

P.W.D., BUILDINGS (CONSTRUCTION AND MAINTENANCE CIRCLE), COIMBATORE - 01

SCHEDULE

NAME OF WORK: **Construction of Parking Shed with concrete flooring and approach road for Sex Sorted Mobile Lab in District Live Stock Farm at Udthagamandalam in Nilgiris District**

Sl. No.	Approximate Quantity	Description of work	TNBP. No./ NBC No.	Rate in Rupees [In figures and in words]	Unit of measurement [in figures and in words]	Amount in Rupees
1	2	3	4	5	6	7
1	333.00 Cu.m [Three Hundred and Thirty Three cubic metres only]	Earth work open excavation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the excavated earth with a lead of 10 mts. within the compound in places shown by the departmental officers and clearing and levelling the site, etc., complete complying with standard specification.	23 & 24 V, VI S2		1 Cu.m. [One cubic metre]	
2	270.00 Cu.m [Two Hundred and Seventy cubic metres only]	Earth work excavation for foundation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.	28 V, VI S2 [SS.A] VII		1 Cu.m. [One cubic metre]	
3	55.00 Cu.m [Fifty Five cubic metres only]	Supplying and filling in foundation, basement, etc with FILLING Crushed Stone Sand in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.	24&25 NBC Part VI[S2]8		1 Cu.m. [One cubic metre]	

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1	2	3	4	5	6	7
4	85.00 Cu.m [Eighty Five cubic metres only]	Supplying and FILLING GRAVEL Supplying and filling in foundation and basement with filling Gravel in layers of not more than 15cm.thick well rammed watered and compacted -1m ³ etc., complete complying with standard specification.	24&25 NBC Part VI[S2]8		1 Cu.m. [One cubic metre]	
5	72.00 Cu.m [Seventy Two cubic metres only]	Providing and laying, spreading and compacting graded stone aggregates to Wet Mix Macadam 250 mm thick specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layers with pavers in Sub Base/ Base course on well prepared surface and compacting with vibratory roller to acheive the desired density including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per clause 406 of MORTH Rev-5	Special		1 Cu.m. [One cubic metre]	
6	30.00 Cu.m [Thirty cubic metres only]	Plain Cement Concrete 1:3:6 (one cement, three crushed stone sand and six hard broken stone jelly) using 20mm jelly for LEVELLING COURSE including laying, compacting, finishing and curing, etc., complete as per standard specificatins and as directed by the departmental officers.	24&25 NBC Part VI[S2]8		1 Cu.m. [One cubic metre]	
7	20.00 Cu.m [Twenty cubic metres only]	Cement Concrete 1:5:10 (One Cement, Five sand and Ten hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for FOUNDATION including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification .	24&25 NBC Part VI[S2]8		1 Cu.m. [One cubic metre]	

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1	2	3	4	5	6	7
8	35.00 Cu.m [Thirty Five cubic metres only]	CEMENT CONCRETE 1:5:10 [One cement, Five Crushed Stone Sand and Ten hard broken stone] using 40 mm gauge hard broken jelly for FLOORING including laying, consolidating, finishing, rendering the top surface rough to receive the floor, curing, etc. complete complying with standard specification. [The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers.	28 V, VI S2 [SS.A] VII		1 Cu.m. [One cubic metre]	
9	165.00 Sq.m [One Hundred and Sixty Five square metres only]	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, sill slab etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)	30&46] V, VI		1 Sq.m. [One square metre]	
10		Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29 M height For plane surfaces as detailed below, in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at abote 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specificaion. (Payment for centering shall be given after the concrete is laid).	30[S] 86 86 A V, VI [S3] VII			
a]	66.00 Sq.m [Sixty Six square metres only]	FOR PLANE SURFACES SUCH AS RECTANGULAR OR SQUARE RCC COLUMNS, SUNSHADES, TOP AND BOTTOM SLAB OF RCC BOXING, Etc.,			1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
11		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/ms and maximum water cement ratio of 0.55, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retarded 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).	30 V,VI [S3] VII.3			
a]	133.00 Cu.m [One Hundred and Thrity Three cubic metres only]	For Foundation & Basement			1 Cu.m. [One cubic metre]	
12	114.75 Qtl [One Hundred and Fourteen quintals and Seventy Five kilograms only]	Supplying, fabricating and placing in position MILD STEEL / RIBBED TOR STEEL grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. [Contractor has to make his own arrangements for the supply of steel and binding wire]	97 V, VI[S6] VII[S6] VII.3		1 Qtl. [One quintal]	

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1	2	3	4	5	6	7
13		BRICK WORK in Cement Mortar 1:6 [One Cement and Six Crushed Stone Sand] using best quality II Class Ground moulded chamber burnt bricks of size 9" x 4 3/8" x 2 3/4" [23 x 11 x 7cm] for the following including curing etc., complete complying with standard specifications. [Masonry projections wherever necessary for obtaining required elevation shall be done without extra cost].	31 & similar to 31C V, VI [S5] VII			
a]	20.00 Cu.m [Twenty cubic metres only]	For Foundation and Basement			1 Cu.m. [One cubic metre]	
14	380.00 Sq.m [Three Hundred and Eighty square metres only]	Providing GRANOLITHIC FLOOR finish of 40mm thickness with Plain Cement Concrete 1:2:4 [One Cement, Two Crushed Stone Sand and Four Aggregate] using 10 to 12 mm gauge hard broken stone jelly including laying, finishing and the top rubbed smooth with power trawl, thread lining, curing etc., complete complying with standard specification and as directed by the departmental officers. [The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers].	Similar to 41G V, VI [S5A] VII.3		1 Sq.m. [One square metre]	
15	100.00 Sq.m [One Hundred square metres only]	PLASTERING with Cement Mortar 1:5 [One Cement and Five plastering Sand], 12 mm thick in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.	61 V, VI [S4] 3		1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
16	26500.00 Kgs. [Twenty Six thousand and Five Hundred kilograms only]	Fabricating supplying and erecting the Pre-engineered steel building structure using Galvanised structural steel sections , conforming to Grade 50 with yield strength of 345MPa baseplate, Sag Rods, struts including cleats to receive 'Z' and 'C' purlins, cutting, drilling holes, welding, grinding fixing the members with nessary bolts nuts, anchor bolt of approved quality, hoisting, aligning and placing the 'I' sections in position as per the design got approved from the department, fixing purlins with Sag Rods, supporting the purlins from the beams on both sides. The welding should be done with submerged arc welding to full length. The rate inclusive of the cost of painting the memebbers with one coat of primer of Zinc chromite and enamel paint etc., complete complying with standard specification and as directed by the departmental officers, etc., complete.	Special		1Kg [One kilogram]	
17	770.00 Sq.m [Seven Hundred and Seventy square metres only]	Supplying and fixing of Top sheet and side cladding Supplying & Laying of 0.5mm thick Colour coated galvalume sheet at all heights using regular polyster (RMP) paint coated 0.5 mm TCT 550 Mpa profiled galvalume steel (Aluminium Zinc alloy coating 150 gms / sqm total of both sides) sheet including Crimping,flashing, cutting, fabricating erection at all levels, providing openings, touchup painting, all fixtues and fixing accessories such as self drilling fasteners, butyl or acrylic sealants, profiled foam / neoprene fillers etc., including cost of all materials, labour, scaffolding, wastage, tools, tackles, equipments, transportation, preparation of shop drawings etc., all complete as per specification, drawings and as directed.	Special		1 Sq.m. [One square metre]	
18	4700.00 Kgs. [Four Thousand and Seven Hundred kilograms only]	Supplying and fixing of wall clading purlin - horizontal etc. , including cost of all materials, labour, scaffolding, wastage, tools, tackles, equipments, transportation, preparation of shop drawings etc., all complete as per specification, drawings and as directed.	Special		1Kg [One kilogram]	

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1	2	3	4	5	6	7
19	50.00 Rm [Fifty running metres only]	Supplying and fixing of profile colour coated Galvalume Eave Gutter of size 217x16.8x154mm made of colour sheet 1.00mm thick with yield strength of 550 MPA of high tensile / C.R. sheets of approved quality for roofing with nessasary fixing arrangemennts with the 'C' purlins provide at the edges 160mm dia rain water downfall pipe etc., complete as directed by the departmental officers.	Special		1 Rm. [One Running metre]	
20	25.00 Rm [Twenty Five running metres only]	Supplying and fixing of Galvolume sheet ridge pieces approved quality with necessary U or J bolts and nuts GI washers etc., complete complying with standarad specification	Special		1 Rm. [One Running metre]	
21	6.00 Nos. [Six numbers only]	Supplying and fixing of Rotary Ventilator etc., including cost of all materials, labour, scaffolding, wastage, tools, tackles, equipments, transportation, preparation of shop drawings etc., all complete as per specification, drawings and as directed.	Special		1 No. [Each]	
22	44.00 Sq.m [Forty Four square metres only]	Supplying and fixing bitumen pad for expansion joint including labour charges for cutting, placing in position etc complete as directed by the departmental officers.	Special		1 Sq.m. [One square metre]	

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1	2	3	4	5	6	7
23	30.00 Sq.m [Thirty square metres only]	<p>Pre-painted Galvanized Iron Windows (Air Tight Model) with Grill and Glass: Providing and fixing Ajanta Cave Model Window fabricated from roll formed sections made of galvanized steel colour coated / powder coated (Base steel as per IS 513 'D' quality, galvanized as per IS 277 with zinc of 120 grams / sqm.) with total coated thickness of 0.60mm. Paint specification: Coated sections should be with primer coat of epoxy primer of 5-7 microns thick finish paintd with a polyester paint of 12-16 microns thick and back coated with alkyd backer of 5-7 microns. Dimensions of sections: Sections for shutter should be of 46 x 46mm and external frame should be of 46 x 52mm. Section for glass beading should be of 18 x 25mm and centre mullion should be of 46 x 70mm.</p> <p>Fixing details: The frame and shutter sections should be cut to length and mitre joined with corner bracket made of CRCA electro plated. Mullion section should be joined with frame / mullion using nylon mullion cap. Ethyl Propylene Diamine Monomer (EPDM) Gasket should be used all around glass in shutter between frame and glazed shutter and both sides of fixed glass.....</p> <p>Accessories: Handle made of high grade aluminium powder coated and with nylon receiver. Gaskets made of Ethyl Propylene Diamine Monomer (EPDM). Corner brackets made of CRCA with zinc phosphating. Mullion caps made of glass filled nylon.</p> <p>Glass: Glass shutter and fixing glass portion should be provided with a glass of 5mm plain float glass.</p> <p>Grill: Windows should be provided with grill made of 10mm square MS bars welded to 12mm x 5mm flat at 4" intervals. Total grill unit should be power coated and fixed to window frame with screws.</p> <p>The above frame should be fixed to brick / concrete masonry by using nylon self-expanding caps and driving MS electro plated 80mm long screws into the caps through frames.</p>	Special		1 Sq.m. [One square metre]	

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24	61.50 Sq.m [Sixty One square metres and Fifty square decimetres only]	Supplying and erecting pull and push type rolling shutter with ISI make of approved size and section using 18 GI sheet. The shutter shall be painted with one coat of red oxide primer and the rate is inclusive of hood covers, transportation charges etc., [exceeding 12 sq.m. area].	Special		1 Sq.m. [One square metre]	
Basic Value						
Add GST @ 12%						
Grand Total						
Total No of Items in the Schedule : 24 [TWENTY FOUR Items only]						

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