



**TAMILNADU SMALL INDUSTRIES DEVELOPMENT CORPORATION LIMITED
CORPORATE OFFICE
CHENNAI**

COVER 2

PRICE BID

NAME OF WORK : Formation of Road, Construction of Culverts, Plot Approach Culverts, PCC Storm Water Drain and Filling Low Lying Area at TANSIDCO Industrial Estate, Sakkimangalam in Madurai District under Reach I

EMD AMOUNT : Rs.1,33,000/-

DATE OF TENDER: 06.05.2022

| SCHEDULE OF QUANTITIES | | | | | | |
|------------------------|---|--|--|---------------------------|----------------------------|--------|
| SL. NO | QTY | DESCRIPTION OF WORK | TNBP NO | RATE IN FIGURES AND WORDS | UNIT | AMOUNT |
| 1 | 4203 Cum (Four Thousand Two Hundred and Three) | Earth work open excavation for forming roads in all kinds of soils and subsoils and to the required depth as may be directed except hard rock requiring blasting but inclusive of shoring, strutting and bailing out water wherever necessary, well rammed, consolidated and depositing on bank with an initial lead of 10 metres and initial lift of 2 metres and clearing, levelling the site etc., complete. | 20A | | 1 Cum (One Cubic Metre) | |
| 2 | 1187 Cum (One Thousand One Hundred and Eighty Seven) | Forming Embankment in the side berms and subgrade of road portion using earth to the places shown by the places including earth work excavation charges, cost of earth, loading into the lorries conveying, unloading from lorries and spreading as instructed by the Engineer in charge with a lead of 0 to 1 Km etc complete. | MORTH 111, 112, 401 & 900 | | 1 Cum (One Cubic Metre) | |
| 3 | 178 Cum (One Hundred and Seventy Eight) | Providing Gravel Soling for base & berms of specified thickness including cost and conveyance of gravel to site and stacking them to departmental gauge for pre-measurment including labour charges for spreading and watering with all leads for good water, consolidation by power roller rolling and other charges for the tools and plants engaged etc., complete complying with standard specification. (Payment will be made for consolidated thickness of gravel only). | MORTH 111, 112, 401 & 900 | | 1 Cum (One Cubic Metre) | |
| 4 | 5536 Cum (Five Thousand Five Hundred and Thirty Six) | Providing Well Gravel Soling for base & berms of specified thickness including cost and conveyance of well gravel to site and stacking them to departmental gauge for pre-measurment including labour charges for spreading and watering with all leads for good water, consolidation by power roller rolling and other charges for the tools and plants engaged etc., complete complying with standard specification. (Payment will be made for consolidated thickness of well gravel only). | MORTH 111, 112, 401 & 900 | | 1 Cum (One Cubic Metre) | |

CONTRACTOR

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| 5 | 1153 Cum (One Thousand One Hundred and Fifty Three) | Providing and laying Granular Sub-Base (GSB) layer of 200mm compacted thickness on the prepared sub grade with approved graded material of minimum CBR value of 30 grading conforming to Table 400 - 1 of MORTH including screening, spreading in uniform layer with motor grader, watering and premixing in a mechanical Mix plant at optimum moisture content, compacting with power roller of 8 to 10 T static weight to not less than 98% of the maximum laboratory dry density as per IS : 2720 (Part b) and fine dressing to the required grade and cross slope as shown in the drawing or as directed by the Engineer, including obtaining and transporting all materials from approved quarry site to work site with all lifts and lead by mechanical transport, head load or any other mode of transportation, including labour, tools, equipment, safety measures, testing and incidentals necessary to complete the work as per Technical Specification Clause 401 of MORTH and as directed by SIDCO Engineers. | MORTH 111, 112, 401 & 900 | | 1 Cum (One Cubic Metre) | |

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|--------|---|--|--|---------------------------|-----------------------------|--------|
| 6 | 774 Cum (Seven Hundred and Seventy Four) | Providing and laying Wet Mix Macadam Base Course of 250mm compacted thickness in two layers of 125 mm thick or else as specified on prepared sub base with graded stone aggregate using 0.396cum of 45.00-22.40mm graded metal, 0.528cum of 22.40-2.36mm graded metel and 0.396cum of 2.36mm graded metal and below including premixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper trucks to paver site, laying in uniform layers with paver, spreading the mix for uniform thickness with mechanical paver to the specified grades and cross sections and compaction by 80 -100 KN vibratory roller to required density etc. including labour for attending the paver site, including hire charges and fuel charges for tipper trucks, paver finisher, vibratory rollers and all other tools and plants required and all other incidental charges etc., complete as per Clause 406 of MORTH and as directed by Engineer. | MORTH 111, 112, 406 & 900 | | 1 Cum (One Cubic Metre) | |
| 7 | 3865 Sqm (Three Thousand Eight Hundred and Sixty Five) | Providing and laying Prime Coat over WMM surface using 6kgs of bitumen Emulsion for 10 Sqm area including cost and conveyance of bituminous binder including labour charges for preparing the surface and applying the required quantity of bitumen as prime coat by bitumen sprayer etc., complete as per clause 502 of MORTH specification. | MORTH 502 | | 1 Sqm (One Square Metre) | |
| 8 | 3865 Sqm (Three Thousand Eight Hundred and Sixty Five) | Providing and laying Tack Coat over WMM surface treated with priming coat using 2.50kgs of bitumen Emulsion for 10 Sqm area including cost and conveyance of bituminous binder including labour charges for preparing the surface and applying the required quantity of bitumen as tack coat by bitumen sprayer etc., complete as per clause 503 of MORTH specification. | MORTH 503 | | 1 Sqm (One Square Metre) | |

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|--------|--------------------------|--|--------------------------|---------------------------|----------------------------|--------|
| 9 | 200 Cum (Two Hundred) | Providing and laying 50mm compacted thick Bituminous Macadam using 0.42cum of 26.50 - 11.20 mm graded metal and 0.10cum of 11.20 - 2.80mm graded metal and 0.18cum of 2.80mm and below with 38 Kgs of bitumen for premixing 10Sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregates to required temperature and mixing them in required temperature in central Hot mix plant 20-30 tons capacity conveying the mix by Tipper trucks to paver site, spreading the mix in required temperature for uniform thickness of 50mm with mechanical paver to the specified grades and cross sections and compaction by 8-10 T power roller to required density etc. including labour for loading bitumen into bitumen tank and metal to feeder unit, labour for attending the paver site etc. including hire charges and fuel charges for 20-30T CMP with bitumen boiler, tipper trucks, paver finisher, power rollers and all other tools and plants employed etc., complete as per clause 504 of MORTH Specification. | MORTH 501 & 504 | | 1 Cum (One Cubic Metre) | |

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|--------|--|--|--------------------------|---------------------------|-----------------------------|--------|
| 10 | 157 Cum (One Hundred and Fifty Seven) | Providing and laying 40mm compacted thick Semi-Dense Bituminous Concrete using 0.10cum of 13.20mm Graded IRC HBG metal, 0.16cum of 11.20mm graded IRC HBG metal, 0.16cum of 6.70mm graded IRC HBG metal and 0.18cum of 2.80mm and below with 38 Kgs of bitumen for premixing per 10Sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregates to required temperature and mixing them in required temperature in central Hot mix plant 20-30 tons capacity conveying the mix by Tipper trucks to paver site, spreading the mix in required temperature for uniform thickness of 40mm with mechanical paver to the specified grades and cross sections and compaction by 8-10 T power roller to required density etc. including labour for loading bitumen into bitumen tank and metal to feeder unit, labour for attending the paver site etc. including hire charges and fuel charges for 20-30T CMP with bitumen boiler, tipper trucks, paver finisher, power rollers and all other tools and plants required including all other incidental charges etc., complete as per clause 508 of MORTH using CMP. | MORTH 501 & 511 | | 1 Cum (One Cubic Metre) | |
| 11 | 140 RM (One Hundred and Forty) | Supplying, laying and jointing RCC Hume Pipe of 200mm dia NP2 Grade Class with socket and spigot ends as per IS 458/2003 manufactured with sulphate resistant cement with 12 mm HI - alumina lining with rubber ring joints including cost of pipe as a finished work, all other incidental charges, testing charges, loading, unloading, transport and delivery in good condition at work site. The rate includes lowering RCC pipes & specials into the trenches, laying to proper grade & alignment and jointing RCC pipes with cement using necessary collars including the cost of jointing materials and cost of collars as per specification etc., complete and as directed by TANSIDCO Engineers. | MORTH 2905 | | 1 RM (One Running Meter) | |

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| 12 | 1925 Cum (One Thousand Nine Hundred and Twenty Five) | Earth work excavation for foundation in all kinds of soils and subsoils and to the required depth as may be directed except hard rock requiring blasting but inclusive of shoring, strutting and bailing out water wherever necessary, refilling the sides of foundation and basement with excavated earth in layers of 15cm thick well rammed, consolidated and depositing the surplus earth in places shown with an initial lead of 10 meters and initial lift of 2 meters and clearing, levelling the site etc., complete. | 23 & 24 | | 1 Cum (One Cubic Metre) | |
| 13 | 286 Cum (Two Hundred and Eighty Six) | Supplying and filling in foundation and basement with Stone Dust in layers, not exceeding 150mm thickness well rammed, watered and consolidated complying with relevant standard specification etc., complete. | 24 & 25 | | 1 Cum (One Cubic Metre) | |
| 14 | 364 Cum (Three Hundred and Sixty Four) | Plain Cement Concrete 1:4:8 (One cement, four of M Sand and eight of aggregate) using 40mm gauge hard broken stone jelly for foundation inclusive of dewatering if found necessary, shoring, strutting, side shuttering, ramming, curing and laid in layers not more than 15cm thick etc., complete complying with standard specification. | 28 | | 1 Cum (One Cubic Metre) | |
| 15 | 487 Cum (Four Hundred and Eighty Seven) | Plain Cement Concrete 1:2:4 (One of cement, two of M Sand and four of aggregate) using 20mm gauge hard broken stone jelly for foundation inclusive of dewatering if found necessary, shoring, strutting, side shuttering, ramming, curing and laid in layers not more than 15cm thick etc., complete complying with standard specification. | 28 | | 1 Cum (One Cubic Metre) | |

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| 16 | 161 Cum (One Hundred and Sixty One) | Reinforced Cement Concrete 1:2:4 (One of cement, two of M Sand and four of aggregate) using 20mm gauge HB stone jelly for all RCC items of works excluding centering, shuttering and also cost of reinforcement grill in position but including laying, curing and finishing etc., complete and also fixing fixtures like fan clamps in the RCC floor / roof slab wherever necessary etc., complete complying with standard specifications and as directed by the departmental officers. | 30 | | 1 Cum (One Cubic Metre) | |
| 17 | 5161 Sqm (Five Thousand One Hundred and Sixty One) | Supplying and erecting Shuttering with necessary supports for Plane Surfaces such as RCC Column boxing, top & bottom slabs, sill slabs, sunshade with all cross bracings including strutting using silver oak (country wood) joists of size 10cm x 6.5cm spaced at about 90cm centre to centre etc., complete. | 86 & 86A | | 1 Sqm (One Square Meter) | |
| 18 | 147 Sqm (One Hundred and Forty Seven) | Supplying and erecting Centering for sides and soffits including supports and strutting for Plane Surfaces such as RCC slabs, rectangular beams 'T' or 'L' beams, lintels, bed blocks, staircase, waist and landing slabs, landing beams, canopy etc. with all cross bracings using silver oak (country wood) joists of size 10cm x 6.5cm spaced at about 90cm centre to centre supported by casurina post of 10cm to 13cm dia spaced at 75cm centre to centre etc. complete. | 86 & 86A | | 1 Sqm (One Square Metre) | |

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| 19 | 12.80 MT (Twelve Point Eight Zero) | Supplying, fabricating and placing Reinforcement Steel of high yield strength ribbed bar of various diameter and grade confirming to IS1786 of reinforced concrete work. The work including decoiling, straightening, cutting, bending, fabricating and placing in position at all levels and floors including lead and lift according to drawings, specifications, etc complete. Supply and use of 18Gauge black annealed binding wire double fold to tie the bars in position, chairs pins, space bars, unauthorised laps which will not be measured separately neither for payment nor for reconsilation and providing precast cement / pvc cover blocks for main reinforcement to ensure specified cover and as directed. Steel and binding wire will be procured by the contractor at his own cost. | 30 & 86 | | 1 MT (One Metric Tonne) | |
| 20 | 10 Cum (Ten) | Brick Work in Cement Mortar 1:5 (One of cement and five of M Sand) using second class bricks of size 9" x 4 1/2" x 3" including curing etc., complete complying with standard specification. | 31 | | 1 Cum (One Cubic Meter) | |
| 21 | 2382 Sqm (Two Thousand Three Hundred and Eighty Two) | Plastering with Cement Mortar 1:3 (One of cement and three of M Sand) of 20mm thick including centering, strutting, finishing and curing etc., complete complying with standard specification. | 56 & 57 | | 1 Sqm (One Square Metre) | |
| 22 | 114 Sqm (One Hundred and Fourteen) | Plastering with Cement Mortar 1:5 (One of cement and five of M Sand) of 12mm thick including centering, strutting, finishing and curing etc., complete complying with standard specification. | 56 & 57 | | 1 Sqm (One Square Metre) | |

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| 23 | 114 Sqm (One Hundred and Fourteen) | Colour Washing two coats over one coat of white washing with fine screened shell lime approved colour pigments gum conjee. The rate includes one base coat of white washing and two coats of colour washing etc., complete. | 64 | | 1 Sqm (One Square Meter) | |
| 24 | | Supplying, laying and jointing of following dia of HDPE Pipes of IS 4984 / 2016 using PE 100, PN 6 grade raw material for sewer pipe line including necessary earth work excavation, jointing & laying the pipes to proper grade & alignment, testing the pipes with required pressure of water including cost of pipe, labour for jointing & laying the pipe, refilling the trench as before after the pipes are laid, all lead charges for conveyance of water for testing, dismantling the brick work and making dismantled portion good and as directed by the SIDCO Engineers including shoring, strutting, side shuttering with labour charges and bailing out water wherever necessary etc. complete. (The HDPE pipe should be got approved from the Executive Engineer before use on work.) | Special | | | |
| a) | 400 RM (Four Hundred) | 110mm dia HDPE Pipe | | | 1 RM (One Running Meter) | |
| b) | 65 RM (Sixty Five) | 200mm dia HDPE Pipe | | | 1 RM (One Running Meter) | |

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| 25 | 965 Cum (Nine Hundred and Sixty Five) | Conveyance the Surplus Earth to the places shown by the Engineer incharge including loading into lorries, conveying unloading from lorries and spreading in places indicated as instructed by the Engineer incharge with a lead of 0 to 1 km etc., complete. | Special | | 1 Cum (One Cubic Meter) | |
| 25 Items (Twenty Five Items Only) | | | | | Total in Rs. | |
| | | | | | | |
| Note: The tender invited excluding GST. At the time of acceptance of the tender and signing of agreement, the applicable GST of 18% will be included for this work. | | | | | | |

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