

**TWAD BOARD, RWS DIVISION, CHENGALPATTU**

**Name of work: Outsourcing the Operation and Maintenance of Combined Water supply Scheme for the Year 2022 - 23 to Nandhivaran -Guduvanchery and 29 Other Habitations in Chengalpattu District.**

| Item No. | Description of work   | Probable quantity Figures |       | Units in                      | Rates in |  | Amount in figures |
|----------|---|---------------------------|-------|-------------------------------|----------|--|-------------------|
|          |   |                           |       |                               | Figures  | Words  |                   |
| <b>1</b> | <b>CWSS to Nandhivaran -Guduvanchery and 29 Other Habitations in Chengalpattu District.</b>   |                           |       |                               |          |  |                   |
|          | 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 . | 651.00                    | 1 MLD | 1 MLD (One Million Litre Day) | 2029.02  | Rupees Two Thousand & Twenty Nine - Paise Two Only   | 1320892.02        |
| <b>A</b> | <b>ATTENDING LEAKS/BURSTS IN THE PVC &amp; DI PIPELINES</b>   |                           |       |                               |          |  |                   |
| <b>1</b> | 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.   |                           |       |                               |          |  |                   |
| <b>a</b> | 150mm CI pipes  | 4.73                      | m3    | 1Cum ( One Cubic Metre )      | 322.50   | Rupees Three Hundred & Twenty Two - Paise Fifty Only | 1525.22           |
| <b>2</b> | 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.   |                           |       |                               |          |  |                   |
| <b>a</b> | 300mm CI pipes  | 6.78                      | m3    | 1Cum ( One Cubic Metre )      | 483.00   | Rupees Four Hundred & Eighty Three Only              | 3274.74           |
| <b>b</b> | 300mm AC pipes  | 13.55                     | m3    | 1Cum ( One Cubic Metre )      | 483.00   | Rupees Four Hundred & Eighty Three Only              | 6545.71           |
| <b>c</b> | 250mm AC pipes  | 6.91                      | m3    | 1Cum ( One Cubic Metre )      | 483.00   | Rupees Four Hundred & Eighty Three Only              | 3337.53           |
| <b>d</b> | 200mm AC pipes  | 7.01                      | m3    | 1Cum ( One Cubic Metre )      | 483.00   | Rupees Four Hundred & Eighty Three Only              | 3386.60           |
| <b>e</b> | 110mm PVC 4KSC Pipes  | 4.76                      | m3    | 1Cum ( One Cubic Metre )      | 483.00   | Rupees Four Hundred & Eighty Three Only              | 2300.98           |

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|----------|--|---------------------------|-------|--------------------------|----------|---|-------------------|
|          |  |                           |       |                          | Figures  | Words   |                   |
| 3        | Refilling the trench with excavated sand complying with the standard specification after attending the jointing work and testing etc., complete  |                           |       |                          |          |   |                   |
| a        | 150mm CI pipes   | 4.73                      | m3    | 1Cum ( One Cubic Metre ) | 29.50    | Rupees Twenty Nine - Paise Fifty Only                 | 139.54            |
| 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        | 300mm CI pipes   | 6.78                      | m3    | 1Cum ( One Cubic Metre ) | 33.60    | Rupees Thirty Three - Paise Sixty Only                | 227.81            |
| b        | 300mm AC pipes   | 13.55                     | m3    | 1Cum ( One Cubic Metre ) | 33.60    | Rupees Thirty Three - Paise Sixty Only                | 455.28            |
| c        | 250mm AC pipes   | 6.91                      | m3    | 1Cum ( One Cubic Metre ) | 33.60    | Rupees Thirty Three - Paise Sixty Only                | 232.18            |
| d        | 200mm AC pipes   | 7.01                      | m3    | 1Cum ( One Cubic Metre ) | 33.60    | Rupees Thirty Three - Paise Sixty Only                | 235.54            |
| e        | 110mm PVC 4KSC Pipes   | 4.76                      | m3    | 1Cum ( One Cubic Metre ) | 33.60    | Rupees Thirty Three - Paise Sixty Only                | 159.94            |
| 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        | 300mm CI pipes   | 2.00                      | Joint | 1 No (Each)              | 469.70   | Rupees Four Hundred & Sixty Nine - Paise Seventy Only | 939.40            |
| b        | 300mm AC pipes   | 4.00                      | Joint | 1 No (Each)              | 407.00   | Rupees Four Hundred & Seven Only                      | 1628.00           |
| c        | 250mm AC pipes   | 2.00                      | Joint | 1 No (Each)              | 362.30   | Rupees Three Hundred & Sixty Two - Paise Thirty Only  | 724.60            |
| d        | 200mm AC pipes   | 2.00                      | Joint | 1 No (Each)              | 295.10   | Rupees Two Hundred & Ninety Five - Paise Ten Only     | 590.20            |
| e        | 150mm CI pipes   | 2.00                      | Joint | 1 No (Each)              | 215.60   | Rupees Two Hundred & Fifteen - Paise Sixty Only       | 431.20            |
| 6        | Supply and delivery of following PIPES AS PER IS 1592 / 2003   |                           |       |                          |          |   |                   |
|          | 300mm CI pipes   | 5.50                      | m     | 1M (One Metre)           | 5559.00  | Rupees Five Thousand Five Hundred & Fifty Nine Only   | 30574.50          |
|          | 300mm AC pipes   | 8.00                      | m     | 1M (One Metre)           | 2099.00  | Rupees Two Thousand & Ninety Nine Only                | 16792.00          |
|          | 250mm AC pipes   | 4.00                      | m     | 1M (One Metre)           | 1500.00  | Rupees One Thousand Five Hundred Only                 | 6000.00           |
| a        | 200mm AC pipes   | 4.00                      | m     | 1M (One Metre)           | 1184.00  | Rupees One Thousand One Hundred & Eighty Four Only    | 4736.00           |
| 7        | Supply and delivery of the following PVC Pipes as per IS 4985/2000   |                           |       |                          |          |   |                   |
| a        | 110mm PVC 4KSC Pipes   | 4.00                      | m     | 1M (One Metre)           | 216.50   | Rupees Two Hundred & Sixteen - Paise Fifty Only       | 866.00            |
| 8        | 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 Bend  | 2.00                      | No    | 1 No (Each)              | 111.00   | Rupees One Hundred & Eleven Only                      | 222.00            |
| c        | 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            |
| d        | 110mm PVC 4KSC Male Threaded Adapter   | 2.00                      | No    | 1 No (Each)              | 85.00    | Rupees Eighty Five Only                               | 170.00            |

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|          |  |                           |     |                          | Figures  | Words  |                   |
| 9        | Removing the following burst 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        | 300mm AC pipes   | 1.00                      | Job | 1 No (Each)              | 5670.20  | Rupees Five Thousand Six Hundred & Seventy - Paise Twenty Only       | 5670.20           |
| b        | 250mm AC pipes   | 1.00                      | Job | 1 No (Each)              | 4552.80  | Rupees Four Thousand Five Hundred & Fifty Two - Paise Eighty Only    | 4552.80           |
| d        | 200mm AC pipes   | 1.00                      | Job | 1 No (Each)              | 3559.80  | Rupees Three Thousand Five Hundred & Fifty Nine - Paise Eighty Only  | 3559.80           |
| 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            |
| 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   | 3.00                      | m3  | 1Cum ( One Cubic Metre ) | 5720.22  | Rupees Five Thousand Seven Hundred & Twenty - Paise Twenty Two Only  | 17160.66          |
| 12       | Hire charges for deploying earth moving machinery (JCB/Poclain) for earthwork including diesel, oil and labour charges etc., complete.   | 8.00                      | Hrs | 1 Hour (One Hour)        | 784.00   | Rupees Seven Hundred & Eighty Four Only                              | 6272.00           |
| B        | <b>ATTENDING PUMPSET REPAIR IN THE SOURCES &amp; COLLECTION SUMP</b>   |                           |     |                          |          |  |                   |
| 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           |
| b        | 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  |                           |     |                          |          |  |                   |
| a        | 3.0 HP   | 1.00                      | Job | 1 No (Each)              | 5025.55  | Rupees Five Thousand & Twenty Five - Paise Fifty Five Only           | 5025.55           |
| 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  |                           |     |                          |          |  |                   |
| a        | 3.0 HP   | 1.00                      | Job | 1 No (Each)              | 4400.00  | Rupees Four Thousand Four Hundred Only                               | 4400.00           |
| b        | 5.0 HP   | 1.00                      | Job | 1 No (Each)              | 4850.00  | Rupees Four Thousand Eight Hundred & Fifty Only                      | 4850.00           |

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|          |  |                           |     |                          | Figures  | Words  |                   |
| 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        | 5.0 HP   | 1.00                      | Job | 1 No (Each)              | 2200.00  | Rupees Two Thousand Two Hundred Only                                 | 2200.00           |
| 5        | Labour charges for removal of HSC centrifugal pumpsets and its accessories including disjoining the cable etc complete for rewinding work  |                           |     |                          |          |  |                   |
| a        | 25 HP  | 1.00                      | Job | 1 No (Each)              | 6238.50  | Rupees Six Thousand Two Hundred & Thirty Eight - Paise Fifty Only    | 6238.50           |
| b        | 15 HP  | 1.00                      | Job | 1 No (Each)              | 5574.40  | Rupees Five Thousand Five Hundred & Seventy Four - Paise Fourty Only | 5574.40           |
| 6        | Labour charges for Re - erection of centrifugal pumpsets and its accessories after rewinding works   |                           |     |                          |          |  |                   |
| a        | 25 HP  | 1.00                      | Job | 1 No (Each)              | 6238.50  | Rupees Six Thousand Two Hundred & Thirty Eight - Paise Fifty Only    | 6238.50           |
| b        | 15 HP  | 1.00                      | Job | 1 No (Each)              | 5574.40  | Rupees Five Thousand Five Hundred & Seventy Four - Paise Fourty Only | 5574.40           |
| 7        | Labour charges for Rewinding of the centrifugal pumpset with first class insulation wire including removal of burnt coil, servicing the motor testing, commissioning, etc., Complete   |                           |     |                          |          |  |                   |
| a        | 25 HP  | 1.00                      | Job | 1 No (Each)              | 30330.00 | Rupees Thirty Thousand Three Hundred & Thirty Only                   | 30330.00          |
| b        | 15 HP  | 1.00                      | Job | 1 No (Each)              | 22120.00 | Rupees Twenty Two Thousand One Hundred & Twenty Only                 | 22120.00          |
| 8        | 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        | 25 HP  | 1.00                      | Job | 1 No (Each)              | 12500.00 | Rupees Twelve Thousand Five Hundred Only                             | 12500.00          |
| b        | 15 HP  | 1.00                      | Job | 1 No (Each)              | 11450.00 | Rupees Eleven Thousand Four Hundred & Fifty Only                     | 11450.00          |
| 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  | 14.00                     | m   | 1M (One Metre)           | 186.00   | Rupees One Hundred & Eighty Six Only                                 | 2604.00           |
| 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.                    |                           |     |                          |          |  |                   |
|          | 35 Sq.mm LT Cables   | 17.97                     | m3  | 1Cum ( One Cubic Metre ) | 322.50   | Rupees Three Hundred & Twenty Two - Paise Fifty Only                 | 5795.70           |
|          | 25 Sq.mm LT Cables   | 18.00                     | m3  | 1Cum ( One Cubic Metre ) | 322.50   | Rupees Three Hundred & Twenty Two - Paise Fifty Only                 | 5805.00           |
| 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 |                           |     |                          |          |  |                   |

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|           |  |                           |       |                          | Figures  | Words  |                   |
|           | 35 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            |
| <b>c</b>  | Refilling the trench with excavated sand after attending the cable fault in LT Cables and jointing, etc, complete.   |                           |       |                          |          |  |                   |
|           | 35 Sq.mm LT Cables   | 17.97                     | m3    | 1Cum ( One Cubic Metre ) | 29.50    | Rupees Twenty Nine - Paise Fifty Only                  | 530.12            |
|           | 25 Sq.mm LT Cables   | 18.00                     | m3    | 1Cum ( One Cubic Metre ) | 29.50    | Rupees Twenty Nine - Paise Fifty Only                  | 531.00            |
| <b>d</b>  | 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   | 2.00                      | m     | 1M (One Metre)           | 243.00   | Rupees Two Hundred & Fourty Three Only                 | 486.00            |
|           | 25 Sq.mm LT Cables   | 2.00                      | m     | 1M (One Metre)           | 150.00   | Rupees One Hundred & Fifty Only                        | 300.00            |
| <b>11</b> | Supply, Delivery and Fixing of the following Electrical Items required for the Openwell Submersible Pumpset in the pumproom.   |                           |       |                          |          |  |                   |
| <b>a</b>  | 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  | 3.00                      | No    | 1 No (Each)              | 1486.00  | Rupees One Thousand Four Hundred & Eighty Six Only     | 4458.00           |
| <b>b</b>  | 32 Amps Electro magnetic contactors of suitable capacity in AC three phase rating conforming to IS/IEC 60947   | 3.00                      | No    | 1 No (Each)              | 4343.00  | Rupees Four Thousand Three Hundred & Fourty Three Only | 13029.00          |
| <b>c</b>  | Single phase preventer should protect the motor against single phasing reverse phasing and unbalance supply  | 2.00                      | No    | 1 No (Each)              | 1152.00  | Rupees One Thousand One Hundred & Fifty Two Only       | 2304.00           |
| <b>d</b>  | Supply and Delivery of 500 Amps porcelain fuse (500v)  | 2.00                      | No    | 1 No (Each)              | 84.40    | Rupees Eighty Four - Paise Fourty Only                 | 168.80            |
| <b>e</b>  | supply and fixing of 100 Amps three phase 500 v 4 pole change over switch  | 2.00                      | No    | 1 No (Each)              | 5127.00  | Rupees Five Thousand One Hundred & Twenty Seven Only   | 10254.00          |
| <b>f</b>  | 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.   | 23.98                     | KVAR  | 1 KVAR                   | 461.00   | Rupees Four Hundred & Sixty One Only                   | 11054.78          |
| <b>12</b> | 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. |                           |       |                          |          |  |                   |
| <b>a</b>  | 100000 LL sump ( Headworks and bs)   | 8.00                      | Nos   | 1 No (Each)              | 7050.00  | Rupees Seven Thousand & Fifty Only                     | 56400.00          |
| <b>13</b> | Supply and delivery of the following Electrical Works :consumable items at the site of work to carryout the general maintenace works   |                           |       |                          |          |  |                   |
| <b>a</b>  | Voltmeter  | 1.00                      | Nos   | 1 No (Each)              | 284.00   | Rupees Two Hundred & Eighty Four Only                  | 284.00            |
| <b>b</b>  | Ammeter  | 1.00                      | Nos   | 1 No (Each)              | 547.00   | Rupees Five Hundred & Fourty Seven Only                | 547.00            |
| <b>c</b>  | Bulbs (led/Tube/Incandescent/others)   | 2.00                      | Nos   | 1 No (Each)              | 338.00   | Rupees Three Hundred & Thirty Eight Only               | 676.00            |

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|           |  |                           |     |                | Figures  | Words  |                     |
| <b>d</b>  | 3HP and 5HP Starter for Infiltration and Borewells   | 2.00                      | Nos | 1 No (Each)    | 5249.00  | Rupees Five Thousand Two Hundred & Fourty Nine Only        | 10498.00            |
| <b>e</b>  | Full automatic star delta starter - 15HP   | 1.00                      | Nos | 1 No (Each)    | 17447.00 | Rupees Seventeen Thousand Four Hundred & Fourty Seven Only | 17447.00            |
| <b>14</b> | Supply and Delivery of the following consumable items for pumpset repairs at the site of work to carry out the general maintenance works |                           |     |                |          |  |                     |
| <b>a</b>  | 50mm GM Gate valve   | 2.00                      | Nos | 1 No (Each)    | 2463.00  | Rupees Two Thousand Four Hundred & Sixty Three Only        | 4926.00             |
| <b>b</b>  | 80mm GM Gate valve   | 2.00                      | Nos | 1 No (Each)    | 5113.00  | Rupees Five Thousand One Hundred & Thirteen Only           | 10226.00            |
| <b>c</b>  | R I Sheet  | 4.00                      | kg  | 1kg(kilogram)  | 96.00    | Rupees Ninety Six Only                                     | 384.00              |
| <b>d</b>  | 100mm GI pipe  | 1.00                      | m   | 1M (One Metre) | 930.00   | Rupees Nine Hundred & Thirty Only                          | 930.00              |
|           |  |                           |     |                |          | Sub Total -I Rs  | <b>17,40,582.75</b> |
|           |  |                           |     |                |          | Service charges @ 10% for labour cost Rs                   | <b>1,14,611.25</b>  |
|           |  |                           |     |                |          | <b>GRAND TOTAL</b>   | <b>18,55,194.00</b> |

**Rupees Eighteen Lakh Fifty Five Thousand One Hundred & Ninety Four Only**

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

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