

TAMILNADU POLICE HOUSING CORPORATION LIMITED

SALEM DIVISION

**REPORT TO ACCOMPANY THE ROUGH COST ESTIMATE FOR THE
CONSTRUCTION OF NEW DISTRICT FIRE AND RESCUE SERVICE STATION
BUILDING AT KOLLI HILLS, VALAVANTHI NADU IN NAMAKKAL DISTRICT.**

Estimate Amount: 360.00 Lakhs

The Chief Engineer/TNPHC Ltd, Chennai has instructed to send the rough cost and feasibility estimate for construction of new fire and rescue service station building at kolli hills, valavanthi nadu in namakkal district.

Based on the above, instruction the site has been inspected by the site is located in Karavalli – Semmedu Road, it is found that the old S.F.No 275/a1/28 & New S.F.No.274/3 having an extent of land 2.36 Acres has been identified by the user department. The site undulated and low lying area. The site is after cutting and trimming the trees is feasible for construction work.

The Soil Stratum is of ordinary loose soil for 0.30m, .0.90m Gravelly soil mixed with small size boulders for 0.30m below that followed by SDR.

Regarding water supply a deep bore well has to be drilled which is having adequate yield is fit for utility purpose and water supply connection can be obtained for drinking water.

No burial ground exists within the radius of 300feet. Under the circumstances mentioned above the site is feasible for construction.

This rough cost estimate has been prepared and submitted here with for the following provisions:

1. **FOUNDATION** : The F&RS (GF & FF) are proposed to be constructed as frame structure. The plinth area at ground floor of the building is taken for the calculation of Foundation cost as per Annexure-I
2. **SUPER STRUCTURE:-** Brick work in CM 1:6 using chamber burnt bricks with necessary cupboard arrangement. For the calculation of

cost the plinth area of the respective floor of the building is taken from Annexure V of Residential framed Structure.

3. **ROOF FINISHING:** - R.C.C. Roof slab with one course of cooling tiles over base concrete. For the Calculation of roof finishing Plinth area at ground level of the building is taken under Annexure I
4. **FLOORING:** - Rajasthan kotta stone flooring are proposed are proposed for the floor finish and 80% of the total plinth area is taken for calculating the cost from Annexure I.
5. **WALL FINISHING:** - Plastering in CM 1:5, 12mm thick and for inner and outer cement painting is Proposed.
6. Internal water supply arrangements, sanitary arrangements, and electrical arrangement is given as per the Annexure I.
7. External water supply, sanitary arrangement and electrical arrangement are provided as per Annexure III.

The Estimate is prepared as per the current Plinth area Rates 2020-2021. And also given an extra 40% on the rates of labour & works, and extra 25% over the rates of materials as allowed for the works in Kolli hills in Namakkal District.

The rough cost estimate for main work only out to **Rs. 36,91,00** Lakhs which includes Goods and Service Tax @ 12%, Labor welfare fund @ 1%, Contingencies charges Supervision charges @7.50%, has been prepared based on the Plinth area rates for the year 2020-2021. Which included in this estimate.

The Rough cost estimate prepared and submitted herewith for getting administrative approval & financial sanction from the competent authority.

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JE
Salem
23/7/20

23/7/20
Rc/AM

24/7/20
Executive Engineer,
Salem Division.

24/7/20
மாவட்ட அலுவலர்,
தீயணைப்பு-மிடப்புப் பணிகள்,
நாமக்கல் மாவட்டம்,
நாமக்கல்-637 001.

24/7/20

TAMIL NADU POLICE HOUSING CORPORATION LIMITED**SALEM DIVISION**

Name of Work : CONSTRUCTION OF NEW FIRE AND RESCUE SERVICE STATION BUILDING AT KOLLI HILLS, VALAVANTHI NADU IN NAMAKKAL DISTRICT.

GENERAL ABSTRACT

Rate adopted for the year 2020 - 2021

Description	NO.OF Block	Rate Rs.	Per	Amount Rs.
CONSTRUCTION OF FIRE AND RESCUE SERVICE STATION BUILDING	1.00	21961463.34	1L	21961463.34
Sub - Total - I				21961463.34
Provision for Approach road with Kerb stone both sides	67.50	2481.48	Sqm	167500.00
Provision for Vehicle Shed	1.00	340900.00	No	340900.00
Provision for Retaining wall	54.00	15688.89	Rmt	847200.00
Provision for compound wall with stub column	395.00	8148.61	Rmt	3218700.00
Provision for Soil investigation	As per PWD norms			33770.00
Sub - Total - II				26569533.34
Provision for Clearing the site & filling low lying area & basement		LS		200000.00
Provision for Numbering and Lettering		L.S		50000.00
Provision for Borewell, Sump & Pump room		L.S		300000.00
Provision for UG cable arrangements for 3 Phase EB service connection		L.S		100000.00
Provision for Drinking water supply connection		L.S		20000.00
Sub - Total - III				27239533.34
Provision For Goods And Service Tax @ 12%		L.S		3268744.00
Sub - Total - IV				30508277.34
Provision for Labour Welfare Fund @ 1%		L.S		305082.77
Unforeseen items & Contingencies at 2.50 %		L.S		762706.93

Description	NO.OF Block	Rate Rs.	Per	Amount Rs.
Price adjustment clause @ 5%		L.S		1525413.87
Provision for Supervision Charges @ 7.5%		L.S		2288120.80
Sub - Total - V				35389601.72
Provision towards EB deposits		L.S		300000.00
Structural design & consultancy charges		L.S		100000.00
Provision for Property tax & planning permission payment to local body		L.S		100000.00
Advertisement charges		L.S		100000.00
Provision for foundation stone laying & inagural function		L.S		13000.00
Grand Total				36002601.72
Say				360.00 Lakhs

M. M. M. M. M.
23/7/20
Salem

23/7/20
23/7/20

Executive Engineer
Salem Division

மாவுட்ட அலுவலர்,
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நாமக்கல்-637 001.

TAMIL NADU POLICE HOUSING CORPORATION LIMITED**SALEM DIVISION**

Name of Work : CONSTRUCTION OF NEW FIRE AND RESCUE SERVICE STATION BUILDING AT KOLLI HILLS, VALAVANTHI NADU IN NAMAKKAL DISTRICT.

Plinth Area Statement: in M²

Floor Detail		Unit
Ground floor Area	190.40	m ²
Office Area	229.00	m ²
Portico & Varandah area (Half area)	12.26	m ²
Ground floor	431.66	m²
First Floor	253.51	m ²
Head Room(Half area)	16.26	m ²
Total	701.43	m²

**FIRE AND RESCUE
SERVICE BUILDING**

672.91

For Add 40% for Kolli Hills

Rate adopted for the year 2020 - 2021

Non - Residential Building

	Description	Plinth Area (m ²)	Rate Rs.	Per	Amount Rs.
1	Cost of Foundation	431.66	6426.00	m ²	2773847.16
2	For additional 0.90m basement height	431.66	1890.00	m ²	815837.40
3	Cost of Super Structure (As per annexure - (I & V)				
	a) Ground floor	431.66	12628.00	m ²	5451002.48
	b) First Floor	253.51	12628.00	m ²	3201324.28
	c) Head Room (65 % of Super structure cost)	16.26	8208.20	m ²	133465.33
4	Roof Finishing	701.43	2142.00	m ²	1502463.06
5	Cool Tiles (30% of Roof finishing Rate)	701.43	642.60	m ²	450738.92
6	Antitermite treatment	431.66	161.00	m ²	69497.26
7	For Joinery Items(Floor Area)	701.43	777.00	m ²	545011.11

Description	Plinth Area (m2)	Rate Rs.	Per	Amount Rs.
Dummy Column	672.91	502.60	m ²	338204.57
Rajasthan kotta stone flooring (Laid combination with marble strips) (80% of Plinth area)	561.14	1820.00	m ²	1021282.08
Cement painting / OBD Painting (Inner 50 % plinth area)	350.72	728.00	m ²	255320.52
Plastic Emulsion paint (Outer 50% of plinth area)	350.72	1050.00	m ²	368250.75
a) Internal Water Supply Arrangements (For G.F & F.F)	672.91	679.00	m ²	456905.89
b) Internal Sanitary arrangements (For G.F & F.F)	672.91	518.00	m ²	348567.38
c) Internal Electrical arrangements (For G.F & F.F) (Extra power plug) (845+23)	701.43	1215.20	m ²	852377.74
Extra provision for TW door shutter, cupboard, bathroom(80% of plinth area)	672.91	1996.40	m ²	1343397.52
Sub - Total - I				19927493.45
a) External Water Supply arrangements (For G.F& F.F)	672.91	1043.00	m ²	701845.13
b) External Sanitary arrangements (For G.F & F.F)	672.91	322.00	m ²	216677.02
c) External Electrical arrangements (For G.F & F.F)	672.91	903.00	m ²	607637.73
Pavement platform all-round the building (1.20m width)	88.20	1484.00	m ²	130888.80
Rainwater harvesting	2.00	20083.00	Each	40166.00
Provisions for LED Lightings	701.43	196.00	m ²	137480.28
Elevation 1% of Building cost	As Per PWD norms			199274.93
Sub - Total - II				21961463.34

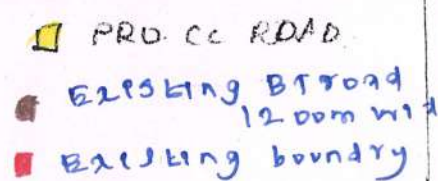
M. Miniraj
36/23/1/20
Salem

23/1/20
HE/SL

Executive Engineer
Salem Division

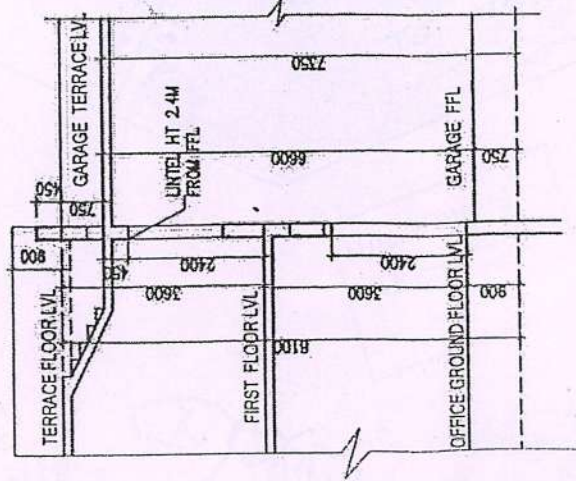
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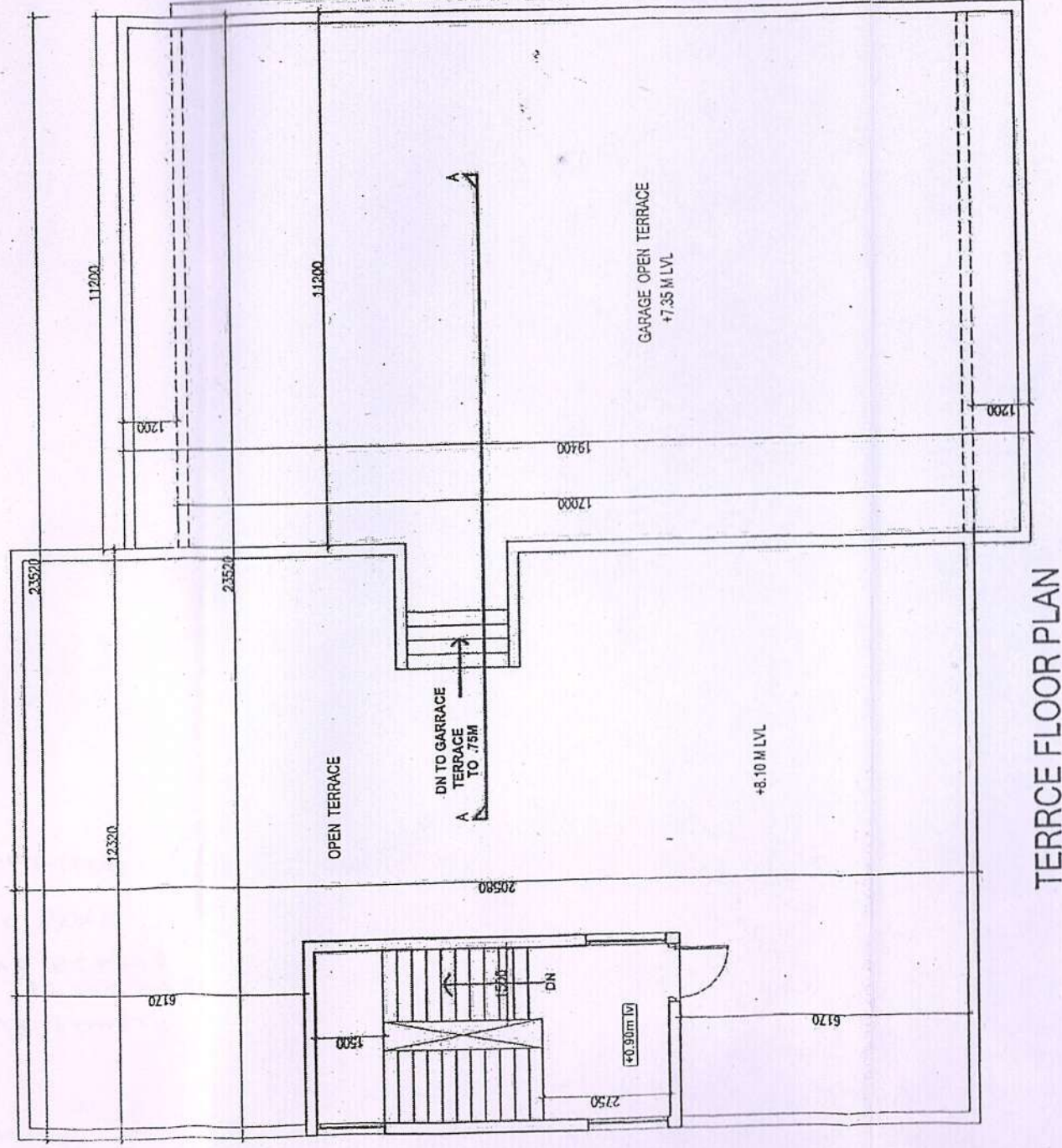


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 தீயணைப்பு-மீட்புப் பணிகள்,
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PART SECTION AA



TERRACE FLOOR PLAN

OFFICE AREA - ROOF HT 3.8M (ROOF TOP) EACH FLOOR
GARAGE AREA BEAM BOTTOM +7.35M FROM NGL
LUTEL HT 2.4M FROM FFL

AREA STATEMENT

	Sqm
GROUND FLOOR AREA	
GARAGE (ROOF TOP 5.550m HT FROM FINISHED GARAGE LVL)	= 190.40
OFFICE AREA	= 229.00
PORCH & VERANDAH (HALF AREA)	= 12.26
FIRST FLOOR AREA	= 253.51
TOTAL	= 685.17
HEAD ROOM (HALF AREA)	= 16.26

PROPOSED CONSTRUCTION OF
FIRE AND RESCUE SERVICE STATION
BUILDING

S.NO
VILLAGE
BLOCK
TOWN / TALUK
DISTRICT

Dr. No. DATE 12.03.2020 SHEET NO:02/02

SCHEMATIC DRAWING

Sd., ... dt. 13/03/2020 Asst. Architect	Sd., ... dt. 13/03/2020 AEE/Arch	EE (PA TO SE)
EE (PLG)	Sd., ... dt. 13/03/2020 Chief Engineer (C.C.)	Sd., ... dt. 13/03/2020 Chief Engineer (C.C.)



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மாவட்ட அலுவலர், 28.10.20
தீயணைப்பு-நீட்டிப்பு பணிகள்,
நாமக்கல் மாவட்டம்,
நாமக்கல்-637 001.

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24/7/20
EE/SLM

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M. Minsif
28/1/20
Sd.