

SCHEDULE - A

Name of Works : Replacement of connecting main, pumping main, pumpset and allied works in Outlived CWSS to Menalur H and 10 other habitations in Tiruvannamalai District for the year 2021-2022 under Capital Grant Fund (CGF).

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
1.0.0			Supply, Delivery and Laying of 100 mm and 150 mm DI Pipes and specials etc. for pumping main				
			Earth work excavation and depositing on bank with initial lead of 10 m and initial lift of 2m in narrow trenches for laying of pipes for water supply in the following types of soil				
			Hard stiff clay, stiff black cotton, hard red earth, shales, murrum gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil.				
1.1.1	300	M	100mm DI s/s k7 pipe	190.79	Rupees One Hundred Ninety and Paise Seventy Nine Only	1M (One Metre)	57,237.00
1.1.2	700	M	150mm DI s/s k7 pipe	190.79	Rupees One Hundred Ninety and Paise Seventy Nine Only	1M (One Metre)	1,33,553.00
1.2.0			Lowering of DI Pipes and specials into trenches carefully and laying to proper grade and alignment etc complete				
1.2.1	300	M	100mm DI s/s k7 pipe	15.80	Rupees Fifteen and Paise Eighty Only	1M (One Metre)	4,740.00
	700	M	150mm DI s/s k7 pipe	27.20	Rupees Twenty Seven and Paise Twenty Only	1M (One Metre)	19,040.00
1.3.0			Jointing C.I/ D.I-S/S pipes and specials with rubber gaskets (tyton joint) including cost of lubricants. (including cost of jointing materials)				

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
1.3.1	55	Joint	100mm DI s/s k7 pipe	59.70	Rupees Fifty Nine and Paise Seventy Only	1J (One Joint)	3,283.50
	128	Joint	150mm DI s/s k7 pipe	63.70	Rupees Sixty Three and Paise Seventy Only	1J (One Joint)	8,153.60
1.4.0			Refiling with excavated sand or other loose soil complying with standerd specification in layers of 15 cm thick well rammed and consolidated after pipes and specials are laid and tested				
1.4.1	300	M	100mm DI s/s k7 pipe	26.11	Rupees Twenty Six and Paise Eleven Only	1M (One Metre)	7,833.00
	700	M	150mm DI s/s k7 pipe	25.70	Rupees Twenty Five and Paise Seventy Only	1M (One Metre)	17,990.00
1.5.0			Supply and conveying of DI DUCTILE IRON SOCKET/SPIGOT PIPES FOR CLASS K7 AS PER IS 8329/2000 for standard length including cost of pipe,testing charges at factory ,labour charges for loading,unloading and stacking at site etc.				
1.5.1	300	M	100mm DI s/s k7 pipe	1138.00	Rupees One Thousand One Hundred Thirty Eight and Paise Zero Only	1M (One Metre)	3,41,400.00
1.5.2	700	M	150mm DI s/s k7 pipe	1615.00	Rupees One Thousand Six Hundred Fifteen and Paise Zero Only	1M (One Metre)	11,30,500.00
1.6.0	5	Nos	Supply and delivery of 50mm CI DAV	4283.00	Rupees Four Thousand Two Hundred Eighty Three and Paise Zero Only	1No (One Number)	21,415.00

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
1.7.0	2	Nos	Supply and delivery of 80mm CI sluice valve	4568.00	Rupees Four Thousand Five Hundred Sixty Eight and Paise Zero Only	1No (One Number)	9,136.00
1.8.0	1	Nos	Construction of Valve pit for fixing 50mm DAV in 150mm main	13990.00	Rupees Thirteen Thousand Nine Hundred Ninety and Paise Zero Only	1No (One Number)	13,990.00
1.9.0	358	kg	CI Specials (Socket tee- 30kg- 5 , Flanged tail piece - 26 kg -8 nos)	75.00	Rupees Seventy Five and Paise Zero Only	1Kg (One Kilogram)	26,850.00
					Total Rs.		17,95,121.10
2.0.0			Supply, Delivery and Laying of 80mm GI Pipes and specials etc. for pumping main				
2.1.0			Earth work excavation and depositing on bank with initial lead of 10 m and initial lift of 2m in narrow trenches for laying of pipes for water supply in the following types of soil				
			Hard stiff clay, stiff black cotton, hard red earth, shales, murrum gravel, stoney earth and earth mixed with small size boulders and hard gravelly soil.				
2.1.1	216	M	80mm GI Pipes	190.79	Rupees One Hundred Ninety and Paise Seventy Nine Only	1M (One Metre)	41,210.64
2.2.0			Lowering GI pipes and specials in the trenches and laying to proper grade and alignment and as directed by the TWAD Officers.				
2.2.1	216	M	80mm GI Pipes	23.40	Rupees Twenty Three and Paise Forty Only	1M (One Metre)	5,054.40

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
2.3.0			Cutting and threading of GI Pipes				
2.3.1	2	Nos.	80mm GI Pipes Cutting	28.70	Rupees Twenty Eight and Paise Seventy Only	1No (One Number)	57.40
2.3.2	4	Nos.	80mm GI Pipes Threading	62.20	Rupees Sixty Two and Paise Twenty Only	1No (One Number)	248.80
2.4.0			Refiling with excavated sand or other loose soil complying with standerd specification in layers of 15 cm thick well rammed and consolidated after pipes and specials are laid and tested.				
2.4.1	216	M	80mm GI Pipes	26.24	Rupees Twenty Six and Paise Twenty Four Only	1M (One Metre)	5,667.84
2.5.0			Supply and delivery of following pipe conforming to IS specifications				
2.5.1	216	M	80mm GI Pipes Medium	653.00	Rupees Six Hundred Fifty Three and Paise Zero Only	1M (One Metre)	1,41,048.00
2.6.0			Supply and delivery at site of following sizes of GI specials with ISI marking for jointing with GI Pipes including loading, freight unloading, stacking, insurance etc., complete and as directed by the TWAD Board officers				
2.6.1	38	Nos.	80mm GI Coupling	276.00	Rupees Two Hundred Seventy Six and Paise Zero Only	1No (One Number)	10,488.00
					Total Rs.		2,03,775.08

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
3.0.0			Supply, Delivery and Erection of 7.5 HP and 15 HP Open well sub. Pumpsets and accessories for Sump at HW and BS and allied works				
3.1.0			Supply and delivery of open well Sub.Pumpset conforming to IS 14220 / 2002 ans as amended there after and BEE 3 star rated capable of discharging the following duties due to all causes. the pump shall be stainless steel shaft and dynamically balanced bronze mixed type impeller, CI FG 200 grade casing and brass screws and rotor shall be of copper rod as per IS 613 / 1984 with ISI mark. The pump suitable for installation in sump with 1.1 KV grade 3 core suitable flat sub.cable of 15m with necessary cable joints. The non return valve located at the top of the pump in the discharge outlet connection is to be designed with minimum friction. The pump should be directly coupled to 2880 RPM, three phase 50 Hz (+/- 5) , 415 V + 6% and 415 V -15% squirrel cage induction motor suitable for DOL upto 5 HP, Fully Automatic Air break star delta upto 20 HP and auto transformer starter for above 20 HP starting and for continuous operation.				
3.1.1	2	Nos.	700 Lpm x 40 m for HW	55970.00	Rupees Fifty Five Thousand Nine Hundred Seventy and Paise Zero Only		1,11,940.00
3.1.2	2	Nos.	500 Lpm x 40 m for BS	44412.00	Rupees Forty Four Thousand Four Hundred Twelve and Paise Zero Only		88,824.00

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
3.2.0			Supply and delivery of Star-Delta starter where panel boards are available confirming to IS13947, IEC 60947-1 suitable KW rating for operation in AC/ three Phase/ 50Hz(+/- 5%) and 415V (+/-10%) including 3 pole magnetic contactor with under voltage release - 3 Nos., CT operated Ammeter(65 mm dia) with suppressed scale, Voltmeter (65mm dia), Voltmeter selector switch, Minature circuit breaker, Thermal Overload relay, Air Break contactors suitable for next Standard higher KW rating, Single phasing preventor, dry running preventor and On/Off Push button switches, wiring with 1 sq.mm/4 sq. mm copper pvc insulated cable, powder coated vermin proof box, including the capacitor(the cost of capacitor is to be taken separately)				
3.2.1	2	Nos.	For 7.5 HP	18220.00	Rupees Eighteen Thousand Two Hundred Twenty and Paise Zero Only	1No (One Number)	36,440.00
3.2.2	2	Nos.	For 15 HP	23938.00	Rupees Twenty Three Thousand Nine Hundred Thirty Eight and Paise Zero Only	1No (One Number)	47,876.00
3.3.1	2	Nos.	change over switch 100 amps	167.40	Rupees One Hundred Sixty Seven and Paise Forty Only	1No (One Number)	334.80
3.4.1	60	M	Supply and delivery of PVC insulated and sheathed 4 sq mm 3 core Flat type copper cable conforming to IS 694 / 1990	186.00	Rupees One Hundred Eighty Six and Paise Zero Only	1M (One Metre)	11,160.00

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
3.5.0			Supply and delivery of Non Return Valve .				
3.5.1	4	Nos	80mm Dia GM NRV	3344.00	Rupees Three Thousand Three Hundred Forty Four and Paise Zero Only	1No (One Number)	13,376.00
3.6.0			Supply and delivery of Gate Valve .				
3.6.1	4	Nos	80mm Dia GM	5113.00	Rupees Five Thousand One Hundred Thirteen and Paise Zero Only	1No (One Number)	20,452.00
3.6.2	3	Nos	150mmdia CI Double Air Valve	19413.00	Rupees Nineteen Thousand Four Hundred Thirteen and Paise Zero Only	1No (One Number)	58,239.00
3.7.0			Labour charges for the erection of submersible pumpset in borewell / openwell including fixing and jointing submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipes to the required depth valves erection clamps, pressure gauges upto the exterior wall of pump room and erection of panel board consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trail run for 10 days.				
3.7.1	2	Nos	5 to 10 HP	11517.60	Rupees Eleven Thousand Five Hundred Seventeen and Paise Sixty Only	1No (One Number)	23,035.20
3.7.2	2	Nos	10 to 20 HP	12778.40	Rupees Twelve Thousand Seven Hundred Seventy Eight and Paise Forty Only	1No (One Number)	25,556.80
3.8.0			Supply and delivery of following pipe conforming to IS specifications				

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
3.8.1	60	M	80mm GI Pipes Medium	653.00	Rupees Six Hundred Fifty Three and Paise Zero Only	1M (One Metre)	39,180.00
3.9.0			Supply and delivery at site of following sizes of GI specials with ISI marking for jointing with GI Pipes including loading, freight unloading, stacking, insurance etc., complete and as directed by the TWAD Board officers				
3.9.1	14	No.	80mm GI Elbow	446.00	Rupees Four Hundred Forty Six and Paise Zero Only	1No (One Number)	6,244.00
3.9.2	14	Nos.	80mm GI Coupling	276.00	Rupees Two Hundred Seventy Six and Paise Zero Only	1No (One Number)	3,864.00
3.9.3	14	Nos.	80mm GI Flange Set	112.00	Rupees One Hundred Twelve and Paise Zero Only	1No (One Number)	1,568.00
3.9.4	4	Nos	80mm MS Clamp set	538.00	Rupees Five Hundred Thirty Eight and Paise Zero Only	1No (One Number)	2,152.00
3.9.5	2	Nos	80mm GI Tee	557.00	Rupees Five Hundred Fifty Seven and Paise Zero Only	1No (One Number)	1,114.00
			PUMP HOUSING LIGHTING				
3.10.0			Providing pump house internal wiring and lighting as per IE rules including D.B wiring materials with 3/20 PVC insulated copper wire PVC conduit pipes with the following components.(4 PT SUMP)				
3.10.1	4	No	40W box type tube light - 1 No.	642.00	Rupees Six Hundred Forty Two and Paise Zero Only	1No (One Number)	2,568.00
3.11.1	2	No	Water tight bulk head fitting suitable for 100/60 watts lamp with guard heavy type (PHILIPS/ BAJAJ/ CROMPTON GREAVES/ EQUIVALENT)	274.90	Rupees Two Hundred Seventy Four and Paise Ninety Only	1No (One Number)	549.80

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
3.12.1	2	No	5 Amps /15 amps.3 pin flush type wall socket only.	54.00	Rupees Fifty Four and Paise Zero Only	1No (One Number)	108.00
3.13.1	2	No	Water proof 70 Watts sodium vapour fitting on the top of the pump house for external electrification and campus lighting	2405.00	Rupees Two Thousand Four Hundred Five and Paise Zero Only	1No (One Number)	4,810.00
3.14.1	2	No	Water proof 70 Watts sodium vapour lamp on the top of the pump house for external electrification and campus lighting	380.00	Rupees Three Hundred Eighty and Paise Zero Only	1No (One Number)	760.00
3.15.1	8	each	Providing lighting wiring using MS conduit pipes and specials with 2 runs 1.5 sq.mm PVC copper wire and 1 run 14 swg GI wire for earthing for light , fans and 5A plug points including switch box 5A switch sockets ceiling rose and consumables.	1113.00	Rupees One Thousand One Hundred Thirteen and Paise Zero Only	1E (One Each)	8,904.00
3.16.1	90	M	supply and delivery of PVC INSULATED SINGLE CORE MULTI STRAND FIRE RETARDANT FLEXIBLE COPPER CABLE WITH ISI MARK CONFORMING TO IS 140/0.3 (10 sq.mm)	85.30	Rupees Eighty Five and Paise Thirty Only	1M (One Metre)	7,677.00
					Total Rs.		5,16,732.60
4.0.0			Supply, Delivery and Laying of 95, 50 sq mm 3 Core 1.1 KV Grade Armoured Aluminium Conductor Cable				
4.1.0			Supply and delivery of LT 3 Core 1.1 KV Grade Armoured Aluminium conductor cross linked Polyethylene insulated PVC sheathed cables conforming to IS 7098 (part I) /1988 with ISI Marking				
4.1.1	800	M	95 sqmm Cable (For IW-I)	420.00	Rupees Four Hundred Twenty and Paise Zero Only	1M (One Metre)	3,36,000.00
4.1.2	400	M	50 sqmm Cable (For OW)	243.00	Rupees Two Hundred Forty Three and Paise Zero Only	1M (One Metre)	97,200.00

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
4.2.0			Laying of 3 Core Aluminium Armoured cable - Below GL including earth work per meter				
4.2.1	1160	M	upto 95 sqmm Cable	160.00	Rupees One Hundred Sixty and Paise Zero Only	1M (One Metre)	1,85,600.00
4.3.0			Inside the pump room or air in meter				
4.3.1	40	M	upto 95 sqmm Cable	103.00	Rupees One Hundred Three and Paise Zero Only	1M (One Metre)	4,120.00
					Total Rs.		6,22,920.00
5.0.0			Desilting of Infiltration well and Reconstruction of Cover slab, Weathering course Pumproom at HW				
5.1.1	2.219	cum	Dismantling Cement concrete and Reinforced cement concrete are exclusive of bailing charges and the rate is same for all floors etc.	5800.00	Rupees Five Thousand Eight Hundred and Paise Zero Only	1M3 (One Cubic metre)	12,870.20
5.2.1	1	each	Removal of Cent.pumpset/ Jet pumpset / Sub.pumpsets and its accessories from open well for attending repairs. 15 HP Sub pumpset	6389.20	Rupees Six Thousand Three Hundred Eighty Nine and Paise Twenty Only	1E (One Each)	6,389.20
5.3.1	2.219	cum	Reinforced cement concrete M 30 Mix using 20mm and 10mm machine crushed HBG stone jelly excluding cost of centering, strutting, supply and fabricating of steel reinforcement but including cost of curing etc.complete.	5957.76	Rupees Five Thousand Nine Hundred Fifty Seven and Paise Seventy Six Only	1M3 (One Cubic metre)	13,220.27
5.4.0			Providing steel centering using MS plates of size 90 x 60cm - 13G to 10 G thick welded with 25mm x 3mm MS angles supported with country wood scantling of size 10cm x 6.5cm at 50cm c/c strutting with casurina props of 10cm to 13cm dia.				
5.4.1	15.671	sqm	For plane surface	831.00	Rupees Eight Hundred Thirty One and Paise Zero Only	1M2 (One Square metre)	13,022.60

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
5.4.2	1.697	sqm	For Curved surface	1246.50	Rupees One Thousand Two Hundred Forty Six and Paise Fifty Only	1M2 (One Square metre)	2,115.31
5.5.1	1.76	Qtl	Supply, delivery fabrication and placing in position of RTS rods for reinforcement for binding ring for roof slab including cost of binding wire etc.	7839.80	Rupees Seven Thousand Eight Hundred Thirty Nine and Paise Eighty Only	1Q (One Quintal)	13,798.05
5.6.1	2	each	Supply, delivery and fixing in position 50mm thick RCC manhole cover slab of size 0.60m x 0.60m with necessary reinforcement and MS angle of size 50 x 50 x 6mm thick fixed around the edge of the roof slab complete.	600.00	Rupees Six Hundred and Paise Zero Only	1E (One Each)	1,200.00
5.7.1	1	each	Reeraction of Sub. Pumpset after construction of slab	6389.20	Rupees Six Thousand Three Hundred Eighty Nine and Paise Twenty Only	1E (One Each)	6,389.20
5.8.1	27.154	sqm	Painting two coats with approved cement paint over one priming coat of white cement over cement plastered wall surface and ceiling including cleaning preparing the surface and curing etc., complete.	173.00	Rupees One Hundred Seventy Three and Paise Zero Only	1M2 (One Square metre)	4,697.64
5.9.1	15.911	cum	Desilting light or sandysoil or silt from infiltration wells below water level including the charges for special T&P and air compressor etc. complete.	1834.70	Rupees One Thousand Eight Hundred Thirty Four and Paise Seventy Only	1M3 (One Cubic metre)	29,191.91
5.10.1	3.115	m3	PUMP ROOM -Weathering course with broken Brick Jelly of 20 mm size in pure slaked lime (no sand to be used) over RCC Roof slab with proportion being 32:12 1/2 for required depth of 80mm thickness over the roof slab as required well beaten with wooden beaters for giving required slope complying with standard specification etc., complete and as directed by TWAD Board Officers.	1399.02	Rupees One Thousand Three Hundred Ninety Nine and Paise Two Only	1M3 (One Cubic metre)	4,357.95
					Total Rs.		1,07,252.33

Sl. No.	Probable Quantity		Description of Work	Rate (Both in figures & Words)Rs.		Unit in Words & Figures	Amount in Rs.
6.0.0			White washing, Colour washing and writing TWAD Board emblem and scheme details				
6.1.1	217.78	m2	Colour washing two coats with approved cement paint for the cement plastered surfaces	173.00	Rupees One Hundred Seventy Three and Paise Zero Only	1M2 (One Square metre)	37,675.94
6.2.1	181.06	m2	White washing two coats using fine screened shell lime for the new plastered surface for inner and outer side of the room including the cost of materials labour charges etc., complete and as directed by TWAD Board Officers.	29.05	Rupees Twenty Nine and Paise Five Only	1M2 (One Square metre)	5,259.79
6.3.1	6	m2	Writing TWAD Board emblem and scheme details	2677.40	Rupees Two Thousand Six Hundred Seventy Seven and Paise Forty Only	1M2 (One Square metre)	16,064.40
					Total Rs.		59,000.13
			One month free maintenance of pipeline, Pumpset after completion of works.				
						Sub Total Rs.	33,04,801.24
						GST 12%	3,96,576.15
						Total Rs.	37,01,377.39

Total Rs.3701377.3920928

Rupees Thirty Seven Lakhs One Thousand Three Hundred Seventy Seven and Paise Thirty Nine Only

I/We, hereby agree to execute the above item of work at % excess over / less then the value mentioned above.

1. The percentage filled by the contractor both in figures and words by using two decimal only .
2. If there is any discrepancy in percentage quoted in words and in figures, the lowest of the two will be considered.
3. If no percentage is quoted, the workers value will be taken as quoted price
4. If the contractor failed to score out the word either excess or less. The word less alone will be taken into consideration.