.M. for 1.02 MLD 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT (iv) Laboratory maintenance cost L.S 3 Maintenance of civil structures pumps etc. (i) Intake well, raw water pump house, Clear water pump house & WTP & OHTS & existing WTP and existing Intake well @1 % of indidual component cost Clear water and Raw water and Feeder Pumping Main & existing rising main @ 1/2 % of indidual component Clear water and Raw water and Feeder Pumping Main & existing rising main @ 1/2 % of indidual component 4 Salary and wages (i) 1 Project manager @ Rs 50,000/pm (ii) 1 operator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell 27,360 iii) 5 skilled staff @12600 for WTP 2 skilled staff @12600 for WTP 1 12,600 2 1 chemist @ 17790 for WTP 1 17,790 1 Chemist @ 17790 for WTP 1 17,790 1 Tonskilled staff @ Rs 12600/- for each OHT (4 Nos) (v) 1 Valve man for Rising/Feeder main of 7.5 km @ Rs 14760/- 1 for per 5 KM 14,760 5 Valve man for distribution main of 50km @ Rs 14760/- 1 for per 5 KM 14,760 5 Valve man for distribution main of 50km @ Rs 14760/- 1 for per 10.00 KM			12.24	18000.00	MT	2.20
iii) Chlorine consumption @ 3.50 P.P.M. for 1.02 MLD 1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT iv) Laboratory maintenance cost L.S 3 Maintenance of civil structures pumps etc. Intake well, raw water pump house, Clear water pump house & WTP & OHTS & existing WTP and existing Intake well @1 % of indidual component cost Clear water and Raw water and Feeder Pumping Main & existing rising main @ 1/2 % of indidual component Clear water and Raw water and Feeder Pumping Main & existing rising main @ 1/2 % of indidual component Proposed & existing Distribution @ 1/2 % of indidual component 1 Project manager @ Rs 50,000/pm 1 Project manager @ Rs 50,000/pm 1 poperator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell 2 Salary and wages 1 poperator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell 2 poperator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell 1 nonskilled staff @ 12600 for WTP 2 skilled staff @ 14760 for WTP 1 lectrician @ 17790 for WTP 1 Chemist @ 17790 for WTP 1 townskilled staff @ Rs 12600/- for each OHT (4 Nos) 1 valve man for Rising/Feeder main of 7.5 km @ Rs 14760/- for 1 per 10.00 KM 2 National Support Sup	+	0 X (25 X 0 · 30 X 4) X (1.02) X 10 / (1000 X 1000 X 1000 X				
1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT Laboratory maintenance cost L.S.	L	ime 4 MT per MLD for 1.02 MLD	4.08	10000.00	MT	0.41
1.02 x 3.5 x 30 x 12/1000 1.29 30000.00 MT Laboratory maintenance cost L.S.					├—	
iv) Laboratory maintenance cost L.S			1 20	30000.00	MT	0.39
Maintenance of civil structures pumps etc. (i) Intake well, raw water pump house, Clear water pump house & WTP & OHTS & existing WTP and existing Intake well @1 % of indidual component cost (ii) Clear water and Raw water and Feeder Pumping Main & existing rising main @ 1/2 % of indidual component (iii) Proposed & existing, Distribution @ 1/2 % of indidual component 4 Salary and wages (i) 1 Project manager @ Rs 50,000/pm 5 1 Operator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell 7 Inonskilled staff @ 12600 for WTP 2 skilled staff @ 14760 for WTP 1 Electrician @ 17790 for WTP 1 Chemist @ 17790 for WTP 1 Chemist @ 17790 for WTP 1 Chemist @ 17790 for WTP 1 Inonskilled staff @ Rs 12600/- for each OHT (4 Nos) (v) 1 valve man for Rising/Feeder main of 7.5 km @ Rs 14760/- for 1 per 15 KM 1 Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10,00 KM 73 800	11.	.02 x 3.5 x 30 x 12/1000	1.27	30000.00	 	
Intake well, raw water pump house, Clear water pump house & WTP & OHTs & existing WTP and existing Intake well @1 % of indidual component cost Clear water and Raw water and Feeder Pumping Main & existing rising main @ 1/2 % of indidual component Proposed & existing Distribution @ 1/2 % of indidual component Salary and wages 1	Li	aboratory maintenance cost	L.S.	-	-	1.00
Intake well, raw water pump house, Clear water pump house & WTP & OHTs & existing WTP and existing Intake well @1 % of indidual component cost Clear water and Raw water and Feeder Pumping Main & existing rising main @ 1/2 % of indidual component Proposed & existing Distribution @ 1/2 % of indidual component Salary and wages 1	1	faintenance of sivil structures numps ats			-	-
existing WTP and existing Intake well @1 % of indidual component cost Clear water and Raw water and Feeder Pumping Main & existing rising main @ 1/2 % of indidual component Proposed & existing Distribution @ 1/2 % of indidual component Salary and wages In Project manager @ Rs 50,000/pm In operator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell Sakilled/nonskilled staff for Water Treatment Plant In nonskilled staff @ 12600 for WTP Sakilled staff @ 14760 for WTP Sakilled staff @ 14760 for WTP Inchemist @ 17790 for WTP In chemist @ 17790 for WTP In nonskilled staff @ Rs 12600/- for each OHT (4 Nos) Vi I valve man for Rising/Feeder main of 7.5 km @ Rs 14760/- for 1 per 10.00 KM Vi S Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10.00 KM	IN 2	namienance of civil structures pumps etc.			1	
of indidual component iii) Proposed & existing Distribution @ 1/2 % of indidual component 4 Salary and wages (i) 1 Project manager @ Rs 50,000/pm (ii) 1 operator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell 27,360 iii) 5 skilled/nonskilled staff for Water Treatment Plant 1 nonskilled staff @ 12600 for WTP 2 skilled staff @ 14760 for WTP 1 Electrician @ 17790 for WTP 1 Chemist @ 17790 for WTP 1 Chemist @ 17790 for WTP 1 nonskilled staff @ Rs 12600/- for each OHT (4 Nos) (v) 1 valve man for Rising/Feeder main of 7.5 km @ Rs 14760/- for 1 per 10.00 KM 73 800			-	-	-	1.65
4 Salary and wages (i) 1 Project manager @ Rs 50,000 / pm 50,000 (ii) 1 operator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell 27,360 (iii) 5 skilled/nonskilled staff for Water Treatment Plant 1 nonskilled staff @ 12600 for WTP 12,600 2 skilled staff @ 14760 for WTP 29,520 1 Electrician @ 17790 for WTP 17,790 1 Chemist @ 17790 for WTP 17,790 (iv) 1 nonskilled staff @ Rs 12600/- for each OHT (4 Nos) 50,400 (v) 1 valve man for Rising,/Feeder main of 7.5 km @ Rs 14760/- for 1 per 10,00 KM 73,800				-	-	1.27
(i) 1 Project manager @ Rs 50,000 pm 50,000	Pr	roposed & existing Distribution @ 1/2 % of indidual component			-	1.92
(i) 1 Project manager @ Rs 50,000 pm 50,000	Ic.	alary and wasses			ـــــ	
(ii) 1 operator © 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell 27,360 iii) 5 skilled/nonskilled staff for Water Treatment Plant 1 nonskilled staff @12600 for WTP 12,600 2 skilled staff @ 14760 for WTP 29,520 1 Electrician © 17790 for WTP 17,790 1 Chemist © 17790 for WTP 17,790 iv) 1 nonskilled staff @ Rs 12600/- for each OHT (4 Nos) 50,400 (v) 1 valve man for Rising/Feeder main of 7.5 km @ Rs 14760/- 1 for per 5 KM 14,760 vi) 5 Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10,00 KM 73,800	1	Project manager @ Rs 50 000 / nm	50,000		-	
5 skilled/nonskilled staff for Water Treatment Plant 12,600 2 skilled staff @12600 for WTP 12,600 2 skilled staff @ 14760 for WTP 29,520 1 Electrician @ 17790 for WTP 17,790 1 Chemist @ 17790 for WTP 17,790 17,790 1 nonskilled staff @ Rs 12600/- for each OHT (4 Nos) 50,400 1 valve man for Rising/Feeder main of 7.5 km @ Rs 14760/- 1 for per 5 KM 14,760 5 Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10.00 KM 73,800	1 (operator @ 14760 and 1 nonskilled staff @ Rs 12600/- for Intakewell			-	
2 skilled staff © 14760 for WTP 29,520 1 Electrician © 17790 for WTP 17,790 1 Chemist © 17790 for WTP 17,790 iv) 1 nonskilled staff © Rs 12600/- for each OHT (4 Nos) 50,400 (v) 1 valve man for Rising,/Feeder main of 7.5 km @ Rs 14760/- 1 for per 5 KM 14,760 vi) 5 Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10.00 KM 73,800	5 :	skilled/nonskilled staff for Water Treatment Plant			1	
1 Electrician © 17790 for WTP	11	nonskilled staff @12600 for WTP	12,600			
1 Chemist © 17790 for WTP 17,790 iv) 1 nonskilled staff © Rs 12600/- for each OHT (4 Nos) 50,400 iv) 1 valve man for Rising,/Feeder main of 7.5 km @ Rs 14760/- 1 for per 5 KM 14,760 vi) 5 Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10.00 KM 73,800	2:	skilled staff @ 14760 for WTP	29,520			
iv) 1 nonskilled staff @ Rs 12600/- for each OHT (4 Nos) 50,400 50,400 1 valve man for Rising/Feeder main of 7.5 km @ Rs 14760/- 1 for per 5 KM 14,760 vi) 5 Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10.00 KM 73,800 73,800 73,800 73,800 73,800 73,800 73,800 73,800 73,800 73,800 73,800 73,800 73,800 74,750 74,750 74,750 75,750 7						
(v) 1 valve man for Rising,/ Feeder main of 7.5 km @ Rs 14760/- 1 for per 5 KM 14,760 vi) 5 Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10.00 KM 73.800	1	nonskilled staff @ Rs 12600/_ (or each OUT (4 New)				
vi) 5 Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10.00 KM 73.800	1	valve man for Rising / Feeder main of 7.5 km @ Rs 14760 / 1 for por 5 KM				
73.800 / 73.800	51	Valve man for distribution main of 50km @ Rs 14760/- for 1 per 10 00 KM			-	
Total expenditure on salary and wages for 12 Mounts		Total expenditure on salary and wages for 12 Months				
Miscellaneous/Contengencies for Staff Fstablishment @10% of total sales.	М	fiscellaneous/Contengencies for Staff Establishment @10% of total salary			-	35,28
	4		3,34,024		-	3.53
Total O/M amount for 1 year Excluding Electrical Consumption Charges	+	Total O/M amount for 1 year Excluding Electrical Consumption Charges			-	60.49
Wages for Skilled, Semi Skilled and Un-Skilled workers has been considered as per order of Ministry of Labours and Emporer. File No. 1/VDA(3)/2020-LS-11. Government of India, Ministry of Labour and Employment, Office of Chief Labour Constitution (1975) (W	ages for Skilled, Semi Skilled and Un-Skilled workers has been considered as year	rder of Mint		٠	47.64

मुख्य नगर पालिका अधिकारी नगर परिषद् नईगढ़ी जिला रीवा (म.प्र.)