

Schedule

NAME OF WORK : OUTSOURSING OF OPERATION AND MAINTENANCE OF 20 MGD WSS & ASIDE WSS IN THOOTHUKUDI DISTRICT FOR THE YEAR PERIOD FROM 16.07.2022 TO 31.03.2023

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
1	Operation and Maintenance of the Electro Mechanical installations, equipments, components, pipelines valves and appurtenances, water retaining structures including protecton of all schemee components from damages/ theft undertaking legal actions for such untoward incidents, preventive maintenance, disinfection and deliverance of water as per quality standards and supply of earmarked quantity of water to the beneficiaries as per Annexure, carrying out the O&M as per standard operating procedures, Acts and rules in force etc., complete and as directed by TWAD Board Oficers and excluding cost towards attending leak, burst repair and replacement works to electro mechanical installations consumables for disinfection of water, cleaning of all water retaining structure, electricity .	7653.45	ML	Special Specifications	586.49	Five hundred and eighty six and paise forty nine only	4488671.89
2.a)	Attending collar Leaks occurred in all the size, class and material of pipes in all the pipelines of this CWSS for the following items round the clock as per the standard specifications including earthwork excavation ,removal of slushy soil , labour charges, civil works, cost of materials, dewatering , genset, welding unit,and providing night lamps, barrigading arrangements, caution sign boards ,traffic diversion arrangements and all other incidental charges, etc complete within the stipulated time limit as specified in Clause 2.8 of General conditions of Contract Part II.and as directed by TWAD Board officers						

Contractor

Sd/-*****
Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
i)	Earth work excavation and depositing on bank in hard stiff clay, stiff black cotton soil, hard red earth, shales, murrums, ordinary gravel stoney earth mixed with small sized boulders etc., for leak rectification works for the following sizes of PSC pipes with standard trench width and depth etc., complete and as directed by the TWAD Board officers.			SS 20 B, 95 and Special specifications			
a)	For AC Pipes of various classes	3.753	m3		483.00	Four hundred and eighty three only	1812.70
b)	For PSC Pipes of various classes	47.426	m3		483.00	Four hundred and eighty three only	22906.76
c)	For CI Pipes of Various Classes	9.123	m3		483.00	Four hundred and eighty three only	4406.41
ii)	Supply and delivery of lead wool as per sample including loading, unloading and transportation charges etc. complete and as directed by TWAD Bd. Officers			Special Specifications			
	250 mm AC of Various Classes	2.00	Kg		380.00	Three hundred and eighty only	760.00
	250 mm dia CI Pipe Various Classes	5.00	Kg		380.00	Three hundred and eighty only	1900.00
	350 mm dia PSC Pipe Various Classes	2.00	Kg		380.00	Three hundred and eighty only	760.00
	600 mm dia PSC Pipe Various Classes	3.00	Kg		380.00	Three hundred and eighty only	1140.00

Contractor

Sd/-*****
Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
	700 mm dia PSC Pipe Various Classes	5.00	Kg		380.00	Three hundred and eighty only	1900.00
	800 mm dia PSC Pipe Various Classes	6.00	Kg		380.00	Three hundred and eighty only	2280.00
	1200 mm dia PSC Pipe Various Classes	8.00	Kg		380.00	Three hundred and eighty only	3040.00
	Supply and delivery of MS Barrel for 250mm CI Pipe as per sample including loading, unloading and transportation charges etc. complete and as directed by TWAD Bd. Officers	18.49	Kg		114.00	One hundred and fourteen only	2107.86
iii)	Supply and delivery of Hard crete oil as per sample including loading, unloading and transportation charges etc. complete and as directed by TWAD Bd. Officers			Special Specifications			
	250 mm AC of Various Classes	1.00	lit		105.00	One hundred and five only	105.00
	250 mm dia CI Pipe Various Classes	2.00	lit		105.00	One hundred and five only	210.00
	350 mm dia PSC Pipe Various Classes	1.00	lit		105.00	One hundred and five only	105.00
	600 mm dia PSC Pipe Various Classes	3.00	lit		105.00	One hundred and five only	315.00
	700 mm dia PSC Pipe Various Classes	5.00	lit		105.00	One hundred and five only	525.00
	800 mm dia PSC Pipe Various Classes	7.00	lit		105.00	One hundred and five only	735.00
	1200 mm dia PSC Pipe Various Classes	9.00	lit		105.00	One hundred and five only	945.00
iv)	Supply and delivery of cement as directed by TWAD Board Officers.			SS 10 and Special Specification			
	250 mm AC of Various Classes	3.00	Kg		5.96	Five and paise ninety six only	17.88
	250 mm dia CI Pipe Various Classes	4.00	Kg		5.96	Five and paise ninety six only	23.84

Contractor

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Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
	350 mm dia PSC Pipe Various Classes	6.00	Kg		5.96	Five and paise ninety six only	35.76
	600 mm dia PSC Pipe Various Classes	9.00	Kg		5.96	Five and paise ninety six only	53.64
	700 mm dia PSC Pipe Various Classes	12.00	Kg		5.96	Five and paise ninety six only	71.52
	800 mm dia PSC Pipe Various Classes	15.00	Kg		5.96	Five and paise ninety six only	89.40
	1200 mm dia PSC Pipe Various Classes	20.00	Kg		5.96	Five and paise ninety six only	119.20
v)	Dewatering using 5HP diesel engine pumpset including Hire charges, cost of Diesel, Engine oil, pump operator, labour charges, conveyance of pumpset and fuel to site and back, loading, unloading and any other incidental charges etc., complete. And as directed by TWAD Board officers			Special Specification			
	250 mm AC of Various Classes	1.00	Hours		296.50	Two hundred and ninety six and paise fifty only	296.50
	250 mm dia CI Pipe Various Classes	2.00	Hours		296.50	Two hundred and ninety six and paise fifty only	593.00
	350 mm dia PSC Pipe Various Classes	2.00	Hours		296.50	Two hundred and ninety six and paise fifty only	593.00
	600 mm dia PSC Pipe Various Classes	4.00	Hours		296.50	Two hundred and ninety six and paise fifty only	1186.00
	700 mm dia PSC Pipe Various Classes	6.00	Hours		296.50	Two hundred and ninety six and paise fifty only	1779.00
	800 mm dia PSC Pipe Various Classes	8.00	Hours		296.50	Two hundred and ninety six and paise fifty only	2372.00
	1200 mm dia PSC Pipe Various Classes	10.00	Hours		296.50	Two hundred and ninety six and paise fifty only	2965.00

Contractor

Sd/-*****
Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
vi)	Refilling with excavated soil (other than sand) complying with standard specification in layers of 15cm watered well rammed and consolidated after the pipes and specials are laid, jointed and tested etc. and removing and depositing the surplus earth at the places shown by the TWAD Board Officers.			SS 24, 95 and Special specifications			
	For AC Pipes of various classes	3.753	m3		33.60	Thirty three and paise sixty only	126.10
	For PSC Pipes of various classes	47.426	m3		33.60	Thirty three and paise sixty only	1593.51
	For CI Pipes of various classes	9.123	m3		33.60	Thirty three and paise sixty only	306.53
b)	Attending Leaks occurred in all the size, class and material of pipes in all the pipelines of this CWSS for the following items with MS Clampsets, Welding and MS Barrel round the clock as per the standard specifications including earthwork excavation, removal of slushy soil, labour charges, civil works, cost of materials, dewatering, and providing night lamps, barricading arrangements, caution sign boards, traffic diversion arrangements and all other incidental charges, etc complete within the stipulated time limit as specified in Clause 2.8 of General conditions of Contract Part II. and as directed by TWAD Board officers.						
i)	Earth work excavation and depositing on bank in hard stiff clay, stiff black cotton soil, hard red earth, shales, murrums, ordinary gravel stoney earth mixed with small sized boulders etc., for leak rectification works for the following sizes of AC pipes with standard trench width and depth etc., complete and as directed by the TWAD Board officers.			SS 20 B, 23, 95 and Special specifications			
	For AC Pipes of various classes	3.363	m3		483.00	Four hundred and eighty three only	1624.33
	For PSC Pipes of various classes	103.199	m3		483.00	Four hundred and eighty three only	49845.12

Contractor

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Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
	For CI Pipes of Various Classes	4.484	m3		483.00	Four hundred and eighty three only	2165.77
	For HDPE Pipes of various classes	43.927	m3		483.00	Four hundred and eighty three only	21216.74
	For MS Pipes of various Classes	40.948	m3		483.00	Four hundred and eighty three only	19777.88
ii)	Supply and delivery of Leak Arresting Flexible MS Clamp. Suitable width of the clamps to be decided by the engineer incharge at site depending on the nature of pipe crack.			Special specifications			
	MS Clamp For 250 mm AC Pipe	1.00	No		2395.26	Two thousand three hundred and ninety five and paise twenty six only	2395.26
	For 250 mm CI Class 15 Pipe	1.00	No		2395.26	Two thousand three hundred and ninety five and paise twenty six only	2395.26
	50 mm x 6mm IS MS Flat For 1000mm MS Pipe	3.53	Kg		80.00	Eighty only	282.60
	For 350 mm MS Clamp for various classes Pipe	1.00	No		3832.80	Three thousand eight hundred and thirty two and paise eighty only	3832.80
	For 600 mm MS Clamp for various classes Pipe	1.00	No		5406.66	Five thousand four hundred and six and sixty six only	5406.66
	For 700 mm MS Clamp for various classes Pipe	1.00	No		5898.98	Five thousand eight hundred and ninety eight and paise ninety eight only	5898.98
	For 800 mm MS Clamp for various classes Pipe	1.00	No		6230.72	Six thousand two hundred and thirty and paise seventy two only	6230.72
	For 1200 mm MS Clamp for various classes Pipe	2.00	No		8110.58	Eight thousand one hundred and ten and paise fifty eight only	16221.16
	315 mm dia HDPE Pipe Various Classes	1.00	No		3832.80	Three thousand eight hundred and thirty two and paise eighty only	3832.80

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Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
	355 mm dia HDPE Pipe Various Classes	1.00	No		3832.80	Three thousand eight hundred and thirty two and paise eighty only	3832.80
	250 mm dia HDPE Pipe Various Classes	1.00	No		2948.16	Two thousand nine hundred and forty eight and paise sixteen only	2948.16
	280 mm dia HDPE Pipe Various Classes	1.00	No		2395.26	Two thousand three hundred and ninety five and paise twenty six only	2395.26
	140 mm dia HDPE Pipe Various Classes	1.00	No		1681.78	One thousand six hundred and eighty one and paise seventy eight only	1681.78
	110 mm dia HDPE Pipe Various Classes	1.00	No		1681.78	One thousand six hundred and eighty one and paise seventy eight only	1681.78
	90 mm dia HDPE Pipe Various Classes	1.00	No		1681.78	One thousand six hundred and eighty one and paise seventy eight only	1681.78
vi)	Dewatering using 5HP diesel engine pumpset including Hire charges, cost of Diesel, Engine oil, pump operator, labour charges, conveyance of pumpset and fuel to site and back, loading, unloading and any other incidental charges etc., complete. And as directed by TWAD Board officers			Special specifications			
	250 mm AC Class 15	2.00	Hour		296.50	Two hundred and ninety six and paise fifty only	593.00
	250 mm dia CI Pipe	2.00	Hour		296.50	Two hundred and ninety six and paise fifty only	593.00
	1000 mm dia x 6 mm thick MS Pipe(5HP)	36.00	Hour		296.50	Two hundred and ninety six and paise fifty only	10674.00
	350 mm dia PSC Pipe Various Classes	3.00	Hour		296.50	Two hundred and ninety six and paise fifty only	889.50
	600 mm dia PSC Pipe Various Classes	6.00	Hour		296.50	Two hundred and ninety six and paise fifty only	1779.00
	700 mm dia PSC Pipe Various Classes	8.00	Hour		296.50	Two hundred and ninety six and paise fifty only	2372.00

Sd/-*****

Contractor

Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
	800 mm dia PSC Pipe Various Classes	24.00	Hour		296.50	Two hundred and ninety six and paise fifty only	7116.00
	1200 mm dia PSC Pipe Various Classes	32.00	Hour		296.50	Two hundred and ninety six and paise fifty only	9488.00
	315 mm dia HDPE Pipe Various Classes	4.00	Hour		296.50	Two hundred and ninety six and paise fifty only	1186.00
	355 mm dia HDPE Pipe Various Classes	5.00	Hour		296.50	Two hundred and ninety six and paise fifty only	1482.50
	250 mm dia HDPE Pipe Various Classes	2.00	Hour		296.50	Two hundred and ninety six and paise fifty only	593.00
	280 mm dia HDPE Pipe Various Classes	2.00	Hour		296.50	Two hundred and ninety six and paise fifty only	593.00
	140 mm dia HDPE Pipe Various Classes	1.00	Hour		296.50	Two hundred and ninety six and paise fifty only	296.50
	110 mm dia HDPE Pipe Various Classes	1.00	Hour		296.50	Two hundred and ninety six and paise fifty only	296.50
	90 mm dia HDPE Pipe Various Classes	1.00	Hour		296.50	Two hundred and ninety six and paise fifty only	296.50
	Hire Charges for Genset including Labour Charges for Operating the equipments and cost of Fuel for Eight Hours Operation, including conveyance to the site etc., complete and as directed by the TWAD Board officers.						
	30 KVA Genset	1.00	Day		2000.00	Two thousand only	2000.00
	Diesel	48.00	Lit		92.00	Ninety two only	4416.00
	Operater Charges	14.00	Days		550.00	Five hundred and fifty only	7700.00
	Welding Charges for welding cutopened Manhole including welding of lapping strips, including Labour Charges for Operating the equipments for Eight Hours Operation and including Grinding and allied works etc.,						

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SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
	Welding Machine AR 400	1.00	Day		600.00	Six hundred only	600.00
	Welding rod at the rate of 80 Rods per 1 m of 1/2" welding in 2 layer (Local Rate)	464.00	Nos		3.44	Three and paise forty four only	1596.16
	Welder Charges (1st Class)	2.00	Day		661.00	Six hundred and sixty one only	1322.00
vii	Refilling with excavated soil (other than sand)complying with standard specification in layers of 15cm watered well rammed and consolidated after the pipes and specials are laid,jointed and tested etc. and removing and depositing the surplus earth at the places shown by the TWAD Board Officers.			SS 24, 95 and Special specifications			
	For AC Pipes of various classes	3.36	m3		33.60	Thirty three and paise sixty only	113.00
	For PSC Pipes of various classes	103.20	m3		33.60	Thirty three and paise sixty only	3467.52
	For CI Pipes of Various Classes	4.48	m3		33.60	Thirty three and paise sixty only	150.66
	For HDPE Pipes of various classes	43.93	m3		33.60	Thirty three and paise sixty only	1476.05
	For MS Pipes of various Classes	40.95	m3		33.60	Thirty three and paise sixty only	1375.92
c)	Attending burst occurred in all the size, class and material of pipes in all the pipelines of this CWSS for the following items with replacing the pipes round the clock as per the standard specifications including earthwork excavation ,removal of slushy soil , labour charges, civil works, cost of materials, dewatering , genset, welding unit,and providing night lamps, barrigading arrangements, caution sign boards ,traffic diversion arrangements and all other incidental charges, etc complete within the stipulated time limit as specified in Clause 2.8 of General conditions of Contract Part II.and as directed by TWAD Board officers						

Contractor

Sd/-*****
Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
i)	Earth work excavation and depositing on bank in hard stiff clay, stiff black cotton soil, hard red earth, shales, murrums, ordinary gravel stoney earth mixed with small sized boulders etc., for leak rectification works for the following sizes of AC pipes with standard trench width and depth etc., complete and as directed by the TWAD Board officers.			SS 20 B,23, 95 and Special specifications			
	For PVC Pipes of various classes	11.219	m3		96.60	Ninety six and paise sixty only	1083.76
	For AC Pipes of various classes	5.004	m3		96.60	Ninety six and paise sixty only	483.39
ii)	Supply and delivery of the following sizes of pipes and specials confirming to IS other specifications as amended from time to time with ISI marking as specified in ISI and having the required working pressure and delivery at site of work including loading, unloading, freight, stacking and transit, insurance charges, etc., complete and as directed by TWAD Board officers.			IS 4985/2000, IS 8329/2000 and IS 3589/2001 and as amended from time to time and special specification			
	50mm PVC 6KSC	2.00	m		69.50	Sixty nine and paise fifty only	139.00
	63mm PVC 4KSC	2.00	m		78.50	Seventy eight and paise fifty only	157.00
	75mm PVC 4KSC	2.00	m		109.00	One hundred and nine only	218.00
	90mm PVC 4 KSC	2.00	m		151.00	One hundred and fifty one only	302.00
	110mm PVC 4KSC	2.00	m		216.50	Two hundred and sixteen and paise fifty only	433.00
	140mm PVC 4KSC	2.00	m		357.50	Three hundred and fifty seven and paise fifty only	715.00
	250 mm DI K7 Class	4.00	m		2797.00	Two thousand seven hundred and ninety seven only	11188.00

Contractor

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Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
iii)	Supply and delivery of following sizes of Specials conforming to IS specifications at site of work including loading, unloading, transportation, insurance, etc., Complete and as directed by TWAD Bd. officers.			IS 10124/1982 Part - II, IS 9523/2000 and amended from time to time and special specification			
	50 mm PVC Coupler Fabricated 6 KSC	2.00	Nos		7.00	Seven only	14.00
	63 mm PVC Coupler Fabricated 4 KSC	2.00	Nos		9.00	Nine only	18.00
	75 mm PVC Coupler Fabricated 4 KSC	2.00	Nos		13.00	Thirteen only	26.00
	90 mm PVC Coupler Fabricated 4 KSC	2.00	Nos		21.00	Twenty one only	42.00
	110 mm PVC Coupler Fabricated 4 KSC	2.00	Nos		33.00	Thirty three only	66.00
	140 mm PVC Coupler Fabricated 4 KSC	2.00	Nos		60.00	Sixty only	120.00
	250mm MJ Collars for DI pipe	2.00	Nos		7747.00	Seven thousand seven hundred and forty seven only	15494.00
iv)	Removing following the burst Pipes from the pipe line and removal of slushy soil and baling out water and replacing the pipe line with sound pipe including jointing and cost of refilling the pipe line with water for retesting the pipe line etc complete (excluding cost of sound pipe and jointing materials and earth work) and as directed by the TWAD Board Officers			special specification			
	50mm PVC 6KSC	1.00	Nos		339.90	Three hundred and thirty nine and paise ninety only	339.90
	63mm PVC 4KSC	1.00	Nos		339.90	Three hundred and thirty nine and paise ninety only	339.90
	75mm PVC 4KSC	1.00	Nos		426.80	Four hundred and twenty six and paise eighty only	426.80
	90mm PVC 4 KSC	1.00	Nos		568.30	Five hundred and sixty eight and paise thirty only	568.30

Contractor

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Sl.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
	110mm PVC 4KSC	1.00	Nos		690.10	Six hundred and ninety and paise ten only	690.10
	140mm PVC 4KSC	1.00	Nos		1010.40	One thousand and ten and paise forty only	1010.40
	250 mm dia AC Class 15 Pipe	1.00	Nos		2276.40	Two thousand two hundred and seventy six and paise forty only	2276.40
3.a)	Carrying out the following repair works occurring during the maintenance period in the Electrical, Mechanical and Electro-mechanical items to bring back the scheme / components into normal running condition as per standard specification including all labour charges, cost of materials and all incidental charges within the stipulated time limit etc., complete as specified in Clause 2.8 of General conditions of Contract Part II etc as directed by TWAD Board officers			special specification			
i)	Rewinding of motor and repair works to 3 HP Centrifugal motor (260 LPM X 15 M) including cost of all material ,conveyance ,labour charges for removing and re-erection pumpset at Alum Tank - 2 Nos	1	Nos		15700.00	Fifteen thousand and seven hundred only	15700.00
ii)	Rewinding of motor and reconditioning pump and repair works to 7.5 HP Monobloc Pump set including cost of all material ,conveyance ,labour charges for removing and re-erection of Monobloc Pump set in Alum stirrer at Mnajalnerkayal	1	Nos		27500.00	Twenty seven thousand and five hundred only	27500.00
iii)	Rewinding of motor and reconditioning pump and repair works to 5 HP Monobloc Pump set in Flash mixer including cost of all material ,conveyance ,labour charges for removing and re-erection of Monobloc Pump set - 2 Nos	1	Nos		22000.00	Twenty two thousand only	22000.00
iv)	Rewinding of motor and reconditioning pump and repair works to 3 HP Monobloc Pump set including cost of all material ,conveyance ,labour charges for removing and re-erection of Monobloc Pump set at Clarifloculator Traction unit - 2 Nos	1	Nos		17500.00	Seventeen thousand and five hundred only	17500.00

Contractor

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Sl. No.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
					Rs. P	In words	Rs.
v)	Rewinding of motor and reconditioning pump and repair works to 2 HP Monobloc Pump set including cost of all material ,conveyance ,labour charges for removing and re-erection of Monobloc Pump set at Clarifloculator centre drive - 2 Nos	1	Nos		14000.00	Fourteen thousand only	14000.00
vi)	Rewinding of motor and reconditioning pump and repair works to 7.5 HP Openwell submersible in Sludge Pump House (2200LPM x 8m) Pump set including cost of all material ,conveyance ,labour charges for removing and re-erection of Pump set - 2 Nos	1	Nos		28800.00	Twenty eight thousand and eight hundred only	28800.00
vii)	Rewinding of motor and reconditioning pump and repair works to 100 HP HSC Motor (27240LPM x10m) including cost of all material ,conveyance ,labour charges for removing and re-erection of HSC Motor at Backwash pump set - 2 Nos	1	Nos		85000.00	Eighty five thousand only	85000.00
viii)	Rewinding of motor and reconditioning pump and repair works to 15 HP HSC Motor (3600LPM x18m) including cost of all material ,conveyance ,labour charges for removing and re-erection at wash water- Nos	1	Nos		25000.00	Twenty five thousand only	25000.00
ix)	Rewinding of motor and reconditioning pump and repair works to 25 HP Openwell submersible in House Pump set including cost of all material ,conveyance ,labour charges for removing and re-erection of Pump set in Mullakadu ASIDE Pump room - 2 Nos	1	Nos		52900.00	Fifty two thousand and nine hundred only	52900.00
b)	Repair/ reconditioning			special specification			
1	Repair and reconditioning works to 3 HP Centrifugal Pump including cost of all material exluding Bronze impeller,conveyance ,labour charges for removing and re-erection of submersible pumpset at Alum - 1 Nos	1	Nos		9800.00	Nine thousand and eight hundred only	9800.00
2	Rewinding of motor and reconditioning pump and repair works to 15 HP HSC Pump set (3600LPM x18m) including cost of all material ,conveyance ,labour charges for removing and re-erection of Pump set at wash water- 2 Nos	1	Nos		16000.00	Sixteen thousand only	16000.00

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Sl.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
3	Rewinding of motor and reconditioning pump and repair works to 135 HP Vertical Turbine Pump (31600LPM X 15 M) including cost of all material ,conveyance ,labour charges for removing and re-erection of HTVT pumpset at Clear water - 3 Nos	1	Nos		137500.00	One lakh thirty seven thousand and five hundred only	137500.00
4	Repair and reconditioning works to 100 HP (15977LPM x22m) HSC Pump Set including cost of all material exluding Bronze impeller,conveyance ,labour charges for removing and re-erection of HSC pumpset at TTPS Booster station - 1 No	1	Nos		50000.00	Fifty thousand only	50000.00
c)	Repair and reconditioning of starter			special specification			
i)	Supply and delivery of 9 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	Nos		827.00	Eight hundred and twenty seven only	827.00
ii)	Supply and delivery of 12 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	Nos		961.00	Nine hundred and sixty one only	961.00
iii)	Supply and delivery of 18 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	Nos		1656.00	One thousand six hundred and fifty six only	1656.00
iv)	Supply and delivery of 25 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	Nos		3558.00	Three thousand five hundred and fifty eight only	3558.00
v)	Supply and delivery of 32 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	Nos		4343.00	Four thousand three hundred and forty three only	4343.00
viii)	Supply and delivery of 70 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	Nos		8848.00	Eight thousand eight hundred and forty eight only	8848.00

Contractor

Sd/-*****
Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
ix)	Supply and delivery of 550 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	Nos		73875.00	Seventy three thousand eight hundred and seventy five only	73875.00
x)	Supply and delivery of Directly operated Bimetallic Thermal overload relay Upto 5A-10A which operates in case of overload and also in case of under voltage with manual and auto reset mode	1	Nos		1321.00	One thousand three hundred and twenty one only	1321.00
xi)	Supply and delivery of Directly operated Bimetallic Thermal overload relay Upto 10A-20A which operates in case of overload and also in case of under voltage with manual and auto reset mode	1	Nos		1486.00	One thousand four hundred and eighty six only	1486.00
xii)	Supply and delivery of Directly operated Bimetallic Thermal overload relay Upto 20A-30A which operates in case of overload and also in case of under voltage with manual and auto reset mode	1	Nos		2152.00	Two thousand one hundred and fifty two only	2152.00
xiii)	Supply and delivery of Directly operated Bimetallic Thermal overload relay Upto 30A-50A which operates in case of overload and also in case of under voltage with manual and auto reset mode	1	Nos		2963.00	Two thousand nine hundred and sixty three only	2963.00
xiv)	Supply and delivery of Directly operated Bimetallic Thermal overload relay Upto 50A-75A which operates in case of overload and also in case of under voltage with manual and auto reset mode	1	Nos		4294.00	Four thousand two hundred and ninety four only	4294.00
xix)	Supply and delivery of Directly operated Bimetallic Thermal overload relay Upto 75A-110A which operates in case of overload and also in case of under voltage with manual and auto reset mode	1	Nos		6348.00	Six thousand three hundred and forty eight only	6348.00
xv)	Supply and delivery of Directly operated Bimetallic Thermal overload relay Upto 200A-300A which operates in case of overload and also in case of under voltage with manual and auto reset mode	1	Nos		10357.00	Ten thousand three hundred and fifty seven only	10357.00

Contractor

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Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
xvi)	Electric Motor protection device against single phasing. The device should protect the motor against single phasing, reverse phasing and unbalance supply. The device should be suitable for any device and have provisions for mounting in panel boards. Operate without need of any auxiliary supply.	1	Nos		1152.00	One thousand one hundred and fifty two only	1152.00
xvii)	Electric Motor protection device against dry running. The device should protect the motor against Dry running. The device should be suitable for any device and have provisions for mounting in panel boards. Operate without need of any auxiliary supply	1	Nos		1613.00	One thousand six hundred and thirteen only	1613.00
f)	Replacement of 32-400 Amps 4 Pole MCCB Switch in the Head works and other pumprooms			IS 1554,IS 7098(Part I) /1988 with ISI Marking and Special specification			
i)	400 Amps MCCB	1	Nos		45742.00	Forty five thousand seven hundred and forty two only	45742.00
ii)	63 Amps MCCB	1	Nos		12788.00	Twelve thousand seven hundred and eighty eight only	12788.00
iii)	200 Amps MCCB	1	Nos		32737.00	Thirty two thousand seven hundred and thirty seven only	32737.00
iv)	32 Amps MCCB	1	Nos		12788.00	Twelve thousand seven hundred and eighty eight only	12788.00
v)	160 Amps MCCB	1	Nos		20658.00	Twenty thousand six hundred and fifty eight only	20658.00
vi)	320 Amps 3 Pole MCCB Switch	1	Nos		43764.00	Forty three thousand seven hundred and sixty four only	43764.00
g)	Replacement of 32-400 Amps 3 Pole MCCB Switch in the Head works and other pumprooms						
i)	100 Amps 3 Pole MCCB Switch	1	Nos		10329.00	Ten thousand three hundred twenty nine only	10329.00
ii)	200 Amps 3 Pole MCCB Switch	1	Nos		29511.00	Twenty nine thousand five hundred and eleven only	29511.00

Contractor

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Superintending Engineer, TWAD

SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
iii)	320 Amps 3 Pole MCCB Switch	1	Nos		37796.00	Thirty seven thousand seven hundred and ninety six only	37796.00
iv)	400 Amps 3 Pole MCCB Switch	1	Nos		39809.00	Thirty nine thousand eight hundred and nine only	39809.00
h)	Repairing/ reconditioning of Sluice valve (for line valve/ for Scour valve) including all material, labour (Specify type of sluice valve and type of repair to be carried out)						
1	200 mm Air valve	1	Nos		5000.00	Five thousand only	5000.00
2	200 mm CI Sluice valve	1	Nos		4250.00	Four thousand two hundred and fifty only	4250.00
3	250 mm CI Sluice valve	1	Nos		5500.00	Five thousand and five hundred only	5500.00
4	300 mm CI Sluice valve	1	Nos		8000.00	Eight thousand only	8000.00
5	300 mm CI NRV valve	1	Nos		11500.00	Eleven thousand and five hundred only	11500.00
6	350 mm CI Sluice valve	1	Nos		9500.00	Nine thousand and five hundred only	9500.00
7	400 mm CI Sluice valve	1	Nos		12000.00	Twelve thousand only	12000.00

Contractor

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SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
8	500 mm CI Sluice valve	1	Nos		15000.00	Fifteen thousand only	15000.00
9	600 mm CI Sluice valve	1	Nos		18000.00	Eighteen thousand only	18000.00
10	800 mm CI Sluice valve	1	Nos		25000.00	Twenty five thousand only	25000.00
j)	Supply and delivery Power capacitor for power factor improvement with oil filled with discharge resistance 3 phase 415/440V 50 HZ conforming to ISS:2834 with ISI marking	106.00	KVAR	Special specification	315.00	Three hundred and fifteen only	33390.00
4	Removal of sediments and deposition of sludge, silt,Particles inside the sump at various capacities by engaging required labours and diesel pumpsets and cleaning the side wall using wire brushes, brooms, collecting , lifting of the deposited slit particles on above the sump and washing side wall and the slab using bleaching powder etc., complete and as directed by TWAD Board officers			Special specification			
i)	3.50 LL capacity of sump @ Manjalneerkayal	1	Nos		12500.00	Twelve thousand and five hundred only	12500.00
ii)	20.00 LL capacity of sump @ Petma nagar	1	Nos		18500.00	Eighteen thousand and five hundred only	18500.00
iii)	4.00 LL capacity of sump @ Iruvappapuram	1	Nos		12500.00	Twelve thousand and five hundred only	12500.00
iv)	4.50 LL capacity of sump @ SPIC Campus	1	Nos		13000.00	Thirteen thousand only	13000.00

Contractor

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SI.	Description of work	Quantity	Unit	TNBP No.Other Specification	Rate		Amount
No.					Rs. P	In words	Rs.
v)	1.00 LL capacity of sump @ Mullakadu	1	Nos		7000.00	Seven thousand only	7000.00
vi)	2.00 LL capacity of sump @ Ramanachiyarpuram	1	Nos		10000.00	Ten thousand only	10000.00
5)	Desilting light or sandy soil or silt from collector wells below water level including the charges for special tools and plants and air compressor etc.complete and as directed by the TWAD Board Officers.	23.55	m3	Special specification	1834.70	One thousand eight hundred and thirty four and paise seventy only	43207.19
	Total						5978035.08

I / We agree to execute the above item of works at
and thirty five and paise eight only)

% Excess over / Less , than the departmental value of Rs. 5978035.08 (Rupees Fifty nine lakhs seventy eight thousand

Contractor

Sd/-*****
Superintending Engineer, TWAD