

NAME OF THE WORK : OPERRATION AND MAINTENANCE OF THE FOLLOWING CWSS FOR THE YEAR 2022-23 IN CHENGALPATTU DISTRICT		
S.No	Description of work	Amount in Rs
1	Outsourcing the Operation and Maitenance of Combained Water supply Scheme to Vaiyavoor -Kallapiranpuram and 20 Other Habitations in Chengalpattu District.(SCHEDULE A)	886918.00
2	Outsourcing the Operation and Maitenance of Combained Water supply Scheme to Budur Tatchur in Chengalpattu District. (SCHEDULE B)	186523.00
3	Outsourcing the Operation and Maitenance of Combained Water supply Scheme to Murukancheri - Valarpirai in Chengalpattu District. (SCHEDULE C)	178326.00
	GRAND TOTAL	1251767.00

“ I/We hereby agree to execute the above items of work at
.....percentage Excess / Less over the
Departmental value mentioned above"

TWAD BOARD, RWS DIVISION, CHENGALPATTU

Name of work: Outsourcing the Operation and Maintenance of Combined Water supply Scheme for the Year 2022 - 23 to Vaiyavoor -Kallapiranpuram and 20 Other Habitations in Chengalpattu District.

SCHEDULE A

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
1	CWSS to Vaiyavoor -Kallapiranpuram and 20 Other Habitations in Chengalpattu District.						
	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 .	74.40	1 MLD	1 MLD (One Million Litre Day)	8830.61	Rupees Eight Thousand Eight Hundred & Thirty - Paise Sixty One Only	656997.38
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	100mm DI K7 Pipes	4.36	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	1406.06
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	19.63	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	9481.29
b	90mm PVC 4KSC Pipes	4.36	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	2112.81
c	75mm PVC 4KSC Pipes	4.38	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	2115.54
d	63mm PVC 4KSC Pipes	13.16	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	6356.28

CONTRACTOR

EXECUTIVE ENGINEER

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
e	50mm PVC 6KSC Pipes	13.18	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	6365.94
3	Refilling the trench with excavated sand complying with the standard specification after attending the jointing work and testing etc., complete						
a	100mm DI K7 Pipes	4.37	m3	1Cum (One Cubic Metre)	29.50	Rupees Twenty Nine - Paise Fifty Only	128.92
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	110mm PVC 4KSC Pipes	19.63	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	659.57
b	90mm PVC 4KSC Pipes	4.37	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	146.83
c	75mm PVC 4KSC Pipes	4.38	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	147.17
d	63mm PVC 4KSC Pipes	13.16	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	442.18
e	50mm PVC 6KSC Pipes	13.18	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	442.85
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	100mm DI K7 Pipes	2.00	Joint	1 No (Each)	143.90	Rupees One Hundred & Fourty Three - Paise Ninety Only	287.80
6	Supply and delivery of following DI socket/spigot pipes for class K7 as per IS 8329/2000						
	100mm DI K7 Pipes	2.00	m	1M (One Metre)	1138.00	Rupees One Thousand One Hundred & Thirty Eight Only	2276.00
7	Supply and delivery of the following PVC Pipes as per IS 4985/2000						
a	110mm PVC 4KSC Pipes	15.00	m	1M (One Metre)	216.50	Rupees Two Hundred & Sixteen - Paise Fifty Only	3247.50
b	90mm PVC 4KSC Pipes	4.00	m	1M (One Metre)	151.00	Rupees One Hundred & Fifty One Only	604.00
c	75mm PVC 4KSC Pipes	4.00	m	1M (One Metre)	109.00	Rupees One Hundred & Nine Only	436.00
d	63mm PVC 4KSC Pipes	12.00	m	1M (One Metre)	78.50	Rupees Seventy Eight - Paise Fifty Only	942.00
e	50mm PVC 6KSC Pipes	12.00	m	1M (One Metre)	69.50	Rupees Sixty Nine - Paise Fifty Only	834.00
8	Supply and delivery of the following PVC Specials as per IS 10124/1982 Part II						
a	110mm PVC 4KSC Coupler	8.00	No	1 No (Each)	33.00	Rupees Thirty Three Only	264.00
b	90mm PVC 4KSC Coupler	8.00	No	1 No (Each)	21.00	Rupees Twenty One Only	168.00
c	75mm PVC 4KSC Coupler	8.00	No	1 No (Each)	13.00	Rupees Thirteen Only	104.00
d	63mm PVC 4KSC Coupler	8.00	No	1 No (Each)	9.00	Rupees Nine Only	72.00
e	50mm PVC 6KSC Coupler	8.00	No	1 No (Each)	7.00	Rupees Seven Only	56.00
f	110mm PVC 4KSC Bend	4.00	No	1 No (Each)	111.00	Rupees One Hundred & Eleven Only	444.00
g	90mm PVC 4KSC Bend	4.00	No	1 No (Each)	65.00	Rupees Sixty Five Only	260.00
h	75mm PVC 4KSC Bend	4.00	No	1 No (Each)	43.00	Rupees Fourty Three Only	172.00
i	63mm PVC 4KSC Bend	4.00	No	1 No (Each)	26.00	Rupees Twenty Six Only	104.00

CONTRACTOR

EXECUTIVE ENGINEER

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
j	50mm PVC 6KSC Bend	4.00	No	1 No (Each)	21.00	Rupees Twenty One Only	84.00
k	110mm PVC 4KSC Elbow (Mould) BIS 7834/1975 part VI	4.00	No	1 No (Each)	146.00	Rupees One Hundred & Fourty Six Only	584.00
l	90mm PVC 4KSC Elbow (Mould) BIS 7834/1975 part VI	4.00	No	1 No (Each)	99.00	Rupees Ninety Nine Only	396.00
m	75mm PVC 4KSC Elbow (Mould) BIS 7834/1975 part VI	4.00	No	1 No (Each)	57.00	Rupees Fifty Seven Only	228.00
n	63mm PVC 4KSC Elbow (Mould) BIS 7834/1975 part VI	4.00	No	1 No (Each)	44.00	Rupees Fourty Four Only	176.00
o	50mm PVC 6KSC Elbow (Mould) BIS 7834/1975 part VI	4.00	No	1 No (Each)	28.00	Rupees Twenty Eight Only	112.00
p	110mm PVC 4KSC Male Threaded Adapter	4.00	No	1 No (Each)	85.00	Rupees Eighty Five Only	340.00
q	90mm PVC 4KSC Threaded Adapter	4.00	No	1 No (Each)	54.00	Rupees Fifty Four Only	216.00
r	75mm PVC 4KSC Threaded Adapter	4.00	No	1 No (Each)	35.00	Rupees Thirty Five Only	140.00
s	63mm PVC 4KSC Threaded Adapter	4.00	No	1 No (Each)	22.00	Rupees Twenty Two Only	88.00
t	50mm PVC 6KSC Threaded Adapter	4.00	No	1 No (Each)	16.00	Rupees Sixteen Only	64.00
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	110mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	1380.20	Rupees One Thousand Three Hundred & Eighty - Paise Twenty Only	1380.20
b	90mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	1136.60	Rupees One Thousand One Hundred & Thirty Six - Paise Sixty Only	1136.60
	75mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	853.60	Rupees Eight Hundred & Fifty Three - Paise Sixty Only	853.60
	63mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	679.80	Rupees Six Hundred & Seventy Nine - Paise Eighty Only	679.80
d	50mm PVC 6KSC Pipes	2.00	Job	1 No (Each)	679.80	Rupees Six Hundred & Seventy Nine - Paise Eighty Only	1359.60
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.						
a	3HP Diesel Engine	5.00	Hrs	1 Hour (One Hour)	233.20	Rupees Two Hundred & Thirty Three - Paise Twenty Only	1166.00
b	5HP Diesel Engine	2.00	Hrs	1 Hour (One Hour)	296.50	Rupees Two Hundred & Ninety Six - Paise Fifty Only	593.00
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	0.50	m3	1Cum (One Cubic Metre)	5720.22	Rupees Five Thousand Seven Hundred & Twenty - Paise Twenty Two Only	2860.11
12	Hire charges for deploying earth moving machinery (JCB/Poclain) for earthwork including diesel, oil and labour charges etc., complete.	3.00	Hrs	1 Hour (One Hour)	784.00	Rupees Seven Hundred & Eighty Four Only	2352.00
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.						

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
a	3.0 HP	2.00	Job	1 No (Each)	5025.55	Rupees Five Thousand & Twenty Five - Paise Fifty Five Only	10051.10
b	10.0 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						
a	3.0 HP	2.00	Job	1 No (Each)	5025.55	Rupees Five Thousand & Twenty Five - Paise Fifty Five Only	10051.10
b	10.0 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						
a	3.0 HP	2.00	Job	1 No (Each)	4400.00	Rupees Four Thousand Four Hundred Only	8800.00
b	10.0 HP	1.00	Job	1 No (Each)	4850.00	Rupees Four Thousand Eight Hundred & Fifty Only	4850.00
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	3.0 HP	1.00	Job	1 No (Each)	2100.00	Rupees Two Thousand One Hundred Only	2100.00
b	10.0 HP	1.00	Job	1 No (Each)	2200.00	Rupees Two Thousand Two Hundred Only	2200.00
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.						
	50 Sq.mm LT Cables	11.96	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	3857.10
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						
	50 Sq.mm LT Cables	2.00	Joint	1 No (Each)	242.00	Rupees Two Hundred & Fourty Two Only	484.00
c	Refilling the trench with excavated sand after attending the cable fault in LT Cables and jointing, etc, complete.						
	50 Sq.mm LT Cables	11.96	m3	1Cum (One Cubic Metre)	29.50	Rupees Twenty Nine - Paise Fifty Only	352.82

CONTRACTOR

EXECUTIVE ENGINEER

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
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						
	50 Sq.mm LT Cables	15.00	m	1M (One Metre)	243.00	Rupees Two Hundred & Fourty Three Only	3645.00
7	Supply, Delivery and Fixing of the following Electrical Items required for the Openwell Submersible Pumpset in the pumproom.						
a	0A to 15A directly operated bimetallic thermal over load relay which operates in case of over load and in case of under voltage with manual and auto rest model	1.00	No	1 No (Each)	1486.00	Rupees One Thousand Four Hundred & Eighty Six Only	1486.00
b	32 Amps Electro magnetic contactors of suitable capacity in AC three phase rating conforming to IS/IEC 60947	1.00	No	1 No (Each)	4343.00	Rupees Four Thousand Three Hundred & Fourty Three Only	4343.00
c	Single phase preventer should protect the motor against single phasing reverse phasing and unbalance supply	1.00	No	1 No (Each)	1152.00	Rupees One Thousand One Hundred & Fifty Two Only	1152.00
d	63A TPN switch disconnector fuse units interior only with HRC fuses double break	1.00	No	1 No (Each)	2372.00	Rupees Two Thousand Three Hundred & Seventy Two Only	2372.00
e	supply and fixing of 100 Amps three phase 500 v 4 pole change over switch	1.00	No	1 No (Each)	5127.00	Rupees Five Thousand One Hundred & Twenty Seven Only	5127.00
f	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.	6.00	KVAR	1 KVAR	461.00	Rupees Four Hundred & Sixty One Only	2766.00
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.						
a	10000 LL sump (Headworks and bs)	4.00	Nos	1 No (Each)	3700.00	Rupees Three Thousand Seven Hundred Only	14800.00
9	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	servicing of 3HP Starter	1.00	Nos	1 No (Each)	5249.00	Rupees Five Thousand Two Hundred & Fourty Nine Only	5249.00
10	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	2.00	Nos	1 No (Each)	2463.00	Rupees Two Thousand Four Hundred & Sixty Three Only	4926.00
b	80mm GM Gate valve	2.00	Nos	1 No (Each)	5113.00	Rupees Five Thousand One Hundred & Thirteen Only	10226.00
c	R I Sheet	2.00	kg	1kg(kilogram)	96.00	Rupees Ninety Six Only	192.00
d	50mm GI pipe	2.00	m	1M (One Metre)	412.00	Rupees Four Hundred & Twelve Only	824.00

CONTRACTOR

EXECUTIVE ENGINEER

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
e	65mm GI pipe	2.00	m	1M (One Metre)	527.00	Rupees Five Hundred & Twenty Seven Only	1054.00
f	80mm GI pipe	2.00	m	1M (One Metre)	653.00	Rupees Six Hundred & Fifty Three Only	1306.00
g	100mm GI pipe	2.00	m	1M (One Metre)	930.00	Rupees Nine Hundred & Thirty Only	1860.00
						Sub Total -I Rs	8,29,911.75
						Service charges @ 10% for labour cost Rs	57,006.25
						GRAND TOTAL	8,86,918.00

Rupees Eight Lakh Eighty Six Thousand Nine Hundred & Eighteen 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

TWAD BOARD, RWS DIVISION, CHENGALPATTU

Name of work: Outsourcing the Operation and Maintenance of Combined Water supply Scheme for the Year 2022 - 23 to Budur Tatchur in Chengalpattu District.

SCHEDULE B

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
1	CWSS to Budur Tatchur in Chengalpattu District.						
	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 .	20.40	1 MLD	1 MLD (One Million Litre Day)	6441.15	Rupees Six Thousand Four Hundred & Fourty One - Paise Fifteen Only	131399.46
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	90mm HDPE pipes	4.37	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	1409.57
2	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.						
a	110mm PVC 4KSC Pipes	4.36	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	2108.73
b	90mm PVC 4KSC Pipes	4.37	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	2112.71
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
					Figures	Words	
a	90mm HDPE pipes	4.37	m3	1Cum (One Cubic Metre)	29.50	Rupees Twenty Nine - Paise Fifty Only	128.92
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	110mm PVC 4KSC Pipes	4.36	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	146.50
b	90mm PVC 4KSC Pipes	4.37	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	146.83
5	Supply and delivery of the following PVC Pipes as per IS 4985/2000						
a	110mm PVC 4KSC Pipes	2.00	m	1M (One Metre)	216.50	Rupees Two Hundred & Sixteen - Paise Fifty Only	433.00
	90mm PVC 4KSC Pipes	2.00	m	1M (One Metre)	151.00	Rupees One Hundred & Fifty One Only	302.00
6	Supply and delivery of the following PVC Specials as per IS 10124/1982 Part II						
a	110mm PVC 4KSC Coupler	2.00	No	1 No (Each)	33.00	Rupees Thirty Three Only	66.00
b	110mm PVC 4KSC Coupler	2.00	No	1 No (Each)	21.00	Rupees Twenty One Only	42.00
c	110mm PVC 4KSC Bend	2.00	No	1 No (Each)	111.00	Rupees One Hundred & Eleven Only	222.00
d	110mm PVC 4KSC Bend	2.00	No	1 No (Each)	65.00	Rupees Sixty Five Only	130.00
e	110mm PVC 4KSC Elbow (Mould) BIS 7834/1975 part VI	2.00	No	1 No (Each)	146.00	Rupees One Hundred & Fourty Six Only	292.00
f	110mm PVC 4KSC Elbow (Mould) BIS 7834/1975 part VI	2.00	No	1 No (Each)	99.00	Rupees Ninety Nine Only	198.00
g	110mm PVC 4KSC Male Threaded Adapter	2.00	No	1 No (Each)	85.00	Rupees Eighty Five Only	170.00
h	110mm PVC 4KSC Male Threaded Adapter	2.00	No	1 No (Each)	54.00	Rupees Fifty Four Only	108.00
7	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	110mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	1380.20	Rupees One Thousand Three Hundred & Eighty - Paise Twenty Only	1380.20
b	90mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	1136.60	Rupees One Thousand One Hundred & Thirty Six - Paise Sixty Only	1136.60
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	1.00	Hrs	1 Hour (One Hour)	233.20	Rupees Two Hundred & Thirty Three - Paise Twenty Only	233.20
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	0.10	m3	1Cum (One Cubic Metre)	5720.22	Rupees Five Thousand Seven Hundred & Twenty - Paise Twenty Two Only	572.02

CONTRACTOR

EXECUTIVE ENGINEER

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
10	Hire charges for deploying earth moving machinery (JCB/Poclaim) for earthwork including diesel, oil and labour charges etc., complete.	1.00	Hrs	1 Hour (One Hour)	784.00	Rupees Seven Hundred & Eighty Four Only	784.00
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.						
b	7.5 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						
a	7.5 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						
a	7.5 HP	1.00	Job	1 No (Each)	6340.00	Rupees Six Thousand Three Hundred & Fourty Only	6340.00
4	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	3.00	m	1M (One Metre)	186.00	Rupees One Hundred & Eighty Six Only	558.00
5	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.						
	50 Sq.mm LT Cables	11.95	m3	1Cum (One Cubic Metre)	322.50	Rupees Three Hundred & Twenty Two - Paise Fifty Only	3853.88
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						
	50 Sq.mm LT Cables	2.00	Joint	1 No (Each)	242.00	Rupees Two Hundred & Fourty Two Only	484.00
c	Refilling the trench with excavated sand after attending the cable fault in LT Cables and jointing, etc, complete.						
	50 Sq.mm LT Cables	11.95	m3	1Cum (One Cubic Metre)	29.50	Rupees Twenty Nine - Paise Fifty Only	352.53

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
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						
	50 Sq.mm LT Cables	2.00	m	1M (One Metre)	243.00	Rupees Two Hundred & Fourty Three Only	486.00
6	Supply, Delivery and Fixing of the following Electrical Items required for the Openwell Submersible Pumpset in the pumproom.						
a	0A to 15A directly operated bimetallic thermal over load relay which operates in case of over load and in case of under voltage with manual and auto rest model	1.00	No	1 No (Each)	1486.00	Rupees One Thousand Four Hundred & Eighty Six Only	1486.00
c	63 Amps 3 phase 500 V 3 pole main switch with HRC Fuse	1.00	No	1 No (Each)	2372.00	Rupees Two Thousand Three Hundred & Seventy Two Only	2372.00
d	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.	2.00	KVAR	1 KVAR	461.00	Rupees Four Hundred & Sixty One Only	922.00
7	Supply and delivery of the following Electrical Works :consumable items at the site of work to carryout the general maintenace works						
a	Bulbs (led/Tube/Incadescent/others)	2.00	Nos	1 No (Each)	338.00	Rupees Three Hundred & Thirty Eight Only	676.00
8	Supply and Delivery of the following consumable items for pumpset repairs at the site of work to carry out the general maintenance works						
a	R I Sheet	2.00	kg	1kg(kilogram)	96.00	Rupees Ninety Six Only	192.00
b	65mm GI pipe	2.00	m	1M (One Metre)	527.00	Rupees Five Hundred & Twenty Seven Only	1054.00
c	80mm GI pipe	2.00	m	1M (One Metre)	653.00	Rupees Six Hundred & Fifty Three Only	1306.00
						Sub Total -I Rs	1,75,121.75
						Service charges @ 10% for labour cost Rs	11,401.25
						GRAND TOTAL	1,86,523.00

Rupees One Lakh Eighty Six Thousand Five Hundred & Twenty Three 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

TWAD BOARD, RWS DIVISION, CHENGALPATTU

Name of work: Outsourcing the Operation and Maintenance of Combined Water supply Scheme for the Year 2022 - 23 to Murukancheri - Valarpirai in Chengalpattu District.

SCHEDULE C

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
1	CWSS to Murukancheri - Valarpirai in Chengalpattu District in Chengalpattu District.						
	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 .	9.00	1 MLD	1 MLD (One Million Litre Day)	14599.93	Rupees Fourteen Thousand Five Hundred & Ninety Nine - Paise Ninety Three Only	131399.37
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 hard stiff clay, stiff block cotton soil, hard red earth, shales, murrum, gravelly soil and earth mixed with small size boulders as per SS20B.						
a	90mm PVC 4KSC Pipes	4.37	m3	1Cum (One Cubic Metre)	483.00	Rupees Four Hundred & Eighty Three Only	2114.01
2	Refilling the trench with excavated soil (other than sand) complying with the standard specification after attending the jointing work and testing etc., complete						
a	90mm PVC 4KSC Pipes	4.37	m3	1Cum (One Cubic Metre)	33.60	Rupees Thirty Three - Paise Sixty Only	146.83
3	Supply and delivery of the following PVC Pipes as per IS 4985/2000						
a	90mm PVC 4KSC Pipes	3.00	m	1M (One Metre)	151.00	Rupees One Hundred & Fifty One Only	453.00
8	Supply and delivery of the following PVC Specials as per IS 10124/1982 Part II						
a	90mm PVC 4KSC Coupler	3.00	No	1 No (Each)	21.00	Rupees Twenty One Only	63.00
b	90mm PVC 4KSC Bend	2.00	No	1 No (Each)	65.00	Rupees Sixty Five Only	130.00
c	90mm PVC 4KSC Elbow (Mould) BIS 7834/1975 part VI	2.00	No	1 No (Each)	99.00	Rupees Ninety Nine Only	198.00

CONTRACTOR

EXECUTIVE ENGINEER

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
d	90mm PVC 4KSC Male Threaded Adapter	2.00	No	1 No (Each)	54.00	Rupees Fifty Four Only	108.00
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	90mm PVC 4KSC Pipes	1.00	Job	1 No (Each)	1136.00	Rupees One Thousand One Hundred & Thirty Six Only	1136.00
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.						
a	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	0.20	m3	1 Cum (One Cubic Metre)	5720.22	Rupees Five Thousand Seven Hundred & Twenty - Paise Twenty Two Only	1144.04
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	3.0 HP	1.00	Job	1 No (Each)	5025.55	Rupees Five Thousand & Twenty Five - Paise Fifty Five Only	5025.55
2	Labour charges for Re –erection of Openwell Submersible Pumpset and its accessories after rewinding work into Sources/Collection Sump						
a	3.0 HP	1.00	Job	1 No (Each)	5025.55	Rupees Five Thousand & Twenty Five - Paise Fifty Five Only	5025.55
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	3.0 HP	1.00	Job	1 No (Each)	4400.00	Rupees Four Thousand Four Hundred Only	4400.00
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	3.00	m	1M (One Metre)	186.00	Rupees One Hundred & Eighty Six Only	558.00

CONTRACTOR

EXECUTIVE ENGINEER

Item No.	Description of work	Probable quantity Figures		Units in	Rates in		Amount in figures
					Figures	Words	
6	Supply, Delivery and Fixing of the following Electrical Items required for the Openwell Submersible Pumpset in the pumproom.						
a	0A to 15A directly operated bimetallic thermal over load relay which operates in case of over load and in case of under voltage with manual and auto rest model	1.00	No	1 No (Each)	1486.00	Rupees One Thousand Four Hundred & Eighty Six Only	1486.00
b	18 Amps Electro magnetic contactors of suitable capacity in AC three phase rating conforming to IS/IEC 60947	1.00	No	1 No (Each)	1656.00	Rupees One Thousand Six Hundred & Fifty Six Only	1656.00
c	Single phase preventer should protect the motor against single phasing reverse phasing and unbalance supply	1.00	No	1 No (Each)	1152.00	Rupees One Thousand One Hundred & Fifty Two Only	1152.00
d	supply and fixing of 63 Amps three phase 500 v 3 pole main switch with HRC fuse	1.00	No	1 No (Each)	2372.00	Rupees Two Thousand Three Hundred & Seventy Two Only	2372.00
e	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
7	Supply and Delivery of the following consumable items for pumpset repairs at the site of work to carry out the general maintenance works						
a	80mm GM Gate valve	1.00	Nos	1 No (Each)	5113.00	Rupees Five Thousand One Hundred & Thirteen Only	5113.00
b	R I Sheet	1.00	kg	1kg(kilogram)	96.00	Rupees Ninety Six Only	96.00
c	80mm GI pipe	1.00	m	1M (One Metre)	653.00	Rupees Six Hundred & Fifty Three Only	653.00
						Sub Total -I Rs	1,66,924.75
						Service charges @ 10% for labour cost Rs	11,401.25
						GRAND TOTAL	1,78,326.00

Rupees One Lakh Seventy Eight Thousand Three Hundred & Twenty Six 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