

SCHEDULE - A

Name of Work: Construction of Compound wall, Filling in low laying area, Guard waiting Shed and Approach road arrangement in Madurai North IMFS Depot of TASMAL at Manaloor in Sivagangai District.

Sl. No	Quantity	Description	TNBP No.	Rate	Unit	Amount
1	2	3	4	5	6	7
1	27.00 M ³ (Twenty seven cubic metres only)	Earth work excavation for foundation in all soils and sub soil and to full depth as may be directed except in hard rock requiring blasting but including shoring, strutting and balling out water wherever necessary and refilling the sides of foundation with excavated earth in layers of not more than 15cm thick well rammed consolidated and depositing the surplus earth within the compound with an initial lead of 10 metres and lift of 2 metres in places shown by the departmental officers clearing, leveling the site etc., complete complying with standard specification.	23,24		1 M ³ (One cubic metre)	
2	503.00 M ³ (Five hundred and three cubic metres only)	Earth work open excavation in all soils and sub soil and to full depth as may be directed except in hard rock requiring blasting but including shoring, strutting and balling out water wherever necessary and depositing the surplus earth within the compound with an initial lead of 10 metres and lift of 2 metres in places shown by the departmental officers clearing, leveling the site etc., complete complying with standard specification.	23,24		1 M ³ (One cubic metre)	

Contractor :

No.of corrections:
No.of over writings:

Superintending Engineer, P.W.D.
Buildings (C & M) Circle, Madurai-2.

1	2	3	4	5	6	7
3	263.00 M ³ (Two hundred and sixty three cubic metres only)	Cement Concrete 1:5:10 (One Cement, Five Crushed Stone(M-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	28			1 M ³ (One cubic metre)
4	2.00 M ³ (Two cubic metres only)	Supplying and filling in foundation, basement, etc with stone dust 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.				1 M ³ (One cubic metre)
5	2860.00 M ³ (Two thousand eight hundred and sixty cubic metres only)	Providing red gravel soiling to 165 mm thick including cost and conveyance of gravel from approved source to work site and stacking on road side departmental metric gauge for pre-measurement as directed including labour for spreading and compacting by power roller rolling.	25			1 M ³ (One cubic metre)

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1	2	3	4	5	6	7
6	295.00 M ³ (Two hundred and ninety five cubic metres only)	Construction of Granular Sub-base by providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grade on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401.(Grading V material)			1 M ³ (One cubic metre)	
7	225.00 M ³ (Two hundred and twenty five cubic metres only)	Providing and laying spreading and compacting graded stone aggregates to Wet mix macadam 0.075 mm thick specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to work site laying in material by tipper to work site laying in uniform layer with paver in sub base / base course on well prepared surface and compacting with vibratory roller to achieve 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			1 M ³ (One cubic metre)	
8	106.00 M ² (One hundred and six 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, 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, 44H		1m ² (One square metre)	

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1	2	3	4	5	6	7
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9

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 about 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 specificaiton. (Payment for centering shall be given after the concrete is laid)

30, 44H

a

162.00 M²

(One hundred and sixty two square metres only)

For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.

1m²

(One square metre)

b

35.00 M²

(Thirty five square metres only)

For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.

1m²

(One square metre)

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1	2	3	4	5	6	7
c	763.00 M ² (Seven hundred and sixty three square metres only)	For plane surfaces such as vertical slab, side slabs of boxing, vertical drops, facia, vertical wall, etc.			1m ² (One square metre)	

10

Providing and laying in position, Standardised Concrete Mix M-30 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 400 kglms and maximum water cement ratio of 0.45, 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 (5.0 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.

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1	2	3	4	5	6	7
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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).

a 530.00 M³ Foundation & Basement
(Five hundred and thirty
cubic metres only)

1 M³
(One cubic
metre)

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, 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 M-Sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc.

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1	2	3	4	5	6	7
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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).

a	306.00 M ³ (Three hundred and six cubic metres only)	Foundation & Basement				1 M ³ (One cubic metre)
b	138.00 M ³ (One hundred and thirty eight cubic metres only)	In Ground Floor				1 M ³ (One cubic metre)

1	2	3	4	5	6	7
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c

4.00 M³

In First Floor

(Four cubic metres only)

1 M³

(One cubic metre)

12

585.00 Qtl

(Five hundred and eighty five quintals 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)

86,86A,87

1 Qtl.

(One quintal)

13

139.00 M²

(One hundred and thirty nine square metres only)

Manufacturing, Supplying and Fixing in position plain cement concrete precast Kerb Slab of 600mm x 600mm x 100mm in Cement Concrete 1:2:4(One Cement, Two Sand and Four Jelly) using 20mm HBG Stone Jelly including cost of moulding charges, casting of slab, finishing, curing, fixing and pointing the slab with CM1:3(One Cement and Three Sand) to full depth of slab etc., complete complying with standard specification.

1m²

(One square metre)

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1	2	3	4	5	6	7
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14 Brick work in Cement Mortar 1:6 (one Cement and six 31 & similar
Crushed Stone(M-Sand))using best quality of country to 31C, V, VI
bricks of size 8-3/4" x 4-1/4" x 2-3/4" for foundation and (S5) Vii
basement including curing, etc., complete complying with
standard specification.

a 136.00 M³ In Foundation & Basement
(One hundred and thirty
six cubic metres only)

1 M³
(One cubic
metre)

b 7.00 M³ In First Floor
(Seven cubic metres
only)

1 M³
(One cubic
metre)

15 Brick work in Cement Mortar 1:5 (one Cement and five 31 & similar
Crushed Stone(M-Sand))using best quality of country to 31C, V, VI
bricks of size 8-3/4" x 4-1/4" x 2-3/4" for foundation and (S5) Vii
basement including curing, etc., complete complying with
standard specification.

Contractor :

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1	2	3	4	5	6	7
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a	32.00 M ³ (Thirty two cubic metres only)	In Ground Floor				1 M ³ (One cubic metre)
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16

Brick partition walls of 10.80cm thick using best quality of country bricks of size 8-3/4" x 4-1/4" x 2-3/4" in Cement Mortar 1:3 (One Cement and Three Crushed Stone(M-Sand)) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately)

31 & 31C

a	61.00 M ² (Sixty one square metres only)	In Ground Floor				1m ² (One square metre)
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1	2	3	4	5	6	7
17		Providing granolithic floor finish of the following thickness with plain cement concrete 1:2:4 (One Cement, Two M-Sand and Four aggregate) using 10 to 12mm 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.				
a	12.00 M ² (Twelve square metres only)	40 mm thick				1m ² (One square metre)
18	11.00 M ² (Eleven square metres only)	Paving the floor with best quality Double Charged Vitrified Tiles of size 600 x 600 x 8mm of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three Crushed Stone Crushed Stone(M-Sand)(M-Crushed Stone(M-Sand))) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)	39A			1m ² (One square metre)

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1	2	3	4	5	6	7
19	1.00 M ³ (One cubic metres only)	Weathering course in brick jelly lime concrete using broken brick jelly of size 20mm uniform gauge in pure slaked lime (no Crushed Stone (M-Sand) Sand and Sand to be used) to the proportion of brick jelly to lime being 32:12.5 by volume and laid over the RCC roof slab in a single layer of required slope and finished by beating the concrete with wooden beaters of approved pattern, keeping the surface constantly wet by sprinkling lime jaggery water, etc., complete as per standard specification and as directed by the departmental officers.			1 M ³ (One cubic metre)	
20	12.00 M ² (Twelve square metres only)	Finishing the top of roof with one course of machine pressed tiles of size 230mm x 230mm x 20mm of approved quality set in Cement Mortar 1:3 (One Cement and Three Crushed Stone (M-Sand) Sand) 12mm thick mixed with water proofing compound conforming to ISS at 2% by weight of cement used and the joints pointed neatly to full depth of tiles with the same cement mortar mixed with red oxide and water proofing compound including curing etc., complete complying with standard specification and as directed by the departmental officers	44 & 44H		1m ² (One square metre)	
21	35.00 M ² (Thirty five square metres only)	Special ceiling plastering and finishing the exposed surface of RCC items of work such as slabs, beams, sunshades, facia, canopy slab, staircase waist slab, landing slab etc. with cement mortar 1:3 (One cement and three Crushed Stone(P-Sand)) 10 mm thick including hacking the surfaces and providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and finishing, curing, etc., complete in all floors complying with standard specification and as directed by the departmental officers	56 & 57		1m ² (One square metre)	

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22	495.00 M ² (Four hundred and ninety five square metres only)	Plastering with Cement Mortar 1:5 (One cement and five Crushed Stone(P-Sand)), 12 mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.	56 & 57			1m ² (One square metre)

23	<p>Manufacturing, supplying and fixing of steel doors with following specification. MS Angle of size 40x40x6mm at 3.5 Kg/m used for outer frame and MS Angle of size 35 x 35 x 5mm at 2.6 Kg/m for the shutter frame. Stiffeners with 32x6mm at 1.5 Kg/m MS Flat is provided at required intervals in the Shutter frame and welded intact on both ends to the shutter frame. 18GCR Sheets of best quality is laid as panel in the shutter frames. 18x5mm at 0.70 Kg/m MS Flat is welded over the 32x6mm @ 1.50 Kg/m MS Flat on the rear side of the door, Crushed Stone(M-Sand) witching the CR sheet for</p> <p>rigidity. Additional stiffeners with 18x5mm at 0.7 Kg/m MS Flats are provided diagonally on the rear side of the shutter. 3 Nos. of hinges in case of single leaf and 6 Nos. of hinges in case of double leaf shutters is provided. 6 Nos. of hold fasts 200mm length spliced at the ends are welded to the outer frame of the door. Tower bolt 2 Nos., one at the top and the other at bottom are provided. One aldrop is provided in case of double leaf door at lock rail section in the door. In single leaf doors, one more aldrop is provided in the inner side of the lock rail section</p>	81
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1	2	3	4	5	6	7
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of the door, one rotating locking arrangementslocking arrangements for inner side of the door and additional provision for locking arrangements for lock is provided on the rear side of the door at an appropriate place in case of a double leaf door. MS Flat 32x3mm at 1.10 Kg/m is provided on the edge of the one shutter to conceal the gap between the two shutters. A tie bar is provided at the bottom of the outer frame to prevent twisting of the frame during transportation and fixing. All members are given one coat of red oxide primer as directed by the departmental officers. The rate includes cost of all materials, labour charges, transportation, taxes and all other incidental charges, etc., complete.

3.00 M²
(Three square metres
only)

Double leaves 1.20 x 2.10 (fully panelled)

1m²
(One square
metre)

1	2	3	4	5	6	7
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24

Manufacturing, supplying and fixing in position of **Steel Sheeted windows** with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 Kg/m and mullion 'J' Section (F4B) of size 46 x 25 x 3mm at 2.28 Kg/m and shutter section of made of F7D of 33 x 25 x 3 mm at 1.419 Kg/m as specified in IS 7452 / 1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18 x 5mm MS Flat at 0.70 Kg/m at 3 Nos. for each shutter and additional diagonal stiffeners of the same MS Flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in positional firmly.

2 numbers of sturdy hinges and one number of handle-cum-latch of special type made with 18 x 5mm MS Flats are revetted to the shutters at an appropriate height in window. Suitable opening is left for its easy operation. A stopper square rod for handle is provided in the mullion section at suitable place to catch the window handle. Each window shutter having an adjustable stay made out of 18 x 5mm at 0.70 Kg/m MS Flat of length 320mm with three adjustable position. A matching peg is provided in the outer frame

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1	2	3	4	5	6	7
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of the window at suitable place. 4 Nos. of hold fasts of 120mm length spliced at the ends are welded to the outer frame of the window by using MS Flat of 18 x 5 mm at 0.70 Kg/m, welded to the shutter at two place equivalent from each other from top and bottom of the shutter. An MS square bar of 12mm size is welded to the inner face of the window at an equal interval not exceeding 100mm edge to edge between them. All members are painted with one coat of anti-corrosive red oxide primer as directed by the departmental officers. All sections should be in confirmed with IS 7452 / 1990. The cost includes cost of all materials, labour charges and other incidental charges, etc., complete.

7.00 M²
(Seven square metres
only)

Two Leaves Shutters(1.20 x 1.30m)

1m²
(One square
metre)

1	2	3	4	5	6	7
25		Supplying and fixing in position best approved BIS quality of PVC rain water down fall pipes having a working pressure of 4 Kg./sq.cm of following dia. including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc. and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc. complete. The rate shall be inclusive of cost of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of clamps. Special type of "U" clamp at the centre of the pipe line shall be fixed in addition to those for more than 3.0 metre pipe length etc., complete complying with standard specification.	Similar to 98 & 99			
a	7.00 Rm (Seven running metres only)	110mm dia				1 RM. (One running metre)
26	846.00 Kg (Eight hundred and forty six kilo grams only)	Barbed Wire 10 Gauge Two ply and four pronged (Galvanised) including labour charges for conveying, cutting with binding wire and fixing the fencing pole etc complete as directed by the departmental officers.				1 Kg. (One kilo gram)

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1	2	3	4	5	6	7
27	2430.00 Kg (Two thousand four hundred and thirty kilo grams only)	Supplying and fixing mild steel iron grill for windows ventilators and grill gate etc., including one coat of red oxide primer using M.S angle of size 40 x 40 x 6 mm and grill using 20 x 6mm M.S flat and necessary hold fast with M.S angle of size 40 x 40 x 6 mm - 230 mm long spliced at end is to be provided at appropriate places for fixing the grill etc., complete complying with standard specification. The type design for the grills should be got approved by the departmental officers before execution.	Special		1 Kg. (One kilo gram)	
28	36.00 M ² (Thirty six square metres only)	White washing three coats using freshly burnt shell lime white in colour in all floors.Fevical type gum / glue powder should be used in the preparation of white wash solution as per I S 6278 of 1971. Adequate quantity of approved blue powder shall be added to white wash solution for application to the walls. The rate is Inclusive of cost of lime, glue powder, fevical type gum brushes, and scaffolding charges etc. complete complying with standard specification.			1m ² (One square metre)	
29	424.00 M ² (Four hundred and twenty four square metres only)	Painting two coats of newly plastered wall surface with ready mixed Exterior emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			1m ² (One square metre)	

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1	2	3	4	5	6	7
30	970.00 M ² (Nine hundred and seventy square metres only)	Painting one coat of old plastered wall surface with ready mixed Exterior emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			1m ² (One square metre)	
31	30.00 M ² (Thirty square metres only)	Painting two coats of newly plastered wall surface with ready mixed Plastic interior emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.			1m ² (One square metre)	
32	26.00 M ² (Twenty six square metres only)	Painting new iron work with two coats of best first quality synthetic enamel paint of approved colour over the existing red-oxide primer coat in all floors excluding cost of priming coat etc. complete complying with standard specification. (The brand, quality and colour of paint should be got approved by the Executive Engineer before use on works.)			1m ² (One square metre)	

Total Item No: (32 items only)

Sub Total

GST 12%

Total Rs.

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