

SALEM CITY MUNICIPAL CORPORATION

TENDER SCHEDULE

Name of Contractor :

EMD Details **Rs.47,000/-**

Tender Date **06.05.2022**

Name of Work: **Construction of Storm Water Drain (East Side) and Restoration of BT Road at Rajaganapathi Nagar in Division No-12 Zone-II.**

Est. No. **E4/Est No : 461/D/2021-2022**

Estimate Cost **Rs.47.00 Lakhs**

1. The Quantities here given are those upon the lump sum tender cost of work is based, but they are subject to alterations, omissions, deductions or additions as provided for the conditions of the contract and do not necessarily show the actual quantities of work to be done. The unit rates are those governing payment for extracts or deductions for omissions according to the contract, as set forth in the preliminary specifications of the (Madras Detailed Standard Specifications) Tamil Nadu building practice and other conditions or specifications of the contract.

2. It is to be expressly understood that the measured work is to be taken nett (not with standing any custom or practice to the contrary) according to the actual quantities when in place and finished according to the drawing or as may be ordered from time to time by the Corporation Engineer and the cost calculated by measurement of weight, of the respective prices, with out additional charge for any necessary contingent works connected herewith. The Rates quoted are for works in 'situ' and complete in every respect.

3. The work must be completed with in Days/Month from the date of receipt of acceptance of this tender.

Item	Probable Quantity		Description of Work	Rate		Unit in	Amount in
	No	Figures	Units	Words	Figures	Words	Figure
			(I). BT Road				
1	255.00	m3	Preparing the Existing surface to laying the road to Proper Gradient and remove the loose soil without damage the Water Supply Pipes. The Rate inclusive of all charges such as Earth work and remove the same 2Km away from the site etc, complete as per standard specifications.			m3	
2	192.00	m3	Providing and laying, spreading and compacting graded stone aggregate to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant carriage to mixed material by tipper to site laying in uniform layers with paver in sub base / base course on well prepared surface and compacting with vibratory roller to achive the desired density complete as per clasue 406 of MORTH specifications.			m3	
3	1275.00	m2	Providing and laying Prime coat of 7 kgs/10 sqm over the WMM surface treated with primer using 7 kgs of bituminous Emulsion for 10 square meter area including cost of bituminous binder, including labour charges for applying the required quantity of bituminous binder as Prime coat manually etc., complete as per 502 of MORTH Rev V Specifications			m2	

4	1275.00	m2	Providing and laying tack coat of 2.5 kgs/10 sqm over the Prime surface treated with binder using 2.5 kgs of bituminous Emulsion for 10 square meter area including cost of bituminous binder, including labour charges for applying the required quantity of bituminous binder as tack coat manually etc., complete as per 503 of MORTH Rev V Specifications			m2	
5	64.00	m3	Providing and laying 50mm consolidated thick Dense Bituminous Macadam using 0.24cum of 26.50-13.20mm, 0.25 cum of 13.20-2.36mm and 0.23 cum of 2.36mm & below and with 53.20Kgs of VG30/VG40 bitumen for premixing per 10sqm including cost and conveyance of all materials to CMP site, heating the bitumen and aggregate to required temperature and mixing the min. required temperature in central hot mix plant 20-30 ton capacity, conveying the mix by tipper trucks to worksite, spreading the mix to uniform thickness of 50mm with paver to the specified grades and cross sections and compacted by Vibratory / Pneumatic Roller to the required density etc., including labour for attending to paver at site etc., including hire charges and fuel charges for 20- 30t CMP with bitumen boiler, tipper trucks, Paver Finisher / 9m paver finisher, Vibratory / Pneumatic rollers and all other tools and plant required, including fuel and all other incidental charges etc., complete as per specification using CMP as per clause 505 MORTH Rev-5.			m3	

6	39.00	m3	<p>Providing and laying Bituminous concrete to 30mm thick using 0.13 cum of 19.00-9.50 mm graded metal and 0.17 cum of 9.50-2.36 mm graded metal and 0.26 cum of 2.36 mm & below metal with 45.27 kgs of 60/70 bitumen & 5.03Kg of Plastic waste (Total-50.30 kg) and for premixing per 10 sqm including cost and conveyance of all materials to C M P site, heating the bitumen and aggregates to required temperature and mixing them in required temperature in central hot mix plant 20- 30 tonnes capacity conveying the mix by tipper trucks to paver site, spreading the mix in required temperature for uniform thickness of 40mm / 30mm with mechanical paver to the specified grades and cross sections and compaction by Vibratory roller to the required density etc., including labour charges for loading bitumen in to bitumen tank and metal to feeder unit,labour for attending to paver site etc., including hire charges and fuel charges for 20-30t C M P with bitumen boiler,tipper trucks, paver finisher, Vibratory rollers and all other tools and plants required,including all other incidental charges etc.,complete using C M P clause 507 of MORTH Rev-5 specifications.</p>				m3	
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7	34.00	m2	Painting center line, edge line road marking 100 width with Thermoplastic Paint (hot application) in such way that painting length will be 3.00m with a gap of 3.00m with a gap of 3.00 m curved portion and in straight portion painting length will be 3.00m with a gap of 3.00m curved for centerline by indigenous hand propelled road marking machine with single coat including cost of all materials such as pigments, extender, fine aggregate stand oil (Binder) glass beads as per 3262:1976 for the preparation of thermoplastic paint at site mixing glass beads 10% by wieght of the ingredient at the time of preparation of paint and 10% glass beads but wt. at the time of application of paint on the road surface, including cost of all etc., complete.				m2	
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8	1.00	No	Supply and fixing of Retro Reflective Single arrow road name sign board of size 1600mm x 900mm made out of retro reflective sheeting conforming to Type XI standards of ASTM D 4956 – 09 & as per IRC 67-2012 specifications fully covered over 2mm thick aluminium and back support frame SS angle of 25mm x 25mm x 3mm, supported by 2 nos of vertical posts 65NB SS pipe firmly fixed to the ground by means of properly designed foundation of size 300mm x 300mm x 450mm with M15 grade cement concrete and the item shall include earthwork excavation, cost of all materials, loading, unloading, lead, lift, transportation etc., complete. The sign board background shall be blue in color with letters and border in white. 10 years pre-qualification warranty as per clause 6.9 of IRC 67-2012 for Type XI retro reflective sheeting from the sheeting manufacturer & a certified copy of test reports from an independent test laboratory conforming to clause 6.7 of IRC 67-2012 including 3 years outdoor weather exposure report for the retro reflective sheeting offered shall be submitted by the contractor for technical qualification in the tender.			No	
			(II). Storm Water Drain				
9	591.00	m3	Earth work excavation for foundation in ordinary soil, light black cotton sandy loam and dry silt including shoring, strutting, baling or pumping out water wherever necessary and refilling the sides of foundation with excavated earth in layers of 15cm thick and depositing the surplus earth at places as directed by the departmental officers with initial lead and lift			m3	

10	50.00	m3	Plain cement concrete 1:4:8 mix (One cement four sand and eight aggregate) using 40mm size ISS gauge HBBG metal including mixing, laying, consolidating, curing, cost and conveyance of all materials to site and all labour charges etc., complete as per standard specification			m3	
11			Supplying and erecting centering to sides and soffits including supports and strutting for drainage sides and culvert body wall sides using M.S Sheets of size 90cm x 60cm and B.G 10stifened with welded mild steel angles of size 25mm x 25mm x 3mm for boarding laid over(silver oak joists) of size 10cm x 6.50cm spread at about 90cm including all labour charges and cost and conveyance of all materials to site etc. complete Complying with Standard Specification				
	1353.00	m2	a). Drain works Below 1m Height			m2	
12	226.00	m3	Plain cement concrete 1:2:4 mix (One cement two sand and four aggregate) using 20mm size ISS gauge HBBG metal including mixing, laying, consolidating, curing, cost and conveyance of all materials to site and all labour charges etc., complete as per standard specification			m3	

13	246.00	m2	Plastering with cement mortar 1:3 mix, 20mm thick including cost and conveyance of all materials to site, loading and unloading charges and labour charges for mixing, laying and curing etc. complete . complying with std. specifications			m2	
14	396.00	m3	Conveyance of Excavated Excess Earth away from the site to 2km including loading and transportation charges etc., complete as per standard Specification.			m3	
			(III). Construction of Culvert				
15	35.00	m3	Earth work excavation for foundation in ordinary soil, light black cotton sandy loam and dry silt including shoring, strutting, baling or pumping out water wherever necessary and refilling the sides of foundation with excavated earth in layers of 15cm thick and depositing the surplus earth at places as directed by the departmental officers with initial lead and lift			m3	
16	4.00	m3	Plain cement concrete 1:4:8 mix (One cement four sand and eight aggregate) using 40mm size ISS gauge HBBG metal including mixing, laying, consolidating, curing, cost and conveyance of all materials to site and all labour charges etc., complete as per standard specification			m3	

17	15.00	m2	Supplying and erecting centering to sides and soffits including supports and strutting for drainage sides and culvert body wall sides using M.S Sheets of size 90cm x 60cm and B.G 10stifened with welded mild steel angles of size 25mm x 25mm x 3mm for boarding laid over(silver oak joists) of size 10cm x 6.50cm spread at about 90cm including all labour charges and cost and conveyance of all materials to site etc. complete Complying with Standard Specification			m2	
18	26.00	m3	Plain cement concrete 1:2:4 mix (One cement two sand and four aggregate) using 20mm size ISS gauge HBBG metal including mixing, laying, consolidating, curing, cost and conveyance of all materials to site and all labour charges etc., complete as per standard specification			m3	

19	11.00	m2	Plastering with cement mortar 1:3 mix, 20mm thick including cost and conveyance of all materials to site, loading and unloading charges and labour charges for mixing, laying and curing etc. complete . complying with std. specifications			m2	
20	6.00	m3	Providing and laying in position, Standardised Concrete Mix M-20 Grade in accordance with IS:456-2000, using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 kg/m ³ and maximum water cement ratio of 0.55, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m.) 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor/ roof slabs wherever necessary without claiming extra, etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards. (No separate payment will be made by the Department for the excess usage of materials).			m3	

21	600.00	kg	Supply and fabrication and placing in position of TMT steel roads to required size and length as directed by the departmental officers including cost of binding wire, cutting, bending and tying with proper position etc., including cost and conveyance of all materials to site and all labour charges etc., complete Complying with Standard Specification			kg	
22	24.00	m3	Conveyance of Excavated Excess Earth away from the site to 2km including loading and transportation charges etc., complete as per standard Specification.			m3	