

GENERAL ABSTRACT

Operation and Maintenance of CWSS to Kadampur ,Pudur, Vilathikulam TP & 180 Rural habitations and Ariyanayagipuram CWSS in Thoothukudi District for the period from 16.7.2022 to 31.03.2023

S.No	Description	Amount
1)	Operation and Maintenance of CWSS to Kadambur, Pudur, Vilathikulam Town Panchayats and 180 habitations in Thoothukudi District	6653368.43
2)	Operation and Maintenance of CWSS to Ariyanayagipuram in Thoothukudi District	556811.53
	Total	7210179.96

I / We agree to execute the above item of works at % Excess over / Less , than the departmental value of Rs. 7210179.96(Rupees Seventy two lakhs ten thousand one hundred and seventy nine and paise ninety six only)

Schedule

NAME OF WORK : OUT SOURCING OF OPERATION AND MAINTENANCE OF CWSS TO KADAMBUR, PUDUR, VILATHIKULAM TOWN PANCHAYATS AND 180 RURAL HABITATIONS IN THOOTHUKUDI DISTRICT FOR THE PERIOD FROM 16.06.2022 TO 31.03.2023

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	Rs.
1	Operation and Maintenance of the Electro Mechanical installations, equipments, components, pipelines valves and appurtenances, water retaining structures including protecton of all scheme 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 Officers 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 etc, and as directed by TWAD Board officers	1683.50	ML	Special Specifications	2964.22	Two thousand nine hundred and sixty four and paise twenty two only	4990264.37
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

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Superintending Engineer, TWAD

Sl.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
No.					Rs. P	In word	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,23, 95 and Special specifications			
a)	For AC Pipes of various classes	97.296	m3		483.00	Four hundred and eighty three only	46993.97
b)	For PSC Pipes of various classes	31.749	m3		483.00	Four hundred and eighty three only	15334.77
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			
	150 mm AC of Various Classes	14.00	Kg		380.00	Three hundred and eighty only	5320.00
	200 mm AC of Various Classes	21.00	Kg		380.00	Three hundred and eighty only	7980.00
	250 mm AC of Various Classes	24.00	Kg		380.00	Three hundred and eighty only	9120.00
	300 mm AC of Various Classes	40.00	Kg		380.00	Three hundred and eighty only	15200.00
	350 mm dia PSC Pipe Various Classes	24.00	Kg		380.00	Three hundred and eighty only	9120.00
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			
	150 mm AC of Various Classes	14.00	lit		105.00	One hundred and five only	1470.00

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Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	Rs.
	200 mm AC of Various Classes	21.00	lit		105.00	One hundred and five only	2205.00
	250 mm AC of Various Classes	36.00	lit		105.00	One hundred and five only	3780.00
	300 mm AC of Various Classes	64.00	lit		105.00	One hundred and five only	6720.00
	350 mm dia PSC Pipe Various Classes	18.00	lit		105.00	One hundred and five only	1890.00
iv)	Supply and delivery of cement			SS 10 and Special Specification			
	150 mm AC of Various Classes	21.00	Kg		5.96	Five and ninety six only	125.16
	200 mm AC of Various Classes	35.00	Kg		5.96	Five and ninety six only	208.60
	250 mm AC of Various Classes	42.00	Kg		5.96	Five and ninety six only	250.32
	300 mm AC of Various Classes	64.00	Kg		5.96	Five and ninety six only	381.44
	350 mm PSC of Various Classes	42.00	Kg		5.96	Five and ninety six only	250.32

SI.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
No.					Rs. P	In word	Rs.
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 specifications			
	150 mm AC of Various Classes	7.00	Hours		296.50	Two hundred and ninety six and paise fifty only	2075.50
	200 mm AC of Various Classes	7.00	Hours		296.50	Two hundred and ninety six and paise fifty only	2075.50
	250 mm AC of Various Classes	6.00	Hours		296.50	Two hundred and ninety six and paise fifty only	1779.00
	300 mm AC of Various Classes	8.00	Hours		296.50	Two hundred and ninety six and paise fifty only	2372.00
	350 mm PSC of Various Classes	6.00	Hours		296.50	Two hundred and ninety six and paise fifty only	1779.00
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	97.296	m3		33.60	Thirty three and paise sixty only	3269.15
	For PSC Pipes of various classes	31.749	m3		33.60	Thirty three and paise sixty only	1066.77
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 round the clock as per the standard specifications including earthwork excavation, removal of slushy soi, labour charges, civil works, cost of materials, dewatering , 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.						

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	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 AC Pipes of various classes	74.087	m3		483.00	Four hundred and eighty three only	35784.02
	For PSC Pipes of various classes	8.123	m4		483.00	Four hundred and eighty three only	3923.41
ii)	Supply and delivery of Leak Arresting Flexible MS Clamps of Wrap Around by the engineer incharge at site depending on the nature of pipe crack.			Special Specifications			
	150mm MS Clampset	4.00	No		1681.78	One thousand six hundred and eighty one and paise seventy eighty only	6727.12
	200m MS Clampset	6.00	No		2013.52	Two thousand thirteen and paise fifty two only	12081.12
	250mm MS Clampset	5.00	No		2395.26	Two thousand three hundred and ninety five and paise twenty six only	11976.30
	300mm MS Clampset	7.00	No		2948.16	Two thousand nine hundred and forty eight and paise sixteen only	20637.12
	350 mm MS Clampset for PSC Pipe	2.00	No		3832.80	Three thousand and eight hundred and thirty two and paise eighty only	7665.60
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			
	150 mm AC Class 15	8.00	Hour		296.50	Two hundred and ninety six and paise fifty only	2372.00
	200 mm AC Class 15	12.00	Hour		296.50	Two hundred and ninety six and paise fifty only	3558.00
	250 mm AC Class 15	10.00	Hour		296.50	Two hundred and ninety six and paise fifty only	2965.00
	300 mm AC Class 15	14.00	Hour		296.50	Two hundred and ninety six and paise fifty only	4151.00
	350 mm dia PSC Pipe Various Classes	4.00	Hour		296.50	Two hundred and ninety six and paise fifty only	1186.00
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			

Contractor

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Sl.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
No.					Rs. P	In word	Rs.
	For AC Pipes of various classes	74.09	m3		33.60	Thirty three and paise sixty only	2489.42
	For PSC Pipes of various classes	8.12	m3		33.60	Thirty three and paise sixty only	272.83
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						
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, 95 and Special specifications			
	For PVC Pipes of various classes	139.791	m3		96.60	Ninety six and paise sixty only	13503.81
	For AC Pipes of various classes	27.948	m3		96.60	Ninety six and paise sixty only	2699.78
	For PSC Pipes of various classes	8.123	m3		96.60	Ninety six and paise sixty only	784.68
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	14.00	m		69.50	Sixty nine and paise fifty only	973.00

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SI.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
No.					Rs. P	In word	Rs.
	63mm PVC 4KSC	8.00	m		78.50	Seventy eight and paise fifty only	628.00
	75mm PVC 4KSC	12.00	m		109.00	One hundred and nine only	1308.00
	90mm PVC 4 KSC	14.00	m		151.00	One hundred and fifty one only	2114.00
	110mm PVC 4KSC	42.00	m		216.50	Two hundred and sixteen and paise fifty	9093.00
	140mm PVC 4KSC	20.00	m		357.50	Three hundred and fifty seven and paise fifty only	7150.00
	160mm PVC 4KSC	2.00	m		465.50	Four hundred and sixty five and paise fifty only	931.00
	150 mm DI K7 Class	4.00	m		1615.00	One thousand six hundred and fifteen only	6460.00
	200 mm DI K7 Class	4.00	m		2120.00	Two thousand and one hundred and twenty only	8480.00
	250 mm DI K7 Class	4.00	m		2797.00	Two thousand seven hundred and ninety seven only	11188.00
	300 mm DI K7 Class	4.00	m		3528.00	Three thousand five hundred and twenty eight only	14112.00
	355.6 mm x 4 mm thick MS PIPE	4.00	m		5282.00	Five thousand two hundred and eighty two only	21128.00
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			

SI.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
No.					Rs. P	In word	Rs.
	50 mm PVC Coupler Fabricated 6 KSC	14.00	No		7.00	Seven only	98.00
	63 mm PVC Coupler Fabricated 4 KSC	8.00	No		9.00	Nine only	72.00
	75 mm PVC Coupler Fabricated 4 KSC	12.00	No		13.00	Thirteen only	156.00
	90 mm PVC Coupler Fabricated 4 KSC	14.00	No		21.00	Twenty one only	294.00
	110 mm PVC Coupler Fabricated 4 KSC	42.00	No		33.00	Thirty three only	1386.00
	140 mm PVC Coupler Fabricated 4 KSC	20.00	No		60.00	Sixty only	1200.00
	160mm PVC Coupler Fabricated 4 KSC	2.00	No		93.00	Ninety three only	186.00
	150mm MJ Collars for DI pipe	2.00	No		4264.00	Four thousand two hundred and sixty four only	8528.00
	200mm MJ Collars for DI pipe	2.00	No		5565.00	Five thousand five hundred and sixty five only	11130.00
	250mm MJ Collars for DI pipe	2.00	No		7747.00	Seven thousand seven hundred and forty seven only	15494.00
	300mm MJ Collars for DI pipe	2.00	No		10057.00	Ten thousand and fifty seven only	20114.00
	350mm MJ Collars for MS pipe	2.00	No		14358.00	Fourteen thousand three hundred and fifty eight only	28716.00
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			

SI.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
No.					Rs. P	In word	Rs.
	50mm PVC 6KSC	7.00	No		339.90	Three hundred and thirty nine and paise ninety only	2379.30
	63mm PVC 4KSC	4.00	No		339.90	Three hundred and thirty nine and paise ninety only	1359.60
	75mm PVC 4KSC	6.00	No		426.80	Four hundred and twenty six and paise eighty only	2560.80
	90mm PVC 4 KSC	7.00	No		568.30	Five hundred and sixty eight and paise thirty only	3978.10
	110mm PVC 4KSC	21.00	No		690.10	Six hundred and ninety and paise ten only	14492.10
	140mm PVC 4KSC	10.00	No		1010.40	One thousand and ten and paise forty only	10104.00
	160mm PVC 4KSC	1.00	No		1010.40	One thousand and ten and paise forty only	1010.40
	150 mm dia AC Class 15 Pipe	1.00	No		1268.40	One thousand two hundred and sixty eight and paise forty only	1268.40
	200 mm dia AC Class 15 Pipe	1.00	No		1779.90	One thousand seven hundred and seventy nine and paise ninety only	1779.90
	250 mm dia AC Class 15 Pipe	1.00	No		2276.40	Two thousand two hundred and seventy six and paise forty only	2276.40
	300 mm dia AC Class 15 Pipe	1.00	No		2835.10	Two thousand eight hundred and thirty five and paise ten only	2835.10
	For 350 mm PSC Pipes of various classes	1.00	No		4538.20	Four thousand five hundred and thirty eight and paise twenty only	4538.20
3.a)	Carrying out the following repair works occurring during the maintenance period in the Electrical, Mechanical and Elctro-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			

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	Rs.
i)	Rewinding of motor and reconditioning pump and repair works to 7.5 HP Open Well Submersible Pump Set (950 LPM X 17M) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at Seevalaperi Head Works in Infiltration Well - 18 Nos	2	Nos		28800	Twenty eight thousand and eight hundred only	57600.00
ii)	Rewinding of motor and repair works to 75 HP centrifugal HSC Motor (4925lpm x 45 m Head) including cost of all material ,conveyance ,labour charges for removing and re-erection of centrifugal HSC Motor Seevalaperi Head Works Pump Room - 2nos	1	No		65000	Sixty five thousand only	65000.00
iii)	Rewinding of motor and repair works to 50 HP centrifugal HSC Motor (4897 lpm x 38 m Head) including cost of all material ,conveyance ,labour charges for removing and re-erection of centrifugal HSC Motor at Lakshmpuram Pump Room - 2nos	1	No		50000	Fifty thousand only	50000.00
vi)	Rewinding of motor and reconditioning pump and repair works to 50 HP Open well Submersible Pump set (1800 lpm x 28 m Head) including cost of all material ,conveyance ,labour charges for removing and re-erection of submersible pumpset at Seevalaperi Head Works Pumproom	1	No		75000	Seventy five thousand only	75000.00
vii)	Rewinding of motor and repair works to 12.5 HP centrifugal HSC Motor (831 LPM X 29 M Head) including cost of all material ,conveyance ,labour charges for removing and re-erection of centrifugal HSC Motor at Vilathikulam to Guruvarpatti- 2 Nos	1	No		25000	Twenty five thousand only	25000.00
x)	Rewinding of motor and reconditioning pump and repair works to 5HP Open Well Submersible Pump Set (340LPM X 24 M) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at Pudur Sump -	1	No		25700	Twenty five thousand and seven hundred only	25700.00
xiv)	Rewinding of motor and reconditioning pump and repair works to 5HP Open Well Submersible Pump Set (250LPM X 40 M Head) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at Kurukusalai Sump - 2 Nos	1	No		25700	Twenty five thousand and seven hundred only	25700.00
xv)	Rewinding of motor and reconditioning pump and repair works to 7.5 HP Open Well Submersible Pump set (500 lpm x 40 M) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at Kurukusaalia Sump - 2 Nos	1	No		28800	Twenty eight thousand and eight hundred only	28800.00

Contractor

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Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	Rs.
xvii)	Rewinding of motor and reconditioning pump and repair works to 7.5 HP Open Well Submersible Pump set (378 lpm x 40 M) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at Kadambur Sump - 2 Nos	1	Nos		28800	Twenty eight thousand and eight hundred only	28800.00
xviii)	Rewinding of motor and reconditioning pump and repair works to 2 HP Open Well Submersible Pump set (180lpm x 26M) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at Katunaickenpatti Sump - 2 Nos	1	Nos		19300	Nineteen thousand and three hundred only	19300.00
xix)	Rewinding of motor and reconditioning pump and repair works to 2 HP Open Well Submersible Pump set (110lpm x 21M) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at Kulathur colony Sump - 2 Nos	1	No		19300	Nineteen thousand and three hundred only	19300.00
xx)	Rewinding of motor and reconditioning pump and repair works to 2 HP Open Well Submersible Pump set (100lpm x 21M) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at Iravanpatti ti maruthnvalvu - 2 Nos	1	No		19300	Nineteen thousand and three hundred only	19300.00
b)	Repair/ reconditioning			special specification			
	Repair and reconditioning works in 75 HP HSC pump (4925lpm x 45 m Head) including cost of all material exluding Bronze impeller ,conveyance ,labour charges for removing and re-erection of centrifugal HSC Pump at Seevalaperi Head Works Pump Room - 2nos	1	No		40000	Forty thousand only	40000.00
	Repair and reconditioning works to 50 HP HSC centrifugal Pump (3778lpm x 42 m Head including cost of all material exluding Bronze impeller,conveyance ,labour charges for removing and re-erection of centrifugal HSC Pump at Maniyatchi to JV puram 2Nos	1	No		35000	Thirty five thousand only	35000.00

Sl.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
No.					Rs. P	In word	Rs.
	Repair and reconditioning works to 12.5 HP centrifugal HSC pump (831 LPM X 29 M Head including cost of all material excluding Bronze impeller, conveyance ,labour charges for removing and re-erection of centrifugal HSC Pump at vilathikulam to Guruvarpatti - 2nos	1	Nos		16000	Sixteen thousand only	16000.00
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	No		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	No		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	No		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	No		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	No		4343.00	Four thousand three hundred and forty three only	4343.00

SI.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
No.					Rs. P	In word	Rs.
vi)	Supply and delivery of 40 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	No		4519.00	Four thousand five hundred and nineteen only	4519.00
vii)	Supply and delivery of 45 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	No		5588.00	Five thousand five hundred and eighty eighty only	5588.00
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	No		8848.00	Eight thousand eight hundred and forty eight only	8848.00
ix)	Supply and delivery of 95 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	No		14145.00	Fourteen thousand one hundred and forty five only	14145.00
x)	Supply and delivery of 140 Amps\440V Electro magnetic Contactors Suitable for Starter in AC Three Phase rating Conforming to IS/IEC 60947-4-1	1	No		22490.00	Twenty two thousand four hundred and ninety only	22490.00
xiii)	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	5	No		1321.00	One thousand three hundred and twenty one only	6605.00
xiv)	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	No		1486.00	One thousand four hundred and eighty six only	1486.00
xv)	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	No		2152.00	Two thousand one hundred and fifty two only	2152.00
xvii)	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	No		4294.00	Four thousand two hundred and ninety four only	4294.00

Contractor

Sd/*****
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SI. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	Rs.
xviii)	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	No		6348.00	Six thousand three hundred and forty eight only	6348.00
xx)	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	No		1152.00	One thousand one hundred and fifty two only	1152.00
xi)	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	No		1613.00	One thousand six hundred and thirteen only	1613.00
d)	Supply and delivery of direct online starter conforming to IS13947 and IEC60947-1 suitable KW rating for operation in AC/ three Phase/50HZ(+/- 5%) and 415V (+/- 10%) including Ammeter, Overload relay, under Voltage release with no Volt coil, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, including the capacitor(the cost of capacitor is to be taken separately).						
	For 7.5 HP Starter - 2 Nos	1	Nos		14492.00	Fourteen thousand four hundred and ninety two only	14492.00
5 e)	Attending cable fault by replacing the cable 9 Nos of IW						
i)	Supply, delivery of 1.1 KV Grade 3 core 50 Sq. mm PVC insulated and steel Armoured aluminium cable as per I.S.1554 for following Wells submersible motor to main panel board.50 sqmm Aluminum armoured cable for 2 Nos of IW Including standby pumpset	320.00	m		243.00	Two hundred and forty three only	77760.00
ii)	Laying of 1.1 KV Grade 3 core 50 Sq. mm PVC insulated steel Armoured aluminium cable as per I.E. rules to be laid in between Well Submersible motor and main panel board. 50 sqmm Aluminum armoured cable for 2 Nos of IW Including standby pumpset	320.00	m		160.00	One hundred and sixty only	51200.00

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	Rs.
iii)	Jonting the 1.1KV grade 3 Core 50 SQ mm PVC Insulated Steel armoured aluminum cable as per I E Rules including Jointing materials etc complete directed by the TWAD Board officers Jointing of 50 sq.mm cable for 2 Nos.of infiltration wells	15.00	Set		242.00	Two hundred and forty two only	3630.00
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			
ii)	63 Amps 4 Pole MCCB	1	Nos		12788.00	Twelve thousand seven hundred and eighty eight only	12788.00
iv)	200 Amps 4 Pole MCCB	1	Nos		32737.00	Thirty two thousand seven hundred and thirty seven only	32737.00
v)	32 Amps 4 Pole MCCB	1	Nos		12788.00	Twelve thousand seven hundred and eighty eight only	12788.00
g)	Replacement of 32-400 Amps 3 Pole MCCB Switch in the Head works and other pumprooms						
i)	32 Amps 3 Pole MCCB Switch	1	No		10329.00	Ten thousand three hundred and twenty nine only	10329.00
ii)	63 Amps 3 Pole MCCB Switch	1	No		10329.00	Ten thousand three hundred and twenty nine only	10329.00
iii)	100 Amps 3 Pole MCCB Switch	1	No		10329.00	Ten thousand three hundred and twenty nine only	10329.00
	160 Amps 3 Pole MCCB Switch	1	No		17234.00	Seventeen thousand two hundred and thirty four only	17234.00
iv)	200 Amps 3 Pole MCCB Switch	1	No		29511.00	Twenty nine thousand five hundred and eleven only	29511.00
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)						
i)	300 mm CI Sluice valve	1	No		8000.00	Eight thousand only	8000.00
ii)	300 mm CI NRV valve	1	No		11500.00	Eleven thousand and five hundred only	11500.00
iii)	200 mm CI Sluice valve	1	No		4250.00	Four thousand two hundred and fifty only	4250.00
iv)	200 mm CI NRV valve	1	No		6000.00	Six thousand only	6000.00

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	Rs.
v)	150 mm CI Sluice valve	1	No		3500.00	Three thousand and five hundred only	3500.00
vi)	150 mm CI NRV valve	1	No		4000.00	Four thousand only	4000.00
vii)	100 mm CI Sluice valve	1	No		2750.00	Two thousand seven hundred and fifty only	2750.00
viii)	100 mm CI NRV valve	1	No		3000.00	Three thousand only	3000.00
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	100.00	No		315.00	Three hundred and fifteen only	31500.00
5	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			
a	1.50 LL capacity of sump @ Headwork sump	2	No		9000.00	Nine thousand only	18000.00
i)	1.50 LL capacity of sump @ Lakshmipuram	2	No		9000.00	Nine thousand only	18000.00
ii)	1.50 LL capacity of sump @ Maniyatchi	1	No		9000.00	Nine thousand only	9000.00
iii)	1.00 LL capacity of sump @ Maniyatchi	1	No		7000.00	Seven thousand only	7000.00
iv)	3.00 LL capacity of sump @ jegaveerapandiapuram	2	No		12000.00	Twelve thousand only	24000.00
v)	0.75 LL capacity of sump @ jegaveerapandiapuram	1	No		7000.00	Seven thousand only	7000.00
vi)	1.00 LL capacity of sump @ Pillaiyarnatham	1	No		7000.00	Seven thousand only	7000.00
	1.00 LL capacity of sump @ Vilathikulam	1	No		7000.00	Seven thousand only	7000.00
	0.35LL capacity of sump @ guruvarpatti	1	No		5000.00	Five thousand only	5000.00

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In word	Rs.
	0.30LL capacity of sump @ Katunaickenatti	1	No		3500.00	Three thousand and five hundred only	3500.00
	0.30LL capacity of sump @ Mullur	1	No		3500.00	Three thousand and five hundred only	3500.00
	0.30LL capacity of sump @ Pudur	1	No		3500.00	Three thousand and five hundred only	3500.00
	3.00LL capacity of sump @ Kurukusalai	1	No		12000.00	Twelve thousand only	12000.00
	0.30LL capacity of sump @ Kulathur	1	No		3500.00	Three thousand and five hundred only	3500.00
	0.30LL capacity of sump @ M.arasankulam	1	No		3500.00	Three thousand and five hundred only	3500.00
	0.30LL capacity of sump @ Iravanpatti	1	No		3500.00	Three thousand and five hundred only	3500.00
	1.00LL capacity of sump @ Melaarasadi	1	No		7000.00	Seven thousand only	7000.00
	1.00LL capacity of sump @ Kadambur	1	No		7000.00	Seven thousand only	7000.00
	0.10LL capacity of sump @ Vellaram	1	No		2500.00	Two thousand and five hundred only	2500.00
	0.30LL capacity of sump @ Kulathur	1	No		3500.00	Three thousand and five hundred only	3500.00
b)	Desilting light or sandy soil or silt from infiltration 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.			Special specification			
	4.5M -Dia infiltration well	6.36	m3		1834.70	One thousand eight hundred and thirty four and paise seventy only	11668.69
	3.5M Dia infiltration well	13.44	m3		1834.70	One thousand eight hundred and thirty four and paise seventy only	24658.37
	Total						6653368.43

SCHEDULE

NAME OF WORK : OUTSOURSING OF OPERATION AND MAINTENANCE OF CWSS TO ARIYANAYAGIPURAM IN PUDUR AND VILATHIKULAM UNION IN THOOTHUKUDI DISTRICT FOR THE PERIOD FROM 16.07.2022 TO 31.03.2023

Sl.	Description of work	Quantity	Unit	TNBP No.	Rate		Amount
No.				Other specification	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 scheme 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 Officers 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 etc, and as directed by TWAD Board officers (0.175MLD x 259 days)	45.325	ML	Special Specifications	10736.89	Ten thousand seven hundred and thirty six and paise eighty nine only	486649.54
2)	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 ,trafic 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

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Superintending Engineer, TWAD

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					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 PVC pipes with standard trench width and depth etc., complete and as directed by the TWAD Board officers.			SS 20 B, 95 and Special specifications			
	For PVC Pipes of various classes	14.957	m3		96.60	Ninety six and paise sixty only	1444.85
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			
a	50mm PVC 6KSC	2.00	m		69.50	Sixty nine and paise fifty only	139.00
b)	63mm PVC 4KSC	2.00	m		78.50	Seventy eight and paise fifty only	157.00
c)	75mm PVC 4KSC	2.00	m		109.00	One hundred and nine only	218.00
d)	90mm PVC 4 KSC	2.00	m		151.00	One hundred and fifty one only	302.00
e	110mm PVC 4KSC	2.00	m		216.50	Two hundred and sixteen and paise fifty only	433.00
f)	140mm PVC 4KSC	2.00	m		357.50	Three hundred and fifty seven and paise fifty only	715.00

Contractor

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Superintending Engineer, TWAD

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					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			
a	50 mm PVC Coupler Fabricated 6 KSC	2.00	No		10.00	Ten only	20.00
b	63 mm PVC Coupler Fabricated 4 KSC	2.00	No		22.00	Twenty two only	44.00
c)	75 mm PVC Coupler Fabricated 4 KSC	2.00	No		34.00	Thirty four only	68.00
d)	90 mm PVC Coupler Fabricated 4 KSC	2.00	No		50.00	Fifty only	100.00
e	110 mm PVC Coupler Fabricated 4 KSC	2.00	No		77.00	Seventy seven only	154.00
f)	140 mm PVC Coupler Fabricated 4 KSC	2.00	No		166.00	One hundred and sixty six only	332.00
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			
a	50mm PVC 6KSC	1.00	No		339.90	Three hundred and thirty nine and paise ninety only	339.90
b	63mm PVC 4KSC	1.00	No		339.90	Three hundred and thirty nine and paise ninety only	339.90
c)	75mm PVC 4KSC	1.00	No		426.80	Four hundred and twenty six and paise eighty only	426.80

Contractor

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Superintending Engineer, TWAD

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In words	Rs.
d)	90mm PVC 4 KSC	1.00	No		568.30	Five hundred and sixty eight and paise thirty only	568.30
e	110mm PVC 4KSC	1.00	No		690.10	Six hundred and ninety and paise ten only	690.10
f)	140mm PVC 4KSC	1.00	No		1010.40	One thousand and ten and paise forty only	1010.40
3.a)	Carrying out the following repair works occurring during the maintenance period in the Electrical, Mechanical and Elctro-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			
b	Rewinding of motor and reconditioning pump and repair works to 3 HP Open Well Submersible Pump Set (175 LPM X 20M) including cost of all material ,conveyance ,labour charges for removing and re-erection of Submersible pumpset at - Infiltration well at headworksite- 2 Nos	1	No		23100.00	Twenty three thousand and one hundred only	23100.00
c)	Repair and reconditioning of starter			special specification			
	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	No		827	Eight hundred and twenty seven only	827.00
	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	No		961	Nine hundred and sixty one only	961.00
	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	No		3558	Three thousand five hundred and fifty eight only	3558.00

Sd/*****

Contractor

Superintending Engineer, TWAD

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In words	Rs.
	Supply and delivery of Directly operated Bimetallic Thermal overload relay Upto 5A which operates in case of overload and also in case of under voltage with manual and auto reset mode	1	No		1311	One thousand three hundred and eleven only	1311.00
	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	No		1321	One thousand three hundred and eleven only	1321.00
	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	No		2152	Two thousand one hundred and fifty two only	2152.00
	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	No		1152	One thousand one hundred and fifty two only	1152.00
	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	No		1613	One thousand six hundred and thirteen only	1613.00
5 e)	Attending cable fault by replacing the cable 2 Nos of IW						
i)	Supply, delivery of 1.1 KV Grade 3 core 25 Sq. mm PVC insulated and steel Armoured aluminium cable as per I.S.7098 for following Wells submersible motor to main panel board.25 sqmm Aluminum armoured cable for 2 Nos of IW Including standby pumpset	10.00	m		150.00	One hundred and fifty only	1500.00
ii)	Laying of 1.1 KV Grade 3 core 25 Sq. mm PVC insulated steel Armoured aluminium cable as per I.E. rules to be laid in between Well Submersible motor and main panel board.25 sqmm Aluminum armoured cable for 2 Nos of IW Including standby pumpset	10.00	m		160.00	One hundred and sixty only	1600.00

Contractor

Sd/*****
Superintending Engineer, TWAD

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In words	Rs.
iii)	Jointing the 1.1KV grade 3 Core 25 SQ mm PVC Insulated Steel armoured aluminum cable as per I E Rules including Jointing materials etc complete directed by the TWAD Board officers. 25 sq.mm cable for 2Nos.of infiltration wells	2.00	No		148.00	One hundred and forty eight only	296.00
i)	Supply, delivery and fixing of following size of Gate valves in OHT's						
i)	50 mm Gate valve	1	No		2062.00	Two thousand and sixty two only	2062.00
ii)	65 mm Gate valve	1	No		3157.00	Three thousand one hundred and fifty seven only	3157.00
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	4.00	KVAR		461.00	Four hundred and sixty one only	1844.00
5	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			
a	0.10 LL capacity of sump @ HW sump I	1	No		2500.00	Two thousand and five hundred only	2500.00

Contractor

Sd/*****
Superintending Engineer, TWAD

Sl. No.	Description of work	Quantity	Unit	TNBP No. Other specification	Rate		Amount
					Rs. P	In words	Rs.
i)	0.10 LL capacity of sump @ HW sump II	1	No		2500.00	Two thousand and five hundred only	2500.00
ii)	0.30 LL capacity of sump @ Ariyanayagipuram	1	No		3500.00	Three thousand and five hundred only	3500.00
6	Desilting light or sandy soil or silt from infiltration 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.	4.2	m3	special specification	1834.70	One thousand eight hundred and thirty four and paise seventy only	7705.74
	Grand Total						556811.53

Contractor

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Superintending Engineer, TWAD