

TWAD BOARD, RWS DIVISION, KANCHIPURAM

Name of work: Outsourcing the Operation and Maintenance of Combined Water supply Scheme for the Year 2022 - 23 to Muthiyalpet and 26 Other Habitations in Kanchipuram District.

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
1	CWSS to Muthiyalpet and 26 Other Habitations						
	Operation and Maintenance of the Electro Mechanical installations, equipments, 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 Annexure, carrying out the O&M as per standard operating procedures, Acts and rules in force 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 .	395.20	1 MLD	1 MLD (One Million Litre Day)	2518.24	Rupees Two Thousand Five Hundred & Eighteen - Paise Twenty Four Only	995208.45
A	ATTENDING LEAKS/BURSTS IN THE PVC & DI PIPELINES						
1	Earth work Excavation and Depositing on bank with initial lead of 10 m and lift of 2m in Sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth SS 20 B.						
a	250mm AC PIPES	4.60	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	1483.50
b	200mm AC PIPES	4.67	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	1506.08
2	Earth work Excavation and Depositing on bank with initial lead of 10 m and lift of 2m in hard stiff clay, stiff black cotton soil, hard red earth, shales, murram, gravelly soil and earth mixed with small size boulders as per SS20B.						
a	110mm PVC 4KSC Pipes	7.14	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	3448.62
b	90mm PVC 4KSC Pipes	4.77	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	2303.91
3	Refilling the trench with excavated sand complying with the standard specification after attending the jointing work and testing etc., complete						

CONTRACTOR

EXECUTIVE ENGINEER

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
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a	250mm AC PIPES	4.60	m3	1Cum (One Cubic Metre)	29.30	Rupees Twenty Nine - Paise Thirty Only	134.78
b	200mm AC PIPES	4.67	m3	1Cum (One Cubic Metre)	29.30	Rupees Twenty Nine - Paise Thirty Only	136.83
4	Refilling the trench with excavated soil (other than sand) complying with the standard specification after attending the jointing work and testing etc., complete						
a	160mm PVC 4KSC Pipes	7.08	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	237.89
b	140mm PVC 4KSC Pipes	7.11	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	238.90
c	110mm PVC 4KSC Pipes	7.14	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	239.90
d	90mm PVC 4KSC Pipes	4.77	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	160.27
5	Labour Charges for Jointing the following D.I-S/S pipes and specials with neat cement or cement mortar and spun yarn including caulking the joints, curing. (including cost of jointing materials)						
a	250mm AC Pipes	2.00	Joint	1 No (Each)	401.70	Rupees Four Hundred & One - Paise Seventy Only	803.40
b	200mm AC Pipes	2.00	Joint	1 No (Each)	339.50	Rupees Three Hundred & Thirty Nine - Paise Fifty Only	679.00
6	Supply and delivery of following A.C.PRESSURE PIPES AS PER IS 1592 / 2003						
a	250mm AC Pipes	2.00	m	1M (One Metre)	1500.00	Rupees One Thousand Five Hundred Only	3000.00
b	200mm AC Pipes	2.00	m	1M (One Metre)	1184.00	Rupees One Thousand One Hundred & Eighty Four Only	2368.00
7	Supply and delivery of the following PVC Pipes as per IS 4985/2000						
a	160mm PVC 4KSC Pipes	2.00	m	1M (One Metre)	465.50	Rupees Four Hundred & Sixty Five - Paise Fifty Only	931.00
b	140mm PVC 4KSC Pipes	2.00	m	1M (One Metre)	357.50	Rupees Three Hundred & Fifty Seven - Paise Fifty Only	715.00
c	110mm PVC 4KSC Pipes	2.00	m	1M (One Metre)	216.50	Rupees Two Hundred & Sixteen - Paise Fifty Only	433.00
d	90mm PVC 4KSC Pipes	2.00	m	1M (One Metre)	151.00	Rupees One Hundred & Fifty One Only	302.00
8	Supply and delivery of the following PVC Specials as per IS 10124/1982 Part II						
a	160mm PVC 4KSC Coupler	2.00	No	1 No (Each)	93.00	Rupees Ninety Three Only	186.00
b	140mm PVC 4KSC Coupler	2.00	No	1 No (Each)	60.00	Rupees Sixty Only	120.00
c	110mm PVC 4KSC Coupler	2.00	No	1 No (Each)	33.00	Rupees Thirty Three Only	66.00
d	90mm PVC 4KSC Coupler	2.00	No	1 No (Each)	21.00	Rupees Twenty One Only	42.00
e	110mm PVC 4KSC Bend	1.00	No	1 No (Each)	111.00	Rupees One Hundred & Eleven Only	111.00
f	90mm PVC 4KSC Bend	1.00	No	1 No (Each)	65.00	Rupees Sixty Five Only	65.00

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9	Removing the following burst PVC pipe in the maintenance works when burst occurs and replacing it with sound pipes including the cost of refilling the trench and the removal of slushy soil etc., complete (pipes and special jointing materials will be supplied with in 200mm lead and at the respective TWAD Board divisional stores free of cost), 2 times ordinary rate allowed for the works are done during day time since the works are done in confined reaches.						
a	160mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	2020.80	Rupees Two Thousand & Twenty - Paise Eighty Only	2020.80
b	140mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	2020.80	Rupees Two Thousand & Twenty - Paise Eighty Only	2020.80
c	110mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	1380.20	Rupees One Thousand Three Hundred & Eighty - Paise Twenty Only	1380.20
d	90mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	1136.60	Rupees One Thousand One Hundred & Thirty Six - Paise Sixty Only	1136.60
10	Dewatering using 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.						
	3HP Diesel Engine	2.00	Hrs	1 Hour (One Hour)	233.20	Rupees Two Hundred & Thirty Three - Paise Twenty Only	466.40
11	Providing PCC 1:2:4 using 20mm HBG including mixing concrete, laying, curing, and compacting of concrete, etc., complete for arresting the leaks and including cost of all materials and as directed by the TWAD Board Officers	1.00	m3	1 Cum (One Cubic Metre)	5650.50	Rupees Five Thousand Six Hundred & Fifty - Paise Fifty Only	5650.50
12	Hire charges for deploying earth moving machinery (JCB/Poclaim) for earthwork including diesel, oil and labour charges etc., complete.	2.00	Hrs	1 Hour (One Hour)	784.00	Rupees Seven Hundred & Eighty Four Only	1568.00
B	ATTENDING PUMPSET REPAIR IN THE SOURCES & COLLECTION SUMP						
1	Labour charges for Removal of Infiltration Submersible Pumpset and its accessories from the Sources/Collection Sump including disjointing the submersible cable, etc., complete for the rewinding work.						
a	3.0HP -3Nos (Monobloc)	1.00	Job	1 No (Each)	3695.90	Rupees Three Thousand Six Hundred & Ninety Five - Paise Ninety Only	3695.90
b	5.0HP -3Nos (Monobloc)	1.00	Job	1 No (Each)	4757.05	Rupees Four Thousand Seven Hundred & Fifty Seven - Paise Five Only	4757.05
c	5.0HP -7Nos (Submersible)	1.00	Job	1 No (Each)	5025.55	Rupees Five Thousand & Twenty Five - Paise Fifty Five Only	5025.55
d	7.50 HP- 5Nos.	1.00	Job	1 No (Each)	5758.80	Rupees Five Thousand Seven Hundred & Fifty Eight - Paise Eighty Only	5758.80
e	20.0HP-2Nos (HSC)	1.00	Job	1 No (Each)	5574.40	Rupees Five Thousand Five Hundred & Seventy Four - Paise Fourty Only	5574.40
2	Labour charges for Re -erection of Openwell Submersible Pumpset and its accessories after rewinding work into Sources/Collection Sump						
a	3.0HP -3Nos (Monobloc)	1.00	Job	1 No (Each)	3695.90	Rupees Three Thousand Six Hundred & Ninety Five - Paise Ninety Only	3695.90
b	5.0HP -3Nos (Monobloc)	1.00	Job	1 No (Each)	4757.05	Rupees Four Thousand Seven Hundred & Fifty Seven - Paise Five Only	4757.05
c	5.0HP -7Nos (Submersible)	1.00	Job	1 No (Each)	5025.55	Rupees Five Thousand & Twenty Five - Paise Fifty Five Only	5025.55
d	7.50 HP- 5Nos.	1.00	Job	1 No (Each)	5758.80	Rupees Five Thousand Seven Hundred & Fifty Eight - Paise Eighty Only	5758.80
e	20.0HP-2Nos (HSC)	1.00	Job	1 No (Each)	5574.40	Rupees Five Thousand Five Hundred & Seventy Four - Paise Fourty Only	5574.40

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
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3	Labour charges for Rewinding of the Openwell Submersible Pumpset with first class insulation wire including removal of burnt coil, servicing the motor testing, commissioning, etc., Complete						
a	3.0HP -3Nos (Monobloc)	1.00	Job	1 No (Each)	4400.00	Rupees Four Thousand Four Hundred Only	4400.00
b	5.0HP -3Nos (Monobloc)	1.00	Job	1 No (Each)	4850.00	Rupees Four Thousand Eight Hundred & Fifty Only	4850.00
c	5.0HP -7Nos (Submersible)	1.00	Job	1 No (Each)	4850.00	Rupees Four Thousand Eight Hundred & Fifty Only	4850.00
d	7.50 HP- 5Nos.	1.00	Job	1 No (Each)	6340.00	Rupees Six Thousand Three Hundred & Fourty Only	6340.00
e	20.0HP-2Nos (HSC)	1.00	Job	1 No (Each)	10260.00	Rupees Ten Thousand Two Hundred & Sixty Only	10260.00
4	Labour charges for Servicing the Pumpset including cost of Pump bushes, Motor bushes, Supply and fixing of Gunmetal bushes, Oil seal, thrust bearing, bolt and nuts, including Conveyance, etc., Complete						
a	3.0HP -3Nos (Monobloc)	1.00	Job	1 No (Each)	2100.00	Rupees Two Thousand One Hundred Only	2100.00
b	5.0HP -3Nos (Monobloc)	1.00	Job	1 No (Each)	2200.00	Rupees Two Thousand Two Hundred Only	2200.00
c	5.0HP -7Nos (Submersible)	1.00	Job	1 No (Each)	2200.00	Rupees Two Thousand Two Hundred Only	2200.00
d	7.50 HP- 5Nos.	1.00	Job	1 No (Each)	2850.00	Rupees Two Thousand Eight Hundred & Fifty Only	2850.00
e	20.0HP-2Nos (HSC)	1.00	Job	1 No (Each)	4800.00	Rupees Four Thousand Eight Hundred Only	4800.00
5	Supply and Delivery of the following PVC Insulated and Sheathed 3 Core Flat type Copper Cable confirming to IS 694/1990 and as amended thereafter for erecting into the sources						
a	4 Sq.mm	5.00	m	1M (One Metre)	186.00	Rupees One Hundred & Eighty Six Only	930.00
6	Attending the Cable fault in the following sizes of Aluminium Armoured Cable of Sources						
a	Earth work Excavation and Depositing on bank with initial lead of 10 m and lift of 2m in Sand, silt or other loose soil, wet sand or silt not under water, light black cotton soil, sandy loam and ordinary soil including excavated earth SS 20 B.						
	35 Sq.mm LT Cables	8.99	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	2899.28
	50 Sq.mm LT Cables	8.97	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	2892.83
b	Labour charges for Jointing of the following LT Cables - 3 Core 1.1 KV Grade Armoured Aluminium Conductor Cable Confirming to IS 1554 and as amended thereafter Part I with ISI Marking including cost of jointing materials, testing and commissioning etc., Complete						
	35 Sq.mm LT Cables	1.00	Joint	1 No (Each)	183.00	Rupees One Hundred & Eighty Three Only	183.00
	50 Sq.mm LT Cables	1.00	Joint	1 No (Each)	242.00	Rupees Two Hundred & Fourty Two Only	242.00
c	Refilling the trench with excavated sand after attending the cable fault in LT Cables and jointing, etc, complete.						
	35 Sq.mm LT Cables	8.99	m3	1Cum (One Cubic Metre)	29.30	Rupees Twenty Nine - Paise Thirty Only	263.41

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
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	50 Sq.mm LT Cables	8.97	m3	1Cum (One Cubic Metre)	29.30	Rupees Twenty Nine - Paise Thirty Only	262.82
d	Supply and delivery of the following 3 Core Armoured Aluminium Conductor Cross Linked Polyethylene Insulated PVC Sheathed Cables Conforming to IS 7098 (PART I)/1988 with ISI Marking						
	35 Sq.mm LT Cables	5.00	m	1M (One Metre)	184.00	Rupees One Hundred & Eighty Four Only	920.00
	50 Sq.mm LT Cables	5.00	m	1M (One Metre)	243.00	Rupees Two Hundred & Forty Three Only	1215.00
7	Supply, Delivery and Fixing of the following Electrical Items required for the Openwell Submersible Pumpset in the pumproom.						
	Charges for removing the burnt power capacitor and labour charges for fixing the new 3 KVAR capacitor suitable length copper cable wiring this panel board testing etc. complete after adjusted the old scrap materials.	1.00	KVAR	1 KVAR	461.00	Rupees Four Hundred & Sixty One Only	461.00
8	Cleaning of all storage points like sumps, elevated reservoirs of various capacities available in this scheme at a frequency of once in three months including scrapping the inner side of compartment completely, scouring / dewatering / desilting using required machineries, materials, labour and all other incidental charges, application of bleaching powder/ solution etc complete.						
	1.00LL Sump	1.00	Nos	1 No (Each)	4221.00	Rupees Four Thousand Two Hundred & Twenty One Only	4221.00
	0.50LL Sump	1.00	Nos	1 No (Each)	2532.00	Rupees Two Thousand Five Hundred & Thirty Two Only	2532.00
	0.60LL Sump -2 Nos	1.00	Nos	1 No (Each)	2532.00	Rupees Two Thousand Five Hundred & Thirty Two Only	2532.00
9	Supply and delivery of the following Electrical Works :consumable items at the site of work to carryout the general maintenace works						
	3HP Starter	1.00	Nos	1 No (Each)	5249.00	Rupees Five Thousand Two Hundred & Fourty Nine Only	5249.00
						Sub Total -I Rs	11,48,440.57
						Sub Total -I & II Rs	11,48,440.57

Rupees Eleven Lakh Fourty Eight Thousand Four Hundred & Fourty - Paise Fifty Seven Only

I/We agree to the execute all the above components of works atpercentage Execss/Less over the department value mentioned above
(The percentage should be mentioned both in words and figure)

CONTRACTOR

EXECUTIVE ENGINEER