

HLL MEDIPARK LTD						
Tender for Construction of Site Grading, Roads and Storm water drainage system for Medipark, Chengalpattu, Kancheepuram district, Tamil Nadu						
Road Works						
SI No	Description	Unit	Quantity	Rate (Rs.)		Total Amount
				In Figures	In Words	
1	Earth Work					
1.1	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting the suitable material to the embankment location within all lifts and leads and disposal of unsuitable materials including all leads and lifts as per the instruction of engineer in charge					
1.1.1	a) All kinds of Soil	Cum	8020.00			
1.2	Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting the suitable material to the embankment location within all lifts and leads and disposal of unsuitable materials including all leads and lifts as per the instruction of engineer in charge	Cum	1003.00			
1.3	Excavation for roadway in hard rock with controlled blasting by drilling, blasting and breaking, trimming of bottom and side slopes in accordance with requirements of lines, grades and cross sections, loading and disposal of all materials including all lead and lifts as per the instruction of engineer in charge	Cum	1003.00			
1.4	Construction of earthen shoulders/selected earth fill with approved material obtained from roadway cutting with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2 (MoRT&H Specification)	Cum	2256.00			

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1.5	Filling in Islands & medians with Suitable earth obtained from excavation, including labour charges for filling laying by manual labour etc., complete as per standard specifications and directions of Engineer-in-charge	Cum	1007.00			
1.6	Construction of sub-grade with approved material obtained from Roadway cutting / borrow pits with all lifts & leads, transporting to site, spreading, grading to required slope and compacted to meet requirement of table No. 300-2 (MoRT&H Specification)					
1.6.1	material from Roadway cutting	Cum	5602.00			
1.6.2	material from Borrow pits (Within site)	Cum	4201.00			
1.6.3	material from Borrow pits (Outside the site)	Cum	4201.00			
2	Granular Subbase Course					
2.1	Construction of granular sub-base by providing coarse graded materials as per Grading I (Table 400 -2 of MoRT & H specification), spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at OMC, and compacting with vibratory roller to achieve the desired density, complete as per MoRT & H specification clause 401 including cost and conveyance of all materials, labour, hire charges of machineries involved etc., for thicknesses as specified in the drawings, complete as per specifications and directions of the Engineer.	Cum	5853.00			

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2.2	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of 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 achieve the desired density, as specified in the drawings, complete as per specifications and directions of the Engineer.	Cum	4365.00			
3	Bituminous Works					
3.1	Providing and applying primer coat with bitumen emulsion on prepared surface of granular Base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means.	Sqm	15327.00			
3.2	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.25 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	Sqm	15327.00			
3.3	Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom.	Sqm	15327.00			

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3.4	Providing and laying of Dense Bituminous Macadam (for roads) with minimum capacity of 40-60 TPH batch type HMP producing an average output of 50 tonne per hour using crushed aggregate of grading II as per (Table 7.14) as per the approved job mix formula, premixed with bituminous binder @ 4.0 - 4.5 percent by weight of total mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction Specifications complete in all respects including cost and conveyance of all materials to site, including labour and hire charges for all machineries etc., for thicknesses as specified in the standard drawings etc, complete as per standard specifications and directions of the Engineer.	Cum	767.00			
3.5	Providing and laying semi-dense bituminous concrete (for roads) with 40 - 60 TPH batch type HMP producing an average output of 50 tonne per hour using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 per cent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per Specifications, complete in all respects including cost and conveyance of all materials to site, labour and hire charges for all machineries etc., for thicknesses as specified in the drawings etc, complete as per specifications and directions of the Engineer.	Cum	384.00			

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4.0	Traffic Signs					
4.1	Construction of cement concrete kerb with channel in M 20 grade PCC on M10 grade foundation 50 mm thick, with kerb channel in PCCM20 grade, sloped towards the kerb, kerb stone with channel laid with kerb laying machine, foundation concrete laid manually, including labour charges and machinery charges complete etc., as per specifications, drawings and instruction of engineer - in - charge.	Rm	3834.00			
4.2	Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces as per specification and Engineer - In - Charge	Sqm	1342.00			
4.3	Providing and applying thermo plastic reflective paint of any colour or compound for traffic lane strips and pedestrian crossings and 3 mm. thick of Pigment 10% on clean dry and good road surface with 10% glass beads, 20% binder, 10% extender and 60% of filler material as per MoRT&H specification No. 803.4.	Sqm	2210.00			

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4.4	Providing and fixing Mandatory / Regulatory sign board prepared on 16 gauge M.S. sheet including painting with zinc cromate stoving primer and two coats each of white back ground, red border and backside gray stove enamelled, bonded with cut out of Retro reflective sheet Engineering grade, symbol / letters / numerals / border, coated with non pealable crystal clear protective transparent coat retaining 100% relection including one number of M.S. Angle iron post of size 50 x 50 x 5 mm of 3.65 m. long inflated at bottom drilling on top in one piece without joint painted with white and black bands of 25 cm. fixing board and post with 2 Nos. high strength G.I. bolts and nuts of size 10 mm dia. 20 mm long including all taxes, conveying, fixing in ground with cement concrete 1:4:8 block of 60 cm x 60 cm x 75 cm. size as directed by Engineer-in-charge etc. complete.					
4.4.1	Stop Sign (Octagonal (600mm side)	No	10.00			
4.4.2	Advance Directional Sign (Rectangular (600mm x300mm) and (800mm x 600mm)	No	15.00			
4.4.3	Triangular (600mm side)	No	10.00			
4.4.4	Circular (600 mm dia)	No	10.00			
4.5	Providing laying 300mm dia RCC pipes of NP-III class pipe including required collar for crossing the utilities below carriageway , ensuring minimum of 1.2m earth cushion over pipes including cost and conveyance of materials, fixing charges, labour charges including all as per specification and as instructed by engineer-in-charge.	Rm	836.00			

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4.6	Disposal of unsuitable Surplus Earth outside the proposed site, location identified by the contractor and approved by the engineer incharge, and contractor should take all the required necessary approvals from the various department including all leads and lifts and machinery charges and labour charges complete etc., as per the detailed specification	Cum	2166.00			
	Sub Total :					