

TWAD BOARD, RWS DIVISION, CHENGALPATTU							
Name of work: Outsourcing the Operation and Maintenance of Combined Water supply Scheme for the Year 2022 - 23 to Ozhalur and 6 Other Habitations and WSS to Medipark and integrated vaccine complex in Chengalpattu District.							
Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
1	CWSS to Ozhalur and 6 Other Habitations in Chengalpattu District.						
	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 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 .(CWSS to Ozhalur and 6 Other Habitations and WSS to Medipark and integrated vaccine complex in Chengalpattu District.)	585.90	1 MLD	1 MLD (One Million Litre Day)	830.17	Rupees Eight Hundred & Thirty - Paise Seventeen Only	486396.60
	CWSS to Ozhalur and 6 Other Habitations in Chengalpattu District.						
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 as per SS20B.						
a	150mm CI pipes	3.55	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	1143.91
b	150mm DI pipes	3.58	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	1153.73
2	Refilling the trench with excavated sand complying with the standard specification after attending the jointing work and testing etc., complete						
a	150mm CI pipes	3.55	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	119.18
B	150mm DI pipes	3.58	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	120.17
3	Labour Charges for Jointing the following pipes and specials with neat cement or cement mortar and spun yarn including caulking the joints, curing. (including cost of jointing materials)						
A	150mm CI pipes	2.00	Joint	1 No (Each)	215.60	Rupees Two Hundred & Fifteen - Paise Sixty Only	431.20

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
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4	Supply and delivery of following GI PIPES AS PER IS 1239/part I/2004						
a	100 MM GI PIPE	1.00	m	1M (One Metre)	930.00	Rupees Nine Hundred & Thirty Only	930.00
5	Supply and delivery of the following GI specials as per IS 1239/part I/2004						
a	GI COUPLING -100MM	1.00	No	1 No (Each)	552.00	Rupees Five Hundred & Fifty Two Only	552.00
b	GI FLANGE SET -100MM	1.00	No	1 No (Each)	185.00	Rupees One Hundred & Eighty Five Only	185.00
6	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.						
a	3HP Diesel Engine	2.00	Hrs	1 Hour (One Hour)	233.20	Rupees Two Hundred & Thirty Three - Paise Twenty Only	466.40
7	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	1Cum (One Cubic Metre)	5720.22	Rupees Five Thousand Seven Hundred & Twenty - Paise Twenty Two Only	5720.22
8	Hire charges for deploying earth moving machinery (JCB/Poclain) 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
9	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	2.00	m	1M (One Metre)	186.00	Rupees One Hundred & Eighty Six Only	372.00
10	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.						
	70 Sq.mm LT Cables	11.92	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	3844.20
	25 Sq.mm LT Cables	11.99	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	3866.78
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						
	70 Sq.mm LT Cables	2.00	Joint	1 No (Each)	242.00	Rupees Two Hundred & Fourty Two Only	484.00
	25 Sq.mm LT Cables	2.00	Joint	1 No (Each)	148.00	Rupees One Hundred & Fourty Eight Only	296.00
c	Refilling the trench with excavated sand after attending the cable fault in LT Cables and jointing, etc, complete.						
	70 Sq.mm LT Cables	11.92	m3	1Cum (One Cubic Metre)	29.50	Rupees Twenty Nine - Paise Fifty Only	351.64
	25 Sq.mm LT Cables	11.99	m3	1Cum (One Cubic Metre)	29.50	Rupees Twenty Nine - Paise Fifty Only	353.71

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
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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						
	70 Sq.mm LT Cables	1.00	m	1M (One Metre)	321.00	Rupees Three Hundred & Twenty One Only	321.00
	25 Sq.mm LT Cables	1.00	m	1M (One Metre)	150.00	Rupees One Hundred & Fifty Only	150.00
a	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.	3.33	KVAR	1 KVAR	461.00	Rupees Four Hundred & Sixty One Only	1535.13
11	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.						
a	0.03 LL sump (Headworks and bs)	4.00	Nos	1 No (Each)	4450.00	Rupees Four Thousand Four Hundred & Fifty Only	17800.00
12	Supply and delivery of the following Electrical Works :consumable items at the site of work to carryout the general maintenace works						
a	Voltmeter	1.00	Nos	1 No (Each)	284.00	Rupees Two Hundred & Eighty Four Only	284.00
b	Ammeter	1.00	Nos	1 No (Each)	547.00	Rupees Five Hundred & Fourty Seven Only	547.00
c	Bulbs (led/Tube/Incadescent/others)	2.00	Nos	1 No (Each)	338.00	Rupees Three Hundred & Thirty Eight Only	676.00
d	3HP starter	1.00	Nos	1 No (Each)	5249.00	Rupees Five Thousand Two Hundred & Fourty Nine Only	5249.00
13	Supply and Delivery of the following consumable items for pumpset repairs at the site of work to carry out the general maintenance works						
a	50mm GM Gate valve	1.00	Nos	1 No (Each)	2463.00	Rupees Two Thousand Four Hundred & Sixty Three Only	2463.00
b	80mm GM Gate valve	1.00	Nos	1 No (Each)	5113.00	Rupees Five Thousand One Hundred & Thirteen Only	5113.00
c	R I Sheet	1.00	kg	1kg(kilogram)	96.00	Rupees Ninety Six Only	96.00
d	100mm GI pipe	1.00	m	1M (One Metre)	930.00	Rupees Nine Hundred & Thirty Only	930.00

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	WSS to Medipark and integrated vaccine complex in Chengalpattu District.						
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 as per SS20B.						
a	125mm CI pipes	3.56	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	1148.10
2	Refilling the trench with excavated sand complying with the standard specification after attending the jointing work and testing etc., complete						
a	125mm CI pipes	3.56	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	119.62
3	Labour Charges for Jointing the following pipes and specials with neat cement or cement mortar and spun yarn including caulking the joints, curing. (including cost of jointing materials)						
A	125mm CI pipes	2.00	Joint	1 No (Each)	187.10	Rupees One Hundred & Eighty Seven - Paise Ten Only	374.20
4	Earth work Excavation and Depositing on bank with initial lead of 10 m and lift of 2m in hard stiff clay, stiff block cotton soil, hard red earth, shales, murram, gravelly soil and earth mixed with small size boulders as per SS20B.						
	200mm DI pipes	5.83	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	2815.89
5	Refilling the trench with excavated sand complying with the standard specification after attending the jointing work and						
	200mm DI pipes	5.83	m3	1Cum (One Cubic Metre)	29.50	Rupees Twenty Nine - Paise Fifty Only	171.99
6	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)						
	200mm DI pipes	2.00	Joint	1 No (Each)	339.50	Rupees Three Hundred & Thirty Nine - Paise Fifty Only	679.00
8	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.						
a	3HP Diesel Engine	2.00	Hrs	1 Hour (One Hour)	233.20	Rupees Two Hundred & Thirty Three - Paise Twenty Only	466.40

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
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9	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	1Cum (One Cubic Metre)	5720.22	Rupees Five Thousand Seven Hundred & Twenty - Paise Twenty Two Only	5720.22
12	Hire charges for deploying earth moving machinery (JCB/Poclain) 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 openwell Submersible Pumpset and its accessories from the Sources/Collection Sump including disjoining the submersible cable, etc., complete for the rewinding work.						
a	5.0 HP	1.00	Job	1 No (Each)	5758.80	Rupees Five Thousand Seven Hundred & Fifty Eight - Paise Eighty Only	5758.80
2	Labour charges for Re –erection of Openwell Submersible Pumpset and its accessories after rewinding work into Sources/Collection Sump						
b	5.0 HP	1.00	Job	1 No (Each)	5758.80	Rupees Five Thousand Seven Hundred & Fifty Eight - Paise Eighty Only	5758.80
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						
b	5.0 HP	1.00	Job	1 No (Each)	4850.00	Rupees Four Thousand Eight Hundred & Fifty Only	4850.00
1	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	2.00	m	1M (One Metre)	186.00	Rupees One Hundred & Eighty Six Only	372.00
2	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.						

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
	25 Sq.mm LT Cables	11.99	m3	1Cum (One	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	3866.78
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						
	25 Sq.mm LT Cables	2.00	Joint	1 No (Each)	148.00	Rupees One Hundred & Fourty Eight Only	296.00
c	Refilling the trench with excavated sand after attending the cable fault in LT Cables and jointing, etc, complete.						
	25 Sq.mm LT Cables	11.99	m3	1Cum (One Cubic Metre)	29.50	Rupees Twenty Nine - Paise Fifty Only	353.71
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						
	25 Sq.mm LT Cables	3.00	m	1M (One Metre)	150.00	Rupees One Hundred & Fifty Only	450.00
e	Supply, Delivery and Fixing of the following Electrical Items required for the Openwell Submersible Pumpset in the pumproom.						
	supply and fixing of 100 Amps three phase 500 v 4 pole change	1.00	No	1 No (Each)	5127.00	Rupees Five Thousand One Hundred & Twenty Seven Only	5127.00
3	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.	1.67	KVAR	1 KVAR	461.00	Rupees Four Hundred & Sixty One Only	769.87
12	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.						
a	100000 LL sump	4.00	Nos	1 No (Each)	7150.00	Rupees Seven Thousand One Hundred & Fifty Only	28600.00
13	Supply and delivery of the following Electrical Works :consumable items at the site of work to carryout the general maintenace works						
a	Voltmeter	1.00	Nos	1 No (Each)	284.00	Rupees Two Hundred & Eighty Four Only	284.00
b	Ammeter	1.00	Nos	1 No (Each)	547.00	Rupees Five Hundred & Fourty Seven Only	547.00
c	Bulbs (led/Tube/Incadescent/others)	1.00	Nos	1 No (Each)	338.00	Rupees Three Hundred & Thirty Eight Only	338.00
d	5HP starter	1.00	Nos	1 No (Each)	5249.00	Rupees Five Thousand Two Hundred & Fourty Nine Only	5249.00
e	Fully automaticair break star delta starter	1.00	Nos	1 No (Each)	35172.00	Rupees Thirty Five Thousand One Hundred & Seventy Two Only	35172.00
						Sub Total -I Rs	6,54,375.25
	Service charges @ 10% for labour cost (CWSS to Ozhalur and 6 Other Habitations and WSS to Medipark and integrated vaccine complex in Chengalpattu District.) Rs						42,203.75
						GRAND TOTAL	6,96,579.00

Rupees Six Lakh Ninety Six Thousand Five Hundred & Seventy Nine 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