

SCHEDULE -A

BILL OF QUANTITIES

1) Out Sourcing of Operation and Maintenance of CWSS to Jayankondam Municipality & Udayarpalayam Town panchayat and 5 other habitations in Ariyalur District (Old scheme) for the year 2022-23 (Period from 01.06.2022 to 31.03.2023)							
Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
I	Operation and Maintenance of the Electro Mechanical installations ,equipements ,components, pipelines valves and appurtenances, water retaining structures including protection 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 standard operating procedures, Acts and rules in force and as directed by TWAD Board Officers and excluding cost towards attending leak,burst repairs and replacement works to electro mechanical installations consumables for disinfection of water,cleaning of all water retaining structure. (304DaysX1.70MLD=516.80ML)	516.80 ML	specified in Clause 2.8 of General conditions of Contract Part II	1 ML (One Million Liters)	933.29	Rupees nine hundreds thirty three and paise twenty nine only	482324.27
						TOTAL -A	482324.27

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
II	Attending Leaks in the pipelines of this CWSS for the following items as per the standard procedure including earthwork excavation, dewatering, removing, relaying, jointing, civil works, cost of materials and all other incidental charges etc complete with in the stipulated time limit as specified in clause 2.6.4 of General conditions of Contract-Part II. (The specifications for attending leaks has to be detailed based on the data prepared and rate approval obtained for each size and material of pipes. The specification has to be mentioned under the clause 1.7 of GCC-Part-I)		specified in Clause 2.8 of General conditions of Contract Part II				
1	150mm AC pipe using cement joint	5 Nos.		Each	3863.70	Rupees three thousands eight hundreds sixty three and paise seventy only	19318.50
2	200mm AC pipe using cement joint	5 Nos.		Each	4111.50	Rupees four thousands one hundred eleven and paise fifty only	20557.50
3	250mm CI pipe using cement joint	5 Nos.		Each	5612.90	Rupees five thousands six hundreds twelve and paise ninety only	28064.50
4	300mm CI pipe using cement joint	5 Nos.		Each	6829.40	Rupees six thousands eight hundreds twenty nine and paise forty only	34147.00
	AC/PSC/CI minor Burst-Supply of MS Pipe with collar						

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
5	150mm AC pipe (1 Nos x 60.627 Kg)	60.63 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	6911.48
6	200mm AC pipe (2 Nos x 71.729 Kg)	143.46 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	16354.21
7	250mm CI pipe (3 Nos x 82.832 Kg)	248.50 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	28328.54
8	300mm CI pipe (3 Nos x 93.935 Kg)	281.81 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	32125.77
	AC/PSC/CI Major Burst-Supply of MS Pipe with collar						
9	250mm AC pipe (1 Nos x 312.651 Kg)	312.65 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	35642.21
10	300mm AC pipe (1 Nos x 361.502 Kg)	361.50 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	41211.23
11	Replacement of Air Valve in pumping , booster and branch main						
a	50mm DI Single Chamber Air release Valve	1 No		One Number	12215.00	Rupees twelve thousands two hundreds fifteen only	12215.00
b	80mm DI Single Chamber Air release Valve	1 No		One Number	15529.00	Rupees fifteen thousands five hundreds twenty nine only	15529.00

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
12	Replacement of Sluice Valve in Head works and booster stations						
a	250mm CI Sluice Valve	1 No		One Number	33717.00	Rupees thirty three thousands seven hundreds seventeen only	33717.00
13	Replacement of Non-Return Valve in Head works and booster stations						
a	250mm CI Non-Return Valve	1 No		One Number	24439.00	Rupees twenty four thousands four hundreds thirty nine only	24439.00
						TOTAL -B	348560.95
III	Carrying out the repair works of the Electrical, Mechanical and Electro-mechanical item						
	Rewinding of motors in pumping station 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		specified in Clause 2.8 of General conditions of Contract Part II				

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
1	Repairing and reconditioning of 20 HP Submersible openwell Pumpset including all material,labour,etc at Kodalikaruppur Head works	1 No.		Each	37400.00	Rupees thirty seven thousands four hundreds only	37400.00
2	Repairing and reconditioning of 50 HP VT Motor including all material,labour,etc at Kodalikaruppur Headworks	1 No.		Each	69600.00	Rupees sixty nine thousands six hundreds only	69600.00
3	Repairing and reconditioning of 50 HP VT Pump including all, labour etc at Kodalikaruppur Headworks.	1 No.		Each	53000.00	Rupees fifty three thousands only	53000.00
4	Supply of Materials for 50 HP VT Pump at Kodalikaruppur Headworks	1 No.		Each	227600.00	Rupees two lakhs twenty seven thousands six hundreds only	227600.00
5	Repairing and reconditioning of 50 HP HSCMotor including all material,labour,etc at Kodalikaruppur Headworks	1 No.		Each	78200.00	Rupees seventy eight thousands two hundreds only	78200.00
6	Repairing and reconditioning of 50 HP HSC Pump including all material,labour,etc at Kodalikaruppur Headworks	1 No.		Each	52200.00	Rupees fifty two thousands two hundreds only	52200.00
7	Repairing and reconditioning of 12.50 HP Submersible Pumpset including all material,labour,etc at Anaikudam Booster borewell	1 No.		Each	30700.00	Rupees thirty thousands seven hundreds only	30700.00

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
8	Repairing and reconditioning of Star-delta Starter 12.50 HP	1 No.		Each	10900.00	Rupees ten thousands nine hundreds only	10900.00
9	Repairing and reconditioning of Star-delta Starter 20 HP	1 No.		Each	12200.00	Rupees twelve thousands two hundreds only	12200.00
10	Repairing and reconditioning of Star-delta Starter 50 HP	1 No.		Each	25600	Rupees twenty five thousands six hundreds only	25600.00
11	Repairing and reconditioning of ATS Starter 50 HP	1 No.		Each	28500	Rupees twenty eight thousands five hundreds only	28500.00
	Supply and delivery fixing of the following Electrical works:consumable items at the site of work carry out the general maintenance works						
12	Volt meter SR 96 600 V-AC	2 Nos.		Each	905.00	Rupees nine hundreds five only	1810.00
13	Ammeter SR 96 5D/5A C.T.operated-AC	2 Nos.		Each	791.00	Rupees seven hundreds ninety one only	1582.00
14	150 mm upto 60 Kg/Cm2 with s.s.case	2 mts		Each	1713.00	Rupees one thousand seven hundreds thirteen only	3426.00
15	LED Outdoor fittings a)30 W LED street light fittings	2 Nos.		Each	2502.00	Rupees two thousands five hundreds two only	5004.00

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
16	Supply, delivery and fixing of 500 AMPS porcelain Fuse unit (500V) with fuse wire in the existing place inside the pump room for Head Works	2 Nos.		Each	2740.00	Rupees two thousands seven hundreds forty only	5480.00
17	Supply, delivery and fixing of 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	20 KVAR		One KVAR	315.00	Rupees three hundreds fifteen only	6300.00
						TOTAL - C	649502.00
IV	Cleaning of all storage points like sumps, stand posts of various capacities available in this scheme at a frequency of once in two months including scrapping the inner side of compartment completely, dewatering, desilting using required machineries, materials, labour, all incidental charges, application of bleaching powder/ solution etc complete and as directed by TWAD Board officers		specified in Clause 2.8 of General conditions of Contract Part II				
1	3.00 LL capacity of Collection sump @ Kodalikaruppur HW	1 No.		Each	10592.38	Rupees ten thousands five hundreds ninety two and paise thirty eight only	10592.38
2	0.30 LL capacity of sump @ Anaikudam BS	1 No.		Each	4011.04	Rupees four thousands eleven and paise four only	4011.04
						TOTAL - D	14603.42
	TOTAL (A+B+C+D) - 1A						1494990.64

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
II	Out Sourcing of Operation and Maintenance of CWSIS to Jayankondam Municipality & Udayarpalayam Town panchayat and 5 other habitations in Ariyalur District (New scheme) for the year 2022-23 (Period from 01.06.2022 to 31.03.2023)						
I	Operation and Maintenance of the Electro Mechanical installations ,equipements ,components, pipelines valves and appurtenances, water retaining structuress including protection of all scheme components from damages/ theft undertaking legal actions for such untoward incidents, preventive maintenance, disinfection and deliverance of watyer ar per quality standards and supply of earmarked quantity of water to the beneficiaries as per stanndard operating procedures, Acts and rules in force and as directected by TWAD Board Oficers and excluding cost towards attending leak,burst repairs and replacement works to electro mechanical installations consumables for disinfection of water,cleaning of all water retaining structure. (304 DaysX2.40 MLD=729.60ML)	729.60 ML	specified in Clause 2.8 of General conditions of Contract Part II	1 ML (One Million Liters)	1634.46	Rupees one thousand six hundreds thirty four and paise forty six only	1192502.02
						TOTAL -A	1192502.02

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
II	Attending Leaks in the pipelines of this CWSS for the following items as per the standard procedure including earthwork excavation, dewatering, removing , relaying, jointing, civil works, cost of materials and all other incidental charges etc complete with in the stipulated time limit as specified in clause 2.6.4 of General conditions of Contact-Part II.(The specifications for attending leaks has to be detailed based on the data prepared and rate approval obtained for each size and material of pipes.The specification has to be mentioned under the clause 1.7 of GCC-Part-I)						
1	110mm 4 ksc PVC Pipes	5 Nos.		Each	2477.00	Rupees two thousands four hundreds seventy seven only	12385.00
2	140mm 4 ksc PVC Pipes	5 Nos.		Each	2772.00	Rupees two thousands seven hundreds seventy two only	13860.00
3	150mm AC pipe using cement joint	6 No.		Each	3863.70	Rupees three thousands eight hundreds sixty three and paise seventy only	23182.20
4	250mm AC pipe using cement joint	15 Nos.		Each	5612.90	Rupees five thousands six hundreds twelve and paise ninety only	84193.50
5	300mm AC pipe using cement joint	20 Nos.		Each	6829.40	Rupees six thousands eight hundreds twenty nine and paise forty only	136588.00

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
6	350mm PSC pipe using cement joint	10 Nos.		Each	7627.40	Rupees seven thousands six hundreds twenty seven and paise forty only	76274.00
	AC/PSC minor Burst-Supply of MS Pipe with collar						
7	150mm AC pipe (1 Nos x 60.627 Kg)	60.63 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	6911.48
8	250mm AC pipe (1 Nos x 82.832 Kg)	82.83 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	9442.85
9	300mm AC pipe (1 Nos x 93.935 Kg)	93.94 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	10708.59
10	350mm PSC pipe (1 Nos x 105.037 Kg)	105.04 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	11974.22
	AC/PSC Major Burst-Supply of MS Pipe with collar			One Kilogram			
11	250mm AC pipe (1 Nos x 312.651 Kg)	312.65 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	35642.21
12	300mm AC pipe (1 Nos x 361.502 Kg)	361.50 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	41211.23
13	350mm PSC pipe (1 Nos x 410.354 Kg)	410.35 Kg		One Kilogram	114.00	Rupees one hundred fourteen only	46780.36

Sl. No	Description of work	Quantity		Specifications	Unit	Rate		Amount
						in figures	in words.	
	Repair and reconditioning of valves							
14	100mm CI Sluice Valve	1	Nos.		Each	6900.00	Rupees six thousands nine hundreds only	6900.00
15	150mm CI Sluice Valve	1	Nos.		Each	7450.00	Rupees seven thousands four hundreds fifty only	7450.00
16	80mm Air Valve	1	Nos.		Each	2600.00	Rupees two thousands six hundreds only	2600.00
	Replacement of Gun Metal Gate Valve including required length of GI nipple , Coupling etc complete		Nos.					
17	50mm	1	Nos.		Each	2600.00	Rupees two thousands six hundreds only	2600.00
18	80mm	1	KVAR		1kVAR	5750.00	Rupees five thousands seven hundreds fifty only	5750.00
	Replacement of Spindle rod (brass)suitable for sluice valve							
19	100mm CI Sluice Valve	1	No		Each	7800.00		7800.00
20	150mm CI Sluice Valve	1	No		Each	9600.00		9600.00
							TOTAL - B	551853.63

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
III	Carrying out the repair works of the Electrical, Mechanical and Electro-mechanical item						
	Rewinding of motors in pumping station 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		specified in Clause 2.8 of General conditions of Contract Part II				
1	Repairing and reconditioning of 12.50 HP Submersible openwell Pumpset including all material,labour,etc at Kodalikaruppur Head works	1 No.		Each	30700.00	Rupees thirty thousands seven hundreds only	30700.00
2	Repairing and reconditioning of 12.50 HP Submersible borewell Pumpset including all material,labour,etc at Kodalikaruppur Head works	2 No.		Each	30700.00	Rupees thirty thousands seven hundreds only	61400.00
3	Repairing and reconditioning of 40 HP HSC Motor including all material,labour,etc at Kodalikaruppur Headworks	1 No.		Each	59100.00	Rupees fifty nine thousands one hundred only	59100.00
4	Repairing and reconditioning of 60 HP HSC Motor including all material,labour,etc at Anaikudam Reoster	1 No.		Each	93400.00	Rupees ninety three thousands four hundreds only	93400.00
5	Repairing and reconditioning of 20 HP HSC Motor including all material,labour,etc at Udayarpalayam sump	1 No.		Each	42300.00	Rupees forty two thousands three hundreds only	42300.00

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
6	Repairing and reconditioning of 40 HP HSC Pump including all material,labour,etc at Kodalikaruppur Headworks	1 No.		Each	59100.00	Rupees fifty nine thousands one hundred only	59100.00
7	Repairing and reconditioning of 60 HP HSC Pump including all material,labour,etc at Anaikudam Booster	1 No.		Each	55400.00	Rupees fifty five thousands four hundreds only	55400.00
8	Repairing and reconditioning of 20 HP HSC Pump including all material,labour,etc at Udayarpalayam sump	1 No.		Each	37900.00	Rupees thirty seven thousands nine hundreds only	37900.00
9	Repairing and reconditioning of 40 HP ATS Starter including all material,labour,etc at Kodalikaruppur Headworks	1 No.		Each	20900.00	Rupees twenty thousands nine hundreds only	20900.00
10	Repairing and reconditioning of 60 HP ATS Starter including all material,labour,etc at Anaikudam Booster	1 No.		Each	32800.00	Rupees thirty two thousands eight hundreds only	32800.00
11	Repairing and reconditioning of 20 HP Star-Delta Starter including all material,labour,etc at Udayarpalayam sump	1 No.		Each	12200.00	Rupees twelve thousands two hundreds only	12200.00
	Attending cable fault with replacing 600m of cable at Headworks infiltration well to Collection sump						

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
12	Supply and delivery of LT Cables 3,3.5,4 core 1.1KV grade armoured Aluminium conductor cross linked poly ethylene insulated PVC sheathed cables confirming to IS 7098 (Part I) 1988 with ISI marking for infiltration wells to Pump room at kodalikaruppur headworks	10 mts		One Metre	242.00	Rupees two hundreds forty two only	2420.00
13	laying of 50 sqmm Al cable below GL including earth work	10 mts		One Metre	160.00	Rupees one hundred sixty only	1600.00
14	Supply of 75mm PVC 4Ksc pipe for laying of 50 sqmm AL cable below GL	10 mts		One Metre	109.00	Rupees one hundred nine only	1090.00
15	Supply and delivery fixing of the following Electrical works:consumable items at the site of work carry out the general maintenance works						
16	Volt meter SR 96 600 V-AC	2 Nos.		Each	905.00	Rupees nine hundreds five only	1810.00
17	Ammeter SR 96 5D/5A C.T.operated-AC	2 Nos.		Each	791.00	Rupees seven hundreds ninety one only	1582.00
18	150 mm upto 60 Kg/Cm2 with s.s.case	2 Nos.		Each	1713.00	Rupees one thousand seven hundreds thirteen only	3426.00
19	LED Outdoor fittings a)30 W LED street light fittings	2 Nos.		Each	2502.00	Rupees two thousands five hundreds two only	5004.00

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
20	Supply, delivery and fixing of 500 AMPS porcelain Fuse unit (500V) with fuse wire in the existing place inside the pump;room for Head Works	2 Nos.		No	2740.00	Rupees two thousands seven hundreds forty only	5480.00
21	Supply, delivery and fixing of 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.	40 KVR		KVAR	315.00	Rupees three hundreds fifteen only	12600.00
						Total - C	540212.00
IV	Cleaning of all storage points like sumps, stand posts of various capacities available in this scheme at a frequency of once in two months including scrapping the inner side of compartment completely, dewatering, desilting using required machineries , materials , labour, all incidental charges , application of bleaching powder/ solution etc complete and as directed by TWAD Board officers						
i	3.00 LL capacity of Collection sump @ Kodalikaruppur HW	1 No.		1 No. (One Number)	10592.38	Rupees ten thousands five hundreds ninety two and paise thirty eight only	10592.38
ii	3.00 LL capacity of sump @ Anaikudam BS	1 No.			10592.38	Rupees ten thousands five hundreds ninety two and paise thirty eight only	10592.38

Sl. No	Description of work	Quantity	Specifications	Unit	Rate		Amount
					in figures	in words.	
iii	1.00 LL capacity of sump @Udayarpalayam	1 No.			7973.67	Rupees seven thousands nine hundreds seventy three and paise sixty seven only	7973.67
						TOTAL - D	29158.43
	TOTAL (A+B+C+D) - 2A						2313726.08
					GRAND TOTAL (1A+2A)		3808716.72
	(Rupees Thirty eight lakhs eight thousand seven hundred and sixteen paise seventy two only)						

I /WE..... agree to execute all the above components of work at

..... percentage EXCESS / LESS over the Departmental Value mentioned above (the percentage should be mentioned both in words and figures)