

# CONSTRUCTION OF PROPOSED PAVILION FOR MALLIYUR TEMPLE

## ESTIMATE OF CIVIL WORKS

15/2/2008

Sl no.	Description	Quantity	Unit	Rate	Amount
1	Earth work in excavation in all classes of soil including hard laterite keeping the good earth near the site at suitable location for backfilling the sides of foundations, footings etc. including breaking clods, necessary leveling, watering and manually consolidating, all as per specifications including removal of all debris likely to be present, including all charges for loading, unloading, transporting and disposing the surplus earth as detailed above, by manual and / or mechanical means, anywhere within site premises for all leads, lifts, depths and heights. The earthwork excavation shall be carried out at the risk and cost of the contractor such that no underground/ over ground pipelines or cables or nearby structures are damaged during the course of execution of the work. The charges for bailing out water and providing shoring and strutting, if required, shall be included in the rate for this item. All activities described above shall be carried out as per the approval and direction of the Engineer-in- Charge.	138	m <sup>3</sup>	250	34500.00
2	Supplying and filling red earth under foundation, floors, cable trenches etc. at all levels, complete and stacking the material as per standard specifications for taking pre measurement, spreading the same wherever required, consolidation etc. complete in	282	m <sup>3</sup>	450	126900.00

Sl no.	Description	Quantity	Unit	Rate	Amount
3	Providing and laying plain cement concrete 1:4:8 (1 cement: 4 coarse sand: 8 graded stone aggregate 40 mm nominal size) as leveling coarse underneath of foundation, floors etc., for all leads and lifts etc. to true lines and levels, mixing, transporting, placing, consolidating, curing etc. including necessary form work etc. completely at all heights and depths.	138	m <sup>3</sup>	3600	496800.00
4	Providing and injecting chemical emulsion for pre-construction Anti-Termite treatment by creating a chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor, along the external perimeter of the building etc. complete as per IS: 6313- 1981 and as per manufacturer's specifications. The plinth area of the building alone shall be measured for payment purpose. The treatment should be executed through an approved agency and carry ten-year performance guarantee in a format acceptable to Engineer - in- charge/Owner .	1465	m <sup>2</sup>	100	146500.00
5	Random rubble masonry in cement mortar 1:6 (1 cement: 6 coarse sand) with proper bonds for foundations, retaining walls, storm water drains, sumps, chamber etc. with hard granite stone at all depths and heights including bond stone at every six feet interval at every course and racking the joints up to an average depth of 15 mm including providing weep holes, etc., complete as directed by the Engineer-in-charge including the cost for bailing out of water, if required, from all sources in excavated pits, trenches etc.	158	m <sup>3</sup>	2600	410800.00

Sl no.	Description	Quantity	Unit	Rate	Amount
6	Providing and laying reinforced cement concrete of grade M25 using cement, sand and stone aggregate 20 mm and down graded size at all heights and depths, for all RCC works, including the cost of material and labour, cost of adding concrete admixtures as per designer/manufactures specifications to obtain the required strength, workability and finish as approved by the Engineer-in-charge, including all charges necessary formwork, centering, shuttering, mixing, transporting, laying, vibrating, leveling, curing, removal of shutters, including cost of weigh batching, charges for designing the mix etc. complete, all as per standard specifications and as directed by the Engineer-in-charge at all heights and depths, leads and lifts etc. complete.Including dewatering if necessary (but excluding the cost of reinforcement work).				
a	PLINTH BELT /DPC	14	m <sup>3</sup>	11200	156800.00
b	SQURE COLUMN	5	m <sup>3</sup>	12000	60000.00
c	ROUND COLUMN	14.25	m <sup>3</sup>	12500	178125.00
d	BEAM	2.5	m <sup>3</sup>	12000	30000.00
e	LINTEL	3	m <sup>3</sup>	12000	36000.00
f	ROOF SLAB	12.5	m <sup>3</sup>	11500	143750.00
g	FOLDED STAIR	2	m <sup>3</sup>	13000	26000.00

Sl no.	Description	Quantity	Unit	Rate	Amount
7	Placing deformed steel reinforcement inside form work at all levels for all RCC works, uncoiling, straightening, cleaning, cutting, bending to shape and lengths as per details, binding with contractor's own 20 SWG black annealed binding wire, placing with proper cover blocks, supports, chairs, spacers etc., return of unused / surplus / scrap steel to owners store etc. complete, excluding the cost of steel.	66.56	Qtl	3000	199687.50
8	Providing and constructing brick masonry, for superstructure using semi-wire cut, good quality bricks of class designation 50 (compressive strength not less than 50 kg / cm <sup>2</sup> ), in cement mortar 1:6 (1 cement: 6 coarse sand), for walls (brick of size not less than 21 cm), including soaking bricks in water, scaffolding, curing etc. at all heights and levels complete.	49	m <sup>3</sup>	4600	225400.00
9	Half brick masonry using semi-wire cut, good quality bricks of class designation 50 (compressive strength not less than 50 kg / cm <sup>2</sup> ), in cement mortar 1:4 (1 cement: 4 coarse sand) for walls, parapets, copings, brick on edge etc. including placing two numbers 6 mm diameter reinforcement rods for every eighth course of masonry excluding cost of steel etc. complete at ground floor level and above.	4.25	m <sup>3</sup>	4900	20825.00
10	Plastering inside with cement mortar 1:4 mix (1 cement: 4 fine sand), one coat, 12 mm average thick, troweled hard and finished smooth to perfect level for walls, including necessary scaffolding, curing etc. complete, all as per detailed specifications, at all heights & levels.	415	m <sup>2</sup>	160	66400.00

Sl no.	Description	Quantity	Unit	Rate	Amount
11	Plastering outside with cement mortar 1:4 mix (1 cement: 4 fine sand), one coat, 12 mm average thick, troweled hard and finished smooth to perfect level for walls, etc. including water cutting, necessary scaffolding, curing etc. complete, all as per detailed specifications, at all heights and levels.	116	m <sup>2</sup>	175	20300.00
12	Plastering with cement mortar 1:3 mix (1 cement: 3 fine sand), one coat, 9 mm average thick for <b>ceiling</b> under slab, waist slab, sunshade etc. at all levels including necessary scaffolding, curing etc. complete in all respects.	115	m <sup>2</sup>	170	19550.00
13	Ornamental plastering with cement mortar 1:4, 12 mm thick one coat floated hard and trowelled smooth with grooves/corbels, if required including cost and conveyance of all materials, all labour charges, hire charges for scaffolding water curing etc complete for columns including column heads as per architectural drawings.	21	Nos	1500	31500.00
14	Plastering with cement mortar 1:3 mix (1 cement: 3 fine sand), one coat, 12 mm average thick at all levels including mixing approved water proofing compound as per manufacturer's specifications with specified slopes, including necessary scaffolding, curing, cost of water proofing compound etc. at all heights and levels complete in all respects.	22	m <sup>2</sup>	200	4400.00

Sl no.	Description	Quantity	Unit	Rate	Amount
15	Conveying, fabrication and erection in position of structural steel work, bolted or welded, at all levels as per drawing with MS angles, beams, pipes, channels, tees, flats, RSJs, rods, plates etc., including cutting, welding, shot blasting to remove the rust for receiving paint, punching holes and painting with two or more coats of approved quality synthetic enamel paint to give an even shade and colour over two coats of zinc phosphate primer (one shop coat and one coat after erection) including supply of necessary MS bolts and nuts other than holding down bolts upto 12mm to 25mm size, return of unused / scrap steel to site store / scrap-yard, etc., all as per standard specifications and as per the instructions of the Engineer-in-charge.	541	Qtl	6000	3246000.00
16	Supplying and fixing good quality fully panelled Teak Wood door (single leaf) with 100mm x 60mm frame and panelled shutter with stiles and frame 32mm thick and 18mm thick panels sunk in the frame including cost of all necessary fitting as per detailed Architectural drawings.	4.2	m <sup>2</sup>	5500	23100.00
17	.....do.....do.....Teak wood door cum window frame and shutter etc.complete as per direction.	9.32	m <sup>2</sup>	5000	46600.00

Sl no.	Description	Quantity	Unit	Rate	Amount
18	Supplying and fixing glazed window with teak wood outer frame 100mm x 60mm and shutter frame 75mm x 35mm and 4mm thick glass item includes all material cost including any carpentry work specially mentioned, fixing 6 Nos MS flat hold fast of size 40mm x 3mm of length 30 cm with screws and necessary 1:2:4 concrete or masonry, 4Nos. anodised aluminium tower bolts of size 100mm,4 Nos 100mm butt hinges all hardwood beading to fix the glass etc. complete as per detailed Architectural drawings.	7.88	m <sup>2</sup>	5000	39400.00
19	.....do.....do.....Teak wood ventilator frame and shutter etc.complete as per direction.	2.4	m <sup>2</sup>	4500	10800.00
20	Supplying and fixing fibre glass door ,size 75 cm x 210cm (Manufactured by M/s Light Touch or equivalent) with fibre glass door frame 100mm x 60mm Hard wood pieces provided at the place of fittings and fold fasts. Fibre glass shutter with 70mmx 30mm hard wood outer frame and lock rail covered with fibre glass sheet as per the drawing.Fibre glass used should be three layers and minimum 3mm thick and made water tight and of approved colour including 3 Nos 100mm stainless steel hinges, 1No 100mm tower bolt baby latch with handle on both the sides cost and conveyance of all the materials labour charges etc. complete	6.3	m <sup>2</sup>	2100	13230.00
	<b>TOTAL</b>				<b>5813367.50</b>