

Name of Work: Restoration of Road in Western Side of Roundana and Formation of Road from Plot No. 183 to 177 & Construction of Culverts at TANSIDCO Industrial Estate, Thirumudivakkam (Main) in Kancheepuram District						
EMD - Rs.33,000/-				Date of Tender : 26.04.2022		
SCHEDULE OF QUANTITIES						
SL. NO	QTY	DESCRIPTION OF WORK	TNBP NO	RATE IN FIGURES AND WORDS	UNIT	AMOUNT
1	195 Sqm (One Hundred and Ninety Five)	Picking 2cm to 10cm thick old metalled surface and sectioning as directed by TANSIDCO Engineers etc., complete.	85		1 Sqm (One Square Metre)	
2	130 Cum (One Hundred and Thirty)	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)	
3	32 Cum (Thirty Two)	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)	

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SUPERINTENDING ENGINEER i/c

SL. NO	QTY	DESCRIPTION OF WORK	TNBP NO	RATE IN FIGURES AND WORDS	UNIT	AMOUNT
4	170 Cum (One Hundred and Seventy)	<b>Providing and laying Granular Sub-Base (GSB)</b> 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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5	250 Cum (Two Hundred and Fifty)	<b>Providing and laying WET MIX MACADAM</b> 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)	
6	755 Sqm (Seven Hundred and Fifty Five)	<b>Providing and laying Prime Coat</b> 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)	
7	755 Sqm (Seven Hundred and Fifty Five)	<b>Providing and laying Tack Coat</b> 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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8	2090 Sqm (Two Thousand and Ninety)	<b>Providing and laying Tack Coat</b> over existing BT surface treated with priming coat using 3.00kgs 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)	
9	143 Cum (One Hundred and Forty Three)	<b>Providing and laying 50mm compacted thick Bituminous Macadam</b> 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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SL. NO	QTY	DESCRIPTION OF WORK	TNBP NO	RATE IN FIGURES AND WORDS	UNIT	AMOUNT
10	114 Cum (One Hundred and Fourteen)	<b>Providing and laying 40mm compacted thick Dense Bituminous Concrete</b> using 0.10cum of 13.20mm Graded IRC HBG metal, 0.21cum of 11.20mm graded IRC HBG metal, 0.23cum of 4.75mm and below with 47.12 Kgs of bitumen for premixing with Stone Dust 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	107 Cum (One Hundred and Seven)	<b>Earth work excavation for foundation</b> 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)	

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SL. NO	QTY	DESCRIPTION OF WORK	TNBP NO	RATE IN FIGURES AND WORDS	UNIT	AMOUNT
12	10.70 Cum (Ten Point Seven Zero)	<b>Supplying and filling in foundation and basement with Crushed Stone Sand (M Sand)</b> 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)	
13	2.10 Cum (Two Point One Zero)	<b>Dismantling RCC</b> , clearing away and carefully stacking materials useful for re-use for any thickness of walls etc., complete.	Special		1 Cum (One Cubic Metre)	
14	10.70 Cum (Ten Point Seven Zero)	<b>Plain Cement Concrete 1:5:10</b> (One cement, five of <b>M Sand</b> and ten 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	3 Cum (Three)	<b>Plain Cement Concrete 1:1.5:3</b> (One of cement, one & half of <b>M Sand</b> and three of aggregate) using 20mm gauge hard broken stone jelly for pipe culvert wall 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	52 Cum (Fifty Two)	<b>Reinforced Cement Concrete 1:1.5:3</b> (One of cement, one & half of <b>M Sand</b> and three 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	27 Sqm (Twenty Seven)	<b>Supplying and erecting Centering</b> 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)	
18	296 Sqm (Two Hundred and Ninety Six)	<b>Supplying and erecting Shuttering</b> 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)	

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19	3.60 MT (Three Point Six Zero)	<b>Supplying, fabricating and placing Reinforcement Steel</b> of high yeild 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	33 Sqm (Thirty Three)	<b>Plastering with Cement Mortar 1:3</b> (One of cement and three of <b>M Sand</b> ) of 10mm thick including centering, strutting, finishing and curing etc., complete complying with standard specification.	56 & 57		1 Sqm (One Square Metre)	
21	33 Sqm (Thirty Three)	<b>Colour Washing</b> 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)	

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22	2.50 RM (Two Point Five Zero)	<b>Supplying, laying and jointing RCC Hume Pipe of 1000mm dia NP3 Grade Class</b> confirming to IS 458/2003 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 as per specification etc., complete and as directed by TANSIDCO Engineers.	MORTH 2905		1 RM (One Running Meter)	
23	72 Cum (Seventy Two)	<b>Conveyance the Surplus Earth</b> 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 1 to 2 km etc., complete.	Special		1 Cum (One Cubic Meter)	
<b>23 Items (Twenty Three Items Only)</b>					<b>Total in Rs.</b>	
<b>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.</b>						

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