



File No: NESTS/Civil/EMRS Order/140/2021-22

Date:05.03.2022

To,

**The Chief Engineer  
CPWD Andhra Pradesh/Telangana/Rajasthan/Tripura/Maharashtra/Himachal Pradesh**

**Sub: Submission of Preliminary Estimates of EMRS for Phase-II Construction and One- Phase Construction Reg.**

Dear Sir,

The CPWD has been allotted constructions of 39 Eklavya Model Residential School (EMRS) and 01 EMDBS in the designated blocks in the state of Andhra Pradesh, Telangana, Rajasthan, Tripura, Maharashtra and Himachal Pradesh. The Phase-I construction of EMRSs is progress in majority of locations in the state of Andhra Pradesh, Telangana, Rajasthan and Tripura whereas construction work in Maharashtra and Himachal Pradesh is yet to start. The competent authority has now approved the Phase-II construction work based on the receipt of revised Estimate from Government of India. In this regard CPWD is requested to submit the preliminary Estimate for Phase-II Construction as per the NESTS Phasing Order No.18015/11/2019-EMRS(Pt) dated 08.09.2020. Wherever, Phase-I construction has not been approved, and A/A & E/S is not issued so far, the EMRS Construction work shall be taken up in One Phase only, covering construction activities of both the Phases.

- 1. Preliminary Estimate-** Preliminary Estimates including detailed provision of cutting, filling and retaining structures, Stone pitching shall be submitted for issue of A/A & E/S for Phase-II construction for a total Plinth Area of 4390 Sq mt. and for One-Phase Construction for a total Plinth Area of 10040 Sq. Mt. The PE shall be submitted on standard PE format (Reference estimate) shared by NESTS based on DPAR 2012 with applicable CPWD Cost Index for issue of A/A & E/S. The standard PE format is enclosed at **Annexure-I** and **Annexure-II** for Phase-II and One-Phase Construction respectively.
- 2. Phase I Project Cost:** - The CPWD shall provide the likely expenditure for completion of Phase-I construction based on tendered amount and upto date expenditure: -

EMRS	Tendered Cost	Project Cost including other provisions like ESI/EPF/Contingencies etc based on tendered amount.	Upto date Expenditure	Likely project Cost including ESI/EPF/ Contingencies, deviation, if any, etc based on tendered amount, on completion of Phase-I

- 3. MLP (Master Layout Plan):-** The copy of the already approved MLP in Phase -I including remarks/revision/changes, if any, may be submitted. The MLP shall include the complete development plan including services as per enclosed Checklist in **Annexure-III**.

- The actual demarcated position of all buildings indicating the actual plinth level, road levels, protection works, etc.
- The placement of buildings of Phase-II construction - Hostels, Principal Quarter, Type III Qts (G+1) - 2 Blocks, Type II (G + 2) -1 Block.
- The one Type-III Quarter at GF shall be converted into Guest House. No separate block for Guest House.

- (iv) Sports infrastructure as per approved MLP indicating ground level, dimensions of playground, volleyball & basketball court, Archery. The dimension of playground shall be kept in such a way to have 200 or 400 metre tracks only. The actual demarcated position of buildings being taken up in Phase-I
- (v) The actual demarcated boundary indicating length of compound wall and entrance gate Location.
- (vi) The layout diagram of roads, Storm Water Drains, Sewerage, Water Distribution Diagrams, UG cables, Street lights and other services, Septic Tank, Sump, ESS, etc
4. **Specifications:** - The Specifications for floor height, floors, internal & external finishes, cladding, internal partition details, doors & windows, flooring, ramp, etc is enclosed at **Annexure 'A'**
5. **Architectural Drawings:** -  
With reference to the earlier approved drawings based on CPWD and NESTS Drawings dated 18.10.2021, an updated drawings for School Building, Hostels, Kitchen & Dinning, Principal Quarter, Type III Quarters, Type II Quarters, Security Cabin and Entrance Gate are enclosed at **Annexure 'B'**. The discrepancies, if any, in architectural drawings and specification shall be brought to the notice of NESTS
6. **Structural Drawings and TPQA:** -  
NESTS order dated 27.01.2022 for vetting of structural drawings and TPQA shall be followed. The vetting of the structural drawings shall be done through IITs only in respect of all the works of Northeast Region due to high seismic zone and NITs/IIT/CBRI, Roorkee in respect of other locations.
7. **North East/Hilly Area:** -  
The construction in the North Eastern region and hilly areas of other parts of the country requires adopting construction & design as per the available hilly terrain. The EMRS building may be planned along contour with special design to reduce the cost of construction. Every structure in hilly area is required to be designed as per availability of terrain of the land. Regarding roofing in high rainfall areas, the roof truss with pre-coated profile sheet roofing shall be considered in place of flat RCC slab roof for school buildings. The special planning and design in respect of North East Region and Hilly region are detailed below: -
- The school building shall be G +2 with pre-coated roof/flat roof depending upon rainfall intensity.
  - The Hostels' buildings shall be G +2 including kitchen & Dinning, no separate Kitchen and Dining Building.
  - The architectural drawings for North East/ Hilly region are enclosed at **Annexure 'C'**

The CPWD is requested to submit the Preliminary Estimate for issue of A/A & E/S for Phase -II so that further activities like approval of Final MLP, Detailed Estimate, tender etc can be processed. The Final MLP may be submitted subsequently after the issue of A/A & E/S for Phase-II. Final MLP shall be submitted as per the approved checklist and suggested guidelines mentioned at S. N. 3 above, however, the Likely Project Cost on completion of Phase-I may be shared along with Preliminary Estimate in prescribed table indicated at S. N. 2

This order is issued with the approval of competent authority.

Encl: As above

Your faithfully,



(K C Meena)

Additional Commissioner, NESTS

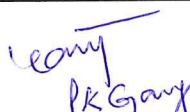
Copy to:

1. Executive Engineer Vijayawada and Vishakhapatnam, CPWD Andhra Pradesh
2. Executive Engineer HYD-II and IV, CPWD Telangana
3. Executive Engineer TCD-I and II, CPWD Tripura
4. Executive Engineer CPWD Shimla, Himachal Pradesh
5. Executive Engineer Ajmer and Jodhpur division, CPWD Rajasthan
6. Executive Engineer Nashik, Palghar, Gadchiroli CPWD Maharashtra
7. PS to Commissioner, NESTS
8. Guard File

**ANNEXURE-I ( STANDARD FORMAT ) : PRELIMINARY ESTIMATE for EMRS PHASE-II Construction**  
(PE for reference purpose only)

S. No.	ITEMS	Quantity		Rate	Amount (in Rs.)	BASE	Remarks
(A)	<b>Non-Residential Buildings</b>						
1	School Building	0	Sqm		0	DPAR 12	
	<b>Sub Total</b>	<b>0</b>	<b>Sqm</b>		<b>0</b>	<b>(A)</b>	
(B)	<b>Residential Buildings</b>						
1	Girl's Hostel	1140	Sqm		25,092,445	DPAR 12	Annexure-b
2	Boy's Hostel	1140	Sqm		25,092,445	DPAR 12	Annexure-d
3	Principal Qtr	130	Sqm		2,857,476	DPAR 12	Annexure-f
4	Type III qtrs - 15 No + I Guest House of Plinth Area 80 Sqm	1280	Sqm		27,765,659	DPAR 12	Annexure-g
5	Type II Qtrs - 10 No.	700	Sqm		15,173,860	DPAR 12	Annexure-h
6	Kitchen & Dining	0	Sqm		0	DPAR 12	
7	Structure for Sub Station, Pump Room, Security Cabin	0	Sqm		0	DPAR 12	
	<b>Sub Total</b>	<b>4390</b>	<b>Sqm</b>		<b>95,981,885</b>	<b>(B)</b>	
	<b>Total Plinth Area</b>	<b>4390</b>	<b>Sqm</b>				
(C)	<b>Development of Site</b>						
1	Internal roads & paths with cement concrete pavement with vaccum dewatered concrete. [(20%* of Total Plot Area of the site i.e. 15 Acre x 4047 = 60705 Sqm) = 24282 sqm] With WBM Base Course)	12141	Sqm	145	1,760,445	DPAR 12	
2	Sewerage System [(15%* of Total Plot Area of the site i.e. 15 Acre x 4047 =60705 Sqm) = 18212 sqm]	9106	Sqm	110	1,001,660	DPAR 12	
3	Filter Water Supply :-Distribution lines 100 mm dia and below (Plinth Area of Phase-1 )	4390	Sqm	80	351,200	DPAR 12	
4	Unfiltered water supply distribution lines (Plinth Area of Phase-1 )	4390	Sqm	45	197,550	DPAR 12	
5	Storm water drains [(20%* of Total Plot Area of the site i.e. 15 Acre x 4047 = 60705 Sqm) = 24282 sqm]	12141	Sqm	85	1,031,985	DPAR 12	
	<b>Sub Total</b>				<b>4,342,840</b>	<b>(C)</b>	
(D)	<b>Water Tank</b>						
1	RCC OH Tank	25000	Litre	15	375,000	DPAR 12	
2	UG Sump	50000	Litre	15	750,000	DPAR 12	
	<b>Sub Total</b>				<b>1,125,000</b>	<b>(D)</b>	
	<b>Total</b>	<b>A + B + C + D</b>			<b>101,449,725</b>		
	Add enhancement @120 % (aveagre) due increase in CI of a particular location over DPAR 2012			<b>20.00%</b>	<b>20,289,945</b>		
	<b>TOTAL Estimated Cost on DPAR 2012</b>				<b>121,739,670</b>	<b>(H)</b>	
(E)	<b>MISCELLANEOUS SERVICES</b>						
1	<b>Civil</b>						
1.1	Rain Water Harvesting (RWH)	4390	Sqm	90	395,100	DPAR 19	
1.2	Compound/Boundary wall with 1.5 metre normal height from GL & 0.60 meter high MS grill, and required no. of steel gates/wicket gates etc.	0	Metre	9000	0	DPAR 19	
1.3	Extra for 0.30 metre additional height of compound wall beyond 1.50 metre (actual length = 1056.7 )	0	Metre	800	0	Derived from DAR 19	
	<b>Sub Total</b>				<b>395,100</b>	<b>(E1)</b>	
2	<b>Electrical</b>						
2.1	SUB Station (HT Panel, Transformer, HT Cable etc.)	0	KVA	9000	0	DPAR 19	
2.5	Supplying, installation, testing and commissioning of Silent Type DG Sets(25 KVA)	25	KVA	11000	275,000	DPAR 19	S. No. 2/page
2.3	LED Street Light	4390	Sqm	150	658,500	DPAR 19	S. No. 20/page
2.4	CCTV system (for external surveillance of plot area)	0	Sqm	200	0	DPAR 19	
	<b>Sub Total</b>				<b>933,500</b>	<b>(E2)</b>	
	<b>TOTAL Estimated cost on DPAR 2019 as on 01.04.2019</b>	<b>E1 + E2</b>			<b>1,328,600</b>	<b>(E3)</b>	
	Add enhancement @ 1.70% due to increase in Cost Index from 118 to 120 (average) over DPAR 2019			<b>1.70%</b>	<b>22,586</b>		
	<b>Total</b>				<b>1,351,186</b>	<b>(I)</b>	

  
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(F)	Site Specific Requirement if any like Retaining Wali/ Cutting/Filling Lump Sump, Exact Details to be worked out in DE stage)						
1	Site Levelling	0	Job	0	0		
2	Protection Works/ RR/Stone pitching	0	Job	0	0		
					0		
	Add enhancement @ 1.70% due to increase in Cost Index from 118 to 120 (average) over DPAR 2019	1.70%			0		
					0		
(G)	<b>OTHER SERVICES</b>						
1	<b>Civil</b>						
1.1	Deep Bore Well 8" dia with 7.5 Hp Submersible Motor i/c wiring accessories, GI suction & delivery Pipe 300 metre 80m mm , control panel, starter, etc.	1	Job	650000	650,000	MR	
1.2	Septic tank	1	Job	1000000	1,000,000	MR	
2	<b>Fire Fighting work</b>						
2.1	Fire Extinguishers ABC Dry Chemical	20	Nos.	2500	50,000	MR	
2.2	First Aid Hose Reel and down comer fire fighting system (for school building, Girls & Boys hostel)	2	Nos.	350000	700,000	MR	
2.3	Pump including wiring accessories, control panel etc. for Supply to OH Tank	1	Job	75000	75,000	MR	
2.4	5 Hp Sewarge Pumps including delivery & suction lines	1	Job	125000	125,000	MR	
					1,950,000		
3	<b>Sports Facilities ( Lump Sum Provision)</b>						
3.1	Play Ground with 400 Metre running track	1	Job	3500000	3,500,000	MR	
3.2	Basket Ball Court - 2 Nos. i/c Special Lighting for Basket Volley Ball	2	Job	1250000	2,500,000	MR	
3.3	Volley Ball Court - 2 Nos i/c 2 Nos. i/c Special Lighting for Basket	2	Job	100000	200,000	MR	
3.4	Archery including target board,equipment ,etc	1	Job	750000	750,000	MR	
	<b>Sub Total</b>				6,950,000	(J)	
	<b>Total Amount of DPAR 2012 =</b>				121,739,670	(H)	
	<b>Total Amount of DPAR 2019 Items =</b>				1,351,186	(I)	
	<b>Total Amount of MR Items (F) =</b>				8,900,000	(J)	
	<b>Total (H + I + J) =</b>				131,990,856	(K)	
	<b>Add 3% Contengencies on (K) =</b>				3,959,726	(L)	
	<b>Add 4% for ESI &amp; EPF on (K) =</b>				5,279,634	(M)	
	<b>Project Cost including Contingencies and ESI &amp; EPF (K + L+ M) =</b>				141,230,216	(N)	
	<b>The estimate cost worked out on basis of standard estimate by NESTS for building including services &amp; campus development</b>				141,230,200		

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**ANNEXURE-II( STANDARD FORMAT ) : PRELIMINARY ESTIMATE for Single-Phase EMRS Construction (Plot Area Area 15 Acre)**  
(PE for reference purpose only)


S. No.	ITEMS	Quantity	Rate	Amount (in Rs.)	BASE	Remarks
(A)	<b>Non-Residential Buildings</b>					
1	School Building	2580	Sqm	55,912,438	DPAR 12	Annexure-a
	<b>Sub Total</b>	<b>2580</b>	<b>Sqm</b>	<b>55,912,438</b>	<b>(A)</b>	
(B)	<b>Residential Buildings</b>					
1	Girl's Hostel	2280	Sqm	50,184,890	DPAR 12	Annexure-b
2	Girls' Hostel Warden	80	Sqm	1764858	DPAR 12	Annexure-c
3	Boy's Hostel	2280	Sqm	50,184,890	DPAR 12	Annexure-d
4	Boys' Hostel Warden	80	Sqm	1,764,858	DPAR 12	Annexure-e
5	Principal Qtr	130	Sqm	2,857,476	DPAR 12	Annexure-f
6	Type III qtrs - 15 No + 1 Guest Hose of 80 Sq Mt.	1280	Sqm	27,765,659	DPAR 12	Annexure-g
7	Type II Qtrs - 10 No.	700	Sqm	15,173,860	DPAR 12	Annexure-h
8	Kitchen & Dining	550	Sqm	12,118,321	DPAR 12	Annexure-i
9	Structure for Sub Station, Pump Room, Security Cabin	80	Sqm	1,492,630	DPAR 12	Annexure-j
	<b>Sub Total</b>	<b>7460</b>	<b>Sqm</b>	<b>163,307,442</b>	<b>(B)</b>	
	<b>Total Plinth Area</b>	<b>10040</b>	<b>Sqm</b>			
(C)	<b>Development of Site</b>					
1	Internal roads & paths with cement concrete pavement with vacuum dewatered concrete. [(60%* of Total Plot Area of the site i.e. 15 Acre x 4047 = 60705 Sqm) = 36423 sqm] with WBM Base Course)	36423	Sqm	145	5,281,335	DPAR 12
2	Sewerage System [(45%* of Total Plot Area of the site i.e. 15 Acre x 4047 = 60705 Sqm) = 27317 sqm]	27317	Sqm	110	3,004,870	DPAR 12
3	Filter Water Supply :-Distribution lines 100 mm dia and below (Plinth Area of Phase-1 )	10040	Sqm	80	803,200	DPAR 12
4	Unfiltered water supply distribution lines (Plinth Area of Phase 1 )	10040	Sqm	45	451,800	DPAR 12
5	Storm water drains [(60%* of Total Plot Area of the site i.e. 15Acre x 4047 = 60705 Sqm) =36423 sqm]	36423	Sqm	85	3,095,955	DPAR 12
	<b>Sub Total</b>				<b>12,637,160</b>	<b>(C)</b>
(D)	<b>Water Tank</b>					
1	RCC OH Tank	50000	Litre	15	750,000	DPAR 12
2	UG Sump	100000	Litre	15	1,500,000	DPAR 12
	<b>Sub Total</b>				<b>2,250,000</b>	<b>(D)</b>
	<b>Total</b>				<b>(A) + (B) + (C) + (D)</b>	
	Add enhancement @120 % (aveagre) due increase in CI of a particular location over DPAR 2012			20.00%	46,821,408	
	<b>TOTAL Estimated Cost on DPAR 2012</b>				<b>280,928,448</b>	<b>(X1)</b>
(E)	<b>MISCELLANEOUS SERVICES</b>					
1	<b>Civil</b>					
1.1	Rain Water Harvesting (RWH)	10040	Sqm	90	903,600	DPAR 19
1.2	Compound/Boundary wall with 1.5 metre normal height from GL & 0.60 meter high MS grill, and required no. of steel gates/wicket gates etc.	1000	Metre	9000	9,000,000	DPAR 19
1.3	Extra for 0.30 metre additional height of compound wall beyond 1.50 metre (actual length = 1056.7 )	1000	Metre	800	800,000	Derived from DAR 19
	<b>Sub Total</b>				<b>10,703,600</b>	<b>(E1)</b>
2	<b>Electrical</b>					
2.1	SUB Station (HT Panel, Transformer, HT Cable etc.)	250	KVA	9000	2,250,000	DPAR 19
2.2	Supplying & commissioning of online 3 phase UPS System with 30 minutes back up	5	KVA	20000	100,000	DPAR 19
2.3	Supplying, installation, testing and commissioning of Silent Type DG Sets(25 KVA)	25	KVA	11000	275,000	DPAR 19
2.4	LED Street Light	10040	Sqm	150	1,506,000	DPAR 19
2.5	CCTV system (for external surveillance of plot area)	2580	Sqm	200	516,000	DPAR 19
	<b>Sub Total</b>				<b>4,647,000</b>	<b>(E2)</b>
	<b>TOTAL Estimated cost on DPAR 2019 as on 01.04.2019</b>				<b>(E1) + (E2)</b>	<b>(E3)</b>
	Add enhancement @ 1.70% due to increase in Cost Index from 118 to 120 (average) over DPAR 2019			1.70%	260,960	
	<b>Total</b>				<b>15,611,560</b>	<b>(X2)</b>
(F)	<b>Site Specific Requirement if any like Retaining Wall/ Cutting/Filling Lump Sump, Exact Details to be worked out in DE stage)</b>					
1	Site Levelling	0	Job	0	0	
2	Protection Works/ RR/Stone pitching	0	Job	0	0	
	<b>Sub Total</b>				<b>0</b>	

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	Add enhancement @ 1.70% due to increase in Cost Index from 118 to 120 (average) over DPAR 2019	1.70%			0		
	<b>Total</b>				0	(X3)	
<b>(G)</b>	<b>OTHER SERVICES</b>						
<b>1</b>	<b>Civil</b>						
1.1	Deep Bore Well 8" dia with 7.5 Hp Submersible Motor i/c wiring accessories, GI suction & delivery Pipe 300 metre 80mm, control panel, starter, etc.	2	Job	650000	1,300,000	MR	
1.2	Septic tank	4	Job	1000000	4,000,000	MR	
<b>2</b>	<b>Fire Fighting work</b>						
2.1	Fire Extinguishers ABC Dry Chemical	40	Nos.	2500	100,000	MR	
2.2	First Aid Hose Reel and down comer fire fighting system (for school building, Girls & Boys hostel)	3	Nos.	350000	1,050,000	MR	
2.3	Pump including wiring accessories, control panel etc. for Supply to OH Tank	2	Job	75000	150,000	MR	
2.4	5 Hp Sewage Pumps including delivery & suction lines	1	Job	125000	125,000	MR	
	<b>Sub Total</b>				<b>6,725,000</b>	<b>(X4)</b>	
<b>3</b>	<b>Sports Facilities ( Lump Sum Provision)</b>						
3.1	Play Ground with 400 Metre running track	1	Job	3500000	3,500,000	MR	
3.2	Basket Ball Court - 2 Nos. i/c Special Lighting for Basket Volley Ball	2	Job	1250000	2,500,000	MR	
3.3	Volley Ball Court - 2 Nos i/c 2 Nos. i/c Special Lighting for Basket	2	Job	100000	200,000	MR	
3.4	Archery including target board, equipment, etc	1	Job	750000	750,000	MR	
	<b>Sub Total</b>				<b>6,950,000</b>	<b>(X5)</b>	
	<b>Total Amount of DPAR 2012 = (X1)</b>				<b>280,928,448</b>	<b>(F)</b>	
	<b>Total Amount of DPAR 2019 Items = (X2) + (X3)</b>				<b>15,611,560</b>	<b>(G)</b>	
	<b>Total Amount of MR Items = ((X4) + (X5)</b>				<b>13,675,000</b>	<b>(H)</b>	
	<b>Total = (F) + (G) + (H)</b>				<b>310,215,008</b>	<b>(I)</b>	
	<b>Add 3% Contingencies on (I) =</b>				<b>9,306,450</b>	<b>(J)</b>	
	<b>Add 4% for ESI &amp; EPF on (I) =</b>				<b>12,408,600</b>	<b>(K)</b>	
	<b>Project Cost including Contingencies and ESI &amp; EPF = (I) + (J) + (K)</b>				<b>331,930,058</b>	<b>(L)</b>	
	<b>The estimate cost worked out on basis of standard estimate by NESTS for building including services &amp; campus development</b>				<b>331,930,100</b>		

  
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**ANNEXURE - a**  
**Construction of 01 No. School Building (G+1) with Plinth Area = 2580 Sqm**

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to PAR 2012
1	<b>Building Portion : R.C.C. Framed structure with floor height of 3.45 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 3.35 m	2580	15200	Sqm	39216000	1.1.1(B)
2	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 3.35m. {(3.75 - 3.35) / 0.3} x 270 = 405	2580	360.00	Sqm	928800	1.2.3 Floor ht. has been considered as 3.80m. As per NBC guidelines ceiling height is 3.60m. Hence floor to floor ht. has been considered as 3.80m, which includes thickness of slab & floor finish. (copy of NBC guidelines enclosed as Annexure - 1A)
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m) (Area taken as per CPWD DRG.No. CA(PRD)/23(14)/0139/01/R2)	1399	270.00	Sqm	377730	1.2.5 Depth of foundation assumed as 1.50m.
2.3	Resisting Earthquake forces.	2580	1140.00	Sqm	2941200	1.2.8
3	<b>Add for:</b>					
3.1	Applying acrylic smooth exterior smooth exterior paint in place of water proofing cement paint	1837	22.55	Sqm	41424	Difference of items rate in DSR 2012 at 13.44.1 & 13.46.1
3.2	Using Kota stone flooring in classrooms (649 sqm), common circulation area (1033 sqm) instead of c.c. flooring. (Total area = 1682 sqm)	1682	665.65	Sqm	1119623	Difference of items rate in DSR 2012 at 11.26.1 & 11.3.1
3.3	Using Kota stone flooring instead of mosaic cast-in-situ in main entrance hall (5.00m x 6.58m = 33 sqm), staircase (1033 sqm) and Lavatory block (182 sqm) (Total area = 1248 sqm)	1248	465.05	Sqm	580382	Difference of items rate in DSR 2012 at 11.26.1 & 11.9.3
3.4	Using ceramic glazed tile flooring instead of mosaic cast-in situ in Lavatory block (182 sqm)	182	292.25	Sqm	53190	Difference of items rate in DSR 2012 at 11.38 & 11.9.3
3.5	Using ceramic glazed tile in walls (full height) instead of mosaic cast-in-situ dado in toilet blocks (Wall area = Toilet floor area x 3.5)	638	102.35	Sqm	65299	Difference of items rate in DSR 2012 at 11.36 & 11.12.1.3
3.6	Using vitrified tiles in Staff room, Medical room, Principal, Vice Principal, Office instead of cc Flooring (Total area = 157 sqm)	157	1057.05	Sqm	165957	Difference of items rate in DSR 2012 at 11.41.2 & 11.3.1
3.7	Using marble strip in kota stone flooring in main entrance hall (33 sqm), common circulation area (1033 sqm) and classrooms (649 sqm). Total area 1715 sqm, net area of strip = 15% of 1715 = 257 sqm)	257	1047.60	Sqm	269233	Difference of items rate in DSR 2012 at 11.23.3 & 11.26.1
	<b>SubTotal</b>				<b>45758838</b>	<b>(A)</b>
4	<b>Building Cost</b> (to be used for Services items on % basis)				39,216,000	same as 1.2
5	<b>Services</b>					
5.1	Internal water supply and sanitary installations	39216000	5%	100	1960800	3.1
5.2	External service connections	39216000	5%	100	1960800	3.2
5.3	Internal Electrical Installations	39216000	12.5%	100	4902000	3.3
6	<b>Extras for:</b>					
6.1	Extra for power wiring and plugs for computer room, Science Labs, Principal, VP, Staff, Library, RC, Office, Medical Room 575 Sqm ( 575 x 15200 = 912000)	8740000	4%	100	349600	3.6.1
6.2	Extra for computer conducting	39216000	0.50%	100	196080	3.6.1
6.2	Extra for Central Call bell System	39216000	1%	100	392160	3.6.2
6.3	Lightning conductors, Upto 4 storeyed building	39216000	0.5%	100	196080	3.6.3.1
6.4	Telephone Conduits	39216000	0.5%	100	196080	3.6.4
	<b>SubTotal</b>				<b>10153600</b>	<b>(B)</b>
	<b>Building portion Cost</b>				<b>55912438</b>	<b>(A)+(B)</b>

*Leany Pk Gony*

*APKesh*

## ANNEXURE - b

## Construction of Girls Hostel (G+1) = 1140 Sqm

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to PAI 2012
1	<b>Building Portion : R.C.C. Framed structure with floor height of 3.15 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 2.90 m (1140 + 80 = 1220Sqm)	1140	15000.00	Sqm	17100000	1.1.2(B)
2	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 2.90 m. $\{(3.30 - 2.90) / 0.3\} * 270 = 360$	1140	360.00	Sqm	410,400	1.2.3
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	578	270.00	Sqm	156060	2.5.3
2.3	Resisting Earthquake forces.	1140	1140.00	Sqm	1,299,600	1.2.8
3	<b>Add for:</b>					
3.1	Using Kota stone flooring instead of mosaic cast-in-situ in dormitories (Total area = 1058 sqm)	1058	465.05	Sqm	492023	Difference of iter rate in DSR 2012 11.26.1 & 11.9.3
3.2	Using ceramic glazed tile flooring instead of mosaic cast-in-situ in Lavatory block (263 sqm)	263	292.25	Sqm	76862	Difference of iter rate in DSR 2012 11.38 & 11.9.3
				<b>Total</b>	<b>19,534,945</b>	<b>(A)</b>
3	<b>Building Cost:</b> (to be used for Services items on % basis)				17,100,000	same as at 1.2
4	<b>Services</b>					
4.1	Internal water supply and sanitary installations	17100000	10%	100	1,710,000	3.1
4.2	External service connections	17100000	5%	100	855,000	3.2
4.3	Internal Electrical Installations	17100000	12.5%	100	2,137,500	3.3
5	<b>Extras for:</b>					
5.1	Power wiring and plugs	17100000	4%	100	684,000	3.6.1
5.2	Lightning conductors Upto 4 storeyed building	17100000	0.5%	100	85,500	3.6.3.1
5.3	Computer conduiting	17100000	0.5%	100	85,500	3.6.4
				<b>Total</b>	<b>5,557,500</b>	<b>(B)</b>
				<b>Total cost (A) + (B)</b>	<b>25092445</b>	

Leony (RCC Corp)



## ANNEXURE - c

## Construction of Warden Residence = 80 Sqm

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to P/ 2012
<b>1</b>	<b>Building Portion : R.C.C. Framed structure with floor height of 3.15 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 2.90 m (1140 + 80 = 1220Sqm)	80	14500.00	Sqm	1160000	1.1.2(B)
<b>2</b>	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 2.90 m. {(3.15 - 2.90) / 0.3} * 270 = 225	80	225.00	Sqm	18,000	1.2.3
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	80	270.00	Sqm	21600	2.5.3
2.3	Resisting Earthquake forces.	80	1140.00	Sqm	91,200	1.2.8
<b>3</b>	<b>Add for:</b>					
3.1	Using vitrified tiles instead of mosaic flooring (Total area = 80 sqm)	80	894.00	Sqm	71520	Difference of ite rate in DSR 2012 11.41.2 & 11.9
3.2	Using ceramic glazed tile flooring instead of mosaic cast-in-situ in Lavatory block (8 sqm)	8	292.25	Sqm	2338	Difference of ite rate in DSR 2012 11.38 & 11.9.
				<b>Total</b>	<b>1,364,658.00</b>	<b>(A)</b>
<b>3</b>	<b>Building Cost:</b> (to be used for Services items on % basis)				1,160,000	same as at 1..
<b>4</b>	<b>Services</b>					
4.1	Internal water supply and sanitary installations	1160000	12%	100	139,200	3.1
4.2	External service connections	1160000	5%	100	58,000	3.2
4.3	Internal Electrical Installations	1160000	12.5%	100	145,000	3.3
<b>5</b>	<b>Extras for:</b>					
5.1	Power wiring and plugs	1160000	4%	100	46,400	3.6.1
5.2	Lightning conductors Upto 4 storeyed building	1160000	0.5%	100	5,800	3.6.3.1
5.3	Computer conduiting	1160000	0.5%	100	5,800	3.6.4
				<b>Total</b>	<b>400,200</b>	<b>(B)</b>
				<b>Total cost (A) + (B)</b>	<b>1764858</b>	

Leant (P.K. Ganga)

## ANNEXURE - d

Construction of Boys Hostel = 1140 Sqm

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to PAR 2012
1	<b>Building Portion : R.C.C. Framed structure with floor height of 3.15 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 2.90 m	1140	15000	Sqm	17100000	1.1.2(B)
2	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 2.90 m. {(3.30 - 2.90) / 0.3} * 270 = 360	1140	360	Sqm	410,400	1.2.3
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	578	270	Sqm	156,060	2.5.3
2.3	Resisting Earthquake forces.	1140	1140	Sqm	1,299,600	1.2.8
3	<b>Add for:</b>					
3.1	Using Kota stone flooring instead of mosaic cast-in-situ in dormitories (Total area = 1058 sqm)	1058	465.05	Sqm	492023	Difference of items rate in DSR 2012 at 11.26.1 & 11.9.3
3.2	Using ceramic glazed tile flooring instead of mosaic cast-in-situ in Lavatory block (263 sqm)	263	292.25	Sqm	76862	Difference of items rate in DSR 2012 at 11.38 & 11.9.3
				<b>Total</b>	<b>19,534,945</b>	<b>(A)</b>
3	<b>Building Cost:</b> (to be used for Services items on % basis)				17,100,000	same as at 1.2
4	<b>Services:</b>					
4.1	Internal water supply and sanitary installations	17100000	10%	100	1,710,000	3.1
4.2	External service connections	17100000	5%	100	855,000	3.2
4.3	Internal Electrical Installations	17100000	12.5%	100	2,137,500	3.3
5	<b>Extras for:</b>					
5.1	Power wiring and plugs	17100000	4%	100	684,000	3.6.1
5.2	Lightning conductors Upto 4 storeyed building	17100000	0.5%	100	85,500	3.6.3.1
5.3	Computer conduiting	17100000	0.5%	100	85,500	3.6.4
				<b>Total</b>	<b>5,557,500</b>	<b>(B)</b>
				<b>Total cost (A) + (B)</b>	<b>25092445</b>	

Leany (PKG)

## ANNEXURE - e

## Construction of Warden Residence = 80 Sqm

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to P/ 2012
<b>1</b>	<b>Building Portion : R.C.C. Framed structure with floor height of 3.15 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 2.90 m (1140 + 80 = 1220Sqm)	80	14500.00	Sqm	1160000	1.1.2(B)
<b>2</b>	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 2.90 m. {(3.15 - 2.90) / 0.3} * 270 = 225	80	225.00	Sqm	18,000	1.2.3
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	80	270.00	Sqm	21600	2.5.3
2.3	Resisting Earthquake forces.	80	1140.00	Sqm	91,200	1.2.8
<b>3</b>	<b>Add for:</b>					
3.1	Using vitrified tiles instead of mosaic flooring (Total area = 80 sqm)	80	894.00	Sqm	71520	Difference of items rate in D 2012 at 11.41.2 11.9.6
3.2	Using ceramic glazed tile flooring instead of mosaic cast-in-situ in Lavatory block (8 sqm)	8	292.25	Sqm	2338	Difference of items rate in D 2012 at 11.38 11.9.3
				<b>Total</b>	<b>1,364,658.00</b>	<b>(A)</b>
<b>3</b>	<b>Building Cost:</b> (to be used for Services items on % basis)				1,160,000	same as at 1.
<b>4</b>	<b>Services</b>					
4.1	Internal water supply and sanitary installations	1160000	12%	100	139,200	3.1
4.2	External service connections	1160000	5%	100	58,000	3.2
4.3	Internal Electrical Installations	1160000	12.5%	100	145,000	3.3
<b>5</b>	<b>Extras for:</b>					
5.1	Power wiring and plugs	1160000	4%	100	46,400	3.6.1
5.2	Lightning conductors Upto 4 storeyed building	1160000	0.5%	100	5,800	3.6.3.1
5.3	Computer conduiting	1160000	0.5%	100	5,800	3.6.4
				<b>Total</b>	<b>400,200</b>	<b>(B)</b>
				<b>Total cost (A) + (B)</b>	<b>1764858</b>	

Leamy / Pk Gany

## ANNEXURE - f

Construction of Principal Qtr = 130 Sqm

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to P. 2012
1	<b>Building Portion : R.C.C. Framed structure with floor height of 3.15 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 2.90 m (1140 + 80 = 1220Sqm)	130	14500.00	Sqm	1885000	1.1.2(B)
2	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 2.90 m. {(3.15 - 2.90) / 0.3} * 270 = 225	130	225.00	Sqm	29,250	1.2.3
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	130	270.00	Sqm	35100	2.5.3
2.3	Resisting Earthquake forces.	130	1140.00	Sqm	148,200	1.2.8
3	<b>Add for:</b>					
3.1	Using vitrified tiles instead of mosaic flooring (Total area = 80 sqm)	119	894.00	Sqm	106386	Difference of items rate in D. 2012 at 11.41.2 11.9.6
3.2	Using ceramic glazed tile flooring instead of mosaic cast-in-situ in Lavatory block (8 sqm)	11	292.25	Sqm	3215	Difference of items rate in D. 2012 at 11.38 11.9.3
				<b>Total</b>	<b>2,207,151.00</b>	<b>(A)</b>
3	<b>Building Cost:</b> (to be used for Services items on % basis)				1,885,000	same as at 1.
4	<b>Services</b>					
4.1	Internal water supply and sanitary installations	1885000	12%	100	226,200	3.1
4.2	External service connections	1885000	5%	100	94,250	3.2
4.3	Internal Electrical Installations	1885000	12.5%	100	235,625	3.3
5	<b>Extras for:</b>					
5.1	Power wiring and plugs	1885000	4%	100	75,400	3.6.1
5.2	Lightning conductors Upto 4 storeyed building	1885000	0.5%	100	9,425	3.6.3.1
5.3	Computer conduiting	1885000	0.5%	100	9,425	3.6.4
				<b>Total</b>	<b>650,325</b>	<b>(B)</b>
				<b>Total cost (A) + (B)</b>	<b>2,857,476.00</b>	

*Leant (PK Leant)*

## ANNEXURE - g

Construction of Type III Qtrs. (G+1) 2Block - 15 No. + 1 (Guset House) = 1200 Sqm + 80 Sqm = 1280 Sqm

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to PA 2012
1	<b>Building Portion : R.C.C. Framed structure with floor height of 3.15 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 2.90 m	1280	14500	Sqm	18560000	1.1.2(B)
2	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 2.90 m. {(3.15 - 2.90) / 0.3} * 270 = 225	1280	225	Sqm	288,000	1.2.3
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	640	270	Sqm	172,800	2.5.3
2.3	Resisting Earthquake forces.	1280	1140	Sqm	1,459,200	1.2.8
3	<b>Add for:</b>					
3.1	Using vitrified tiles instead of mosaic flooring (Total area = 80 sqm)	907	894.00	Sqm	810858	Difference of items rate in D: 2012 at 11.41.2 11.9.6
3.2	Using ceramic glazed tile flooring instead of mosaic cast-in-situ in Lavatory block (8 sqm)	245	292.25	Sqm	71601	Difference of items rate in D: 2012 at 11.38 11.9.3
				<b>Total</b>	<b>21,362,459</b>	<b>(A)</b>
3	<b>Building Cost:</b> (to be used for Services items on % basis)				18,560,000	same as at 1.:
4	<b>Services:</b>					
4.1	Internal water supply and sanitary installations	18560000	12%	100	2,227,200	3.1
4.2	External service connections	18560000	5%	100	928,000	3.2
4.3	Internal Electrical Installations	18560000	12.5%	100	2,320,000	3.3
5	<b>Extras for:</b>					
5.1	Power wiring and plugs	18560000	4%	100	742,400	3.6.1
5.2	Lightning conductors Upto 4 storeyed building	18560000	0.5%	100	92,800	3.6.3.1
5.3	Telephone Conduits	18560000	0.5%	100	92,800	3.6.4
				<b>Total</b>	<b>6,403,200</b>	<b>(B)</b>
				<b>Total cost (A) + (B)</b>	<b>27,765,659</b>	

Leant (PK Gang)

## ANNEXURE - h

Construction of Type II Qtrs (G+2) 1 Block- 10 No. = 700 Sqm

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to PA 2012
1	<b>Building Portion : R.C.C. Framed structure with floor height of 3.15 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 2.90 m	700	14500	Sqm	10150000	1.1.2(B)
2	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 2.90 m. {(3.15 - 2.90) / 0.3} * 270 = 225	700	225	Sqm	157,500	1.2.3
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	280	270	Sqm	75,600	2.5.3
2.3	Resisting Earthquake forces.	700	1140	Sqm	798,000	1.2.8
3	<b>Add for:</b>					
3.1	Using vitrified tiles instead of mosaic flooring (Total area = 80 sqm)	510	894.00	Sqm	455940	Difference of items rate in D: 2012 at 11.41.2 11.9.6
3.2	Using ceramic glazed tile flooring instead of mosaic cast-in-situ in Lavatory block (8 sqm)	120	292.25	Sqm	35070	Difference of items rate in D: 2012 at 11.38 11.9.3
				<b>Total</b>	<b>11,672,110</b>	<b>(A)</b>
3	<b>Building Cost:</b> (to be used for Services items on % basis)				10,150,000	same as at 1.1.
4	<b>Services:</b>					
4.1	Internal water supply and sanitary installations	10150000	12%	100	1,218,000	3.1
4.2	External service connections	10150000	5%	100	507,500	3.2
4.3	Internal Electrical Installations	10150000	12.5%	100	1,268,750	3.3
5	<b>Extras for:</b>					
5.1	Power wiring and plugs	10150000	4%	100	406,000	3.6.1
5.2	Lightning conductors Upto 4 storeyed building	10150000	0.5%	100	50,750	3.6.3.1
5.3	Telephone Conduits	10150000	0.5%	100	50,750	3.6.4
				<b>Total</b>	<b>3,501,750</b>	<b>(B)</b>
				<b>Total cost (A) + (B)</b>	<b>15,173,860</b>	

*Leony (Pk Gany)*

**ANNEXURE - i**

**Construction of 1 No. Kitchen & Dining with Plinth Area = 550 Sqm**

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to PAR 20:
<b>1</b>	<b>Building Portion : R.C.C. Framed structure with floor height of 3.45 metre</b>					
1.1	R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V)					1.0(B)
1.2	R.C.C. Framed Structure upto six storeys with floor height 2.90 m	550	15000	Sqm	8250000	1.1.2(B)
<b>2</b>	<b>Extras for:</b>					
2.1	Every 0.30 m additional height of floor above normal floor height of 2.90 m. {(3.30 - 2.90) / 0.3} * 270 = 360	550	360	Sqm	198000	1.2.3
2.2	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	550	270	Sqm	148500	2.5.3
2.3	Resisting Earthquake forces.	550	1140	Sqm	627,000	1.2.8
<b>3</b>	<b>Add for:</b>					
3.1	Using Kota stone flooring instead of mosaic cast-in-situ in Dining room (300 sqm) and internal circulation area (40 sqm) (Total area = 340 sqm)	340	465.05	Sqm	158117	Difference of items ra in DSR 2012 at 11.26 & 11.9.3
3.2	Mirror polishing on kota stone flooring in Dining room (300 sqm) and internal circulation area (40 sqm) (Total area = 340 sqm)	340	163.10	Sqm	55454	Rate as per DSR 2012 item no. 8.6
				<b>Total</b>	<b>9,437,071</b>	<b>(A)</b>
<b>3</b>	<b>Building Cost:</b> (to be used for Services items on % basis)				8,250,000	same as at 1.2
<b>4</b>	<b>Services</b>					
4.1	Internal water supply and sanitary installations	8250000	10%	100	825,000	3.1
4.2	External service connections	8250000	5%	100	412,500	3.2
4.3	Internal Electrical Installations	8250000	12.5%	100	1,031,250	3.3
<b>5</b>	<b>Extras for:</b>					
5.1	Power wiring and plugs	8250000	4%	100	330,000	3.6.1
5.2	Lightning conductors Upto 4 storeyed building	8250000	0.5%	100	41,250	3.6.3.1
5.3	Telephone Conduits	8250000	0.5%	100	41,250	3.6.4
				<b>Total</b>	<b>2,681,250</b>	<b>(B)</b>
				<b>Total cost (A) + (B)</b>	<b>12118321</b>	

*Leant (Pk Camp)*

## ANNEXURE - j

## Construction of Substation (53 sqm), Pump room (22 sqm) and Sentry Post (5 sqm)

S. No.	Description of Item	Quantity	Rate	Unit	Amount	Reference to PAR 2012
1	Building Portion : R.C.C. Framed Structure (Normal Buildings) (Specifications as per Annexure-V) with floor height of 4.25m (for Substation) and 3.15m (for Pump Room & Sentry Post)					
1.1	RCC framed structure upto six storeys with floor height 2.90 mtr.	80	14500	Sqm	1,160,000	1.1.2(B)
2	Extras for					
2.1	Every 0.30m additional height of floor above normal floor height of 2.90m. {(4.25-2.90) / 0.3} x 270 = 1215 ( Sub Station	53	1215	Sqm	64,395	1.2.3
2.2	Every 0.3m additional height of floor above normal floor height of 2.90m. {(3.15-2.90) / 0.3} x 270 = 405 ( Pump Room & Sentry Room)	27	225	Sqm	6,075	1.2.3
2.3	Every 0.30 m deeper foundations over normal depth of 1.20 m. (On G. F. area only) (1.50 m - 1.20 m = 0.30 m)	80	270	Sqm	21600	2.5.3
					<b>Total</b>	<b>1,230,470.00</b>
						<b>(A)</b>
3	Building Cost: (to be used for Services items on % basis)				1160000	same as at 1.2
4	Services					
4.1	Internal water supply and sanitary installations for Pump Room	319000	4%	100	12760	3.1
4.2	External service connections	1160000	5%	100	58000	3.2
4.3	Internal Electrical Installations	1160000	12.5%	100	145000	3.3
4.4	Power wiring and plugs for Pump Room Only	1160000	4%	100	46400	3.6.1
					<b>Total</b>	<b>262160</b>
					<b>Total cost (A) + (B)</b>	<b>1492630</b>

Leamy (Rgmg)



## ANNEXURE - k

## Compound Wall

S. No.	Description of Item	Qty	Rate	Unit	Amount (in Rs.)	Reference
3	Compound Wall					
3.1	Compound Wall	1200	9802	Job	11762400	MR/DPAR
				<b>Total</b>	<b>11762400</b>	
<b>Analysis of Rate for Compound wall</b>						
1	Boundary Wall with 1.5 metre. Normal height from GL & 0.60 meter high MS grill and/or concertina coil with Y shaped M.S, angle, and required no. of steel gates /wicket gates etc.					
1.1	With load bearing brick wall and plastering on either side and with / without intermediate columns and plinth beams.	1200	9000	Mtr	10,800,000	MR
1.1.1	Add extra for 0.30 m extra height of compound wall over normal height of 1.50 m.	83	7590.45	Cum	630,007	DAR 2019 item 6.4.2/ MR
1.1.2	Add extra for 12mm thick cement plaster 1:4 (1 cement: 4 coarse sand)	360	276.15	Sqm	99,414	DAR 2019 item 13.4.1/ MR
1.1.3	Add extra for 15mm thick cement plaster 1:4 (1 cement: 4 coarse sand)	360	318.95	Sqm	114,822	DAR 2019 item 13.5.1/ MR
1.1.4	Add extra for finishing walls with Acrylic Smooth exterior paint.	720	164.70	Sqm	118,584	DAR 2019 item 13.46.1/ MR
		1200 Mt Compound Wall			11,762,827	
		Cost of 1mt length of compound			9,802	

Hence rate for 0.30 m extra height of compound wall over normal height of 1.50 m

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## ANNEXURE - III

SITE: EMRS - Location, Block/ Mandal, District & State					
Sl. No	Features	Dimension approved per EMRS	Provided in MLP (Y/N)	Remarks /Deviation if any from Standard of EMRS	Remarks of NESTS for compliance
1	Whether EMRS sanctioned by NESTS			Sanction Order No --	
2	Land Area, Survey No/Khata No/Plot No , Village/Block/Dist,	15 Acres			
3	Location Details indicating nearest public road, bus station, Hospitals, Transmission lines ,other prominent landmarks,etc	Location Map of EMRS & nearest distance from bus stop			
4	Contour Map provided				
5	School Buildings (G+1)	2580 Sqmt			
6	Boys' Hostel(G+1)	2280 Sqmt			
7	Girls' Hostels(G+1)	2280 Sqmt			
8	Warden Residence ( Boys' Hostel)	80 Sqmt			
9	Warden Residence ( Girls' Hostel)	80 Sqmt			
10	Kitchen & Dinning	550 Sqmt			
11	Principal Quarter	130 Sqmt			
12	Type III Quarters(G+1)- 15 Nos Qtrs	1200 Sqmt			
13	Type II Quarters (G+2) - 10 Nos Qtrs	700 Sqmt			
14	Guest House	80 Sqmt			
<b>SPORTS FACILITIES</b>					
15	Play Ground	190 x 110 mts x mts ( having 400 / 200 mt track)			
16	Kho Kho 2 Nos	40 x 30(mts x mts) Separate or may be played at Volley Ball Court			
17	Basketball Court -Sepearte for B & G	40 x 30 ( mt x mt)			
18	Volley Ball Court -Sepearte for B & G	40 x 30 ( mt x mt)			
19	Archery Ground - 1 Nos	2500 Sqmt			
<b>DRINKING WATER</b>					
20	Sump - 1 Lakh Ltrs Capacity	80 Sqmt			
21	Deep Boring	2 Nos			
22	Overhead Tank	To be provided on the terrace of each buildings, water can be pumped from sump directly.			
23	Pump Room	Over UG tank or sump			
<b>GREEN FEATURES</b>					
24	Surface Drain including culvert & Storm Water Drain	Length as per actuals		Length to be indicated	
25	External Sewrage system	Length as per actuals		Length to be indicated	
26	Septic Tank/ Composite pits	As per Site Condition			
27	Rain Water Harvesting	As per Site Topography			
<b>Horticulture/Landscaping</b>					
28	Plantation	As per Site Topography & availability of land			
29	Landscapping	Same as above			
<b>Others</b>					
30	Boundary Wall 2.6 mt Height, 1.8 Machinery work and 0.8 fencing	Length as per actuals. Indicative length should be mentioned		Length to be indicated	

31	Entry Gate with Security Room ( Preferrably 2 gates -one near to school building and other to residential areas	1			
32	Flag Hoisting Stage With Assemply ground	1			
33	Electric substation	1			
34	Internal Roads	1. CC Road 5.5 metre in front of school buildings and other area CC Roads of 3.5 metre with one metre shoulder either side in other area 2. Length as per actuals and shall be economically provided		Length to be indicated	
35	Internal pathways	1.5 mt/ .00 mt wide precast CC interlocking paver blocks with one metre shoulder either side.		Length to be indicated	
36	Levelling if any ( Approximate Cost involved to be indicated)	As per site Requirement			
37	Retailing Wall if any ( ( Approximate Cost involved to be indicated)				
38	Whether Sutable approach road to school available				
39	<p>Note:- NESTS approved architectural plan, Elevation &amp; section of School , Hostels with Warden Residence, Principal Quarter, Type III &amp; Type II Quarters, Guest House to be followed. 2.In case of special plan for buildings due to site constraint, the architectural plans of the buildings are also to be submitted</p>				

ANNEXURE-AGENERAL SPECIFICATIONS OF EMRS BUILDINGSGeneral on MLP: -

- **Layout of Building:** All the building units shall be planned judiciously according to contours to minimise excess cutting and filling. The location of buildings shall be placed in such a way that internal road lengths shall be minimum.
- **Facing of Building:** Building shall be planned preferably facing North or East.
- **Kitchen and Dining** shall be planned preferably in between the Boys and Girls Hostels.
- **Archery Ground** shall preferably be aligned with face sighting towards North.
- **Pump Room** shall be centrally located in the campus. In case of hilly region, contours of the site should also be paid attention to take the benefit of flow of water under gravity & to minimise the pumping head.
- **Septic tank** shall be in the lower contour area near the building. The top level of septic tank shall preferably be 1.5 metre below the plinth level of the respective building, so that, due gradient can be maintained in laying the sewer pipe. Septic tank shall be of RCC with size designed as per IS 2470 taking users as 200 nos & retention period as 2 years. Tentative size may be taken as 9.0 (L) x 2.70 (B) x 2.10 m (av.) (H) for the 1<sup>st</sup> Chamber & 4.50 (L) x 2.70 (B) x 1.70 m (H) for the 2<sup>nd</sup> Chamber both excluding free board.
- **Rain Water Harvesting (RWH) System** shall be near the Sump Well. Sump Well and RWH System shall not be in the vicinity of Septic tank and sewer chamber.
- **Internal Roads:** Level of CC Road at entry shall be raised by 150 mm w.r.t. the NGL at the entry gate and thereafter it will run in the campus 150 mm moderately or (av.) above the existing contour. Width of CC Road in front of School shall be 5.5 m and thereafter it will be 3.5 m.
- **Protection Work:** In case of construction in hilly region, due consideration should be given for safety of structures. If depth of cutting or filling is considerable then required protection measures in the form of retaining walls or stone pitching deemed necessary to be provided to maintain earth at its natural slope and avoid landslides during rains. If depth of cutting is moderate, stone pitching or random rubble masonry retaining wall may be provided as per site condition. When depth of cutting is more than 1.5 m suitable RCC retaining wall may be considered as per the site condition. Location and details of the same to be shown in the MLP.
- MLP shall be aligned as per contour indicating retaining walls, stone pitching, if any.
- **Sump & Pump:** Sump shall be provided for 50,000 litres capacity in Phase-I with a future provision of 50,000 Litres to be built in Phase-II. The Pump house shall be single and will be planned over the sump in Phase I only. Rectangular size

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Sump should be considered. Pump room with 12.0 Sqm floor area shall be single and will be planned over the sump in Phase I only.

- The MLP Checklist is enclosed for reference at **Annexure-I**

### General on Detailed Project Report (DPR)

#### ➤ **Structure of Buildings**

- All structural drawings shall be prepared as per the approved plans, elevations and section of buildings considering the overall functionality of buildings. No deviation in approved plan areas/ facility areas shall be permitted in any case.
- **Structural Members:** Size of structural member shall be taken as per the Architectural/structural requirement of the structure ensuring soundness and stability of RCC members.

#### ➤ Layout Planning & Foundation

- Plinth of the Building shall be 600 mm to 750 mm above the ground level of the road (Finished Road Level) in its front which will be decided depending upon the terrain. Level of the Septic tank shall also be paid attention to while deciding the plinth.
- Foundation of each building unit shall be as per structural requirement based on the soil investigation report. Soil investigation shall be based on at least one bore hole located at the tentative location of each building i.e. School building, Boys Hostel Building, Girls Hostel Building, Staff Qtrs area, etc.
- Toe Wall: For toe wall purpose in external walls there will be Brick Work below the plinth beam if depth of foundation is shallow. If depth is greater than 1.50 m, RCC notch will be provided below the plinth beam. The brickwork will start on a base course of 100 mm thick PCC 1:5:10 mix, laid generally at 0.90 meter below the plinth level of the building. Bottom two courses will be one and half brick thick then one brick thick upto underside of the plinth beam. In addition to external walls, such brickwork shall also be provided in alternate internal walls e.g., 50% of the internal walls to provide proper confinement of fillings in the plinth. In case of Hilly areas, preference to be given to use locally available hard stones/RR Masonry for foundation works and protection works. In case the depth of foundation is more than 1.5 metre, RCC notch may be more appropriate instead of brickwork.
- Waterproof bitumen painting above plinth beam: The Brick work above the plinth beam shall be started only after laying a coat of bitumen painting over the plinth beam.
- The locations where rock cutting etc. is unavoidable, the available stone recovered shall be utilized judiciously viz in foundations etc.

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- **Floor Height of Buildings: Ceiling height of Buildings shall be as follows;**
  - School building - 3.60 metre
  - Kitchen & Dinning - 3.45 metre
  - Hostel - 3.15 metre
  - Warden residence - 3.0 metre
  - Ramp Mumty height- 2.4 metre
  - Principal Quarter -3.00 metre
  - Type III & Type -II Quarter -3.00 metre
  
- **External Cladding of Buildings from Ground Level**
  - School Building: - Upto bottom of FF Level Beam Soffit( as per Drawings).
  - Hostels' Building – Upto Window Sill Level.
  - Dinning & Kitchen - Upto Window Sill Level.
  - Principal Quarter – Upto Plinth Level
  - Type III & Type II Quarter – Upto Plinth Level.
  
- **Terrace parapet** of School Building and Hostel shall have height of 1200 mm i/c 50 mm CC coping. For Kitchen & Dining & Warden Residence being inaccessible, it will be 600 mm.
  
- **Locally available Materials:** The climatic conditions and locally available building materials may be considered for design purpose of buildings.
  
- **Water Tank on Terrace:** Domestic water tank shall be provided over the toilet block on a slab at least 750 mm above the toilet block roof slab for school and hostel building and it will be supported on columns. Water tank for fire purpose shall be provided over one of the toilet blocks with arrangement similar to that of the domestic water tank. Placing of water tank shall be such that the overflow water of fire tank shall fed the domestic water supply tank. In kitchen, only domestic tanks shall be provided over the toilet.

In kitchen, one number domestic water tank shall be provided over the toilet blocks located near the utensil washing area at least 750 mm above the toilet block roof slab and shall be supported on brick columns.



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## School Building:

### 1. Facility area:

- Facility area of rooms, corridor and stairs shall be maintained same as per the standard drawing. Width of stair, corridor, ramp etc shall be maintained in full width without any restriction.
- Facility for Person with disabilities: The entire requirement like ramp, hand-rails, tactile flooring, toilets, signage etc. shall be provided to the infrastructure being constructed. They shall comply to the provisions as per guidelines issued for the person with disabilities.
- All the ramp floors will be provided with suitable anti-skid tiles with the provision of tactile tiles & handrails for person with disabilities.
- Width of Ramp shall be 1800 mm. Head Room anywhere shall not be less than 2.40 metre.
- Corridor Protection Railing of 1350 MM height with MS grill/railing in between the column as per approved drawings.
- Railing to front Ramp and internal stair case shall be outer 40 mm dia in SS 304 grade. The finished top height of the handrail shall be 950 mm.
- Rear Stair cases shall have no approach to terrace.

### 2. Doors and Windows:

- Entrance door of the building shall be provided with powder coated anodised aluminium glazed door with Floor Spring. Steel Collapsible Shutter will be provided additionally for safety purpose.
- All doors shall have T Iron frame 40 x 40 x 6mm.
- 35 mm thick Flush door shutters of the class rooms shall be in single leaf.
- Doors of Principal, Vice Principal and Staff Rooms, Toilet Main Doors shall be provided with hydraulic door closer. All the doors shall have rubber floor door stoppers. No floor door stopper to WC doors.
- Toilet doors shall be 35 mm thick factory-made machine pressed pre-laminated flush door shutters of exterior grade in toilet area.
- Class Room, Labs and Library shall have MS Glazed window and ventilator with plain glass panes and MS grills 12 mm square bars. The weight of window grill and MS window sections shall be considered @ 12 Kg/ Sqm of window area for estimate purpose. The Central 40% area of the windows shall be fixed and rest open able shutters on either side. There shall be fixed glazing above the window from lux-point of view. Bath room windows/ventilators shall be with frosted glass panes.
- External Windows in general will be of size 1950 (L) x 1500 (H) mm having top 300 mm portion fixed. The bottom portion shall be divided horizontally in three parts middle portion fixed and sides openable.

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- The corridor portion will have no windows except in administrative block Administrative Block Rooms like Principal Room, Vice Principal Room, Office, Staff Rooms; Recreation Room shall have windows of size 1950x1200 mm in the corridor. Other Rooms shall have ventilators in corridor of size equal to width of the external windows (1950 mm) and depth 600 mm. It will be placed opposite to external windows just below the floor beams (No separate lintels are required for ventilators). The top shall be divided in the same pattern provided in bottom

### 3. Flooring:

- Full body (homogeneous) Vitrified floor tile flooring with size not less than 600x600 mm shall be provided in Principal Room, Vice Principal Room and Staff Rooms.
- All other floors except WC area and ramp shall be with Kota Stone flooring as per the respective DSR item with marble strips (approximate @5% area) and skirting upto 100 mm height.
- Treads and risers of stair shall have Kota in single length.
- All the ramp floors will be provided with matt finish anti-skid vitrified tiles of size 300 x 300 mm with provision of tactile tiles.
- WC area shall be also be provided with anti-skid rectified ceramic floor tiles with size of 300 x 300 mm or more. The walls will have glazed ceramic tiles in dado upto 2100 mm height as per respective DSR items
- Working platforms in labs shall be provided with Granite top with nosing and dado upto 100 mm height.
- In toilet, oval shaped wash basin shall be provided on RCC platform finished with granite stone.

### 4. Finishing

- The external wall (excluding Brick Tile Cladding area) shall be plastered with 18 mm plaster as per respective DSR item and finished with 1 mm thick external white cement-based putty.
- The external surface including corridor walls shall be provided with premium acrylic water proof exterior grade with silicon additive paint.
- Inside Walls shall have 12/15 mm plaster and 6 mm in ceiling as applicable.
- Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper (ready-mix).
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.



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**Hostels:****1. Facility area:**

- Facility area of rooms, corridor, stairs etc shall be maintained same as per the standard drawing. Width of stair& corridor etc shall be maintained in full without any restriction.
- Handicapped toilet shall be provided at ground floor only.
- Electrical shaft and FHP shafts shall be provided as applicable.

**2. Doors & Windows:**

- Entrance door shall be provided with powder coated anodised aluminium glazed door with hydraulic door closures. Steel Collapsible door will be provided additionally for safety purpose.
- Frame of doors shall consist of T-iron frames 40 x 40 x 6 mm as per respective DSR item.
- Hostel will have 35 mm thick non decorative flush doors in single leaf including teak wood edge lipping (except Wash area) with rubber floor door stoppers and synthetic enamel paints on both sides. The door closer will be provided in the warden office.
- Wash Area & toilets shall have 35 mm thick factory-made machine pressed pre-laminated flush door shutters of exterior grade in single leaf
- Steel glazed windows and ventilator frame & shutters shall be factory made ISI marked with Z-section; etc with MS grills with 12 mm square bars 100-120 mm c/c. Window & ventilators except toilet portion shall be in plain glass panes. The Central 40% area of the windows shall be fixed and the rest with openable shutters on either side. Glazed window shutters shall open outside and the wire mesh shutters shall open inside. Toilet portion windows/ventilators shall be with frosted glass panes.
- The windows shall be fitted with the required fixtures like stays and fasteners.
- Railing to front Ramp and internal stair case stair shall be 40 mm dia in SS 304 grade. Finished railing height shall be 950 mm.

**3. Flooring:**

- Warden Room in Hostel shall be provided with Full body (homogeneous) Vitrified floor tile flooring with size 600x600 mm.
- Treads and risers of stair shall have Kota stone slab in single length.
- All other floors except WC area shall be in Kota Stone flooring with marble strips (approx.@5% area) and skirting upto 100 mm height. Treads and risers of stair shall have Kota in single length.
- WC area shall be also be provided with rectified ceramic anti-skid floor tiles of size 300 x 300 mm or more with glazed ceramic tiles in dado upto 2100 mm height (size of tiles as per respective DSR items).
- Flat back wall mounted Wash basins shall be provided.

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#### 4. Finishing

- External Finishing: The external wall (excluding Brick Tile Cladding area) shall be plastered with 18 mm plaster as per respective DSR Item and to be finished with premium acrylic smooth paints with silicon additives.
- Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper (ready-mix).
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.

#### Kitchen & Dining:

##### 1. Facility areas:

- Facility area of dining hall, kitchen, washing area, etc shall be maintained same as per the standard drawing.
- All the floors except WC area and ramp shall be in Polished Kota Stone flooring in the respective DSR items with marble strips (approx. @5% area) and skirting upto 100 mm height.
- Dining Hall shall be provided with 1200 mm height ceramic glazed wall tiles. In Kitchen Hall, wash area and utensil area shall have glazed wall tiles upto 2100 mm height.
- WC area shall be provided with anti-skid rectified ceramic floor tiles of size 300x300 mm or more and wall with glazed ceramic tiles upto 2100 mm as per respective DSR items.
- Kitchen platform, pantry shall be provided with pre-polished Kota stone topping with proper nosing.
- For hand washing, oval shaped wash basin shall be provided on RCC platform finished with granite stone.
- Floor of utensil washing area shall have anti-skid vitrified tiles of size not less than 300x300 mm. For washing of utensils, granite stone trough in full length along the counter of width 450 and depth 450 mm will be provided.
- Kitchen courtyard: Kota Stone flooring shall be provided as per the respective DSR item.
- Railing to Ramp at the entrance shall be of 950 mm height having 40 mm dia SS pipe handrail.
- Peripheral wall of the Kitchen Courtyard shall be of 1200 mm height with wicket gate.

##### 2. Doors & Windows

- Powder coated aluminium door shutters at entry of the Dining Hall shall be in two leaves.

  
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- Other doors of Kitchen and Dining will have 35 mm thick non decorative flush doors in single leaf with teak wood edge lipping all-round (except Wash area) with rubber floor door stoppers and synthetic enamel paints on both sides.
- Wash Area & toilets shall have 35 mm thick factory pressed Laminated flush doors shutter in exterior grade.
- Steel glazed/gauzed windows and ventilator frame & shutters shall be factory made ISI marked with Z-section, etc with MS grills with 12 mm square bars. Height of window shall generally be 1800 mm (Sill level being 750 mm) except Kitchen window on Courtyard side which will be 1650 mm. Top 600 mm height will be fixed and bottom horizontally divided into three parts middle one fixed and sides openable. Window & ventilators except toilet portion shall be in plain glass panes. The Central 40% area of the windows shall be fixed and the rest with openable shutters on either side. The glazed window shutters shall open outside and the wire mesh shutters shall open inside. Toilet portion windows/ventilators shall be with frosted glass panes. The windows shall be fitted with the required fixtures like stays and fasteners.
- Railing to Ramp at the entrance shall be of 950 mm height provided with 40 mm dia SS 304 grade.

### 3. Finishing

- External Finishing: The external facia (excluding Brick Tile Cladding area) shall be plastered with 18 mm plaster as per respective DSR item.
- The external surface shall be provided with premium acrylic water proof exterior grade paint. The external surface including courtyard walls shall be provided with premium acrylic water proof exterior grade with silicon additive paint.
- Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper (ready-mix).
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.

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## Principal Quarter

### 1. Doors & Windows:

- Frame of doors shall consist of T-iron frames 40 x 40 x 6 mm as per respective DSR item.
- 35 mm thick flush doors including teak wood edge lipping except Wash area in single leaf with rubber floor door stoppers and synthetic enamel paints on both sides.
- Toilets shall have 35 mm factory made machine pressed pre-laminated flush door shutters of exterior grade in single leaf
- Steel glazed/gauzed windows and ventilator frame & shutters shall be factory made ISI marked with Z-section and MS grills 12 mm square bars. The rooms shall also be provided with stainless steel wire (for mosquito) mesh steel shutters fixed in the steel frame. The glazed window shutters shall open outside and the wire mesh shutters shall open inside. Toilet portion windows/ventilators shall be with frosted glass panes. The windows shall be fitted with the required fixtures like stays and fasteners.

### 2. Flooring:

- All Room except kitchen shall be provided with Vitrified Tiles of size 600x600 mm.
- Treads and risers of stair shall have Kota stone slab in single length.
- WC area and kitchen including utility shall also be provided with rectified glazed ceramic anti-skid floor tiles of size not less than 300 x 300 mm and 1st Class Ceramic glazed Wall tiles in dado upto 2100 mm height
- The Kitchen platform shall be with Granite Stone fixed over RCC slab.
- Flat back wall mounted Wash basins shall be provided.

### 3. Finishing

- External Finishing: The external face with 18 mm plaster as per respective DSR item and to be finished with premium acrylic water proof exterior grade with silicon additive paint.
- Internal Finishing: First quality acrylic distemper (ready-mix).
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.

## Warden – Residences, Type III Quarter & Type II Quarter

### 1. Doors & Windows:

- Frame of doors shall consist of T-iron frames 40 x 40 x 6 mm as per respective DSR item.
- 35 mm thick flush doors including teak wood edge lipping except Wash area in with rubber floor door stoppers and synthetic enamel paints on both sides.
- Toilets shall have 35 mm factory made machine pressed pre-laminated flush door shutters of exterior grade in single leaf

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- Steel glazed/gauzed windows and ventilator frame & shutters shall be factory made ISI marked with Z-section and MS grills 12 mm square bars. The rooms shall also be provided with stainless steel wire (for mosquito) mesh steel shutters fixed in the steel frame. The glazed window shutters shall open outside and the wire mesh shutters shall open inside. Toilet portion windows/ventilators shall be with frosted glass panes. The windows shall be fitted with the required fixtures like stays and fasteners.

## 2. Flooring:

- All Rooms except kitchen shall be provided with Vitrified Tiles of size 600x600 mm.
- Treads and risers of stair shall have Kota stone slab in single length.
- WC area, Kitchen and utility area shall also be provided with rectified glazed ceramic anti-skid floor tiles of size not less than 300 x 300 mm with glazed ceramic tiles in dado upto 2100 mm height and size of tiles not less than 200x300 mm.
- The Kitchen platform shall be with Polished Kota Stone Slab fixed over RCC slab.
- Flat back wall mounted Wash basins shall be provided.

## 3. Finishing

- External Finishing: The external face excluding Brick Tile Cladding shall be plastered with 18 mm and to be finished with premier acrylic water proof exterior grade with silicon additive paint.
- Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper (ready-mix).
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.

  
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(NARENDRA KUMAR)



(P.K.Agrawal), NESTS

  
CE(Civil), NESTS 03/03/2022

**SPECIFICATION : HOSTEL DORMITORY & RESIDENTIAL QUARTERS- Annexure-A-1**

SN	Item	Hostel Dormitory	Warden Residence/ Type III & Type II Quarters	Principial Quarters & Guest House.
1	Foundation & Structure	As per structural requirements based on soil investigation report. The design shall vary as per soil conditions.		
2	Superstructure			
	(a) Structure	RCC framed & Filler walls of Aerated Cement Concrete (ACC) / Cellular Concrete Block(CLC)/ Brick work/Fly-ash brick		
	(b) Internal Partition	Half brick thick masonry in ACC/CLC/Fly-ash Bricks		
	(c) Clear Ceiling height	3.15 Mt	3.00 Mts	
	(d) Plinth Height	Plinth height of School buildings shall be kept as 60 cm from the adjoining ground level/plinth protection level . Where plinth height becomes more then 60 cm special care shall be taken. If plinth height more than 1.20 mtrs., approval of the competent authority may be sought.		
3	DOORS & WINDOWS			
	(a) FRAME			
	(i) Door Frame	Providing and fixing T-iron frames of 40×40×6 mm with 15×3 mm lugs 10 cm long embedded in cement concrete block 15×10×10 cm of C.C. 1:3:6 (As per D.S.R.-2019 item no. 10.13.1)		
	(ii) Window Frame & Ventilators	Providing and fixing factory made ISI marked steel glazed window (partly fixed and/or partly side hung/top hung) and side hung wire gauzed windows shutters with Z- section, window grills fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15×10×10 cm of C.C. 1:3:6 (As per D.S.R.-2019 item no. 10.11.1)		
	(b) Shutters			
	(i) Main Doors	i) Powder coated Aluminium Glazed Doors with fixed glazing on either side. ii) M.S. collapsible steel shutters (for safety measure) to main entrance lounge at GF.	(i) Factory made Machine pressed pre-laminated flush door exterior grade with teak wood lipping on edges. The lamination sheet used shall be decorative high pressure of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S. The door shall be fixed to T Iron frame with SS Hinges. (ii) Safety door MS tubular box section styles and rails frame i/c stainless steel Mosquito Proof Jali.	
	(ii) Other Doors	Single shutters with 35 mm thick factory made exterior grade Non- Decorative type flush door shutter with teak wood lipping on edges & finished with one coat of wood primer followed by two or more coat of synthetic enamel paints. (As per D.S.R.- item no. 9.21.1 & 9.23 for flush door)		
	(iii) Bath, WC, Toilets Doors	Factory made Machine pressed pre-laminated flush door exterior grade with teak wood lipping on edges. The lamination sheet used shall be decorative high pressure of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S. The door shall be fixed to T Iron frame with SS Hinges.		
	(iv) Windows & Ventilators	Z- Section Double shutter one with frosted glass panes and other with stainless steel wire mesh shutter. All windows and ventilator shall be provided with 12 mm square guard bars at 10 to 12 cms. C/C spacing		
	(c) Hardware & Fittings	Powder coated/anodized Aluminum/ SS fittings		
4	FLOORING			
	(i) Living/Drawing Room, Bed Rooms, Dining & Family Lounge with matching grouting of joints	All flooring Kota stone combination with marble strip except WC/toilets area with matching grouting of joints	600 mm x 600 mm Vitrified Tile Flooring laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete.	600 mm x 600 mm Vitrified Tile Flooring laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete.

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	(ii) Kitchen		Anti skid Ceramic/ vitrified tiles of size not less than 300 mm × 300 mm with water absorption less than 0.08% laid with 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.	Anti skid vitrified tiles of size not less than 400 min × 400 mm with water absorption less than 0.08% laid with 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.
	(iii) Common circulation area	Kota stone slab flooring with marble strips (upto 50mm width) in required pattern including rubbing and polishing complete	NA	NA
	(iv) Staircase	Kota stone in single length up to 1.05 metre of treads & risers.		
	(v) Toilets / Bathroom	Glazed ceramic anti-skid of size not less than 300×300 mm with matching grouting of joints.		
	<b>Dado &amp; Skirting</b>			
	(i) Skirting in rooms and other areas.	100 to 150 mm height skirting matching with floor materials		
	(ii) Kitchen Platform/ Dado	NA	(i) Platform- Kota Stone (ii) Dado over platform-Ist Quality Ceramic Glazed wall tiles of approved sizes from floor up to 1500 height from floor level	(i) Platform- Granite (ii) Dado over platform-Ist Quality Ceramic Glazed wall tiles of approved sizes from floor up to 1500 height from floor level
	(iii) Toilets/bathrooms/ WC Dado	Ceramic Glazed tiles of size not less than 200 × 300 mm up to 2.10 metre height	Ist Quality Ceramic Glazed wall tiles of approved sizes from floor up to 2.1 metre height	Ist Quality Ceramic Glazed wall tiles of approved sizes from floor up to 2.1 metre height
5	<b>FINISHES</b>			
a)	Internal Walls	(i) All walls to be painted with low VOC Acrylic washable distemper. (ii) Synthetic enamel paint on all wood works and steel works	(i) All walls to be painted with low VOC Acrylic washable distemper. (ii) Synthetic enamel paint on all wood works and steel works.	(i) All walls to be painted with low VOC Acrylic washable distemper. (ii) Synthetic enamel paint on all wood works and steel works
b)	External Walls	Synthetic enamel paint on all wood work & steel work. Premium Acrylic Smooth exterior paint with Silicone additives or its equivalent		
6	Hand Rail	Stair Case Railing -SS	Stair Case Railing -MS	NA
7	Roof	RCC Slab brick with Koba treatment (Item No. 22.7.1 of DSR-19).		
8	Toilets for Physically disabled person	One each for boys and girls (specification as per NBC)	NA	NA
9	Overhead Water Tank(OHT)	8000 Litres on over each toilet block	500 Litres per Quarter	1000 Litre

Leany (RKG)

**SPECIFICATION : SCHOOL BUILDING & KITCHEN & DINING - Annexure- A-2**

SN	Item	School Building	Kitchen & Dining
1	Foundation & Structure	As per structural requirements based on soil investigation report. The design shall vary as per soil conditions.	
2	Superstructure		
	(a) Structure	RCC framed & Filler walls of Aerated Cement Concrete (ACC) / Cellular Concrete Block(CLC)/ Brick work/Fly-ash brick	
	(b) Internal Partition	Half brick thick masonry in ACC/CLC/Fly-ash Bricks	
	(c) Ceiling height (Clear)	3.60 Mts.	3.45 Mts
	(d) Plinth Height	Plinth height of all the buildings shall be kept as 70 cm from the adjoining ground level/plinth protection level for other building it should be kept as 60 CmWhere plinth height becomes more then 60 cm special care shall be taken. In case plinth height more than 1.20 mtrs, approval of the competent authority may be sought.	
3	DOORS & WINDOWS		
	(a)FRAME		
	(i)Door Frame	Providing and fixing T-iron frames of 40×40×6 mm with 15×3 mm lugs 10 cm long embedded in cement concrete block 15×10×10 cm of C.C. 1:3:6 (As per D.S.R.-2016 item no. 10.13.1)	
	(ii) Window Frame & Ventilators	Providing and fixing factory made ISI marked steel glazed windows (partly fixed and/or partly side hung/top hung) with z- section, window grills fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15×10×10 cm of C.C. 1:3:6 (As per D.S.R.-2019 item no. 10.11.1)	Providing and fixing factory made ISI marked steel glazed windows (partly fixed and/or partly side hung/top hung) and side hung wire gauzed windows shutter with z- section, window grills fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15×10×10 cm of C.C. 1:3:6 (As per D.S.R.-2019 item no. 10.11.1)
	(b) Shutters		
	(i) Main Doors	i) <b>Single shutters</b> with 35 mm thick factory made exterior grade Non- Decorative type flush door shutter with teak wood lipping on edges & finished with one coat of wood primer followed by two or more coat of synthetic enamel paints. (As per D.S.R. - item no. 9.21.1 & 9.23 for flush door). ii) M.S. collapsible steel shutters at main entrance (for safet measure) only	(i) Powder coated Aluminium Glazed Doors with fixed glazing on either side and on the top below floor beam (ii) M.S. collapsible steel shutters at main entrance (for safet measure) only
	(ii)Other Doors	Single shutters with 35 mm thick factory made exterior grade Non- Decorative type flush door shutter with teak wood lipping on edges & finished with one coat of wood primer followed by two or more coat of synthetic enamel paints. (As per D.S.R.-item no. 9.21.1 & 9.23 for flush door)	
	(iii) Bath, WC, Toilets Doors	Factory made Machine pressed pre-laminated flush door exterior grade with teak wood lipping on edges. The lamination sheet used shall be decorative high pressure of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S. The door shall be fixed to T-Iron frame with SS Hinges.	
	(iv) All Window/ventilator Shutter (except WC, Toilets, Baths)	Z-section single shutter with plain glass panes. windows and ventilator shall be provided with 12 mm square guard bars at 10 to 12 cms. C/C spacing.	Z- Section Double shutter one with frosted glass panes and other with stainless steel wire mesh shutter. All windows and ventilator shall be provided with 12 mm square guard bars at 10 to 12 cms. C/C spacing
	(v) Windows/ ventilators	Z-section single shutter with Frosted Glass	
	(c) Hardware & Fittings	Powder coated/anodized Aluminum/ SS fittings	
4	Flooring , Skirting, Dado, Counter/pantry, court yard		
	a) Flooring		
	(i) Main entrance hall, common circulation area.	Mirror polished Kota stone with marble strip	
	(ii)Other	Classroom - (Kota stone slab flooring with marble strips (upto 50mm width) in required pattern including rubbing and polishing complete)	Dining Hall & Kitchen Area - (Kota stone slab flooring with marble strips (upto 50mm width) in required pattern including rubbing and polishing complete)
	(iii)Toilet/WC/Bath (including common circulation area of toilet block)	Rectified Glazed ceramic anti-skid of size not less than 300×300 mm including grouting the joints.	Rectified Glazed ceramic anti-skid of size not less than 300×300 mm including grouting the joints.
	(iv) Staircase/steps	Kota stone in single length up to 1.05 metre of treads & risers.	Kota stone in single length up to 1.05 metre of treads & risers.
	(b) Skirting : In rooms and other area	100 to 150 mm height skirting matching with floor materials	100 to 150 mm height skirting matching with floor materials
	(c) Dado		

*Leamy (K.G. Goyal)*



	(i) In toilets/WCs/Baths (including common circulation area of toilet block)	Ist Quality Ceramic Glazed wall tiles of approved sizes from floor up to 2.1 metre height	Ist Quality Ceramic Glazed wall tiles of approved sizes from floor up to 2.1 metre height	
	d) Counter/ pantry/Diining	At Laboratory platform: Granite stone with nosing	Kota stone for kitcen and pantry platform.	
	d) Kitchen/Pantry	NA	Ist Quality Ceramic Glazed wall tiles of approved sizes from floor up to 2.1 metre height	
	e)Diining Area	NA	Ist Quality Ceramic Glazed wall tiles of approved sizes from floor up to 1.20 metre height	
	f) Open Court Yard	Flag Hoisiting /Central court yard of School Building:  (i)Top Course: 60 mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction etc. in required colour, pattern, 50 mm thick compacted bed of course sand etc.... (as per item no. 16.68, DSR-19) (ii) Based course: 7.50 cm thick CC (1:5:10). (iii) The top level of Court yard shall be 15 cm from formation level of School Building.	Kitchen back courtyard with Kota Stone Slab flooring and front Dinning courtyard with anti skid virtified tile 300 x 300 mm flooring	
5	ROOFING		Kitchen back side courtyard and Dinning Front Courtyard : Precoated GI profile sheet roofing	
6	FINISHING			
	(a) External	(i) Premium Acrylic Smooth exterior paint with Silicone additives or its equivalent (ii) Synthetic enamel paint on all wood work & steel work. (iii) 1 mm thick cement based putty on external face leaving CC tile cladding area.	Synthetic enamel paint on all wood work & steel work. Premium Acrylic Smooth exterior paint with Silicone additives or its equivalent	Synthetic enamel paint on all wood work & steel work. Premium Acrylic Smooth exterior paint with Silicone additives or its equivalent
	(b) Internal	(i) All walls & ceiling to be painted with low VOC Acrylic washable distemper. (ii) Synthetic enamel paint on all wood works and steel works.	(i) All walls & ceiling to be painted with low VOC Acrylic washable distemper. (ii) Synthetic enamel paint on all wood works and steel works	
8	Railing	(i) Stair Case & Ramp- SS 304 Grade (ii) Corridor in between Columns - 1350 mm height <u>MS grill/railing as per approved drawings</u>	(i) Stair Case & Ramp- SS 304 Grade	
9	Roof Water Treatment	Brick Coba Treatment as per DSR-19, item No. 22.7.1.		Brick Coba Treatment as per DSR-19, item No. 22.7.1.
10	Roof Water Tank	10,000 Litres over each toilet block for general use and 10,000 Litres for files in one toilet block only	10,000 Litres for general use over Wash/Toilet Area front side and 1000 litres over back side toilet	
11	Cooking platform	-	RCC as per design and drawings.	
12	Pantry	-	RCC as per design and drawings.	
13	Laboratories Counter/ platform	RCC as per design and drawings.	NA	NA
14	Ramp for Physically disable person	One no. (specification as per NBC)	One no. (specification as per NBC)	Two nos. (specification as per NBC)
15	Toilets for Physically disable person	One each for boys and girls (specification as per NBC)	-	-
16	Stair Case	Only Two Front Stair Case shall run upto mumty, The back Stair Case shall stop to FF Level	MS Ladder shall be provided to reach the roof for maintenance purpose	

Leant (PKG)

**Details scope & specification of Development works and Campus Boundary wall:Annexure- A-3**

**Development/external services work for EMRS/EMDBS Campus:-**

Sl. No.	Name of work	Details
1	Preparation of play fields:	
	(i) Playfield of Size 190mx110m for foot ball, cricket, hockey etc. including 400mtrs/200mtrs.- running track: 1 no. (Size may vary as per availability of land)	Leveling with good earth after filling/cutting of earth. The quantities of earth filling/cutting shall be worked out in detailed calculation basis as per initial level, contour plan. Finished level shall be 15 higher than the adjoining ground level so that water logging can be avoided.
	(ii) Basket Ball fields – 2 nos.	(a) Size-40mx30m: Leveling with good earth after filling/cutting of earth. The quantities of earth filling/cutting shall be worked out in detailed calculation basis as per initial level, contour plan. Finished level shall be 15 cm. higher than the adjoining ground level, so that, water logging can be avoided. (b) Size 30mx18m CC court with pole, board, basket etc. (i) Base concreting CC (1:5:10) of 7.50 cm thick (ii) Top course Concreting (M-20 grade designed mix) of 10 cm thick. (iii) Pole, board, Basket: As per SAI standard.
(iii) Khokho/ Volley Ball court: 2 nos. (Size-40mx30m for each)	Leveling with good earth after filling/cutting of earth. The quantities of earth filling/cutting shall be worked out in detailed calculation basis as per initial level, contour plan. Finished level shall be 30 cm. higher than the adjoining ground level, so that, water logging can be avoided.	
2	Internal roads, paths and culverts:	
	(i) Internal roads (Cement Concrete roads) :	(i) Width: Shall be 3.50 mtrs. + 1 mtrs. Shoulder/side berm of each side. (ii) Road shall be constructed up to the all building units. (iii) Base Course CC (1:5:10) of 10 cm thick. (iv) Top Course (M-20 grade designed mix) of 15 cm thick. (v) Finished/top level of the edge of the roads i.e. shoulder level shall be 15 cm. higher than the adjoining ground level.
	(ii) Pathways :	(i) 2.00 mtrs. width + 1 mtrs. shoulder/side berm each side of the pathways. (ii) Pathways shall be provided to connect the buildings/ permanent infrastructure to nearby internal roads. (iii) No pathways shall be provided on side of the roads. (iv) Top Course: 60 mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction etc. in required colour, pattern, 50 mm thick compacted bed of course sand etc.... (as per item no. 16.68, DSR-16) (v) Base course: 7.50 cm thick CC (1:5:10). (vi) Kerb stone on edge (50 mm thick, 250 mm height (for which shall be embedded underground): Factory Made kerb stone of M-25 grade cement concrete (as per item no. 16.69, DSR-16). (vii) Finished/top level of the edge of the paths shall be 15 cm. higher than the adjoining ground level.
	(iii) Culverts:	As per actual requirement.
3	External water supply:	
	(i) Tube/open well i/c 2 Nos. submersible pump 7.5 HP(preferably Solar Powered)& cabling etc. complete.	Shall be executed as per availability of underground water after examination by the local PHED or any other related Govt. agencies i.e. Central Ground Water Board, Local PHED etc. The yield of water source shall be 15000 LPH or more.
	(ii) Overhead Tank	Required in all building
	(iii) Under Ground Sump:	100000 ltr. capacity with 2 nos. centrifugal pumps including one standby.
	(iv) Pump house	(i) Maximum size-3.0mx3.00m, (ii) Plinth area-11.97 sqm. (iii) Floor height 2.90 mtrs. (iv) Building shall be RCC framed structure with slop roof and shall be executed over Under Ground Water Tank. (v) Flooring -CC (vi) Internal Painting- White Wash (vii) Door- Laminated Machine Pressed Flush Door (viii) Window - Steel Glazed Door
(v) Water filtration plant (if required)	Shall be executed if required, after conducting necessary water test through local PHED or any other related Govt. agencies.	

*Leant (P.K.G.)*

	(vi) GI/CI water supply distribution line	GI Pipes for intake from bore well and supply to OH Tanks, maximum dia -100/80 mm nominal size . Distribution line shall be designed as per the intake of the buildings. All pipes shall be CPVC only.
4	External Electrification:	
	(i) Substation building	(i) Plinth area-52.80 sqm. (ii) Floor height 4.25m (iii) Building shall RCC framed structure with slop roof. (iv) Flooring -CC (v) Internal Painting- White Wash (vi) Door- Laminated Machine Pressed Flush Door (viii) Windwow - Steel Glazed Door
	(ii) LT Panel	Fabricated from CPRI approved workshop.
	(ii) External wiring/cable connection using U.G. cables from sub-station to feederpillar, building & pump house and necessary connection from DG set to infrastructures.	200 KVA/ 250KVA sub-station depending on the location of the School. However capacity of sub-station may be confirmed after consultation with concern state electricity board.
5	External sewerage System:	
	(i) Septic Tank & Soak pit	(i) Proper planning shall be made before preparation of Preliminary estimate. (ii) Septic tank shall be designed as per the user and as per CPWD specification. (iii) Septic tank shall be RCC including walls as per IS dimension for 200v users for school, Girls Hostel and Boys' Hostel each (iv) Sufficient soak pit or dispersion channels shall be provided as per the soil condition.
	(ii) External sewerage line (RCC NP2 pipe)	Proper planning shall be made before preparation of Preliminary estimate.
6	5.0 H.P. Sewerage Pump	Air Cool, mounted on trolley with 10m. suction & 10m. del. Flexible pipe
7	25 KVA DG Set	(i) Including erection, installation, testing, commissioning etc. (ii) Essential connection to various building shall be provided as per latest NVS guideline/ order.
8	Retaining wall / Breast wall (if required)	Proper planning shall be made before preparation of Preliminary estimate.
9	Storm Water Drain	(i) Proper planning shall be made after examining the levels of the campus very carefully before preparation of Preliminary estimate. Rain water pipe collect from the buildings shall be connected with the campus storm water drain. (ii) Road side drain shall be avoided. (iii) Level of out fall drains of EMRS is always kept higher than the highest water level of Nallah/Natural drainage where water will be disposed off finally.
10	Rain water harvesting	Proper planning shall be made before preparation of Preliminary estimate.
<b>(B) Campus Boundary Wall including Main Gate and Chowkider Hut:</b>		
<b>Sl. No.</b>	<b>Name of work</b>	<b>Details</b>
1	Campus Boundary wall	(i) Boundary wall shall be 1.80 mtrs. height masonry wall + 0.8 mtrs. fencing with 600 mm dia. concertina coil over masonry wall. (ii) The total height of Boundary wall shall be 2.60 mtrs. (iii) The campus boundary wall shall be of RCC column, plinth beam, top band and filler wall in brick work.
2	Chowkider Hut/Sentry Booth	(i) Plinth area-5.11 sqm. (ii) Floor height 2.90m. (iii) Building shall RCC framed structure with slope roof. (iv) Other specification as per Annexure-V of PAR-19 for Type-I qtrs.
3	Main Gate - Depending upon layout two gates, one for school and other for residential area may be provided.	(i) Width & Height of Main Gate: As per NBC (ii) Wicket Gate: As per NBC

*Leany (PKG)*

**ANNEXURE - B****DRAWING TRANSMITTAL - STANDARD ARCHITECTURAL  
DRAWING****PROJECT TITTLE : PROPOSED CONSTRUCTION OF EKLAVYA  
MODEL RESIDENTIAL SCHOOLS(EMRS)  
AT BLOCK BHAGWANPURA, DISTT. KHARGONE(MP)**

<b>Sr. No.</b>	<b>Drawing No.</b>
1	EMRS NAME/SCH/AR_01
2	EMRS NAME/SCH/AR_02
3	EMRS NAME/SCH/AR_03
4	EMRS NAME/SCH/AR_04
5	EMRS NAME/SCH/AR_05
6	EMRS NAME/SCH/AD_06
7	EMRS NAME/BH/PHASE-1/AR_01
8	EMRS NAME/BH/PHASE-1/AR_02
9	EMRS NAME/BH/PHASE-1/AR_03
10	EMRS NAME/BH/PHASE-1/AR_04
11	EMRS NAME/GH/PHASE-1/AR_01
12	EMRS NAME/GH/PHASE-1/AR_02
13	EMRS NAME/GH/PHASE-1/AR_03
14	EMRS NAME/GH/PHASE-1/AR_04
15	EMRS NAME/BH/PHASE-2/AR_01
16	EMRS NAME/BH/PHASE-2/AR_02
17	EMRS NAME/BH/PHASE-2/AR_03
18	EMRS NAME/BH/PHASE-2/AR_04
19	EMRS NAME/GH/PHASE-2/AR_01
20	EMRS NAME/GH/PHASE-2/AR_02
21	EMRS NAME/GH/PHASE-2/AR_03
22	EMRS NAME/GH/PHASE-2/AR_04
23	EMRS NAME/K&D/AR_01
24	EMRS NAME/K&D/AR_02
25	EMRS NAME/K&D/AR_03
26	EMRS NAME/K&D/AR_04
27	EMRS NAME/WR/AR_01
28	EMRS NAME/TYPE-II/AR_01
29	EMRS NAME/TYPE-II/AR_02
30	EMRS NAME/TYPE-III/AR_01
31	EMRS NAME/TYPE-III/AR_02
32	EMRS NAME/PQ/AR_02



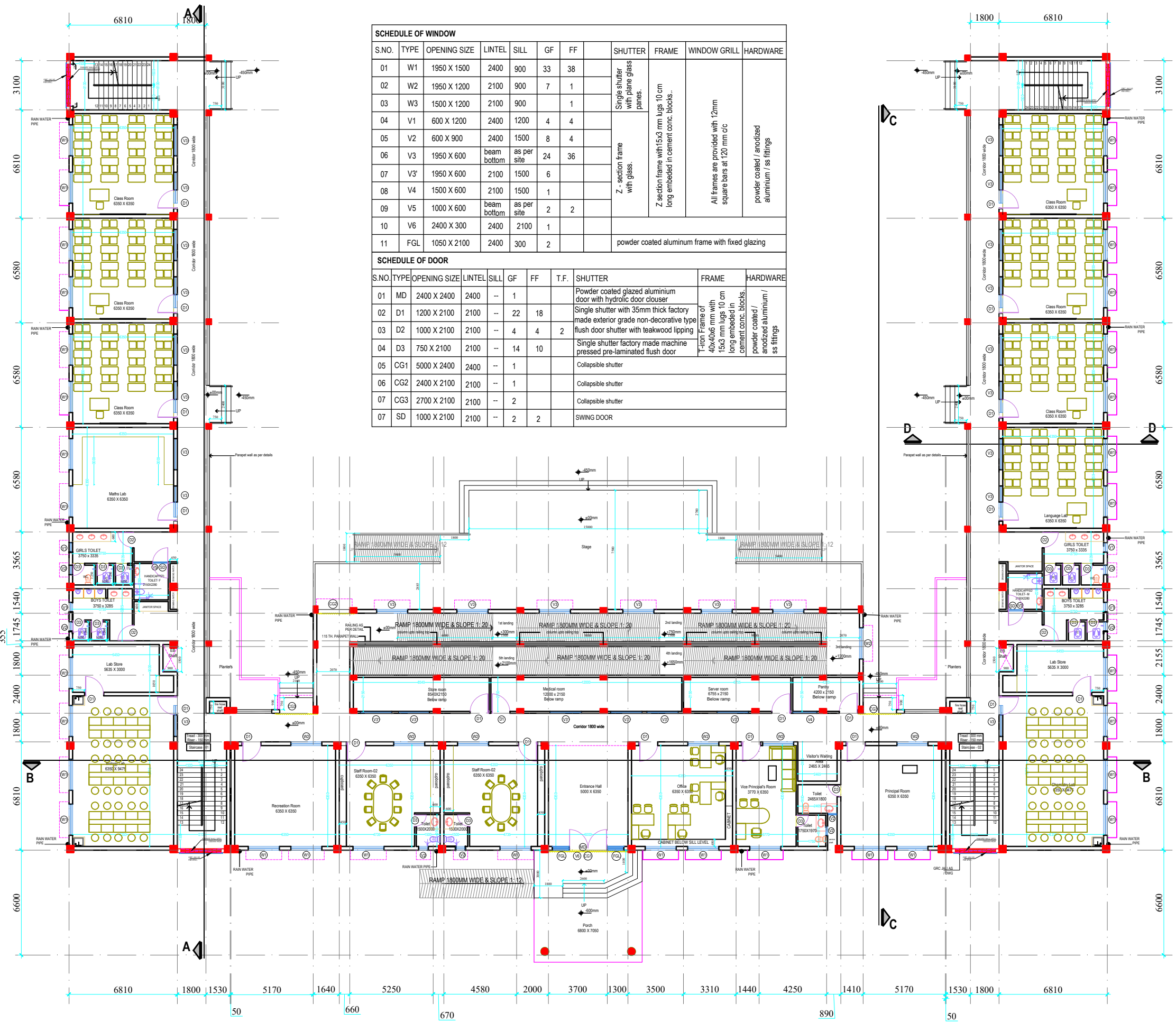
Notes-  
 Furniture in all the rooms except class rooms will be decided at later stage.

AREA STATEMENT		AREA (in Sqm)
SCHOOL BUILDING		
DETAILS		AREA (in Sqm)
<b>MAIN BUILDING</b>		
GROUND FLOOR PLINTH AREA		1380.72
FIRST FLOOR PLINTH AREA		1272.17
<b>TOTAL AREA</b>		<b>2652.89</b>
<b>ENTRANCE PORCH AREA</b>		
AREA OF PORCH / 2		23.97
<b>TOTAL COVERED AREA (RAMP AREA EXCLUDED)</b>		<b>2676.86</b>

SCHEDULE OF WINDOW										
S.NO.	TYPE	OPENING SIZE	LINTEL	SILL	GF	FF	SHUTTER	FRAME	WINDOW GRILL	HARDWARE
01	W1	1950 X 1500	2400	900	33	38	Single shutter with plane glass panes.  Z - section frame with glass.  Z section frame with 15x3 mm lugs 10 cm long embedded in cement conc. blocks...  All frames are provided with 12mm square bars at 120 mm CC  powder coated / anodized aluminium / ss fittings	Z section frame with 15x3 mm lugs 10 cm long embedded in cement conc. blocks...	All frames are provided with 12mm square bars at 120 mm CC	powder coated / anodized aluminium / ss fittings
02	W2	1950 X 1200	2100	900	7	1				
03	W3	1500 X 1200	2100	900		1				
04	V1	600 X 1200	2400	1200	4	4				
05	V2	600 X 900	2400	1500	8	4				
06	V3	1950 X 600	beam bottom	as per site	24	36				
07	V3'	1950 X 600	2100	1500	6					
08	V4	1500 X 600	2100	1500	1					
09	V5	1000 X 600	beam bottom	as per site	2	2				
10	V6	2400 X 300	2400	2100	1					
11	FGL	1050 X 2100	2400	300	2					

SCHEDULE OF DOOR										
S.NO.	TYPE	OPENING SIZE	LINTEL	SILL	GF	FF	T.F.	SHUTTER	FRAME	HARDWARE
01	MD	2400 X 2400	2400	--	1			Powder coated glazed aluminium door with hydraulic door closer		
02	D1	1200 X 2100	2100	--	22	18		Single shutter with 35mm thick factory made exterior grade non-decorative type flush door shutter with teakwood lipping	T-iron Frame of 40x40x6 mm with 15x3 mm lugs 10 cm long embedded in cement conc. blocks	powder coated / anodized aluminium / ss fittings
03	D2	1000 X 2100	2100	--	4	4	2	Single shutter factory made machine pressed pre-laminated flush door		
04	D3	750 X 2100	2100	--	14	10		Single shutter factory made machine pressed pre-laminated flush door		
05	CG1	5000 X 2400	2400	--	1			Collapsible shutter		
06	CG2	2400 X 2100	2100	--	1			Collapsible shutter		
07	CG3	2700 X 2100	2100	--	2			Collapsible shutter		
07	SD	1000 X 2100	2100	--	2	2		SWING DOOR		



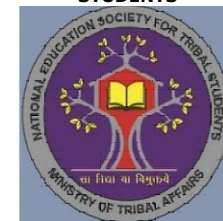
GROUND FLOOR PLAN

CATEGORY : SCHOOL BUILDING  
 DRAWING TITLE : GROUND FLOOR PLAN  
 DWG. NO.- EMRS NAME/SCH/AR\_01

*Palkesh*  
*pk Agrawal*  
*(N.KUMAR)*  
*Leany (PK Ganga)*  
*Reshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

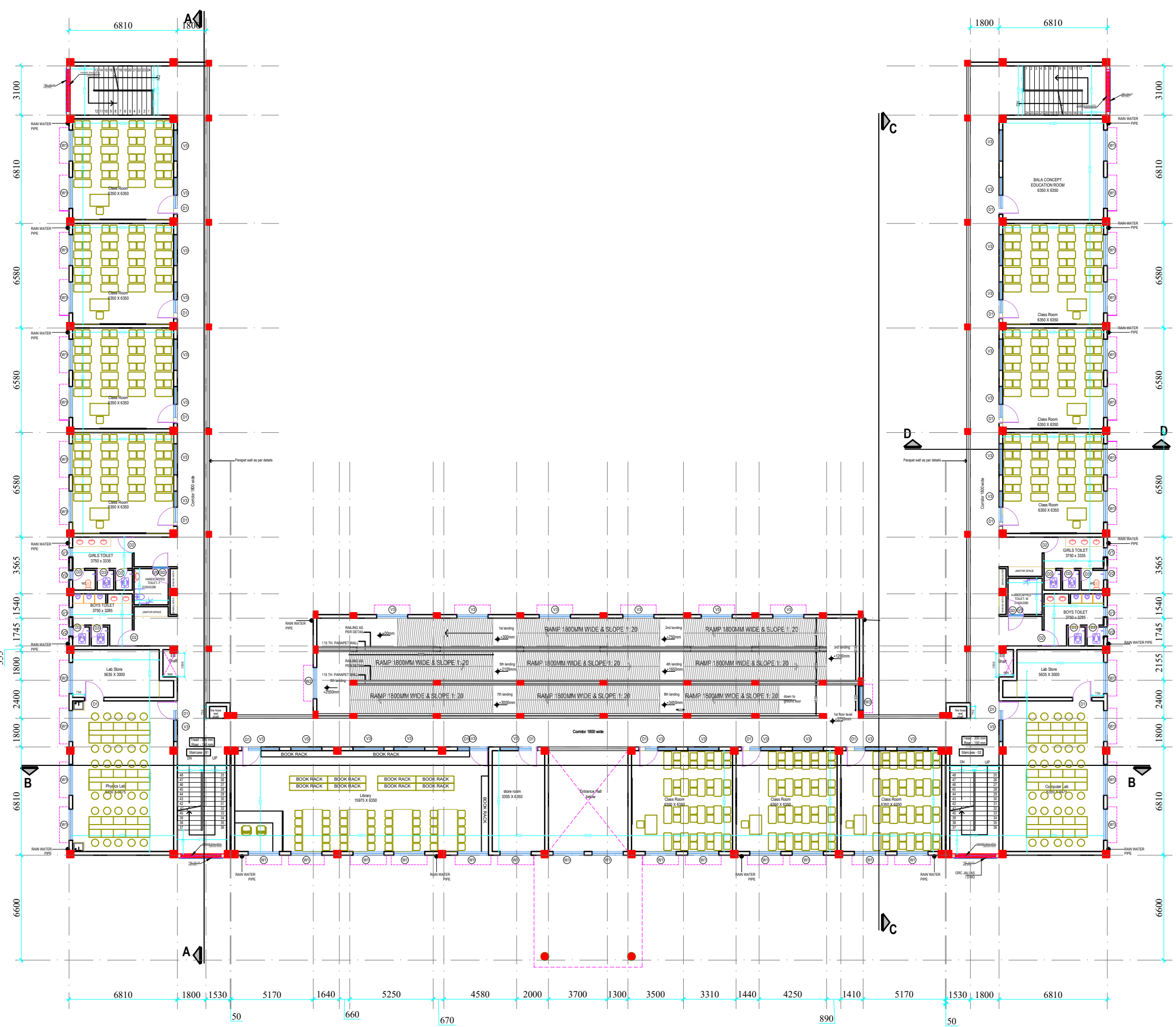
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**CONSTRUCTION OF SCHOOL  
 BUILDING FOR EKLAVYA MODEL  
 RESIDENTIAL SCHOOL (EMRS)**

CLIENT -  
**GOVT OF INDIA  
 MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATIONAL  
 SOCIETY FOR TRIBAL  
 STUDENTS**



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*pk Agrawal*  
*(N. KUMAR)*  
*Leony (PK Geang)*  
*Resha*  
**A D P Keshri**  
**Chief Engineer & Consultant**

CATEGORY : SCHOOL BUILDING  
 DRAWING TITLE : FIRST FLOOR PLAN  
 DWG. NO.- EMRS NAME/SCH/AR\_02



**FIRST FLOOR PLAN**

PROJECT -EMRS  
**CONSTRUCTION OF SCHOOL  
 BUILDING FOR EKLAVYA MODEL  
 RESIDENTIAL SCHOOL (EMRS)**

CLIENT -  
**GOVT OF INDIA  
 MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATIONAL  
 SOCIETY FOR TRIBAL  
 STUDENTS**

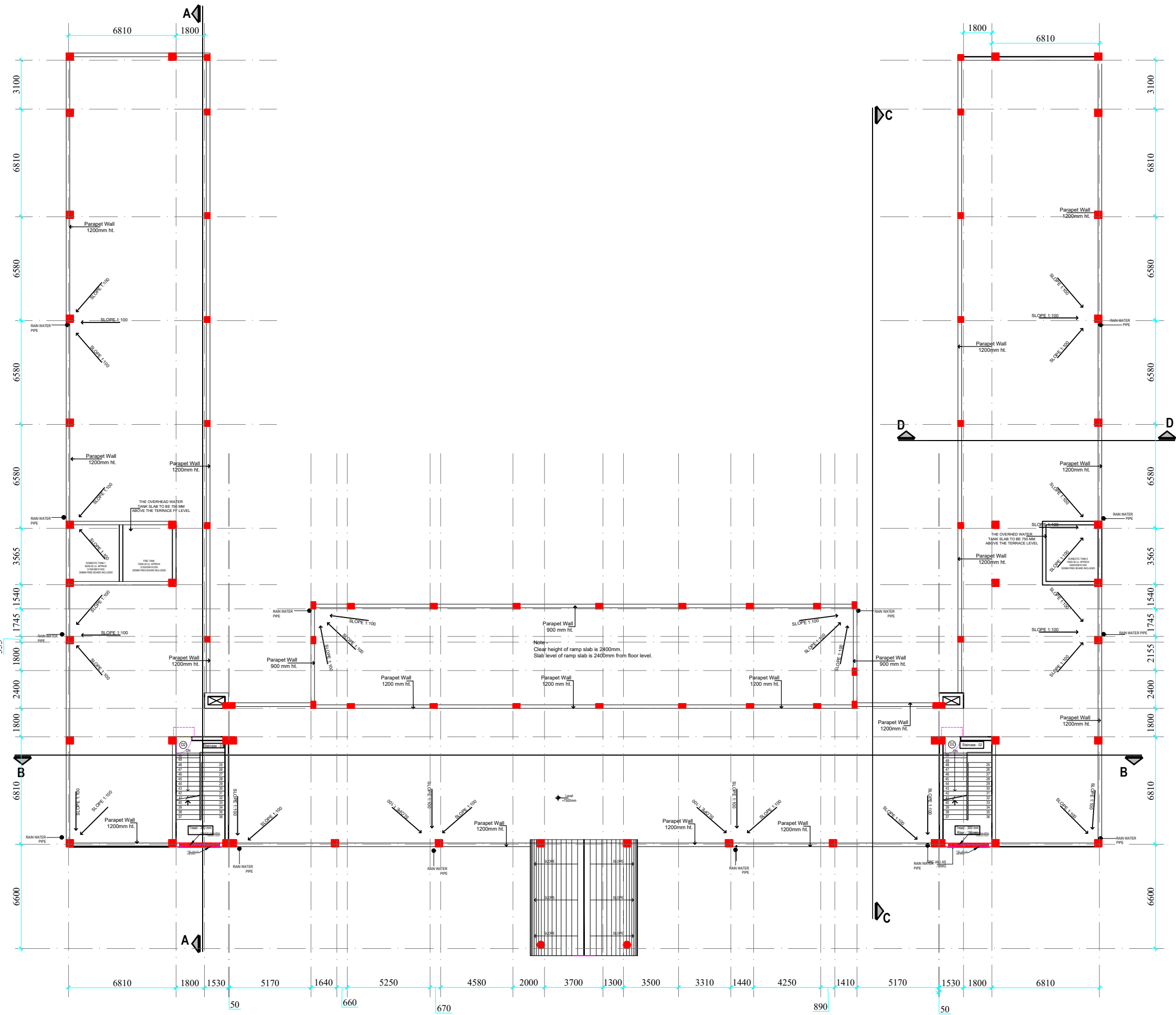


*Palkesh*  
*pk Arora*  
*(N.KUMAR)*  
*Leony (PK Arora)*  
*PK Arora*  
**A D P Keshri**  
**Chief Engineer & Consultant**

CATEGORY : SCHOOL BUILDING

DRAWING TITLE : TERRACE FLOOR PLAN

DWG. NO.-  
 EMRS NAME/SCH/AR\_03



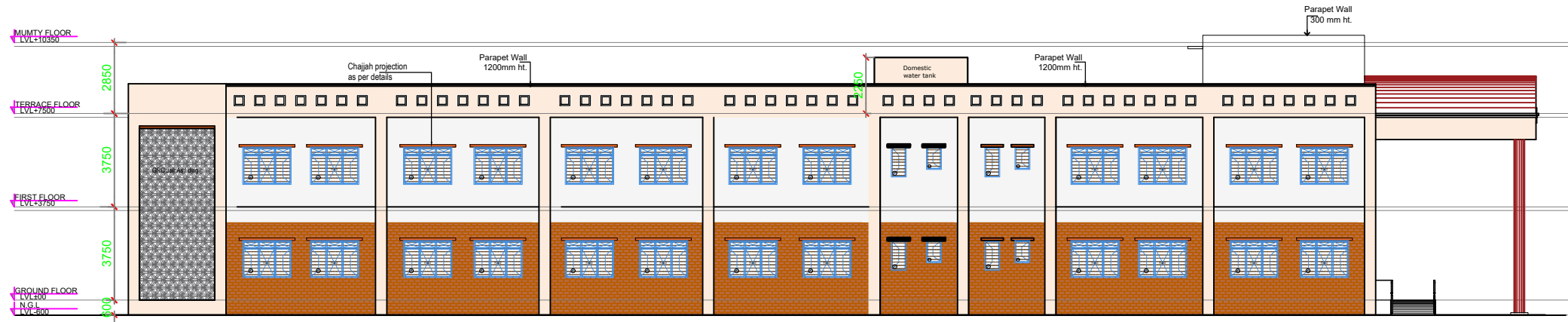
TERRACE FLOOR PLAN

CONSTRUCTION OF SCHOOL BUILDING FOR EKLAVYA MODEL RESIDENTIAL SCHOOL (EMRS)

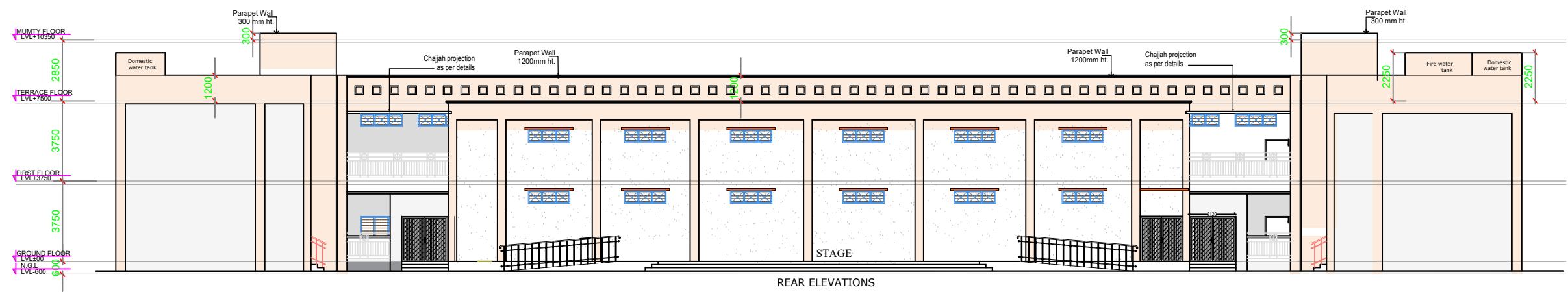
CLIENT - GOVT OF INDIA  
MINISTRY OF TRIBAL AFFAIRS  
NATIONAL EDUCATIONAL SOCIETY FOR TRIBAL STUDENTS



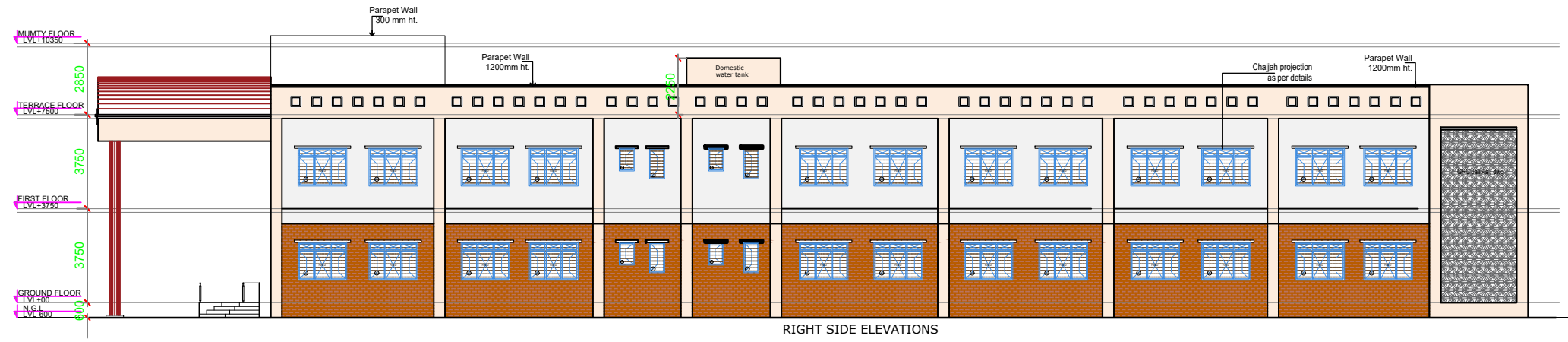
FRONT ELEVATIONS



LEFT SIDE ELEVATIONS



REAR ELEVATIONS



RIGHT SIDE ELEVATIONS

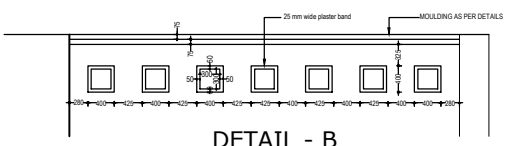
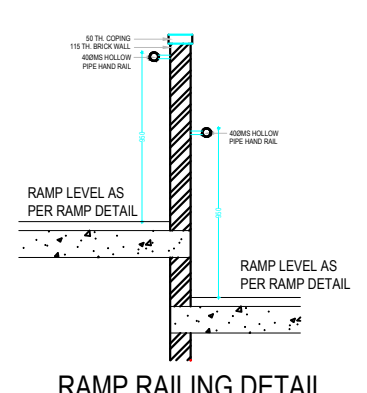
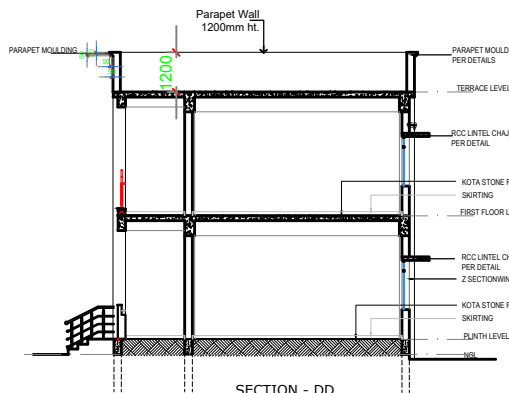
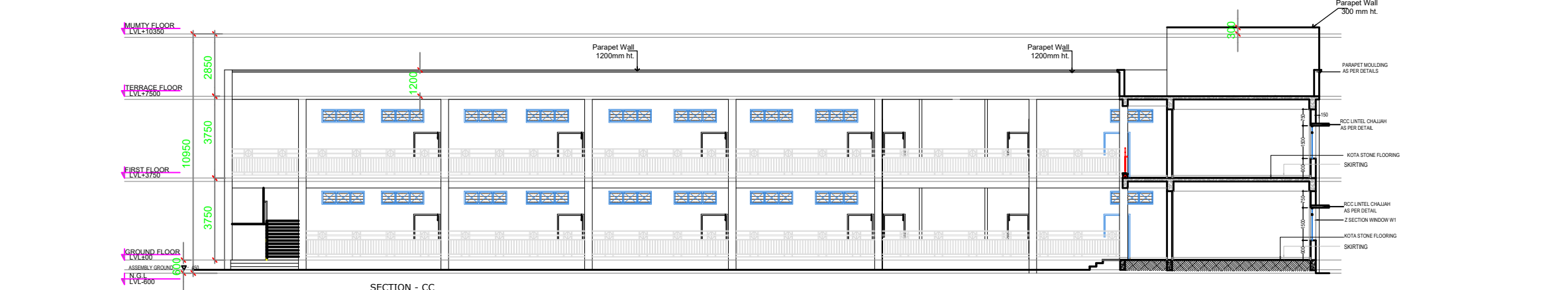
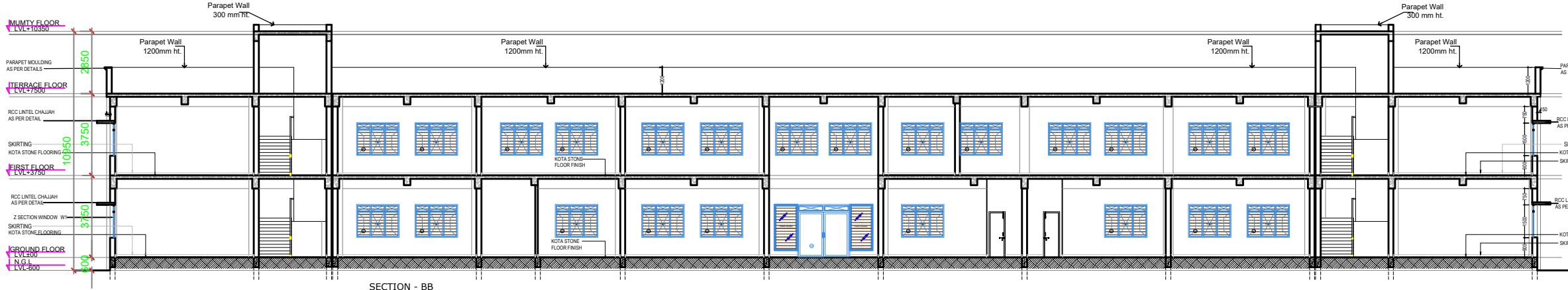
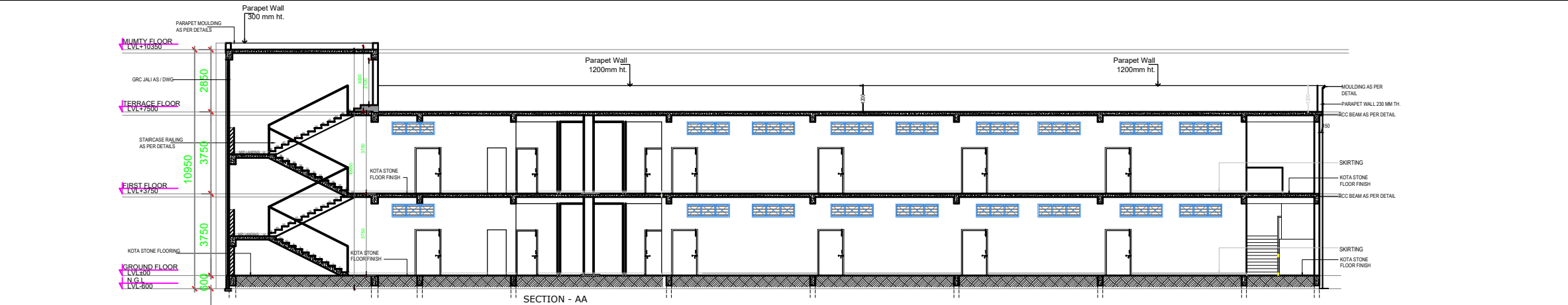
*Palkesh*  
*pkAparwal*  
*N.K*  
*(N.KUMAR)*  
*Leany (PK Geang)*  
*A.P.K*  
**A D P Keshri**  
Chief Engineer & Consultant

CATEGORY : SCHOOL BUILDING

DRAWING TITLE : FRONT ELEVATION & LEFT ELEVATION  
REAR ELEVATION & RIGHT ELEVATION

DWG. NO.-  
EMRS NAME/SCH/AR\_04





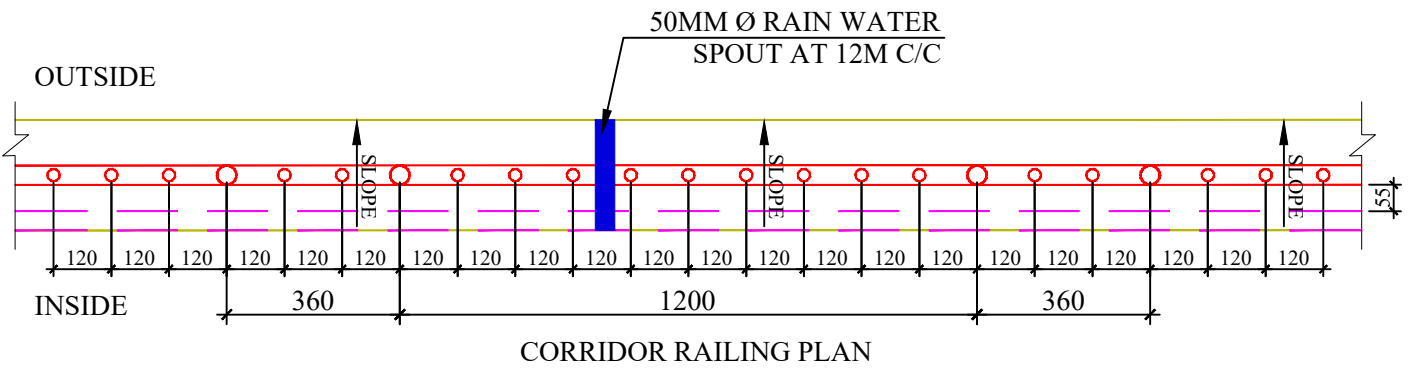
*Palkesh*  
*pk Agrawal*  
*(N.K. Kumar)*  
*Leony (PK Ganga)*

*A.P. Keshri*  
**A D P Keshri  
 Chief Engineer & Consultant**

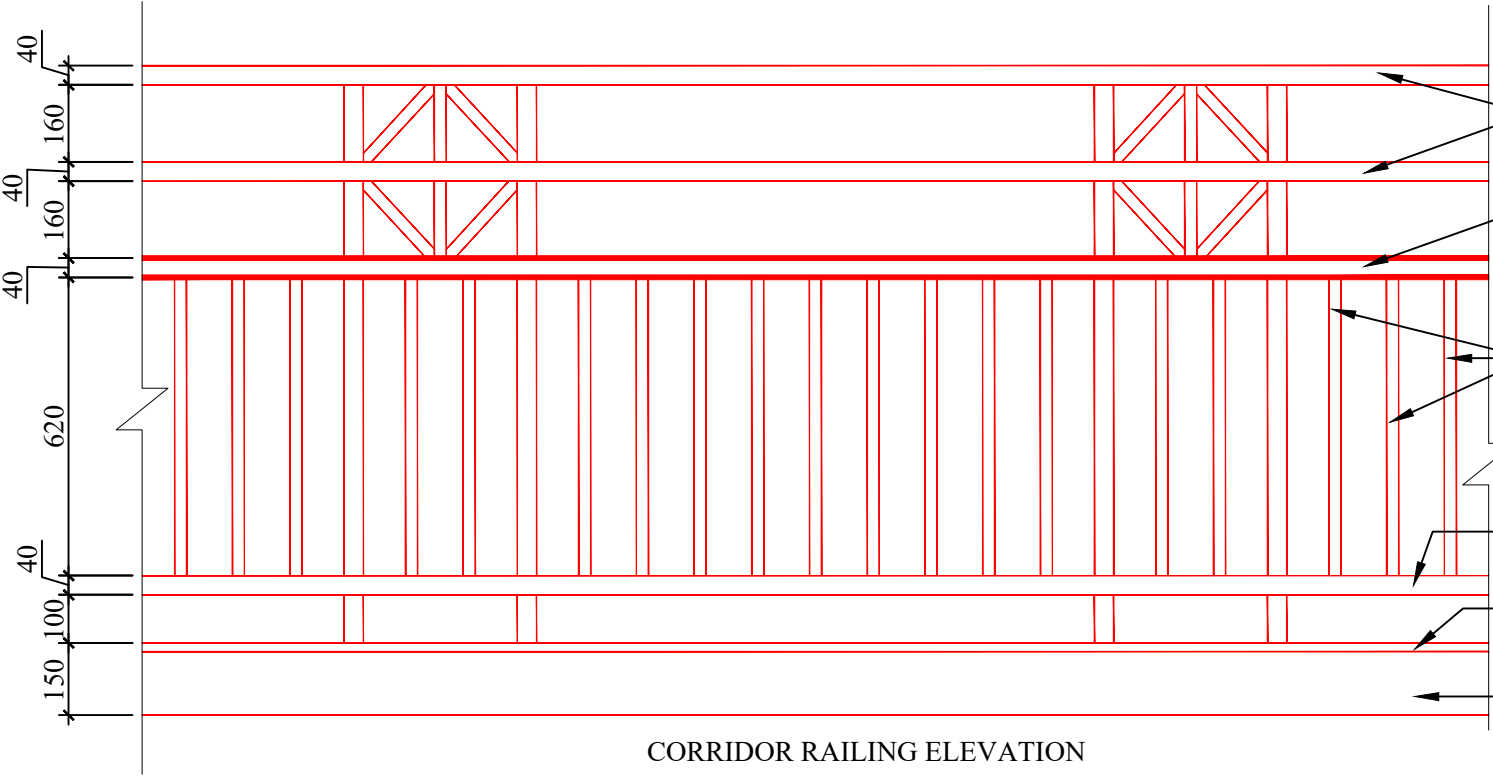
CATEGORY : SCHOOL BUILDING

DRAWING TITLE : SECTION AA/BB/CC

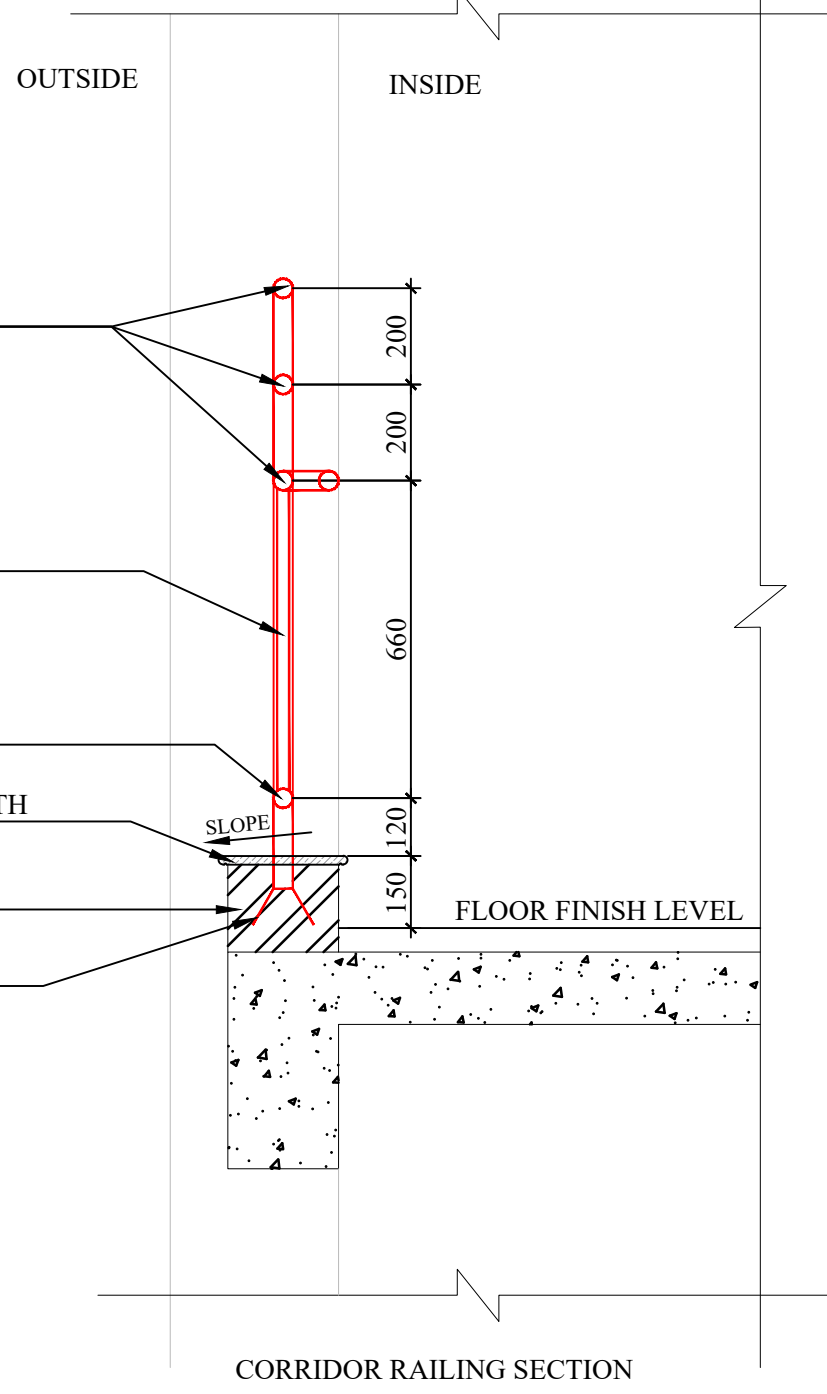
DWG. NO.- EMRS NAME/SCH/AR\_05



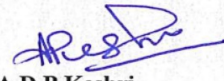
CORRIDOR RAILING PLAN



CORRIDOR RAILING ELEVATION



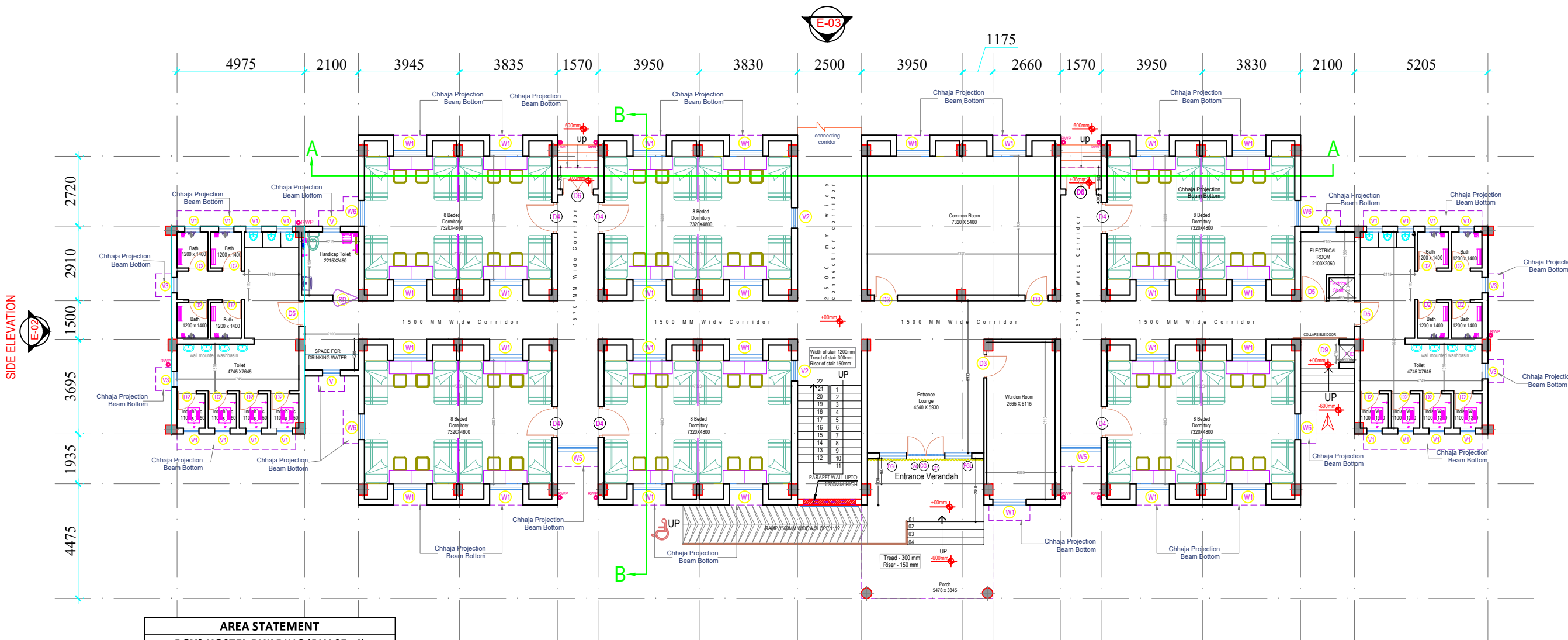
CORRIDOR RAILING SECTION

*Palkesh*  
*pk Agrawal*  
*NK (N. KUMAR)*  
*Leony (PK Ganga)*  
  
**A D P Keshri**  
 Chief Engineer & Consultant

CATEGORY :  
 SCHOOL BUILDING ARCHITECTURAL DETAIL

DRAWING TITLE :  
 COORIDOR RAILING DETAIL

DWG. NO.-  
 EMRS NAME/SCH/AD\_01



SIDE ELEVATION  
E-02

E-03

Main Entry  
E-01

FRONT ELEVATION

GROUND FLOOR PLAN ±00mm

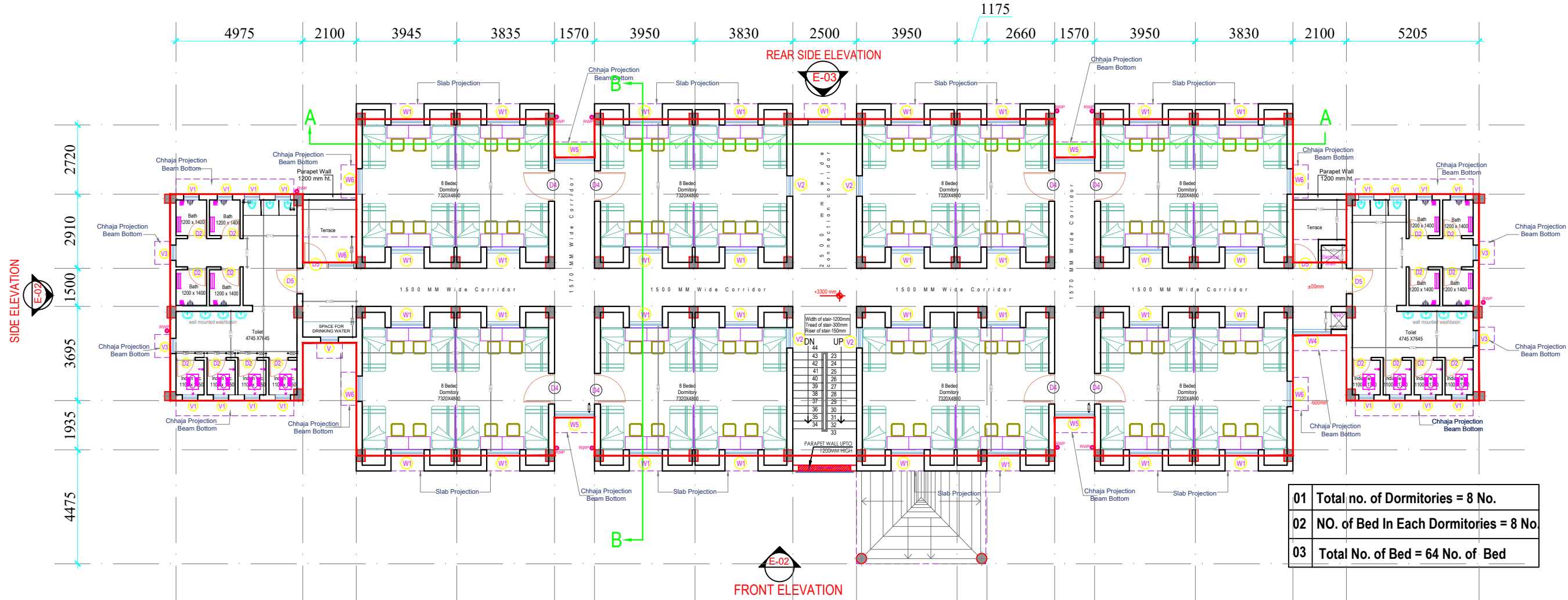
AREA STATEMENT	
BOYS HOSTEL BUILDING (PHASE - I)	
X	AREA (in Sqm)
<b>MAIN BUILDING</b>	
GROUND FLOOR PLINTH AREA	577.47
FIRST FLOOR PLINTH AREA	573.56
<b>TOTAL AREA</b>	<b>1151.03</b>
<b>ENTRANCE PORCH AREA</b>	
AREA OF PORCH / 2	12.36

- 01 Total no. of Dormitories = 6 No.
- 02 NO. of Bed In Each Dormitories = 8 No.
- 03 Total No. of Bed = 48 No. of Bed

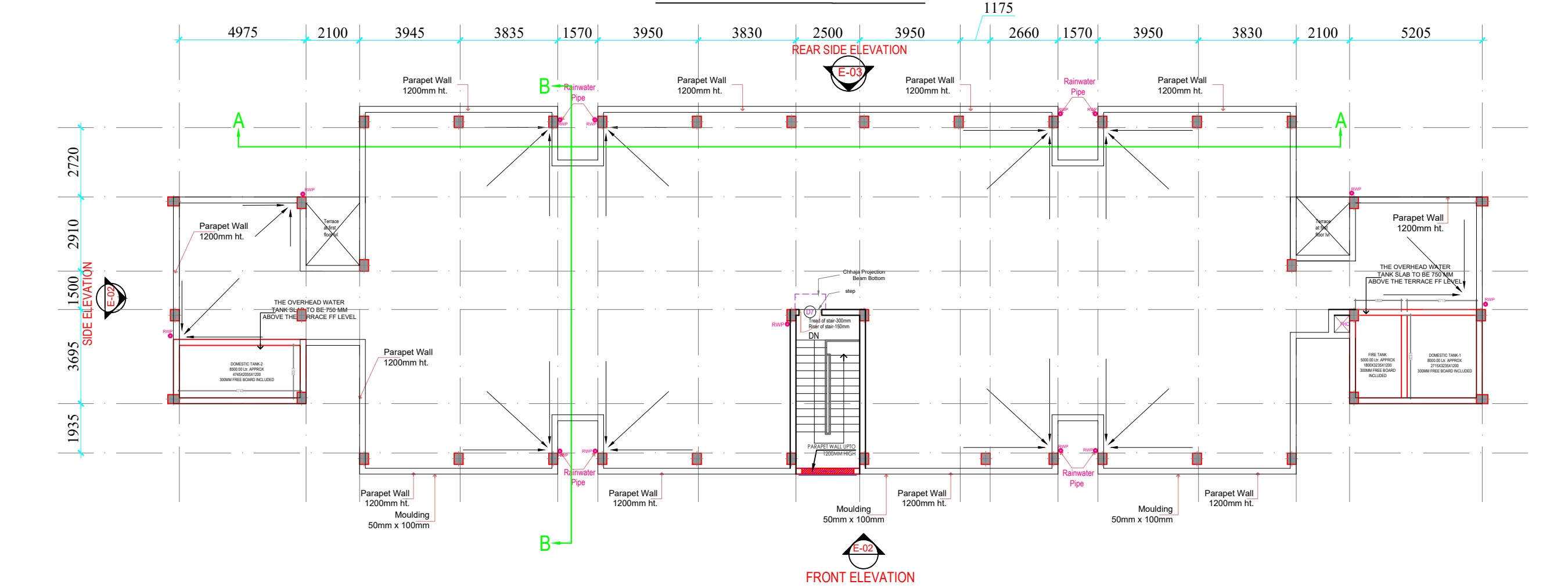
DOOR SCHEDULE										
S N	TYPE	SIZE	SILL HT (MM)	LIN. HT (MM)	GF (NO.)	FF (NO.)	TF (NO.)	Total (NO.)	SPECIFICATION OF WINDOW	
									FRAME	SHUTTER
1	D1	1500 X 2100	0	2100	1				Frame of doors shall consist of T-iron frames 40 x 40 x 6 mm with 15 x 3 mm lugs 100 mm long embedded in wall with the help of CC block of mix 1:3:6	Entrance door shall be provided with powder coated Aluminium Glazed Door with Collapsible Door.
2	D2	750 X 2100	0	2100	16	16		Wash Area & Toilet shall have 35mm thick & shall be Factory made machine pressed pre -laminated Flush Door Shutter of exterior grade in single leaf.		
3	D3	900 X 2100	0	2100	3			Hostel will have 35mm thick Non decorative Flush Door in single leaf including teak wood edge lipping except wash area with rubber floor door stoppers and synthetic enamel paints on both sides>The door closer in Warden office.		
4	D4	1200 X 2100	0	2100	6	8				
5	D5	1000 X 2100	0	2100	3	4				
6	D6	1200 X 2100	0	2100	2					
7	D7	900 X 2100	0	2100			1			
9	SD	1000 X 2100	0	2100	1					
10	D9	2100 X 2100	0	2100	1			COLLAPSIBLE DOOR AS PER DETAIL		
11	CG	4540 X 2100		2100	1			COLLAPSIBLE DOOR AS PER DETAIL		

WINDOW SCHEDULE										
S N	TYPE	SIZE	SILL HT (MM)	LIN. HT (MM)	GF (NO.)	FF (NO.)	TF (NO.)	Total (NO.)	SPECIFICATION OF WINDOW	
									FRAME	SHUTTER
1	W1	1300 X 1800	1050	2850	27	33			Steel Glazed/gauzed windows and ventilator frame & shutters shall be factory made ISI marked with Z-section with MS grills with 12 mm square bars @ 100mm c/c	Window & Ventilator except toilet portion shall be plain glass panels .The Window shall be fixed and rest part openable Shutters.
2	FGL	1050 X2550	300	2850	2					
3	W4	1500 X1800	1050	2850		1				
4	W5	1570 X1800	1050	2850	2	4				
5	W6	1000 X 1800	1050	2850	4	5				
6	V	700 X600	2250	2850	3	1				
7	V1	600 X600	2250	2850	16	16				
8	V2	800 X600	2250	2850	2	4				
9	V3	600 X 1200	1650	2850	4	4				
10	V4	1500 X 750	2100	2850	1					

*Palkesh*  
*pk Agrawal*  
*N. Kumar*  
*Leany (PK Gang)*  
**A D P Keshri**  
 Chief Engineer & Consultant



FIRST FLOOR PLAN +3300mm



TERRACE FLOOR PLAN +6600 mm

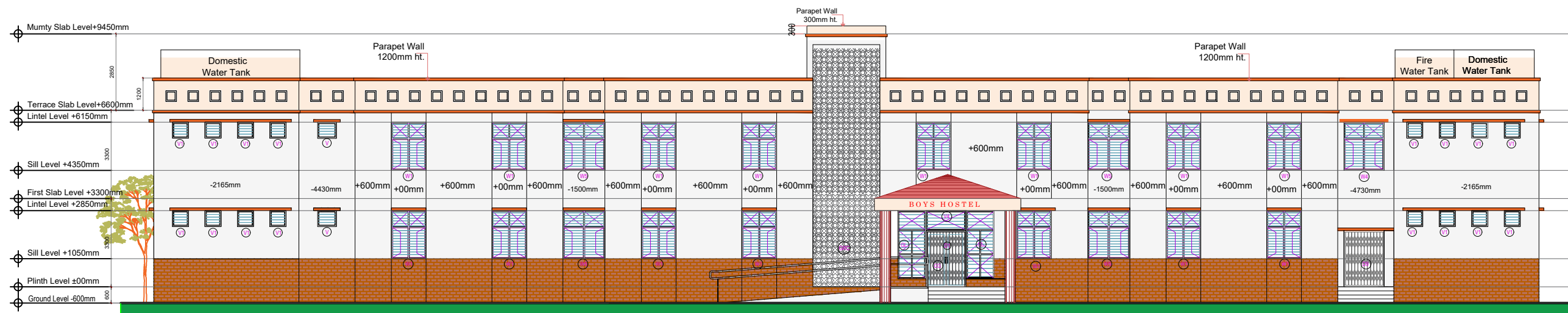
*Palkesh*  
*pk Agrawal*  
*(N. KUMAR)*  
*Leamy (PK Gang)*

*A D P Keshri*  
 Chief Engineer & Consultant

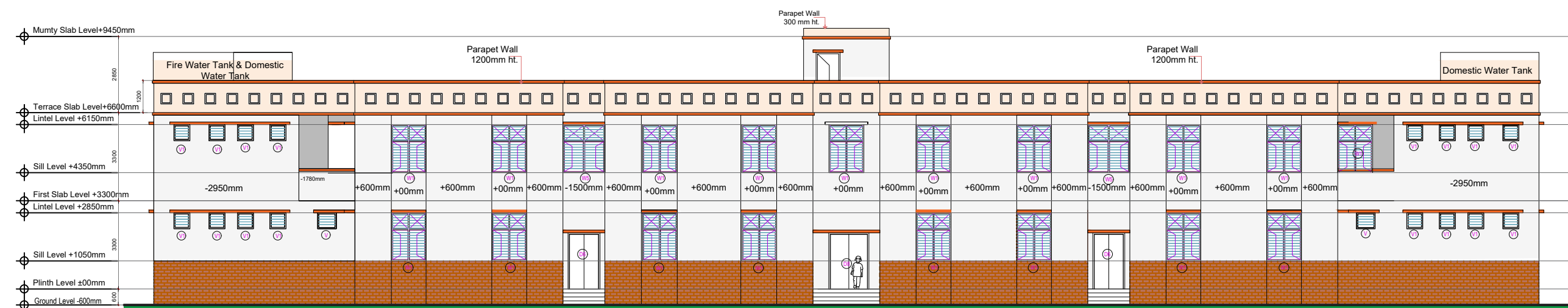
CATEGORY : BOYS HOSTEL PHASE - I

DRAWING TITLE : FIRST FLOOR PLAN  
 TERRACE FLOOR PLAN

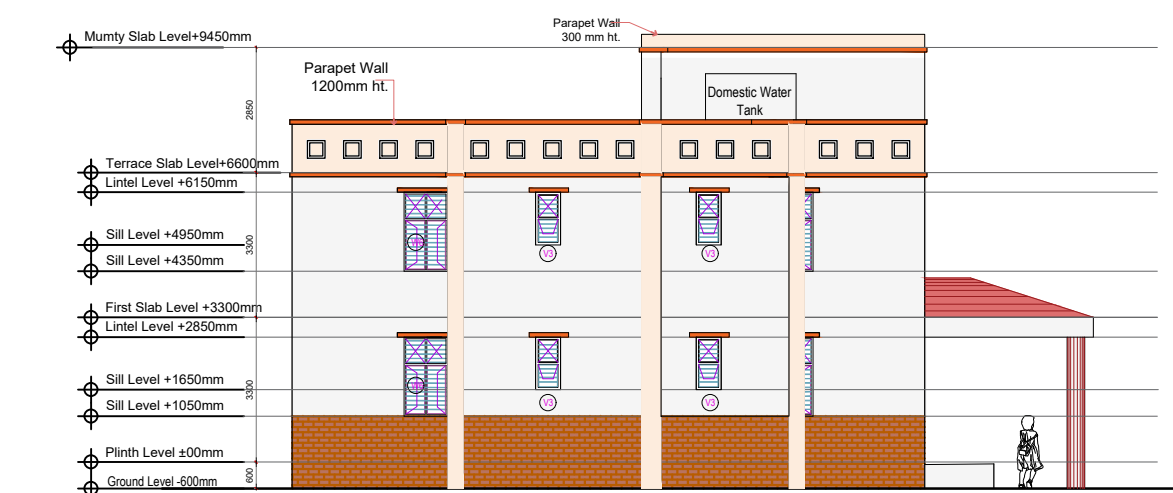
DWG. NO.-  
 EMRS NAME/BH/PHASE-1/AR\_02



FRONT ELEVATION E-01



REAR SIDE ELEVATION E-03



SIDE ELEVATION E-02

- Cladding Work
- premier acrylic smooth paints
- premier acrylic smooth paints
- premier acrylic smooth paints
- GRC Jali as per Approved design

**SPECIFICATIONS**

External Finishing: External Surface shall be provided with cladding upto Sill level in front and side & Rear Side elevation and rest portion shall be provided with 18 mm thick plaster. The external surface shall be provided with premier acrylic smooth paints with silicon additives.

Internal Finishing:  
Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper (ready-mix)

All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.

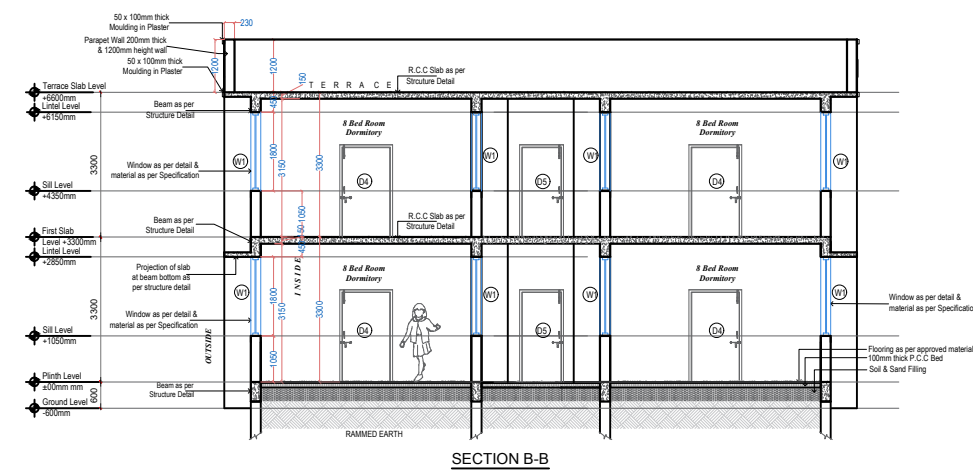
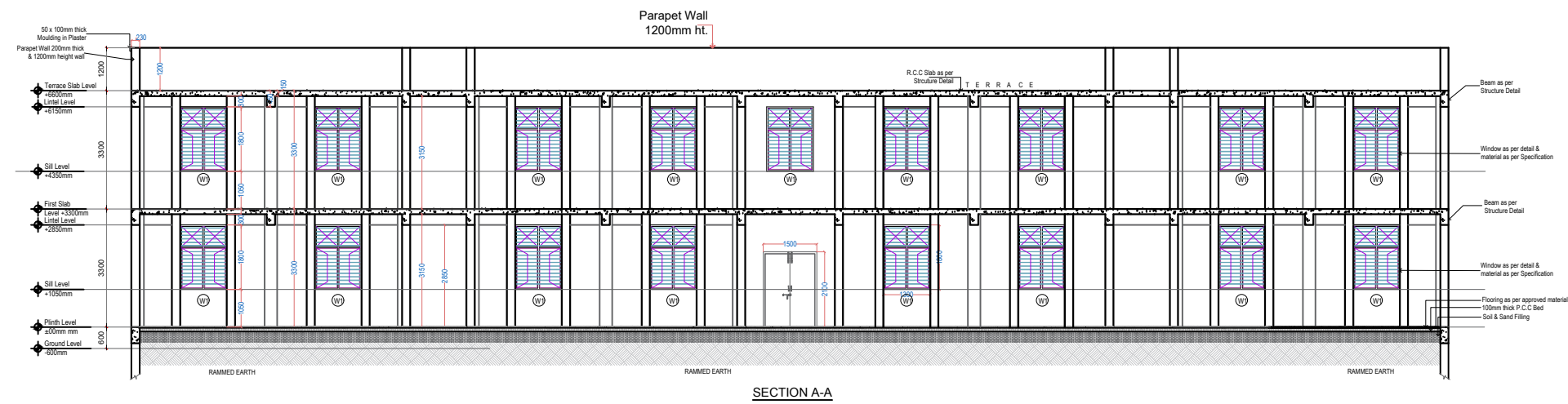
*Pallesh*  
*pk Agrawal*  
*N.K. Kumar*  
*Leony (PK Geang)*

*A.P. Keshri*  
**A D P Keshri**  
Chief Engineer & Consultant

CATEGORY: BOYS HOSTEL PHASE - I

DRAWING TITLE: ELEVATION

DWG. NO.-  
EMRS NAME/BH/PHASE-1/AR\_03



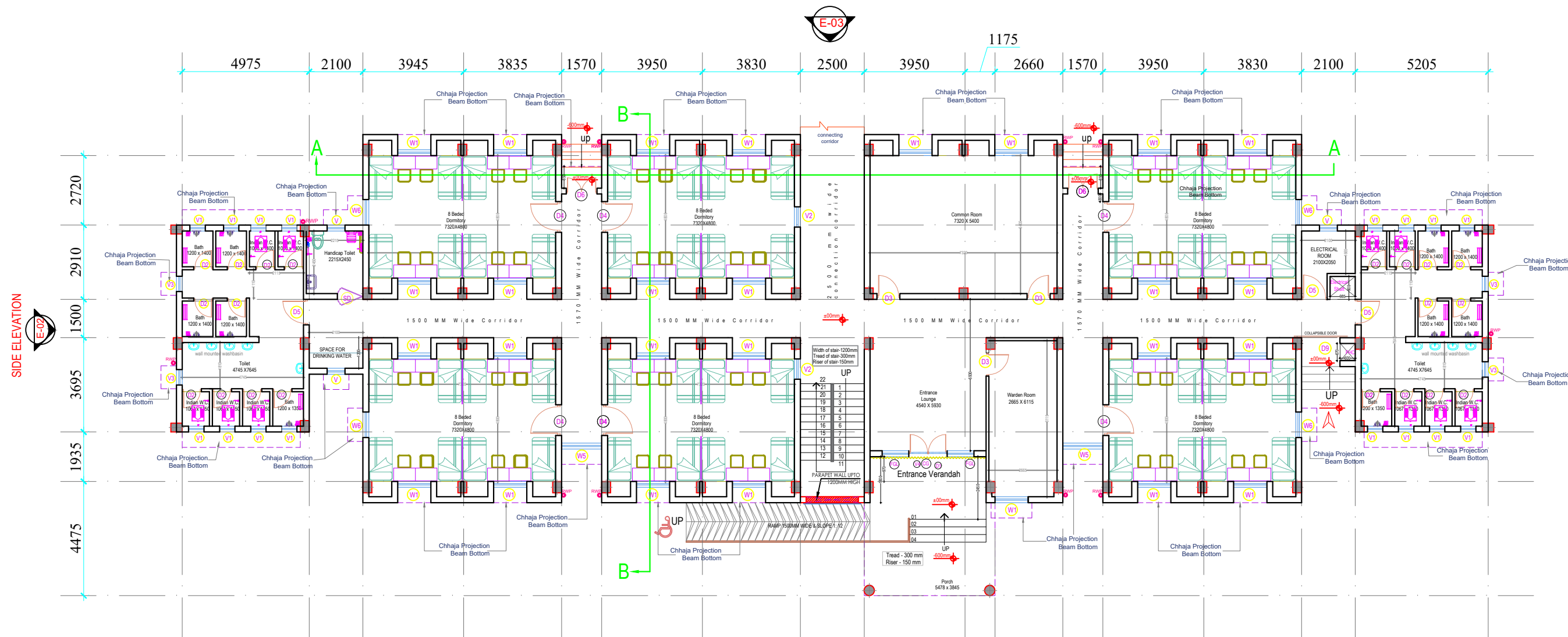
*Palkesh*  
*pkapawal*  
*N.K. KUMAR*  
*Leany (PK Gang)*

*A D P Keshri*  
**A D P Keshri**  
Chief Engineer & Consultant

CATEGORY : BOYS HOSTEL PHASE - I

DRAWING TITLE : SECTION AA/BB

DWG. NO.-  
EMRS NAME/BH/PHASE-1/AR\_04



SIDE ELEVATION

E-03

Main Entry

E-01

FRONT ELEVATION

GROUND FLOOR PLAN ±00mm

AREA STATEMENT	
GIRLS HOSTEL BUILDING (PHASE - I)	
X	AREA (in Sqm)
<b>MAIN BUILDING</b>	
GROUND FLOOR PLINTH AREA	577.47
FIRST FLOOR PLINTH AREA	573.56
<b>TOTAL AREA</b>	<b>1151.03</b>
<b>ENTRANCE PORCH AREA</b>	
AREA OF PORCH / 2	12.36

- 01 Total no. of Dormitories = 6 No.
- 02 NO. of Bed In Each Dormitories = 8 No.
- 03 Total No. of Bed = 48 No. of Bed

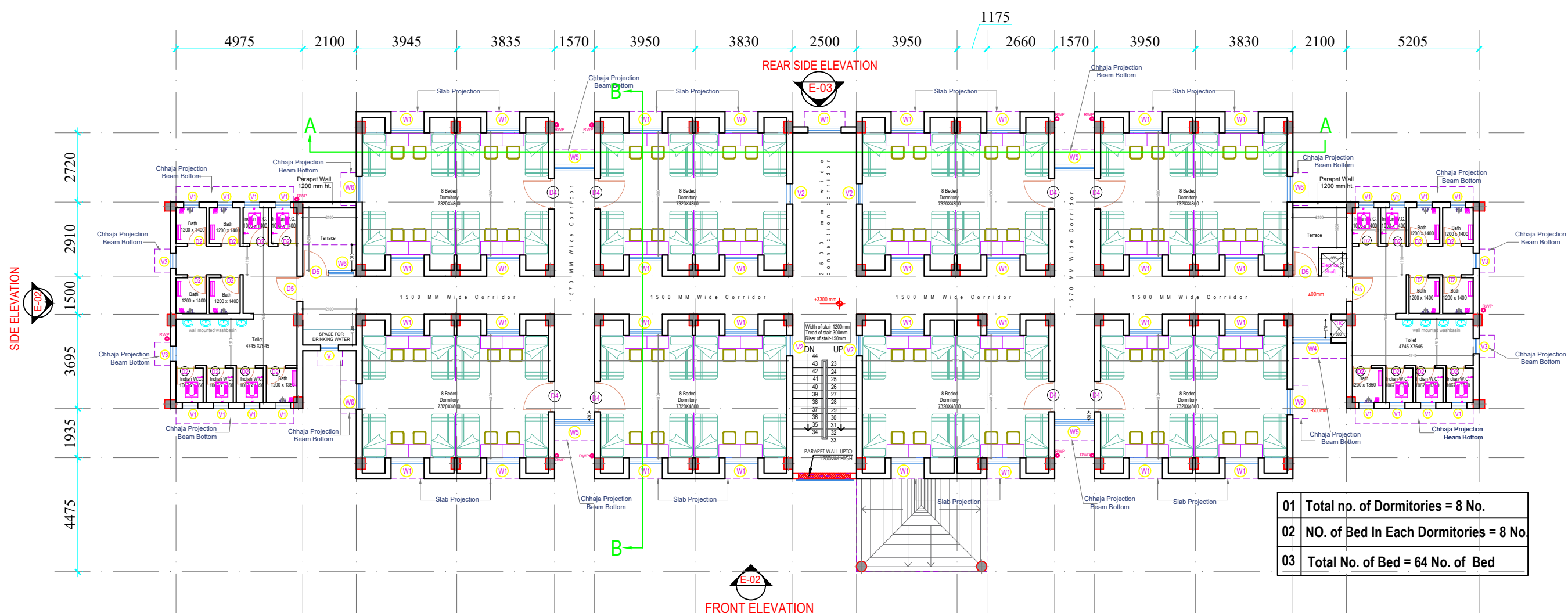
DOOR SCHEDULE										
S N	TYPE	SIZE	SILL HT (MM)	LIN. HT (MM)	GF (NO.)	FF (NO.)	TF (NO.)	Total (NO.)	SPECIFICATION OF WINDOW	
									FRAME	SHUTTER
1	D1	1500 X 2100	0	2100	1				Frame of doors shall consist of T-iron frames 40 x 40 x 6 mm with 15 x 3 mm lugs 100 mm long embedded in wall with the help of CC block of mix 1:3:6	Entrance door shall be provided with powder coated Aluminium Glazed Door with Collapsible Door.
2	D2	750 X 2100	0	2100	20	20		Wash Area & Toilet shall have 35mm thick & shall be Factory made machine pressed pre -laminated Flush Door Shutter of exterior grade in single leaf.		
3	D3	900 X 2100	0	2100	3			Hostel will have 35mm thick Non decorative Flush Door in single leaf including teak wood edge lipping except wash area with rubber floor door stoppers and synthetic enamel paints on both sides>The door closer in Warden office.		
4	D4	1200 X 2100	0	2100	6	8				
5	D5	1000 X 2100	0	2100	3	4				
6	D6	1200 X 2100	0	2100	2					
7	D7	900 X 2100	0	2100			1			
9	SD	1000 X 2100	0	2100	1					COLLAPSIBLE DOOR AS PER DETAIL
10	D9	2100 X 2100	0	2100	1					COLLAPSIBLE DOOR AS PER DETAIL
11	CG	4540 X 2100		2100	1					COLLAPSIBLE DOOR AS PER DETAIL

WINDOW SCHEDULE										
S N	TYPE	SIZE	SILL HT (MM)	LIN. HT (MM)	GF (NO.)	FF (NO.)	TF (NO.)	Total (NO.)	SPECIFICATION OF WINDOW	
									FRAME	SHUTTER
1	W1	1300 X 1800	1050	2850	27	33			Steel glazed/gauzed windows and ventilator frame & shutters shall be factory made ISI marked with Z-section with MS grills with 12 mm square bars @ 100mm c/c	Window & Ventilator except toilet portion shall be plain glass panels .The Window shall be fixed and rest part openable Shutters.
2	FGL	1050 X 2550	300	2850	2					The glazed window Shutter shall be open outside and the mesh Shutter shall be open inside .Toilet portion window & Ventilator shall be with frosted glass panels.The window shall be fitted with the required fixtures like stays and fasteners.
3	W4	1500 X 1800	1050	2850		1				
4	W5	1570 X 1800	1050	2850	2	4				
5	W6	1000 X 1800	1050	2850	4	5				
6	V	700 X 600	2250	2850	3	1				
7	V1	600 X 600	2250	2850	16	16				
8	V2	800 X 600	2250	2850	2	4				
9	V3	600 X 1200	1650	2850	4	4				
10	V4	1500 X 750	2100	2850	1					

*Pallesh*  
*pk Agrawal*  
*N.K. (N.KUMAR)*  
*Leony (PK Ganga)*

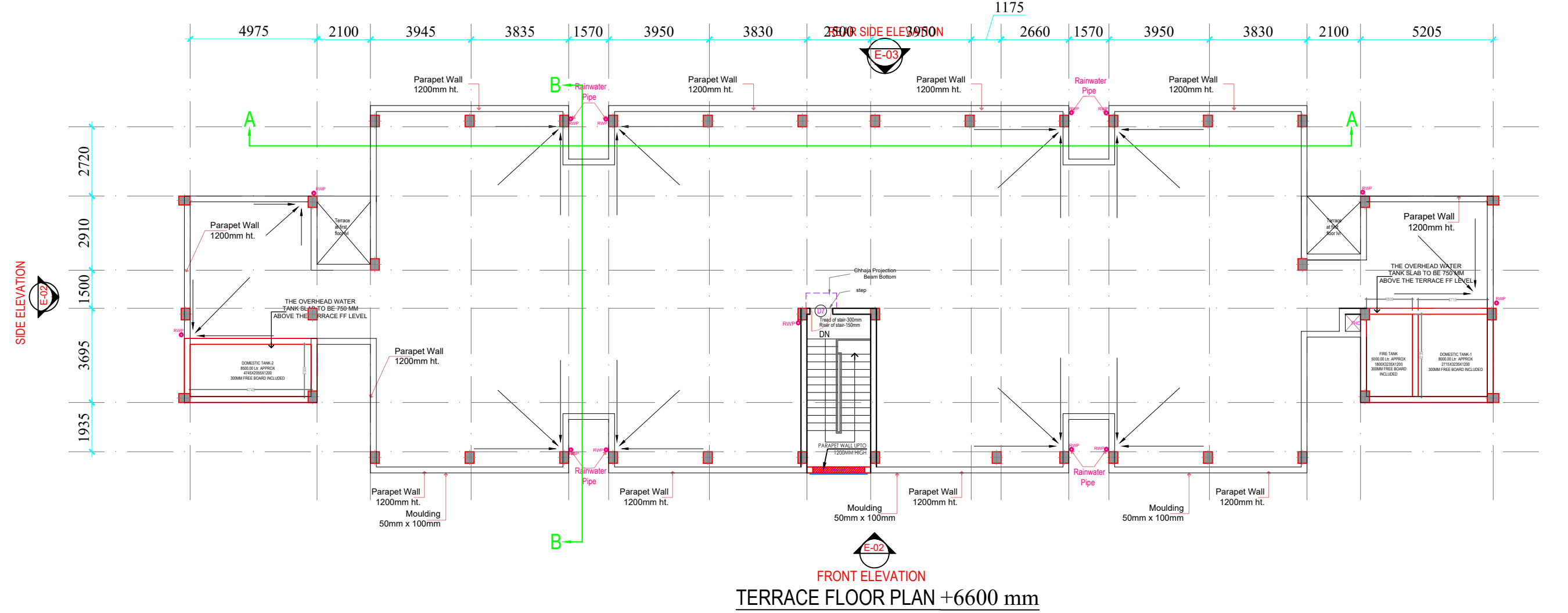
*Resha*  
**A D P Keshri**  
 Chief Engineer & Consultant

CATEGORY : GIRLS HOSTEL PHASE - I  
 DRAWING TITLE : GROUND FLOOR PLAN  
 DWG. NO.- EMRS NAME/GH/PHASE-I/AR\_01



- 01 Total no. of Dormitories = 8 No.
- 02 NO. of Bed In Each Dormitories = 8 No
- 03 Total No. of Bed = 64 No. of Bed

FIRST FLOOR PLAN +3300mm

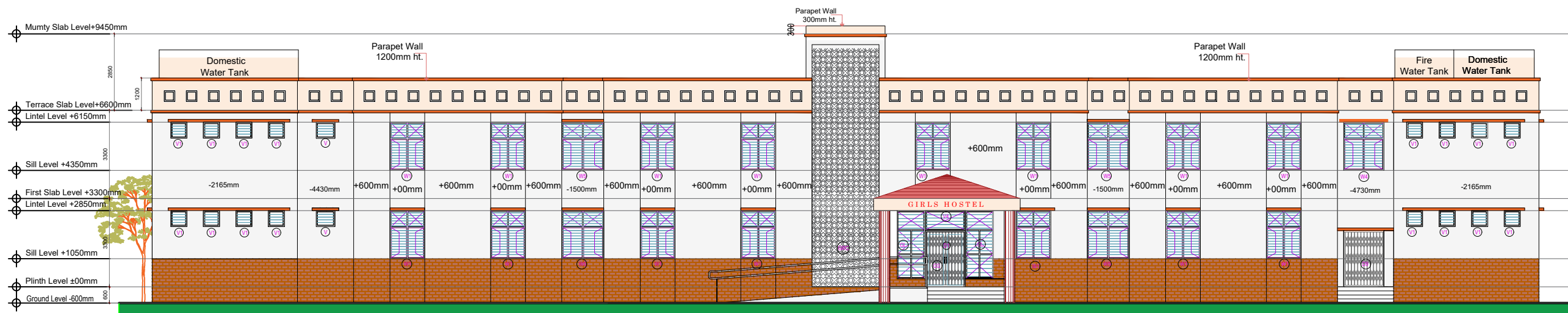
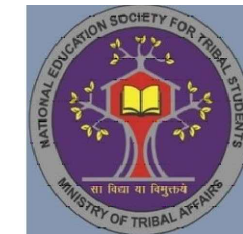


TERRACE FLOOR PLAN +6600 mm

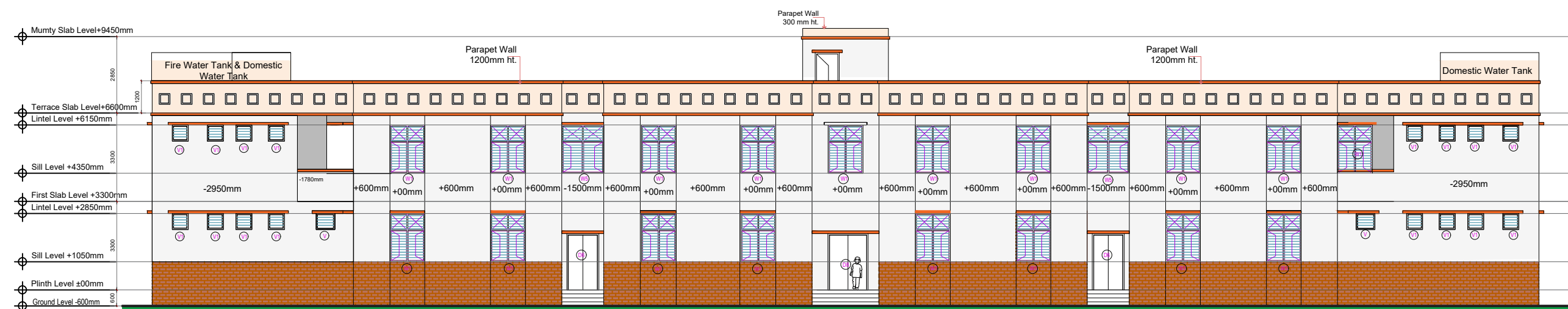
CATEGORY : GIRLS HOSTEL PHASE - I  
 DRAWING TITLE : FIRST FLOOR PLAN  
 TERRACE FLOOR PLAN  
 DWG. NO.- EMRS NAME/GH/PHASE-1/AR\_02

*Palkesh*  
*pkapawal*  
*(N.KUMAR)*  
*Leony (PK Gang)*  
*Resh*  
**A D P Keshri**  
 Chief Engineer & Consultant

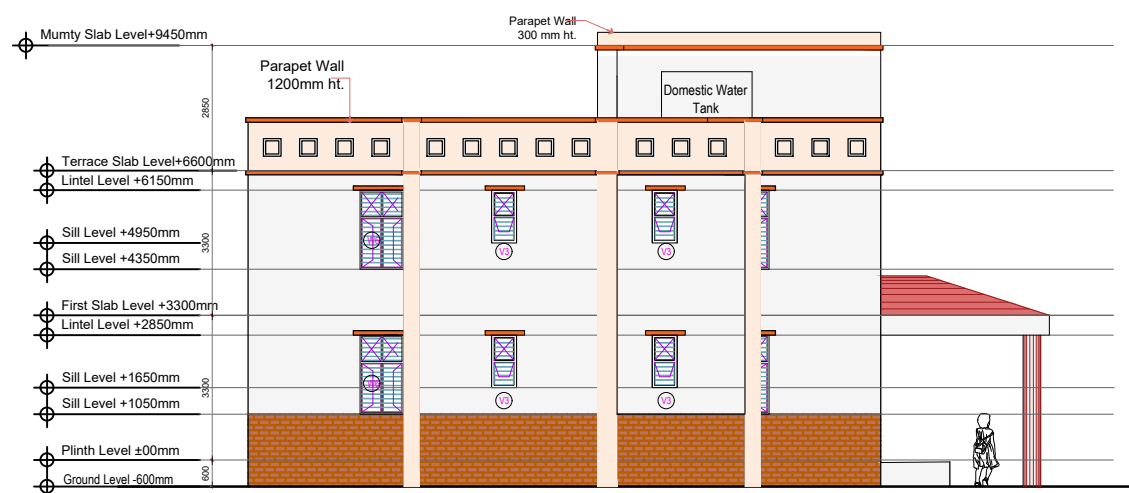









FRONT ELEVATION E-01



REAR SIDE ELEVATION E-03



SIDE ELEVATION E-02

-  Cladding Work
-  premier acrylic smooth paints
-  premier acrylic smooth paints
-  premier acrylic smooth paints
-  GRC Jali as per Approved design

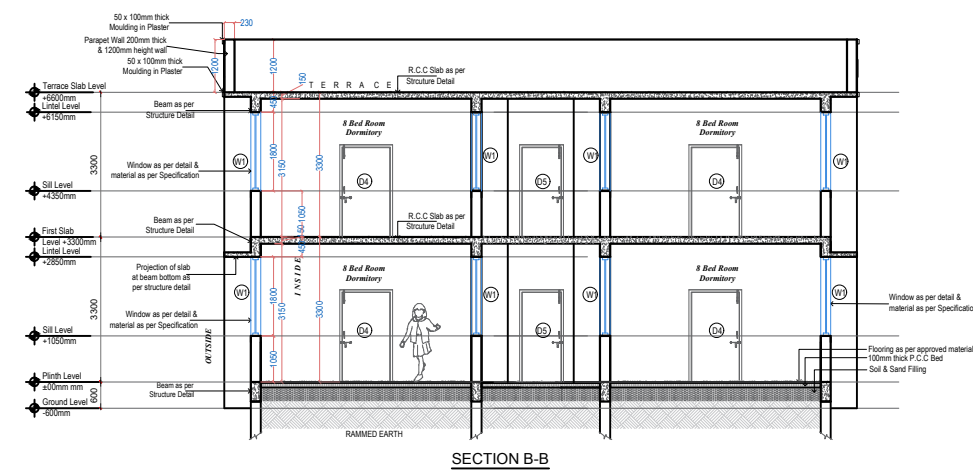
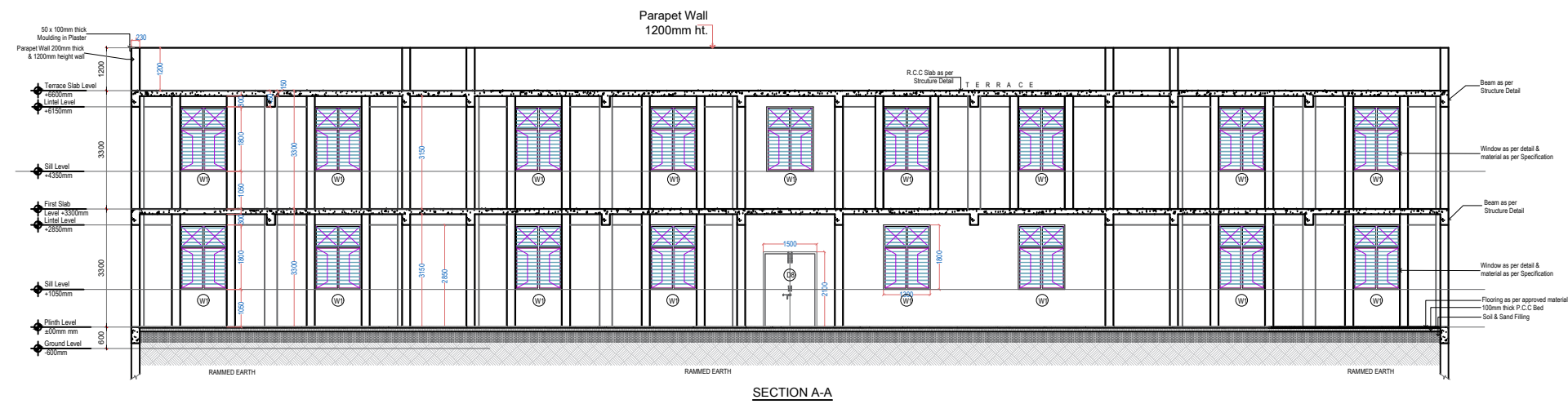
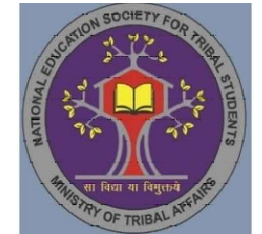
SPECIFICATIONS		
<ul style="list-style-type: none"> <li>External Finishing: External Surface shall be provided with cladding upto Sill level in front and side &amp; Rear Side elevation and rest portion shall be provided with 18 mm thick plaster. The external surface shall be provided with premier acrylic smooth paints with silicon additives.</li> </ul>	<p>Internal Finishing:</p> <p>Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper(ready-mix)</p>	<p>All wood work &amp; steel work shall be provided with synthetic enamel paint of the approved brand.</p>

*Palkesh*  
*pk Agrawal*  
*N.K. Kumar*  
*Leony (PK Ganga)*  
*A.P. Keshri*  
**A D P Keshri**  
Chief Engineer & Consultant

CATEGORY : GIRLS HOSTEL PHASE - I

DRAWING TITLE : ELEVATION

DWG. NO.-  
EMRS NAME/GH/PHASE-1/AR\_03



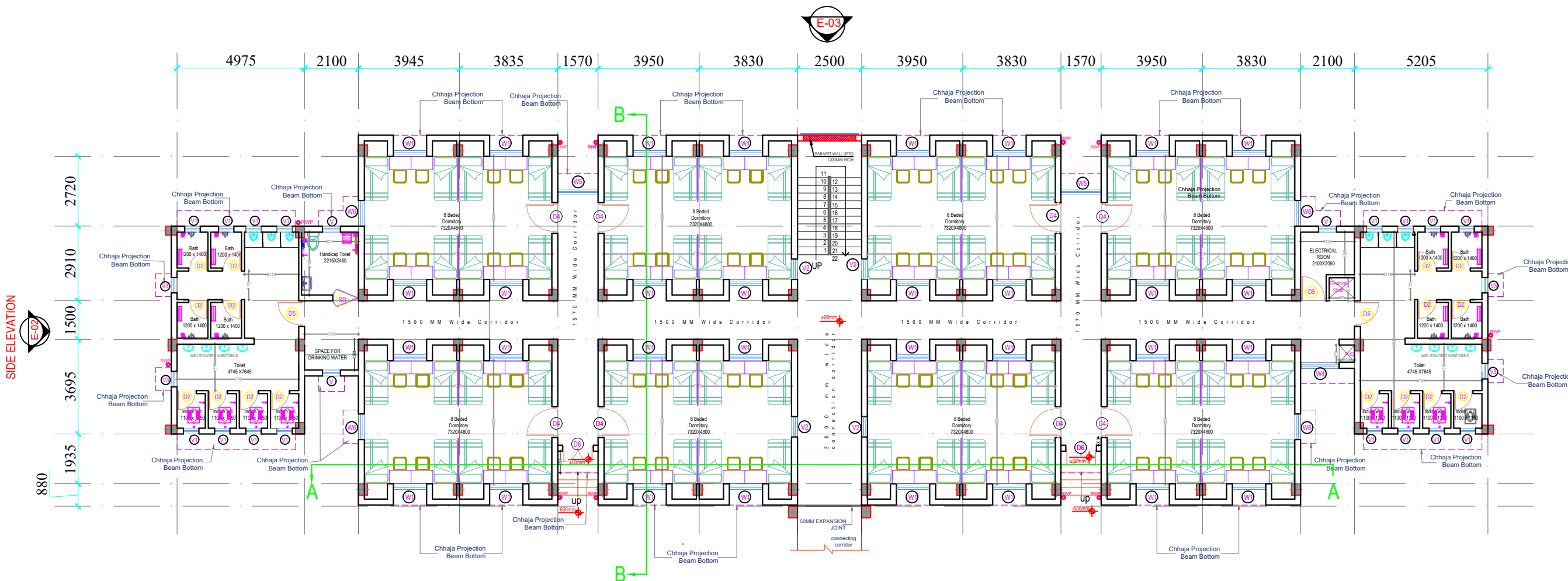
*Pallesh*  
*pk Agrawal*  
*N.K. KUMAR*  
*Leony (PK Gang)*

*A.P. Keshri*  
**A D P Keshri**  
Chief Engineer & Consultant

CATEGORY : GIRLS HOSTEL PHASE - I

DRAWING TITLE : SECTION AA/BB

DWG. NO.-  
EMRS NAME/GH/PHASE-1/AR\_04



SIDE ELEVATION  
E-02

E-03

Main Entry



FRONT ELEVATION

GROUND FLOOR PLAN ±00mm

- |    |  |
|----|--|
| 01 | Total no. of Dormitories = 6 No.       |
| 02 | NO. of Bed In Each Dormitories = 8 No. |
| 03 | Total No. of Bed = 48 No. of Bed       |

AREA STATEMENT	
BOYS HOSTEL BUILDING (PHASE - II)	
DETAILS	AREA (in Sqm)
<b>MAIN BUILDING</b>	
GROUND FLOOR PLINTH AREA	584.81
FIRST FLOOR PLINTH AREA	573.56
<b>TOTAL AREA</b>	<b>1158.37</b>
<b>TOTAL COVERED AREA</b>	<b>1158.37</b>

DOOR SCHEDULE								
S N	TYPE	SIZE	SILL HT (MM)	LIN. HT (MM)	GF (NO.)	FF (NO.)	TF (NO.)	Total (NO.)
2	D2	750 X 2100	0	2100				
3	D3	900 X 2100	0	2100				
4	D4	1200 X 2100	0	2100				
5	D5	1000 X 2100	0	2100				
6	D6	1200 X 2100	0	2100				
7	D7	900 X 2100	0	2100				
8	D8	1500 X 2100	0	2100				
9	SD	1000 X 2100	0	2100				

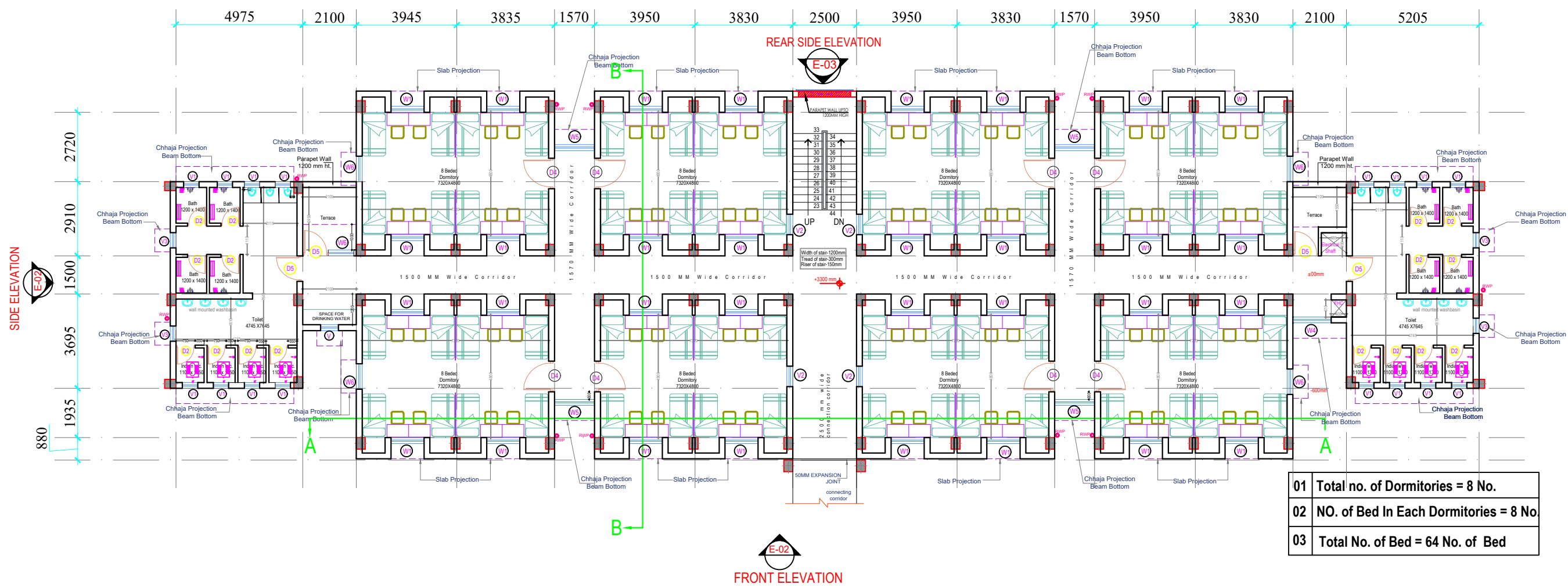
SPECIFICATION OF WINDOW	
FRAME	SHUTTER
Frame of doors shall consist of T-iron frames 40 x 40 x 6 mm with 15 x 3 mm lugs 100 mm long embedded in wall with the help of CC block of mix 1:3:6	Entrance door shall be provided with powder coated Aluminium Glazed Door with Collapsible Door .
	Wash Area & Toilet shall have 35mm thick & shall be Factory made machine pressed pre -laminated Flush Door Shutter of exterior grade in single leaf.
	Hostel will have 35mm thick Non decorative Flush Door in single leaf including teak wood edge lipping except wash area with rubber floor door stoppers and synthetic enamel paints on both sides>The door closer in Warden office.

WINDOW SCHEDULE								
S N	TYPE	SIZE	SILL HT (MM)	LIN. HT (MM)	GF (NO.)	FF (NO.)	TF (NO.)	Total (NO.)
1	W1	1300 X 1800	1050	2850				
3	W4	1500 X 1800	1050	2850				
4	W5	1570 X 1800	1050	2850				
5	W6	1000 X 1800	1050	2850				
6	V	700 X 600	2250	2850				
7	V1	600 X 600	2250	2850				
8	V2	800 X 600	2250	2850				
9	V3	600 X 1200	1650	2850				

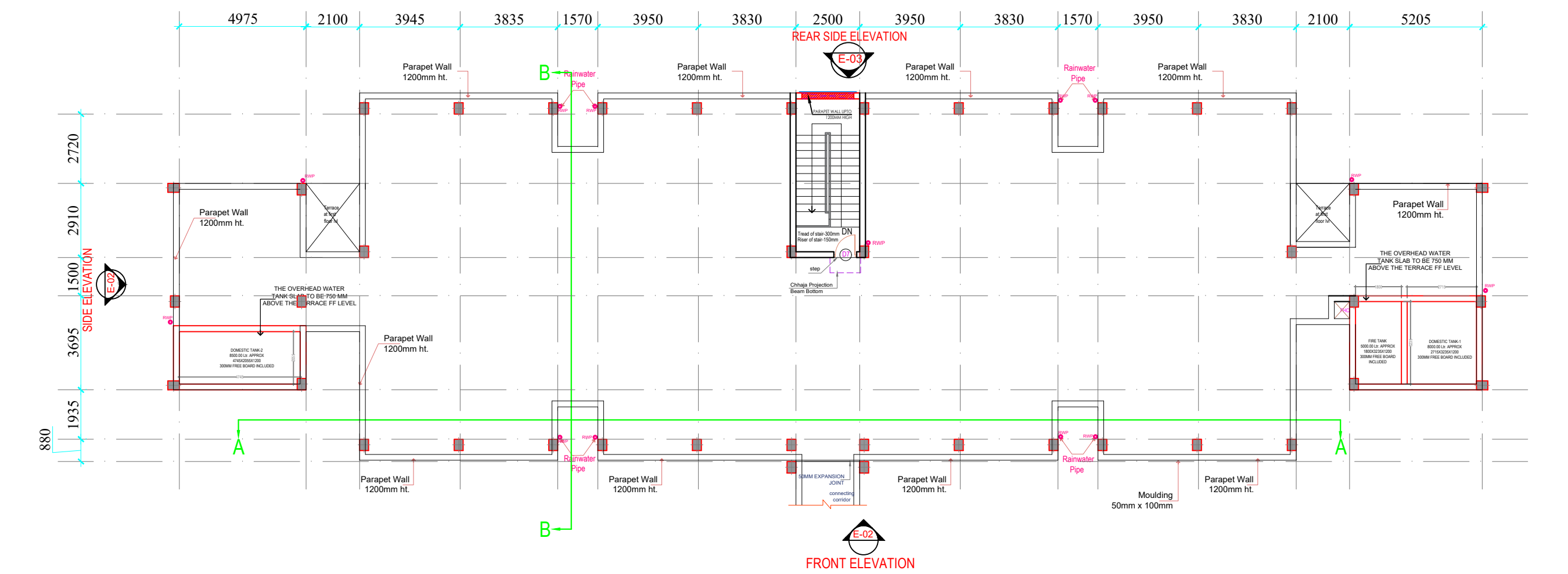
  

SPECIFICATION OF WINDOW	
FRAME	SHUTTER
Steel Glazed/gauzed windows and ventilator frame & shutters shall be factory made ISI marked with Z-section with MS grills with 12 mm square bars @ 100mm c/c	Window & Ventilator except toilet portion shall be plain glass panels .The Window shall be fixed and rest part openable Shutters.
	The glazed window Shutter shall be open outside and the mesh Shutter shall be open inside .Toilet portion window & Ventilator shall be with frosted glass panels.The window shall be fitted with the required fixtures like stays and fasteners.

*Pallesh*  
*pk Agrawal*  
*(N. KUMAR)*  
*Leony (PK Gang)*  
*A P Keshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

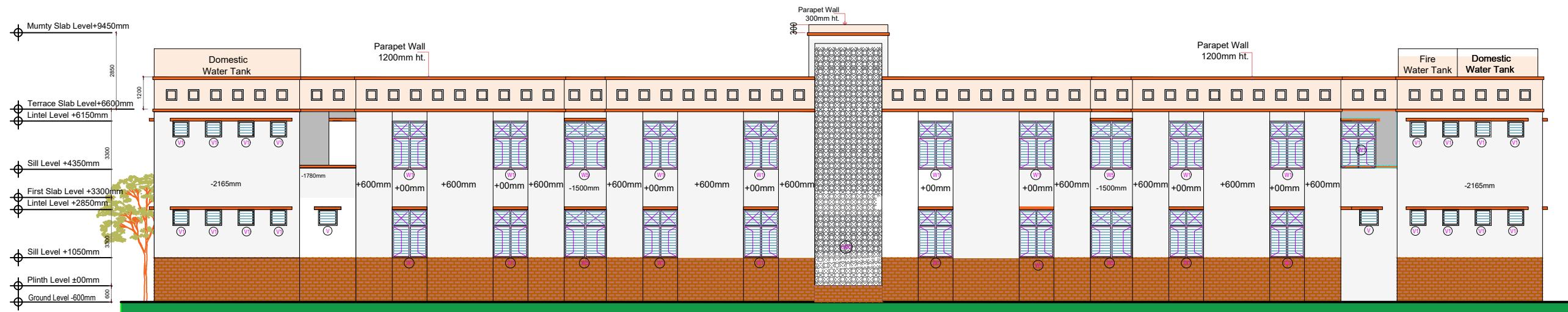
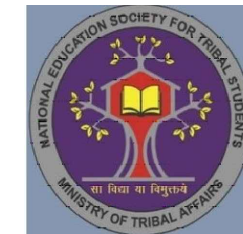


FIRST FLOOR PLAN +3300mm

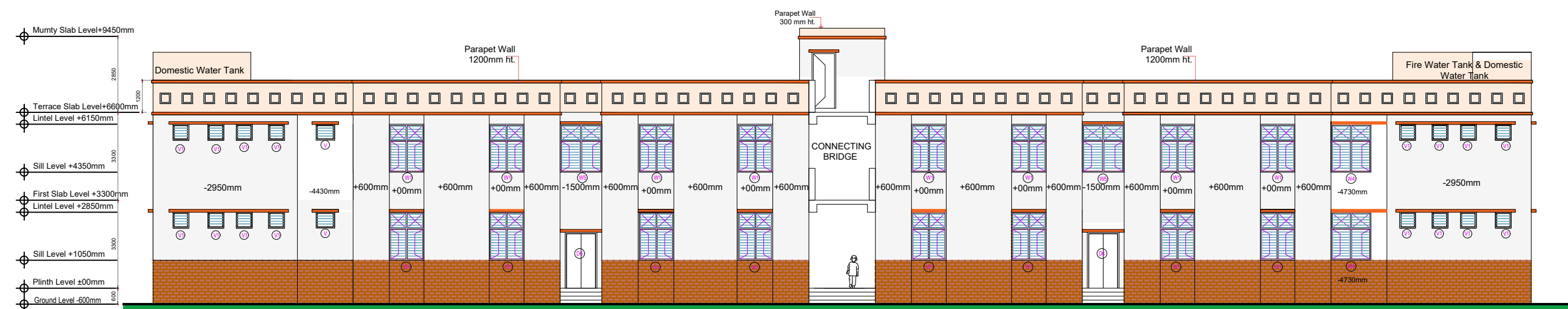


TERRACE FLOOR PLAN +6600 mm

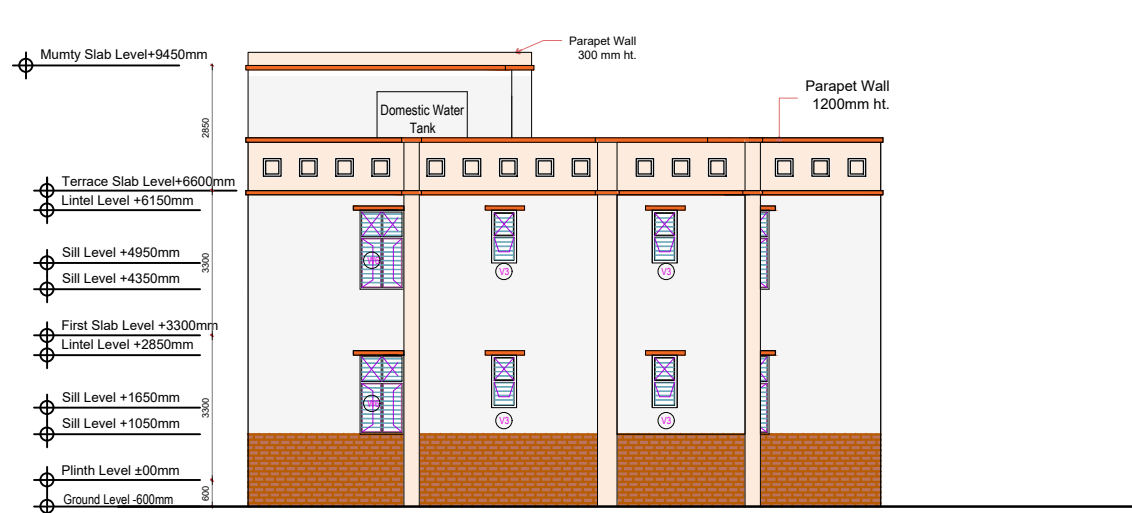
*Palkesh*  
*pk Agrawal*  
*(N. KUMAR)*  
*Leony (PK Ganga)*  
*A.P.K.*  
**A D P Keshri**  
 Chief Engineer & Consultant



FRONT ELEVATION E-02



FRONT SIDE ELEVATION E-01



SIDE ELEVATION E-02

- Cladding Work
- premier acrylic smooth paints
- premier acrylic smooth paints
- premier acrylic smooth paints
- GRC Jali as per Approved design

**SPECIFICATIONS**

<ul style="list-style-type: none"> <li>• External Finishing: External Surface shall be provided with cladding upto Sill level in front and side &amp; Rear Side elevation and rest portion shall be provided with 18 mm thick plaster. The external surface shall be provided with premier acrylic smooth paints with silicon additives.</li> </ul>	<p>Internal Finishing:</p> <p>Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper(ready-mix)</p>	<p>All wood work &amp; steel work shall be provided with synthetic enamel paint of the approved brand.</p>
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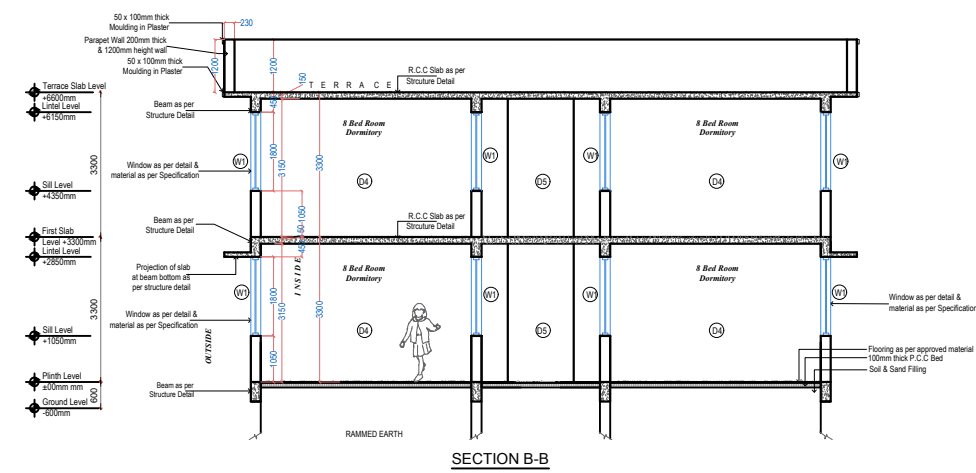
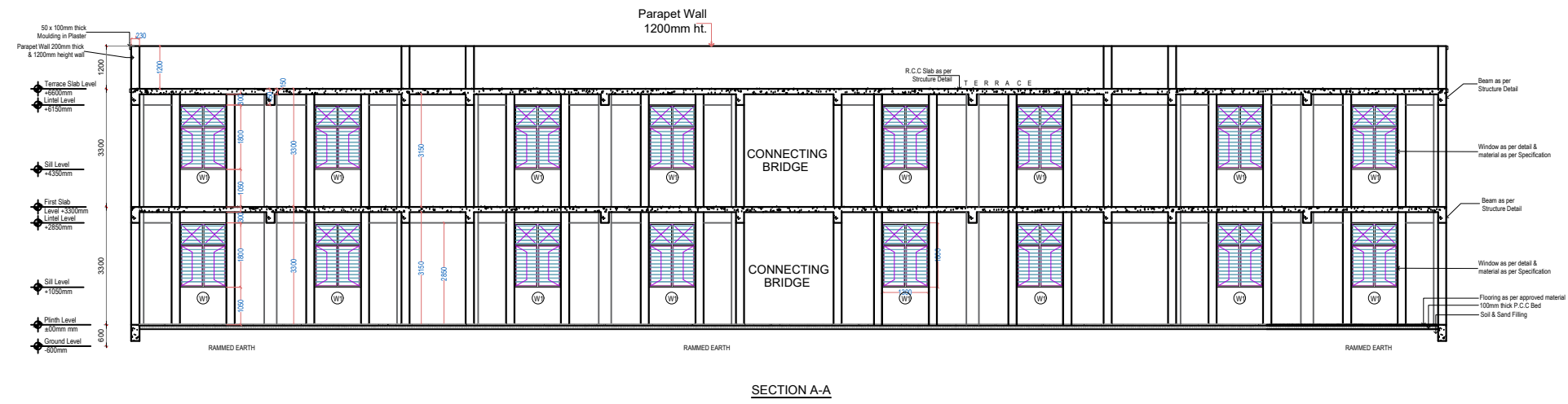
*Pallesh*  
*pkapaural*  
*N.K.*  
*(N. KUMAR)*  
*Leony (PK George)*

*A.P.K.*  
**A D P Keshri**  
Chief Engineer & Consultant

CATEGORY : BOYS HOSTEL PHASE - II

DRAWING TITLE : ELEVATION

DWG. NO.-  
EMRS NAME/BH/PHASE-2/AR\_03



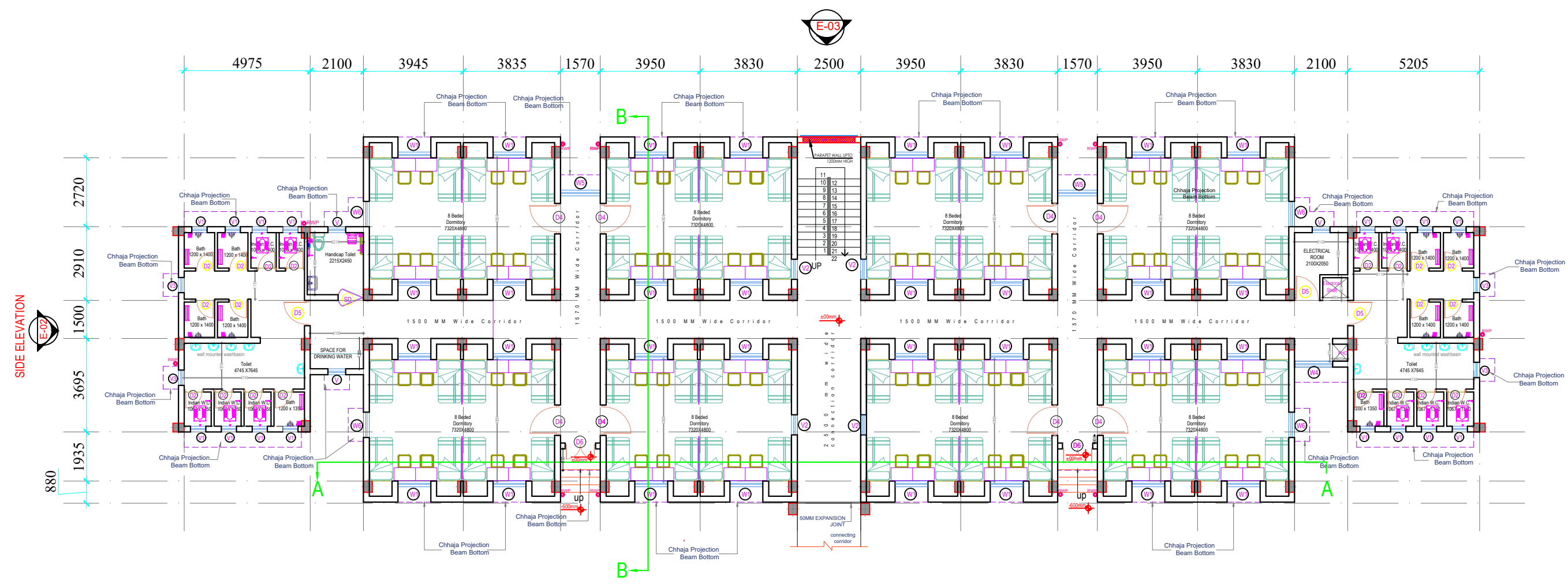
*Palkesh*  
*pk Anwarul*  
*N.K. KUMAR*  
*Leony (PK Gang)*

*A.P. Keshri*  
**A D P Keshri**  
**Chief Engineer & Consultant**

CATEGORY : BOYS HOSTEL PHASE - II

DRAWING TITLE : SECTION AA/BB

DWG. NO.-  
EMRS NAME/BH/PHASE-2/AR\_04



SIDE ELEVATION  
E-02

E-03

AREA STATEMENT	
GIRLS HOSTEL BUILDING (PHASE - II)	
DETAILS	AREA (in Sqm)
<b>MAIN BUILDING</b>	
GROUND FLOOR PLINTH AREA	584.81
FIRST FLOOR PLINTH AREA	573.56
<b>TOTAL AREA</b>	<b>1158.37</b>
<b>TOTAL COVERED AREA</b>	<b>1158.37</b>

Main Entry  
  
 FRONT ELEVATION  
**GROUND FLOOR PLAN ±00mm**

- |    |  |
|----|--|
| 01 | Total no. of Dormitories = 6 No.       |
| 02 | NO. of Bed In Each Dormitories = 8 No. |
| 03 | Total No. of Bed = 48 No. of Bed       |

DOOR SCHEDULE								
S N	TYPE	SIZE	SILL HT (MM)	LIN. HT (MM)	GF (NO.)	FF (NO.)	TF (NO.)	Total (NO.)
2	D2	750 X 2100	0	2100				
3	D3	900 X 2100	0	2100				
4	D4	1200 X 2100	0	2100				
5	D5	1000 X 2100	0	2100				
6	D6	1200 X 2100	0	2100				
7	D7	900 X 2100	0	2100				
8	D8	1500 X 2100	0	2100				
9	SD	1000 X 2100	0	2100				

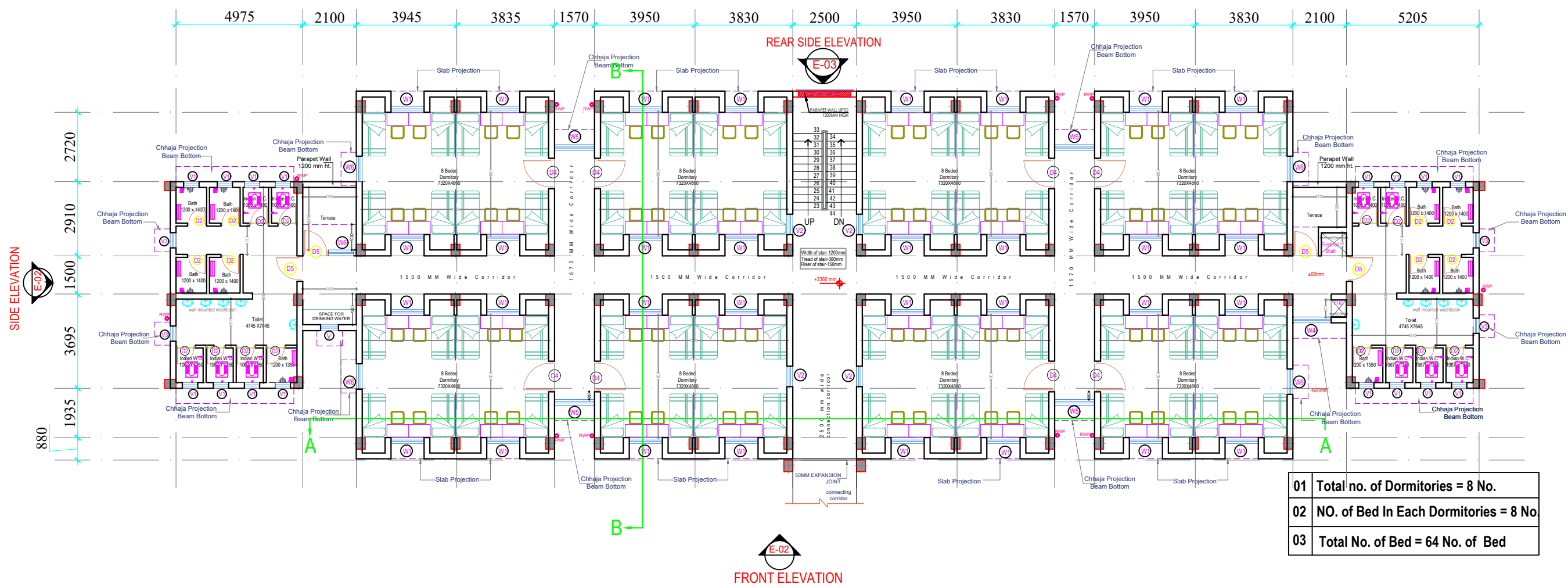
SPECIFICATION OF WINDOW	
FRAME	SHUTTER
Frame of doors shall consist of T-iron frames 40 x 40 x 6 mm with 15 x 3 mm lugs 100 mm long embedded in wall with the help of CC block of mix 1:3:6	Entrance door shall be provided with powder coated Aluminium Glazed Door with Collapsible Door .
	Wash Area & Toilet shall have 35mm thick & shall be Factory made machine pressed pre -laminated Flush Door Shutter of exterior grade in single leaf.
	Hostel will have 35mm thick Non decorative Flush Door in single leaf including teak wood edge lipping except wash area with rubber floor door stoppers and synthetic enamel paints on both sides>The door closer in Warden office.

WINDOW SCHEDULE								
S N	TYPE	SIZE	SILL HT (MM)	LIN. HT (MM)	GF (NO.)	FF (NO.)	TF (NO.)	Total (NO.)
1	W1	1300 X 1800	1050	2850				
3	W4	1500 X 1800	1050	2850				
4	W5	1570 X 1800	1050	2850				
5	W6	1000 X 1800	1050	2850				
6	V	700 X 600	2250	2850				
7	V1	600 X 600	2250	2850				
8	V2	800 X 600	2250	2850				
9	V3	600 X 1200	1650	2850				

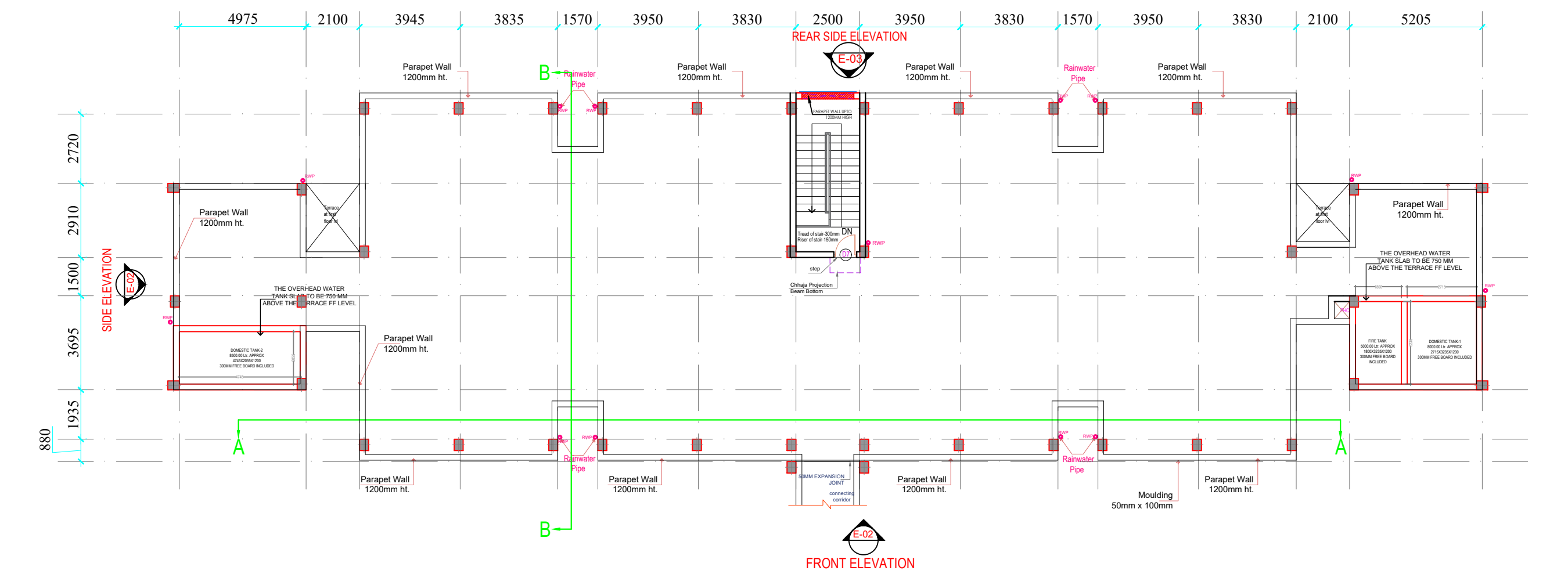
  

SPECIFICATION OF WINDOW	
FRAME	SHUTTER
Steel glazed/gauzed windows and ventilator frame & shutters shall be factory made ISI marked with Z-section with MS grills with 12 mm square bars @ 100mm c/c	Window & Ventilator except toilet portion shall be plain glass panels .The Window shall be fixed and rest part openable Shutters.
	The glazed window Shutter shall be open outside and the mesh Shutter shall be open inside .Toilet portion window & Ventilator shall be with frosted glass panels.The window shall be fitted with the required fixtures like stays and fasteners.

*Palkesh*  
*pk Agrawal*  
*(N.KUMAR)*  
*Leony (PK Gang)*  
  
**A D P Keshri**  
**Chief Engineer & Consultant**



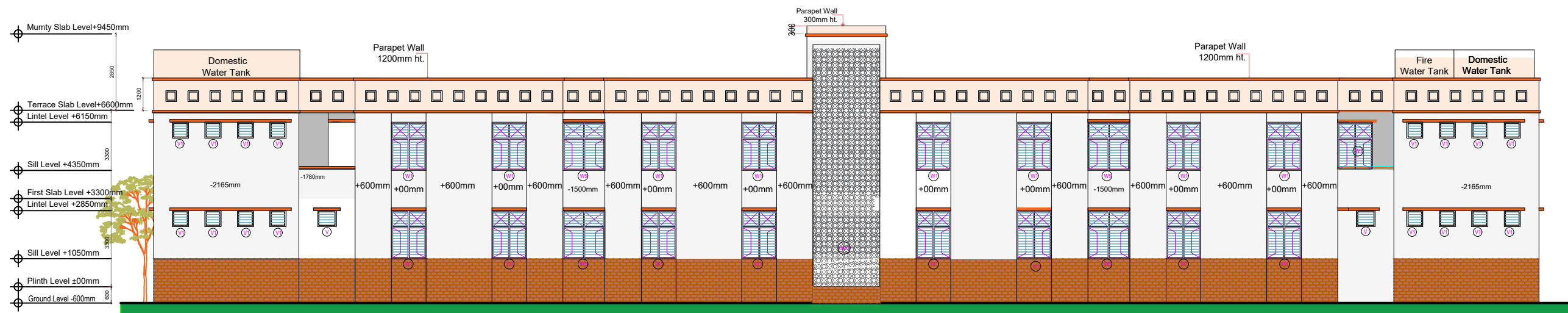
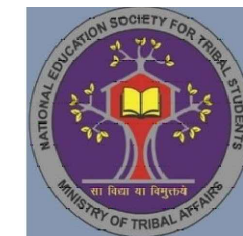
FIRST FLOOR PLAN +3300mm



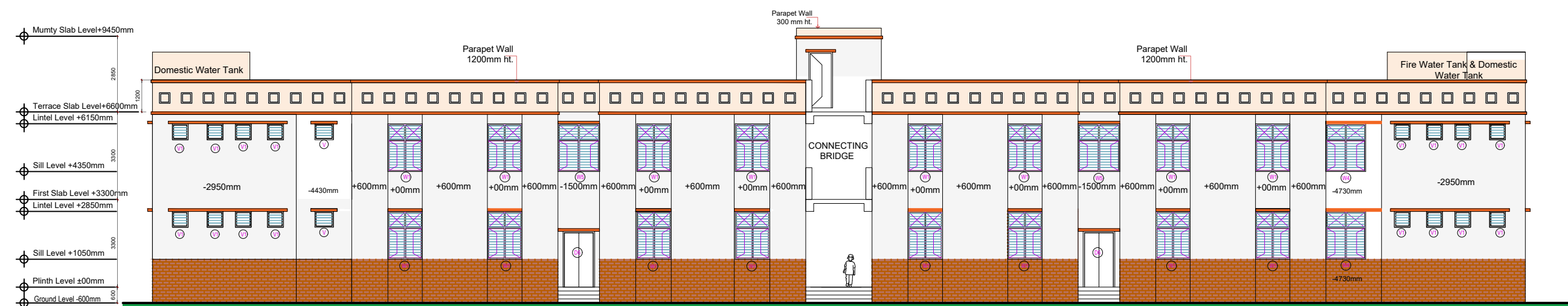
TERRACE FLOOR PLAN +6600 mm

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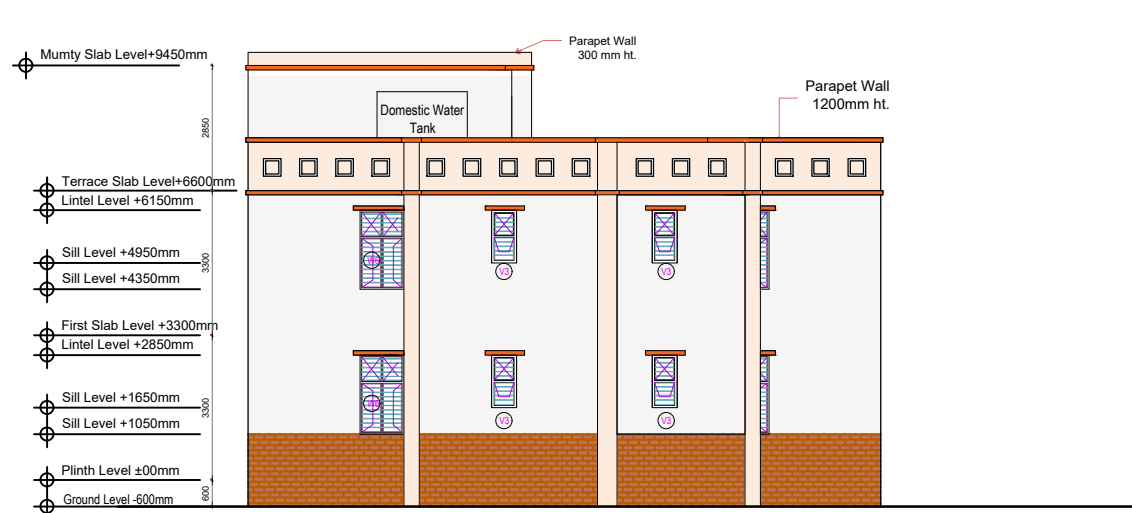




FRONT ELEVATION E-02



FRONT SIDE ELEVATION E-01



SIDE ELEVATION E-02

- Cladding Work
- premier acrylic smooth paints
- premier acrylic smooth paints
- premier acrylic smooth paints
- GRC Jali as per Approved design

SPECIFICATIONS		
<ul style="list-style-type: none"> <li>External Finishing: External Surface shall be provided with cladding upto Sill level in front and side &amp; Rear Side elevation and rest portion shall be provided with 18 mm thick plaster. The external surface shall be provided with premier acrylic smooth paints with silicon additives.</li> </ul>	<p>Internal Finishing:</p> <p>Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper(ready-mix)</p>	<p>All wood work &amp; steel work shall be provided with synthetic enamel paint of the approved brand.</p>

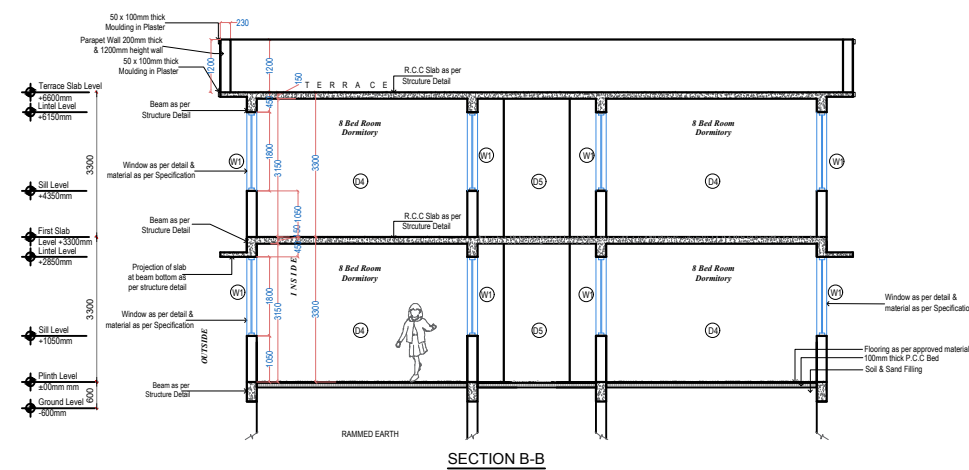
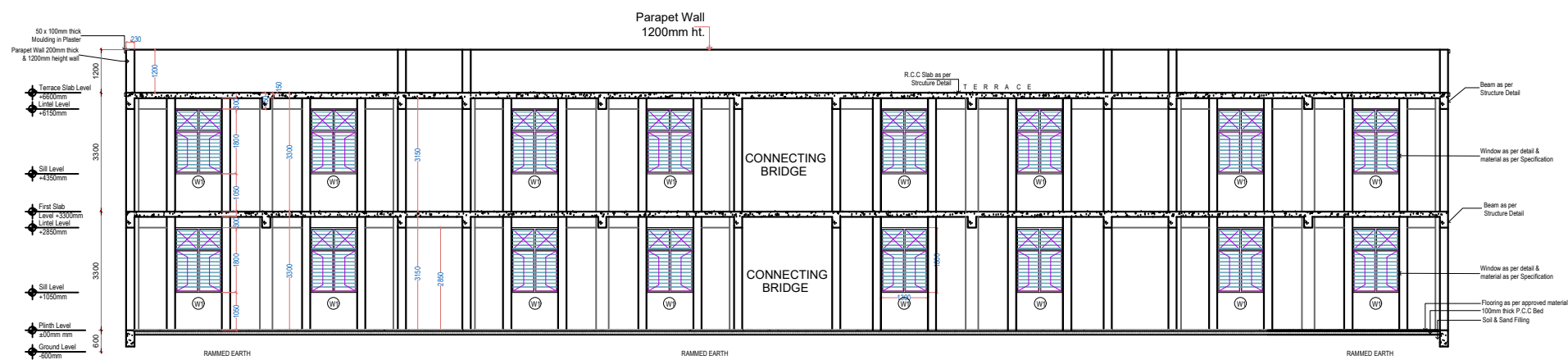
*Pallesh*  
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*A D P Keshri*  
**A D P Keshri**  
Chief Engineer & Consultant

CATEGORY : GIRLS HOSTEL PHASE - II

DRAWING TITLE : ELEVATION

DWG. NO.-  
EMRS NAME/GH/PHASE-2/AR\_03



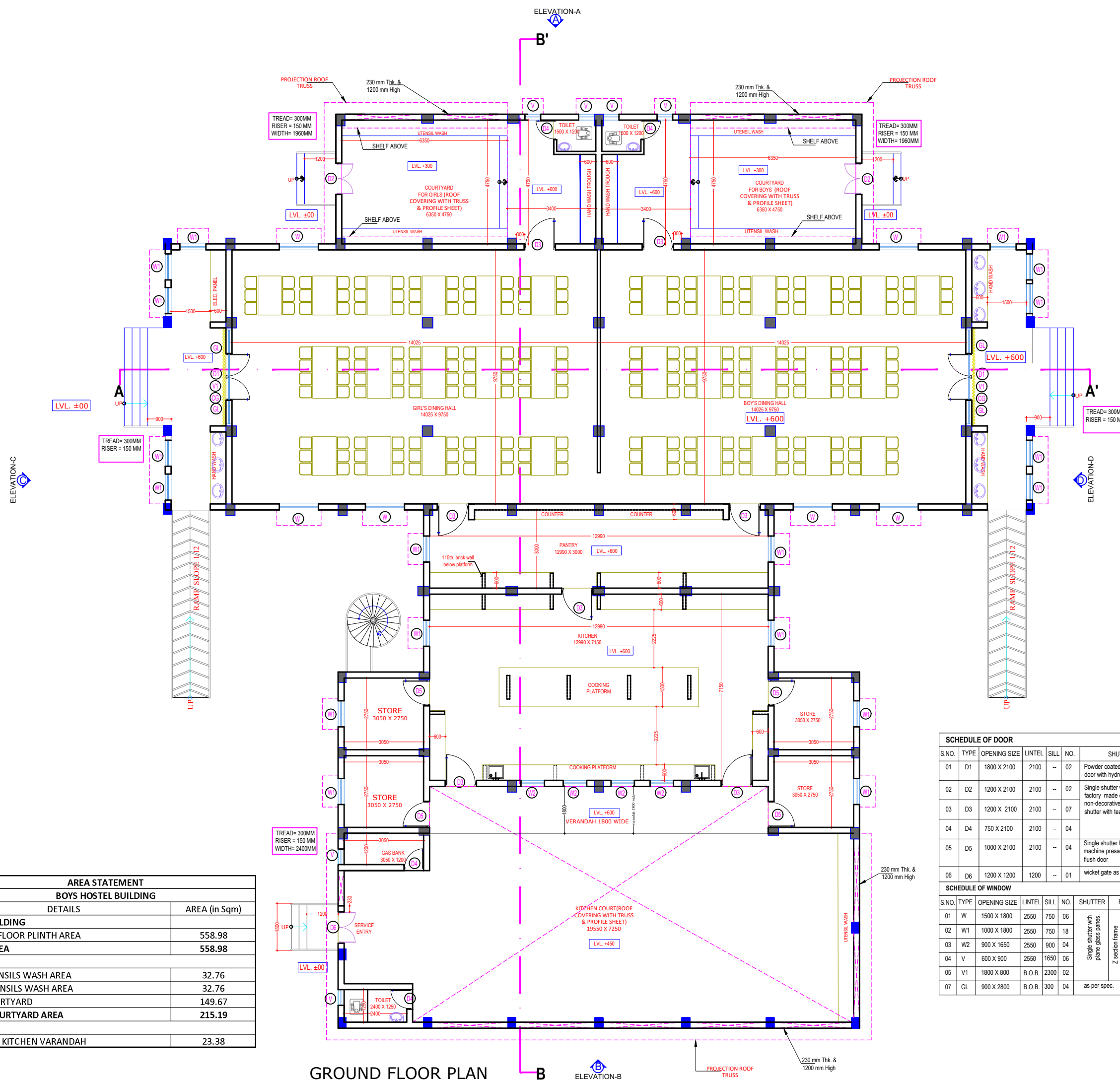
*Palkesh*  
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*N.K. (N.KUMAR)*  
*Leany (PK Gang)*

*A.P. Keshri*  
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CATEGORY : GIRLS HOSTEL PHASE - II

DRAWING TITLE : SECTION AA/BB

DWG. NO.-  
EMRS NAME/GH/PHASE-2/AR\_04



GROUND FLOOR PLAN

AREA STATEMENT	
BOYS HOSTEL BUILDING	
DETAILS	AREA (in Sqm)
<b>MAIN BUILDING</b>	
GROUND FLOOR PLINTH AREA	558.98
<b>TOTAL AREA</b>	<b>558.98</b>
BOYS UTENSILS WASH AREA	32.76
GIRLS UTENSILS WASH AREA	32.76
REAR COURTYARD	149.67
<b>TOTAL COURTYARD AREA</b>	<b>215.19</b>
REAR SIDE KITCHEN VARANDAH	23.38

SCHEDULE OF DOOR								
S.NO.	TYPE	OPENING SIZE	LINTEL	SILL	NO.	SHUTTER	FRAME	HARDWARE
01	D1	1800 X 2100	2100	--	02	Powder coated glazed aluminium door with hydrolic door clouser		
02	D2	1200 X 2100	2100	--	02	Single shutter with 35mm thick factory made exterior grade non-decorative type flush door shutter with teakwood lipping	T-iron Frame of 40x40x6 mm with 15x3 mm lugs 10 cm long embedded in cement conc. blocks.	powder coated / anodized aluminium / ss fittings
03	D3	1200 X 2100	2100	--	07			
04	D4	750 X 2100	2100	--	04			
05	D5	1000 X 2100	2100	--	04	Single shutter factory made machine pressed pre-laminated flush door		
06	D6	1200 X 1200	1200	--	01	wicket gate as per spec.		

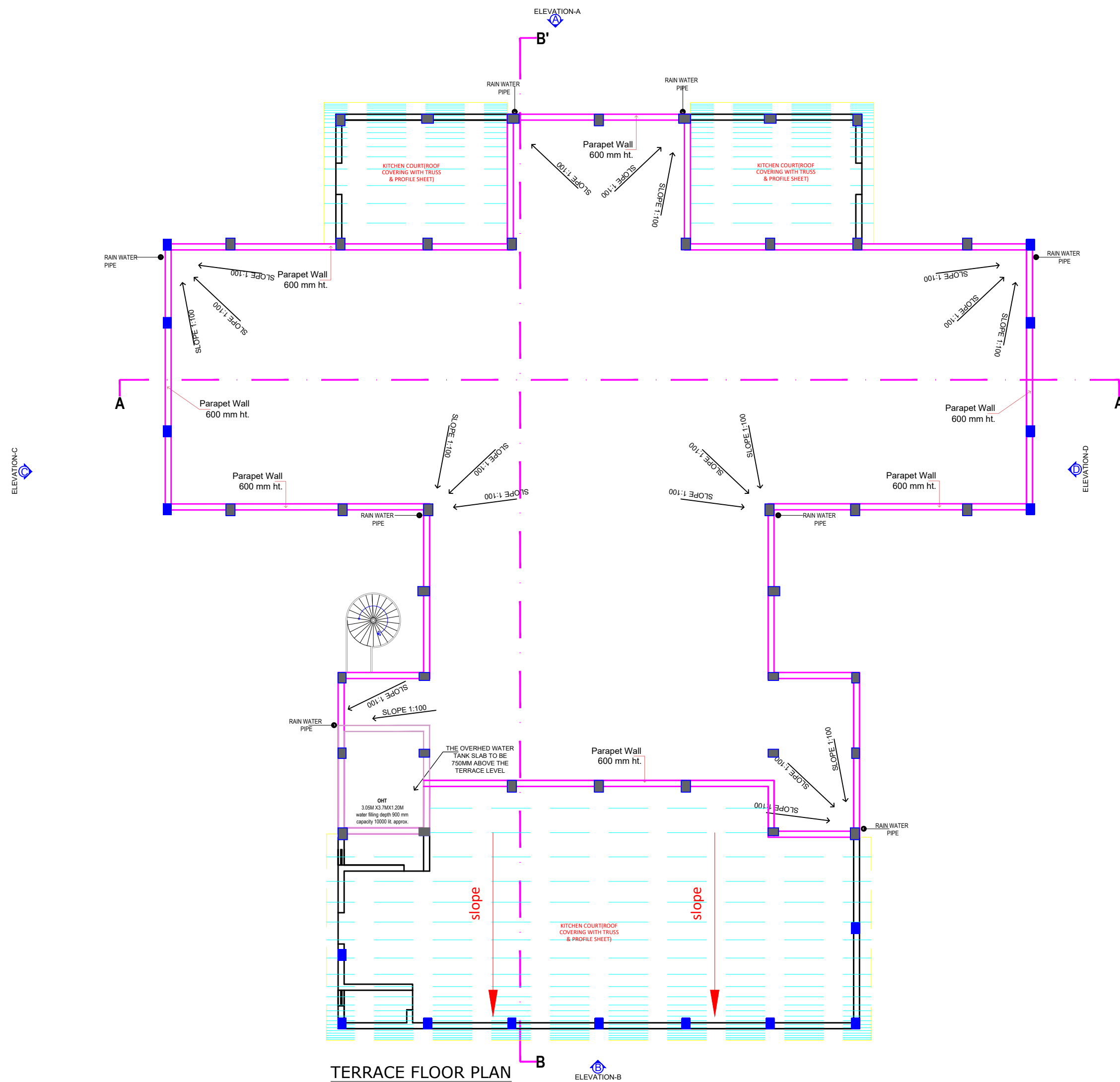
  

SCHEDULE OF WINDOW									
S.NO.	TYPE	OPENING SIZE	LINTEL	SILL	NO.	SHUTTER	FRAME	WINDOW GRILL	HARDWARE
01	W	1500 X 1800	2550	750	06				
02	W1	1000 X 1800	2550	750	18				
03	W2	900 X 1650	2550	900	04				
04	V	600 X 900	2550	1650	06	Single shutter with plane glass panes.	Z section frame with 15x3 mm lugs 10 cm long embedded in cement conc. blocks.	All frames are provided with 12mm square bars at 120 mm c/c	powder coated / anodized aluminium / ss fittings
05	V1	1800 X 800	B.O.B.	2300	02				
07	GL	900 X 2800	B.O.B.	300	04	as per spec.			

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CATEGORY : KITCHEN & DINING BLOCK  
 DRAWING TITLE : GROUND FLOOR PLAN  
 DWG. NO.- EMRS NAME/K&D/AR\_01

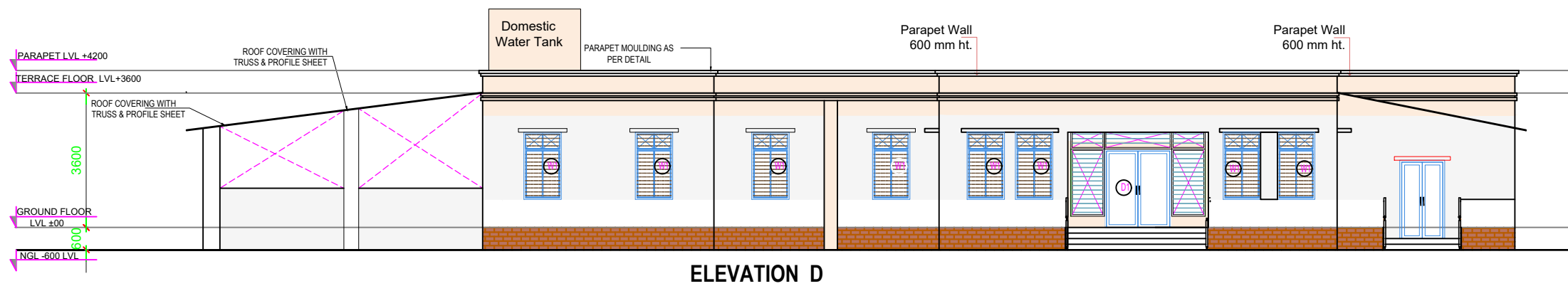
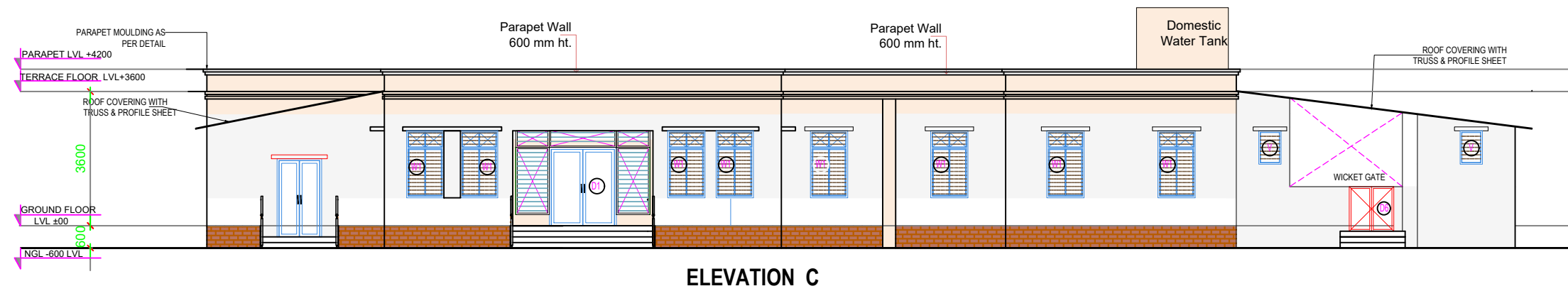
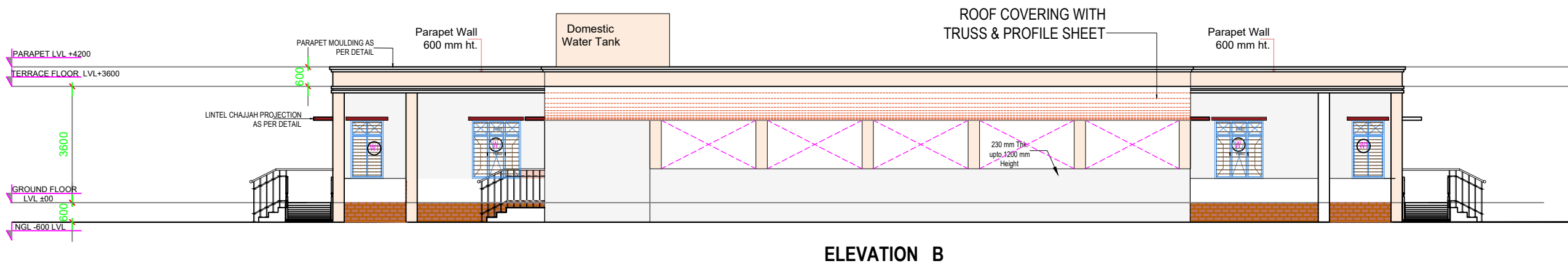
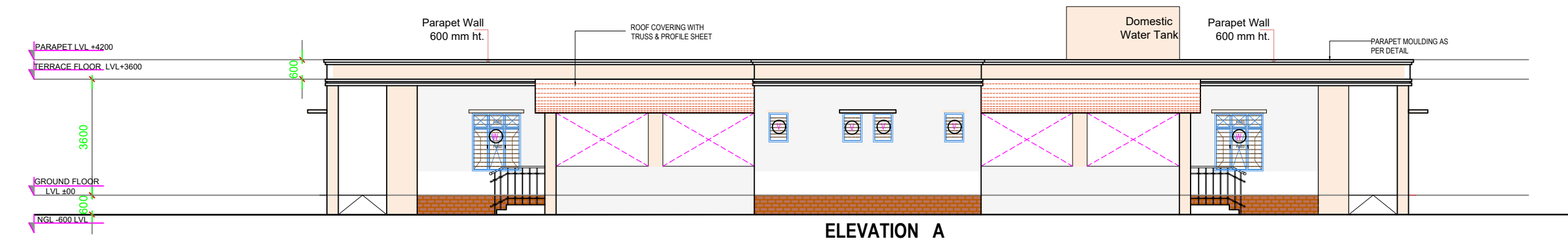
GOVT OF INDIA  
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SOCIETY FOR TRIBAL STUDENTS



TERRACE FLOOR PLAN

CATEGORY : KITCHEN & DINING BLOCK  
DRAWING TITLE : TERRACE FLOOR PLAN  
DWG. NO.-  
EMRS NAME/K&D/AR\_02

*Pallesh*  
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*Leany (Dr. Geang)*  
*ADP Keshri*  
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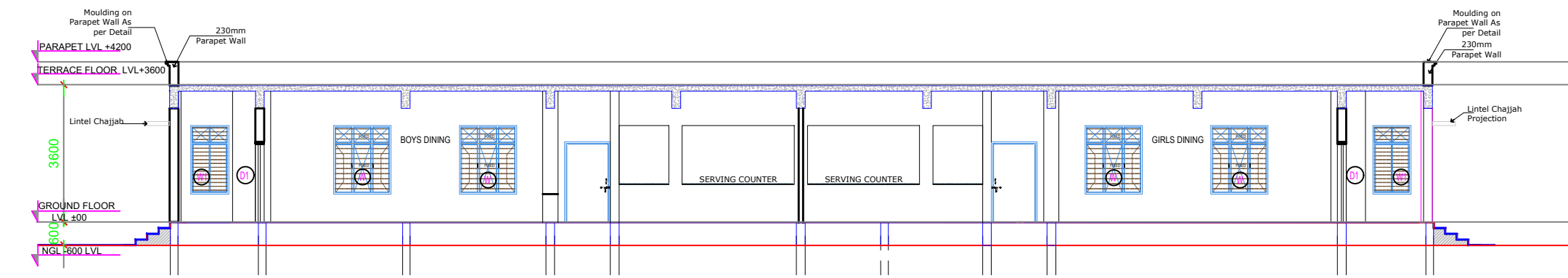


*Pallesh*  
*pk Aggarwal*  
*(N. KUMAR)*  
*Leany (PK Aggarwal)*  
*A. P. Keshri*  
**A D P Keshri**  
**Chief Engineer & Consultant**

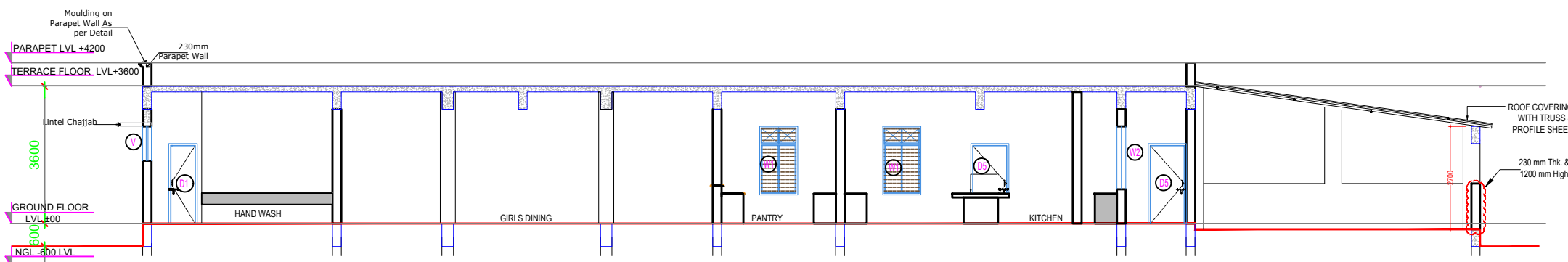
CATEGORY : KITCHEN & DINING BLOCK

DRAWING TITLE : ELEVATION AA/BB/CC/DD

DWG. NO.- EMRS NAME/K&D/AR\_03



SECTION - AA



SECTION - BB

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*A P Keshri*  
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CATEGORY : KITCHEN & DINING BLOCK

DRAWING TITLE : SECTION AA/BB

DWG. NO.-  
EMRS NAME/K&D/AR\_04

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SCHEDULE OF DOORS & WINDOWS

S.NO	TYPE	OPENING SIZE	SILL FROM F.F.L.	UNTEL. FROM F.F.L.	SPECIFICATION
<b>DOORS</b>					
1.	D1	900 X 2100	00	-2100	SINGLE SHUTTER FLOOR DOOR
2.	D2	750 X 2100	00	-2100	SINGLE SHUTTER FLOOR DOOR
<b>WINDOWS</b>					
3.	W1	1500 X 1200	900	-2100	MS STEEL GLAZED WINDOW
4.	W2	1000 X 1200	900	-2100	MS STEEL GLAZED WINDOW
5.	W3	800 X 1050	1050	-2100	MS STEEL GLAZED WINDOW
4.	V1	600 X 600	1500	-2100	MS STEEL GLAZED VENTILATOR

AREA STATEMENT  
 WARDEN RESIDENCE

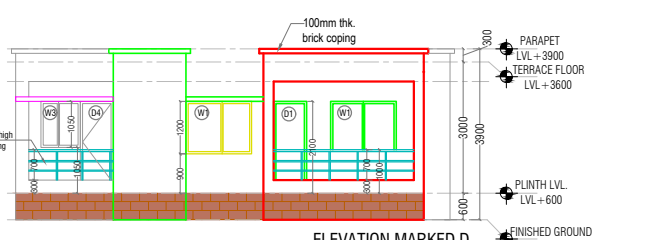
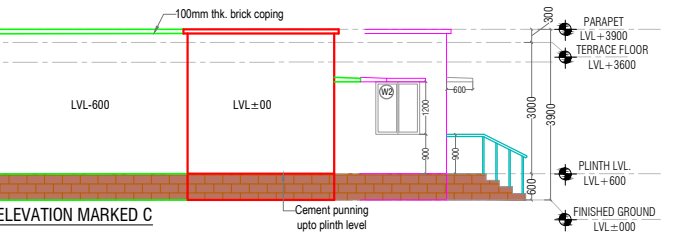
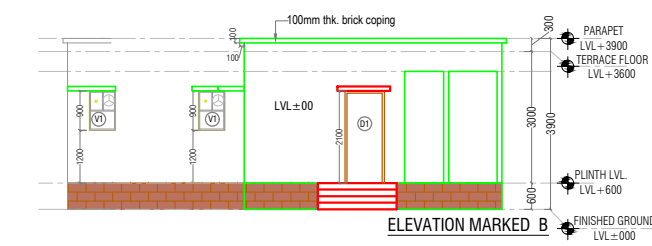
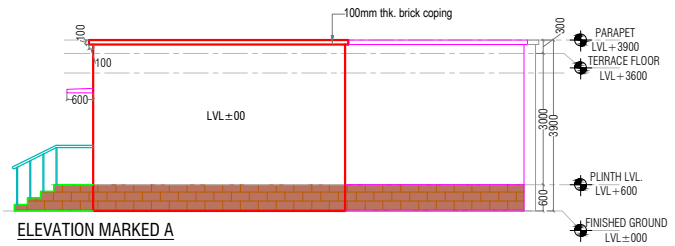
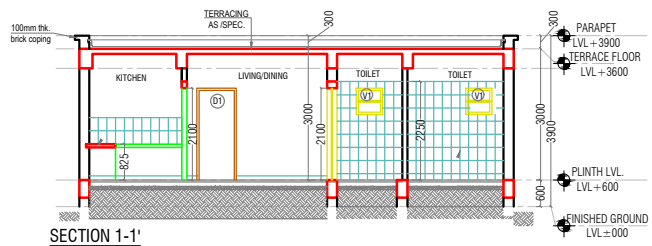
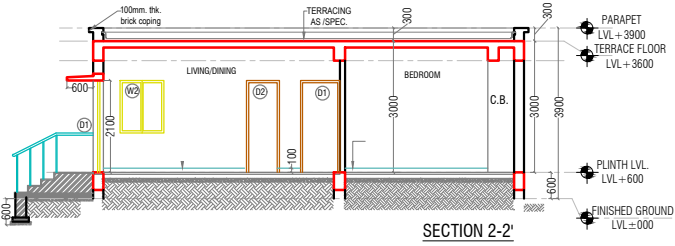
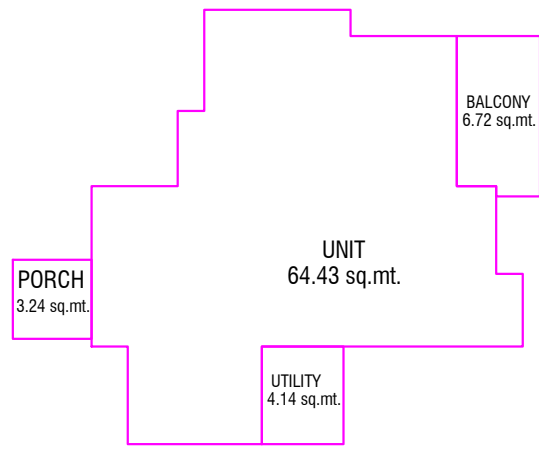
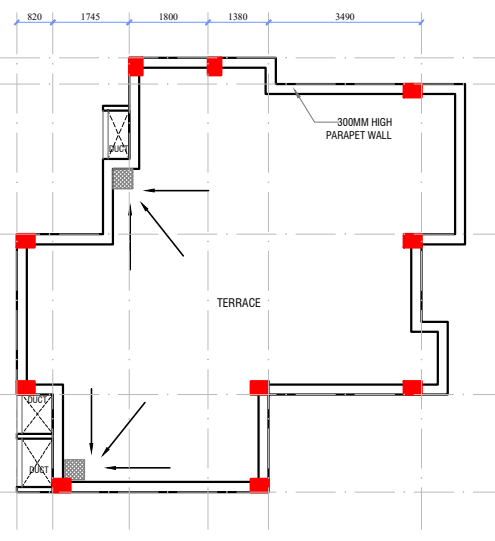
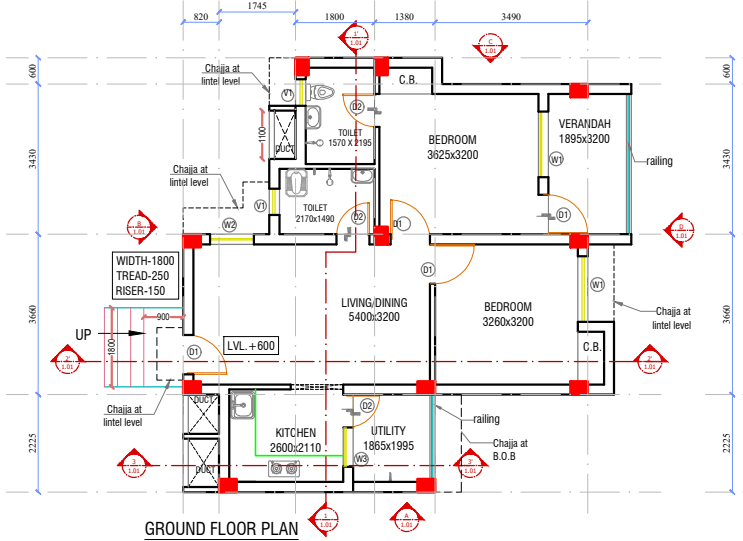
DETAILS	AREA (in Sq.m)
<b>MAIN UNIT</b>	
ONE UNIT AREA	64.43
BALCONY AREA	6.72
UTILITY AREA	4.14
<b>TOTAL UNIT AREA</b>	<b>75.29</b>
<b>PORCH AREA</b>	
AREA OF PORCH / 2	1.62
<b>TOTAL COVERED AREA</b>	<b>76.1</b>

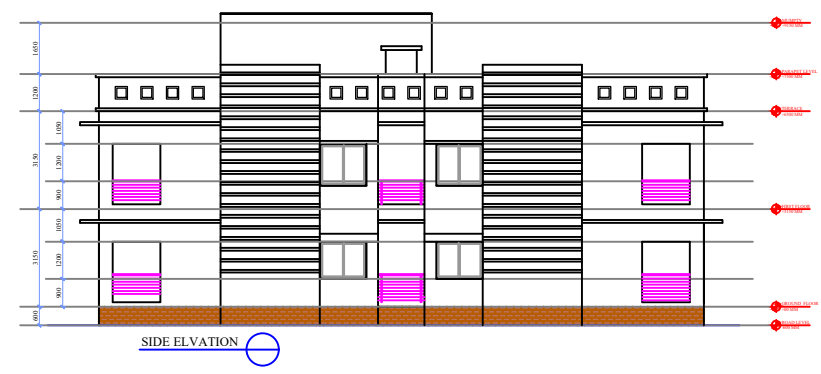
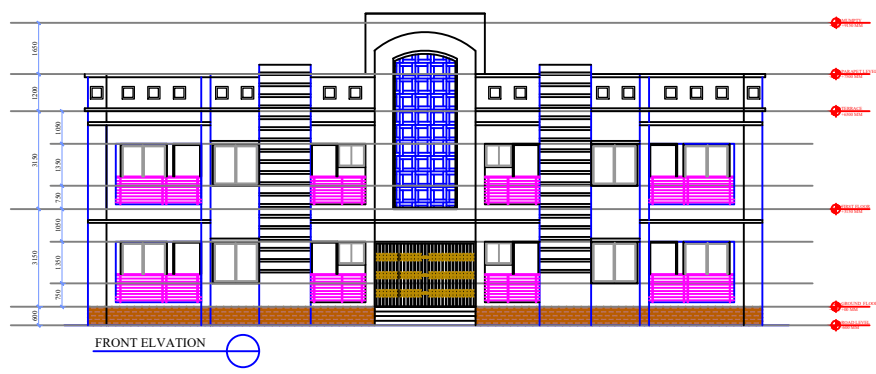
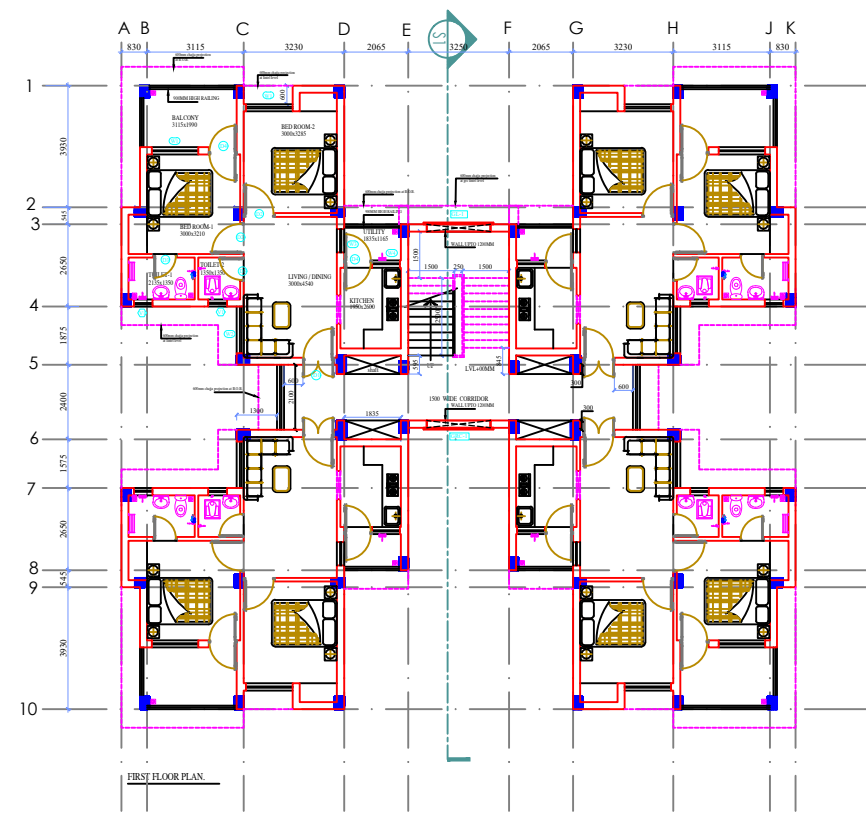
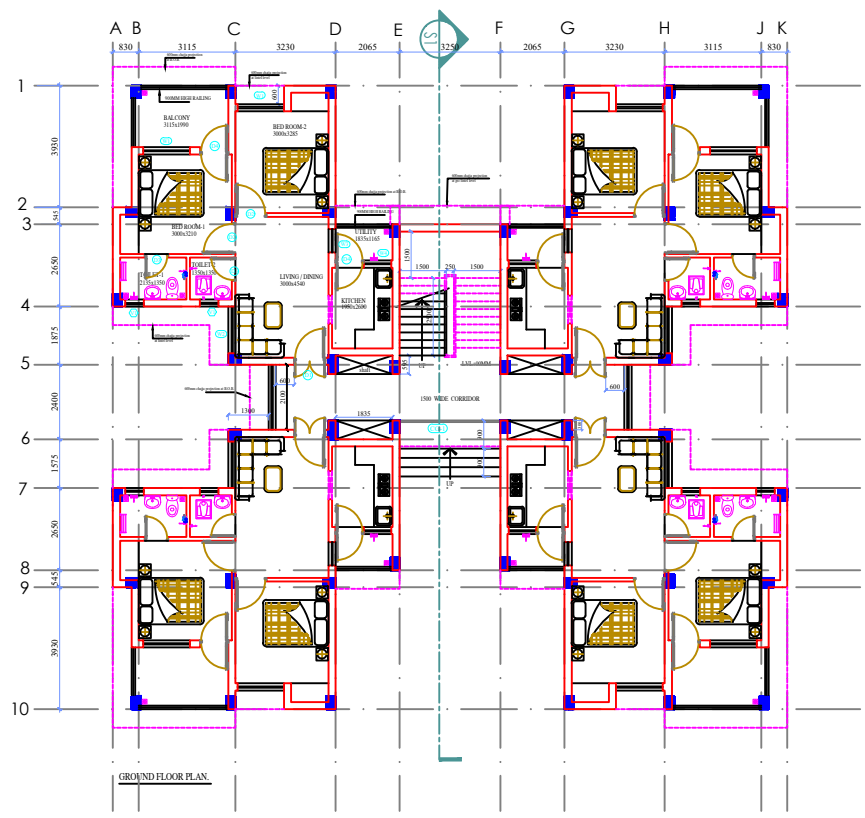
*Palkesh*  
*pk Agrawal*  
*(N.K.UMAR)*  
*Leany (PK Ganga)*  
*A.P. Keshri*  
**A D P Keshri**  
**Chief Engineer & Consultant**

CATEGORY : WARDEN RESIDENCE

DRAWING TITLE : FLOOR PLAN, ELEVATION, SECTION

DWG. NO. - EMRS NAME/WR/AR\_01



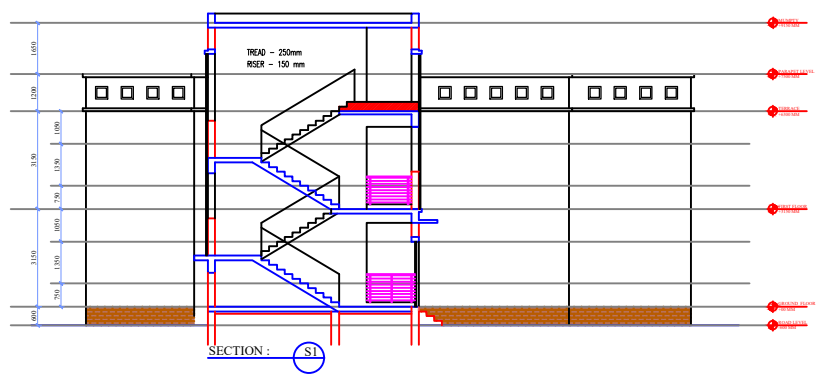
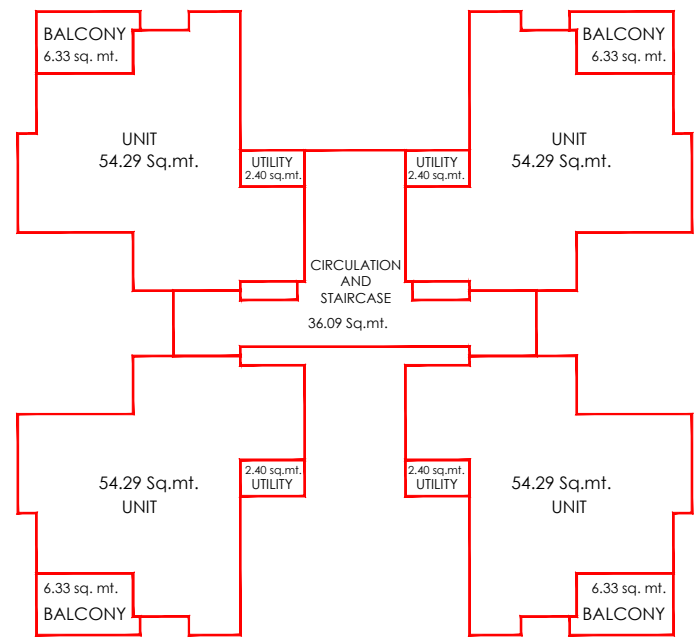
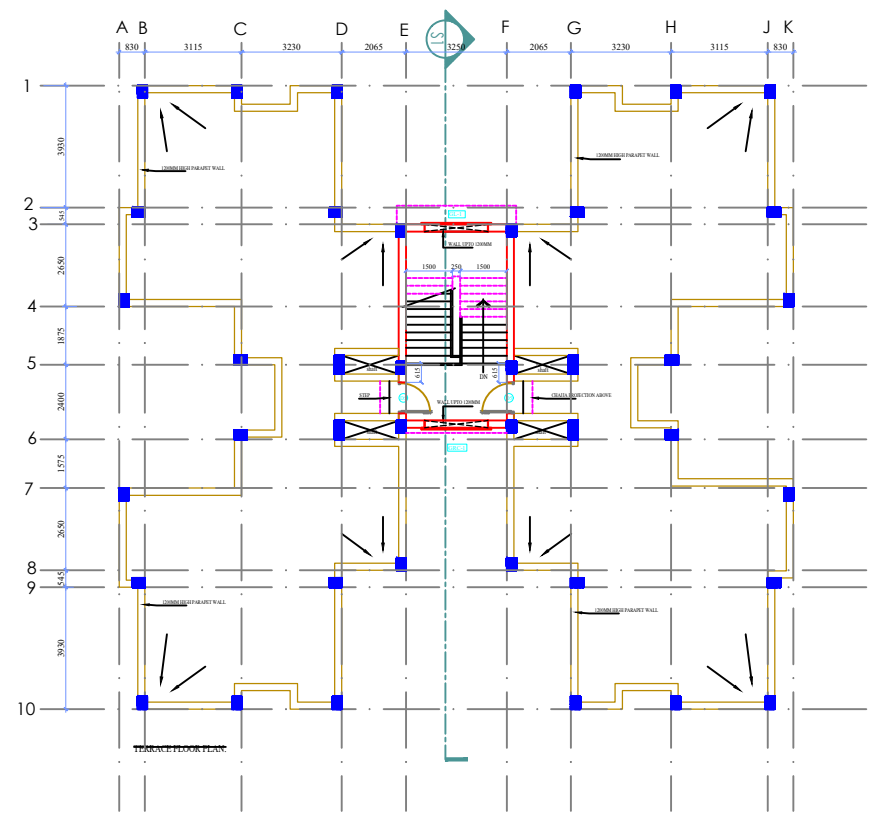


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*(N. K. Kumar)*  
*Leamy (PK Ganga)*

*A D P Keshri*  
 A D P Keshri  
 Chief Engineer & Consultant

CATEGORY : TYPE II QUARTER  
 DRAWING TITLE : FLOOR PLAN, ELEVATION  
 DWG. NO. - EMRS NAME/TYPE-II/AR\_01





AREA STATEMENT	
UNIT TYPE-2 (G-3)	
TOTAL NOS. OF UNIT'S	
DETAILS	AREA (in Sq.m)
<b>MAIN UNIT</b>	
ONE UNIT AREA	54.29
BALCONY AREA (AREA / 2)	3.17
UTILITY AREA	2.40
<b>TOTAL UNIT AREA</b>	<b>59.86</b>
CIRCULATION & STAIRCASE ONE UNIT ONE FLOOR	9.02
CIRCULATION & STAIRCASE ONE FLOOR	36.09
ONE FLOOR 4 UNIT	275.51
TOTAL COVERED AREA G.F.	278.436
TOTAL COVERED AREA L.F.	275.51
<b>TOTAL COVERED AREA</b>	<b>553.946</b>

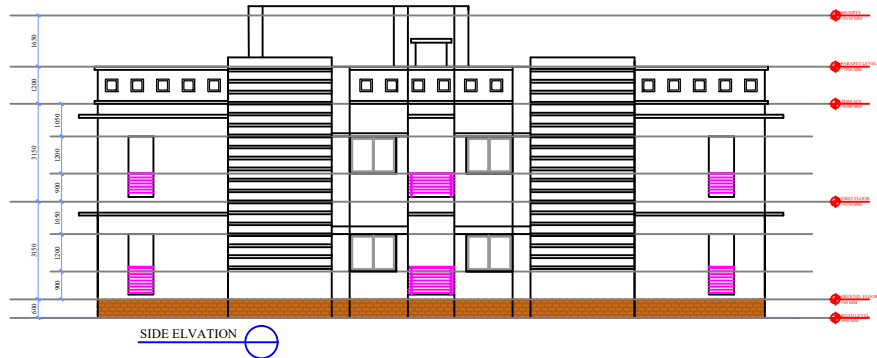
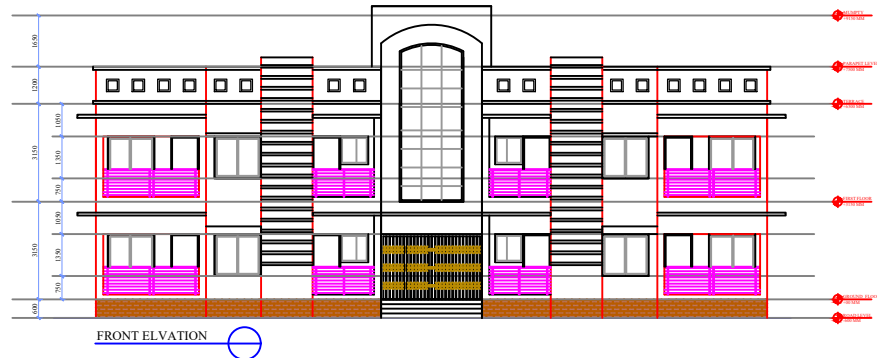
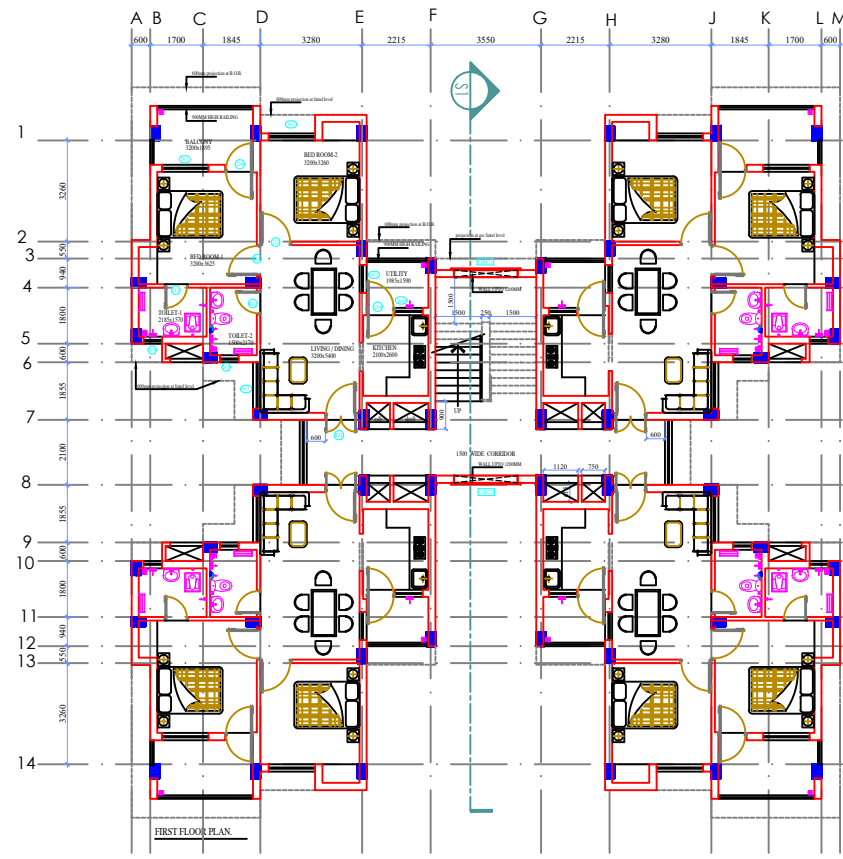
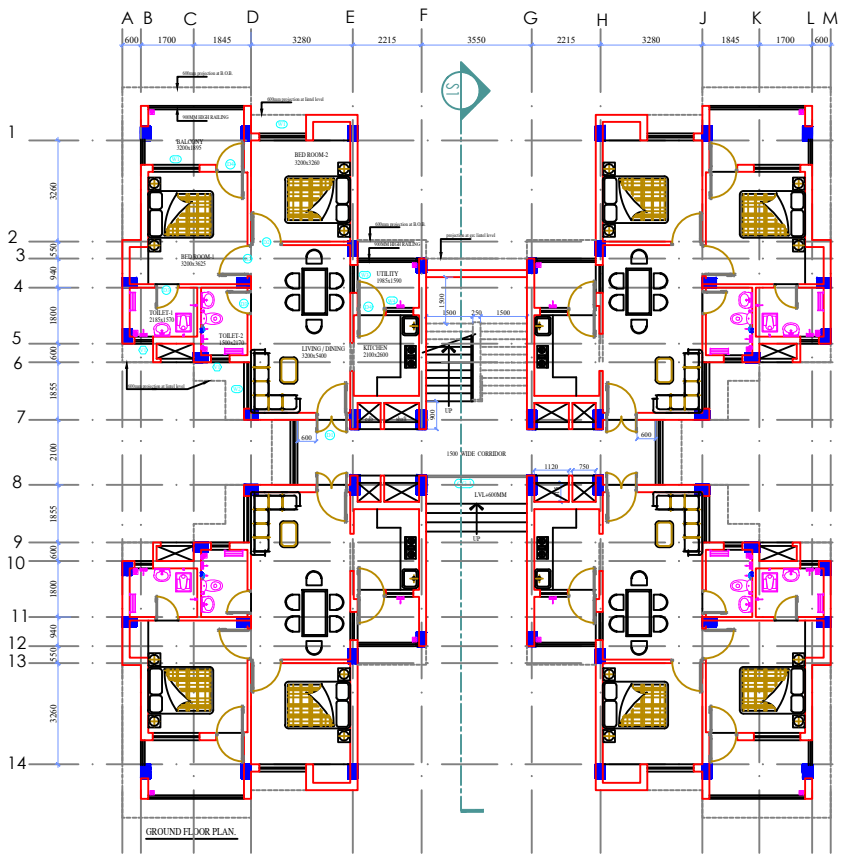
DOOR, WINDOW, VENT LATOR, FIXED GLAZING, GRILL SCHEDULE FOR 4 UNIT										
TAG	CLEAR OPENING SIZE	SILL	L INTEL	GF	FF	MUMTY	TOTAL	LOCATION	MATERIAL	COMMENTS
D1	1000 X 2100	0	2100	4	4		8	MAIN ENTRANCE DOOR	FLUSH DOOR WITH WIRE MESH	DOUBLE LEAF
D2	1000 X 2100	0	2100	8	8		16	BEDROOM DOOR	FLUSH DOOR	SINGLE LEAF
D3	750 X 2100	0	2100	8	8		16	TOILET DOOR	PRELAMINATED DOOR	SINGLE LEAF
D4	900 X 2100	0	2100	8	8		16	UTILITY, BALCOONY	PRELAMINATED DOOR WITH WIRE MESH	SINGLE LEAF
D5	1000 X 2100	0	2100			2	2	TERRACE DOOR	FLUSH DOOR	SINGLE LEAF
CG-1	3250 X 2100	0	2100	1			1	BLOCK FRONT ENTRY GATE	STANDARD STEEL SECTION	COLLAPSIBLE GATE
W1	1500 X 1850	750	2100	8	8		16	BEDROOM-1, BEDROOM-2	STANDARD STEEL SECTION	
W2	1500 X 1200	900	2100	4	4		8	LIVING / DINING HALL	STANDARD STEEL SECTION	
W3	900 X 1200	900	2100	4	4		8	LIVING / DINING HALL	STANDARD STEEL SECTION	
W4	900 X 1050	1050	2100	4	4		8	KITCHEN	STANDARD STEEL SECTION	
V1	600 X 1200	1200	2400	8	8		16	TOILET	STANDARD STEEL SECTION	

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**Chief Engineer & Consultant**

CATEGORY: TYPE II QUARTER

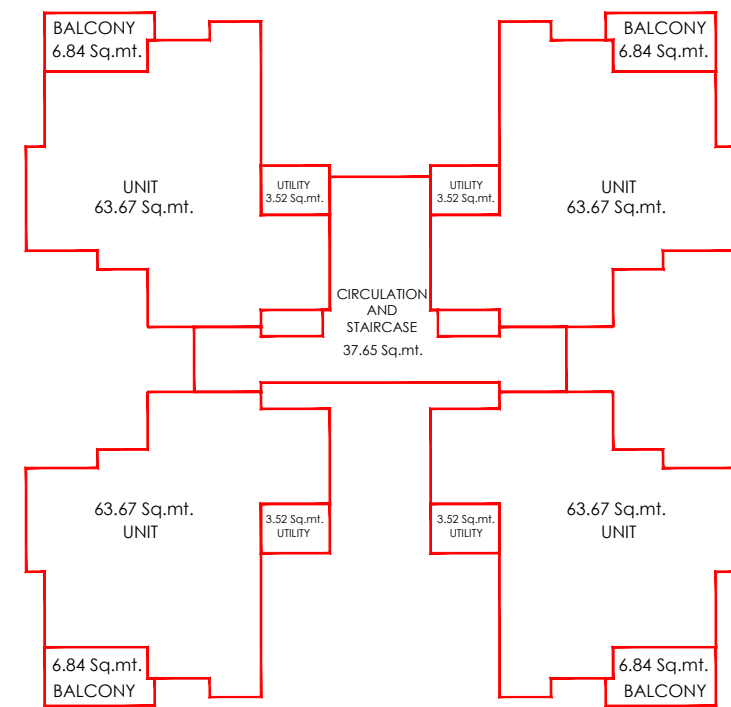
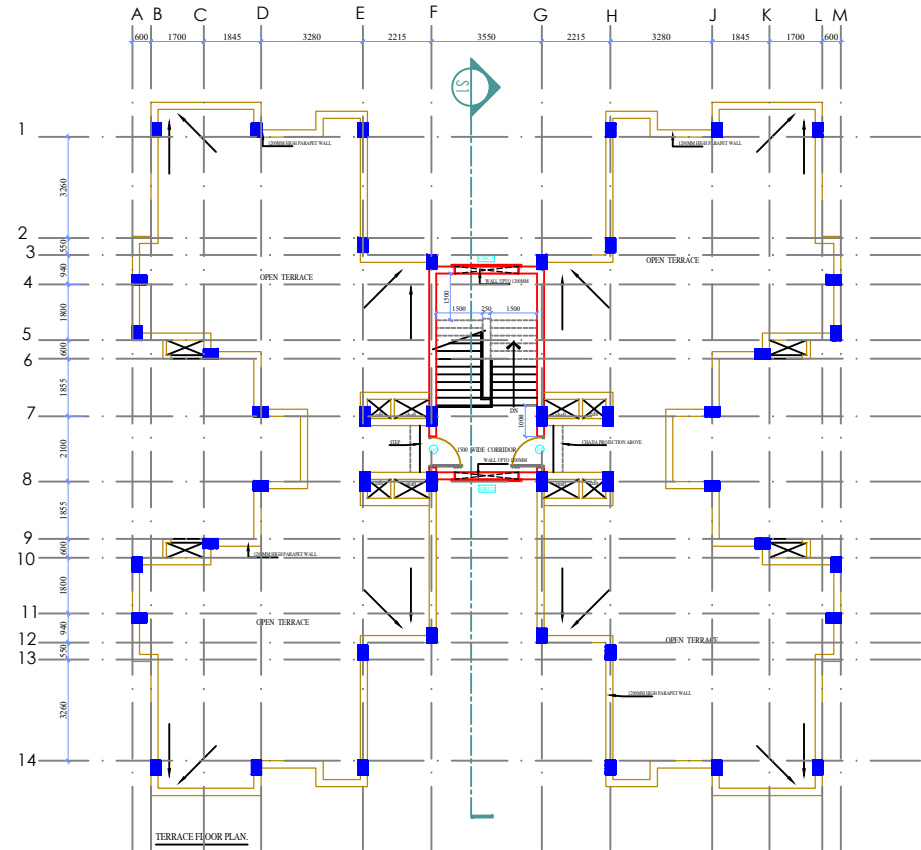
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DWG. NO.- EMRS NAME/TYPE-II/AR\_02

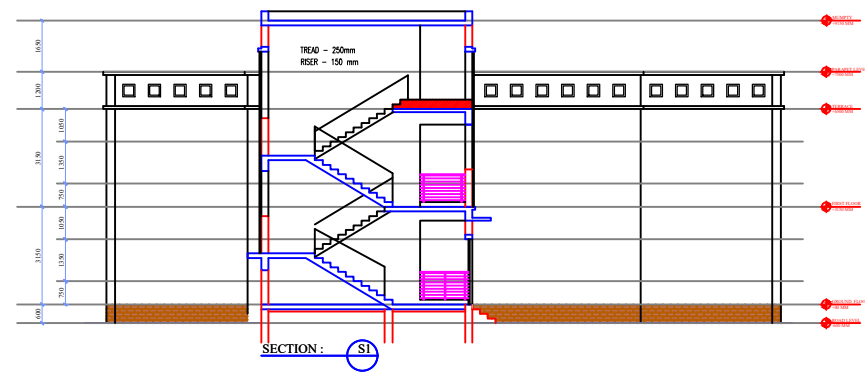


*Pankaj*  
*pk Anurad*  
*N.K. (N. Kumar)*  
*Leony (PK Gang)*  
*A D P Keshri*  
 A D P Keshri  
 Chief Engineer & Consultant

CATEGORY: TYPE III QUARTER  
 DRAWING TITLE: FLOOR PLAN, SECTION  
 DWG. NO.- EMRS NAME/TYPE-III/AR\_01



AREA STATEMENT	
UNIT TYPE-3 (G+1)	
TOTAL NOS OF UNIT-8	
DETAILS	AREA (In Sqm)
<b>MAIN UNIT</b>	
ONE UNIT AREA	63.67
BALCONY AREA (AREA /2)	3.42
UTILITY AREA	3.52
<b>TOTAL UNIT AREA</b>	<b>70.61</b>
CIRCULATION & STAIRCASE ONE UNIT ONE FLOOR	
CIRCULATION & STAIRCASE ONE FLOOR	37.65
<b>ONE FLOOR 4 UNIT</b>	<b>320.09</b>
<b>TOTAL COVERED AREA G.F.</b>	<b>323.02</b>
<b>TOTAL COVERED AREA F.F.</b>	<b>320.09</b>
<b>TOTAL COVERED AREA</b>	<b>643.11</b>



DOOR, WINDOW, VENTILATOR, FIXED GLAZING, GRILL SCHEDULE FOR 4 UNIT										
TAG	CLEAR OPENING SIZE	SILL	LINTEL	GF	FF	MUMTY	TOTAL	LOCATION	MATERIAL	COMMENTS
D1	1000 X 2100	0	2100	4	4		8	MAN ENTRANCE DOOR	FLUSH DOOR WITH WIRE MESH	DOUBLE LEAF
D2	1000 X 2100	0	2100	8	8		16	BEDROOM DOOR	FLUSH DOOR	SINGLE LEAF
D3	750 X 2100	0	2100	8	8		16	TOILET DOOR	PRELAMINATED DOOR	SINGLE LEAF
D4	900 X 2100	0	2100	8	8		16	UTILITY, BALCOONY	PRELAMINATED DOOR WITH WIRE MESH	SINGLE LEAF
D5	1000 X 2100	0	2100			2	2	TERRACE DOOR	M/S DOOR	SINGLE LEAF
CG-1	3250 X 2100	0	2100	1			1	BLOCK FRONT ENTRY GATE	STANDARD STEEL SECTION	COLLAPSIBLE GATE
W1	1500 X 1350	750	2100	8	8		16	BEDROOM-1, BEDROOM-2	STANDARD STEEL SECTION	
W2	1500 X 1200	900	2100	4	4		8	LIVING / DINING HALL	STANDARD STEEL SECTION	
W3	900 X 1200	900	2100	4	4		8	LIVING / DINING HALL	STANDARD STEEL SECTION	
W4	900 X 1050	1050	2100	4	4		8	KITCHEN	STANDARD STEEL SECTION	
V1	600 X 1200	1200	2400	8	8		16	TOILET	STANDARD STEEL SECTION	

*Palkesh*  
*pk Agrawal*  
*(N. K. KUMAR)*  
*Leony (PK Ganga)*  
*A.P.K.*  
**A D P Keshri**  
 Chief Engineer & Consultant

CATEGORY : TYPE III QUARTER  
 DRAWING TITLE : FLOOR PLAN, SECTION

DWG. NO.-  
 EMRS NAME/TYPE-III/AR\_02

CONSTRUCTION OF SCHOOL BUILDING FOR EKLVAVYA MODEL RESIDENTIAL SCHOOL (EMRS)

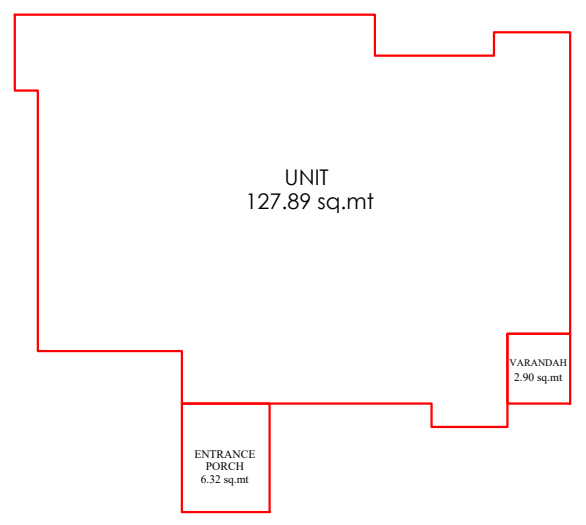
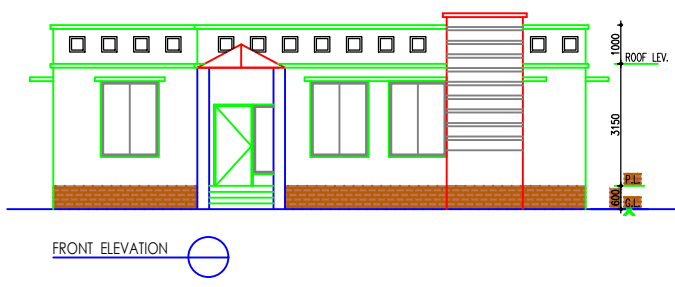
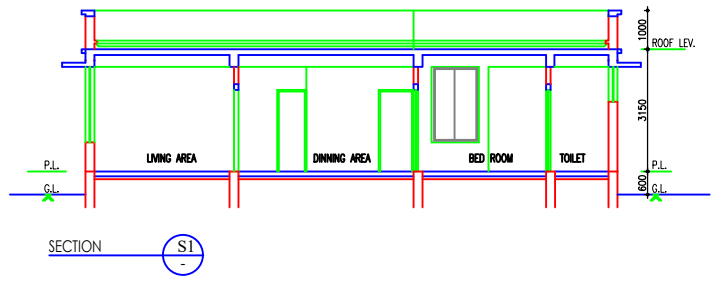
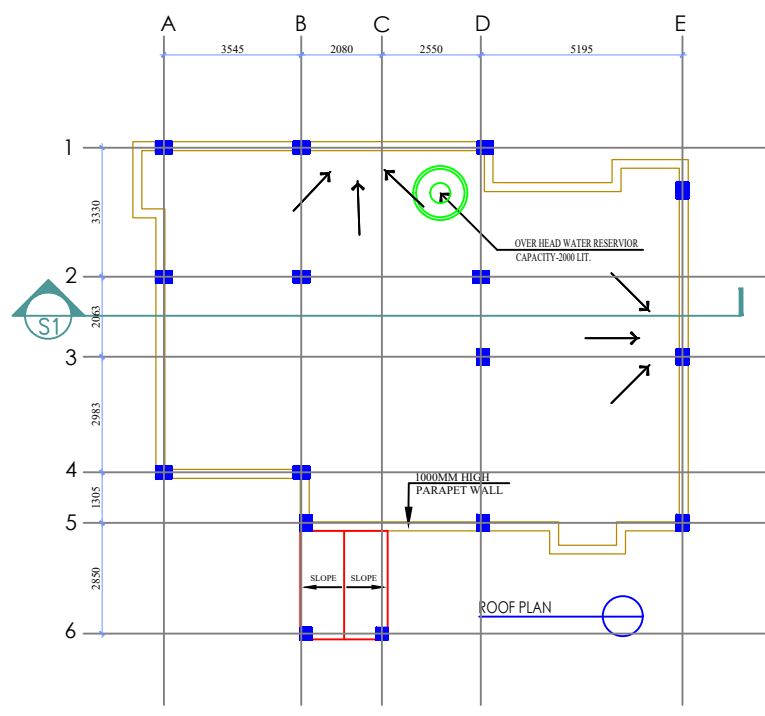
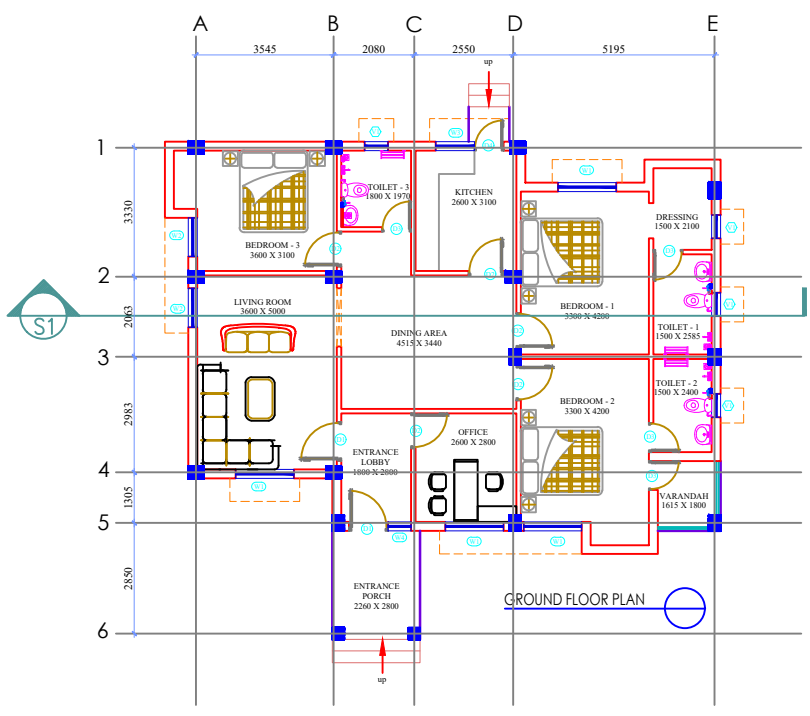
CLIENT -  
GOVT OF INDIA  
MINISTRY OF TRIBAL AFFAIRS  
NATIONAL EDUCATIONAL SOCIETY FOR TRIBAL STUDENTS



Sl. No.	Room	Area (sq. mt)	Material	Remarks	Remarks
01	ENTRANCE PORCH	2260 X 2300	CONCRETE	STANDARD	CONCRETE
02	LIVING ROOM	3600 X 3100	CONCRETE	STANDARD	CONCRETE
03	DINING AREA	4515 X 3440	CONCRETE	STANDARD	CONCRETE
04	KITCHEN	2600 X 3100	CONCRETE	STANDARD	CONCRETE
05	OFFICE	2600 X 2800	CONCRETE	STANDARD	CONCRETE
06	VARANDAH	1615 X 1800	CONCRETE	STANDARD	CONCRETE
07	BEDROOM - 1	3300 X 4200	CONCRETE	STANDARD	CONCRETE
08	BEDROOM - 2	3300 X 4200	CONCRETE	STANDARD	CONCRETE
09	BEDROOM - 3	3600 X 3100	CONCRETE	STANDARD	CONCRETE
10	TOILET - 1	1500 X 2585	CONCRETE	STANDARD	CONCRETE
11	TOILET - 2	1500 X 2400	CONCRETE	STANDARD	CONCRETE
12	TOILET - 3	1000 X 1975	CONCRETE	STANDARD	CONCRETE
13	OVER HEAD WATER RESERVOIR	2000 LIT.	CONCRETE	STANDARD	CONCRETE
14	ENTRANCE LOBBY	1800 X 2000	CONCRETE	STANDARD	CONCRETE
15	DRIVING AREA	2600 X 2800	CONCRETE	STANDARD	CONCRETE
16	DRESSING	1500 X 2100	CONCRETE	STANDARD	CONCRETE

AREA STATEMENT

UNIT TYPE - PRINCIPAL QUARTER	AREA (in Sqm)
TOTAL NOS OF UNIT - 1	
MAIN UNIT	
ONE UNIT AREA	127.89
VARANDAH AREA	2.90
TOTAL UNIT AREA	130.79
ENTRANCE PORCH AREA (AREA/2)	3.16



*Palkesh*  
*pk Agrawal*  
*(N.K.UMAR)*  
*Leamy (PK Leamy)*  
*A.P. Keshri*  
**A D P Keshri**  
Chief Engineer & Consultant

CATEGORY : PRINCIPAL QUARTER

DRAWING TITLE : FLOOR PLAN, ELEVATION, SECTION

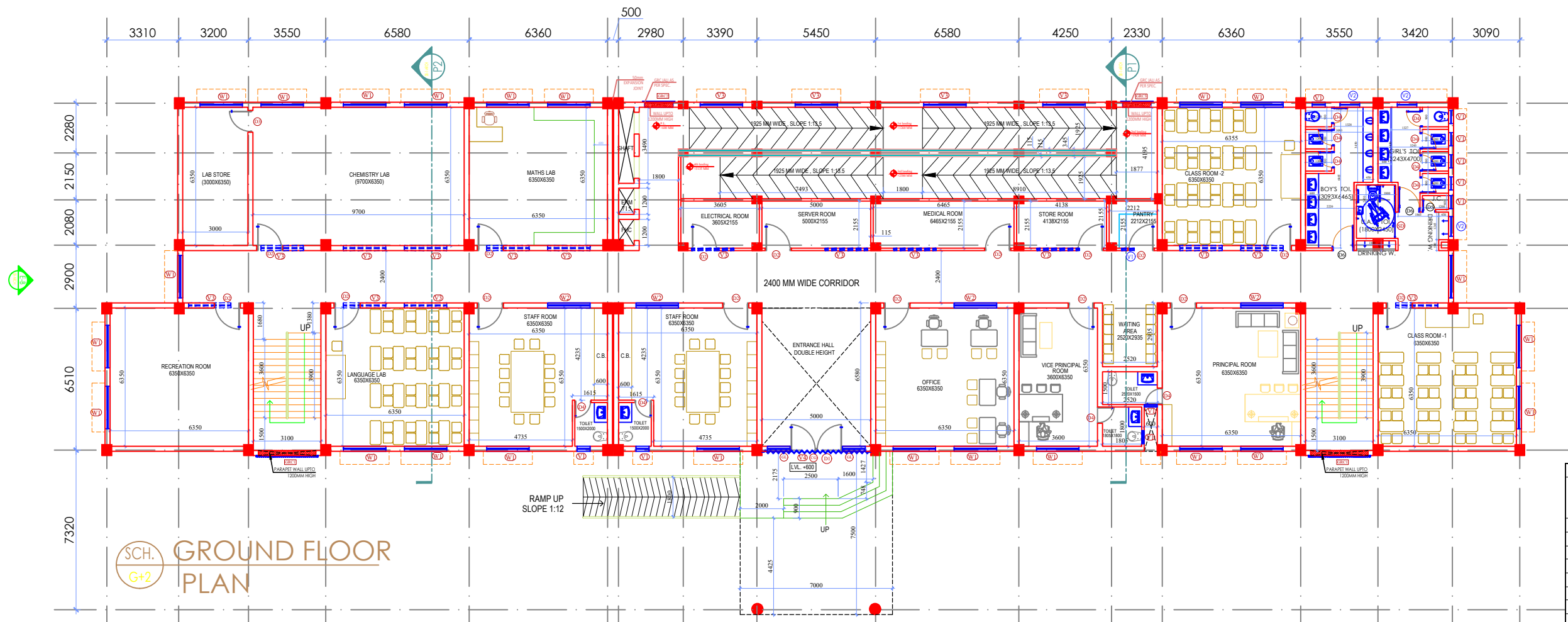
DWG. NO.- EMRS NAME/PQ/AR\_01

ANNEXURE - C

DRAWING TRANSMITTAL - NORTH EAST ARCHITECTURAL  
DRAWING

PROJECT TITLE : PROPOSED CONSTRUCTION OF EKLAVYA  
MODEL RESIDENTIAL SCHOOLS(EMRS)  
AT BLOCK BHAGWANPURA, DISTT. KHARGONE(MP)

Sr. No.	Drawing No.
1	EMRS NAME/SCH/AR_01
2	EMRS NAME/SCH/AR_02
3	EMRS NAME/SCH/AR_03
4	EMRS NAME/SCH/AR_04
5	EMRS NAME/SCH/AR_05
6	EMRS NAME/SCH/AR_06
7	EMRS NAME/BH/AR_01
8	EMRS NAME/BH/AR_02
9	EMRS NAME/BH/AR_03
10	EMRS NAME/GH/AR_01
11	EMRS NAME/GH/AR_02
12	EMRS NAME/GH/AR_03



DOOR, WINDOW, VENTILATOR, FIXED GLAZING SCHEDULE								
TAG	CLEAR OPENING SIZE	SILL	LINTEL	GF	FF	SF	MUMTY	TOTAL
D1	2400 x 2100	0	2100	1				1
D2	1200 x 2100	0	2100	16	12	8		36
D3	1000 x 2100	0	2100	1		3		4
D4	750 x 2100	0	2100	11	7	8		26
D5	600 x 2100	0	2100	1	1	1		3
D6	1000 x 2100	0	2100	2	2	2	1	7
SD	1200 x 2100	0	2100	1	1	1		3
CG	5000 x 2400	0	2400	1				1

AREA STATEMENT	
SCHOOL BUILDING	
DETAILS	AREA (in Sqm)
<b>MAIN BUILDING</b>	
GROUND FLOOR PLINTH AREA	885.80
FIRST FLOOR PLINTH AREA	809.42
SECOND FLOOR PLINTH AREA	752.41
<b>TOTAL AREA</b>	<b>2447.63</b>
<b>ENTRANCE PORCH AREA</b>	
<b>AREA OF PORCH / 2</b>	<b>26.25</b>
<b>TOTAL COVERED AREA (RAMP AREA EXCLUDED)</b>	<b>2473.88</b>

W1	1950 X 1500	900	2400	23	28	24		75
W2	1950 X 1200	900	2100	4				4
GL	1050 X 2100	300	2400	2				2
V1	600 X 600	1800	2400	11	6	6		23
V2	900 X 1200	1200	2400	3	3	2		8
V3	1950 X 600	AS PER SITE	B.O.B	19	25	23		67
V4	2400 X 300	2100	2400	1				1
GRC1	2840 X 9950	300	10850	1				1
GRC2	1500 X 8588	900	B.O.B	1				1
GRC3	1500 X 7218	2220	B.O.B	1				1

*Rakesh*  
*plAgnawal*  
*(N.KUMAR)*  
*Leany (PK Ganga)*

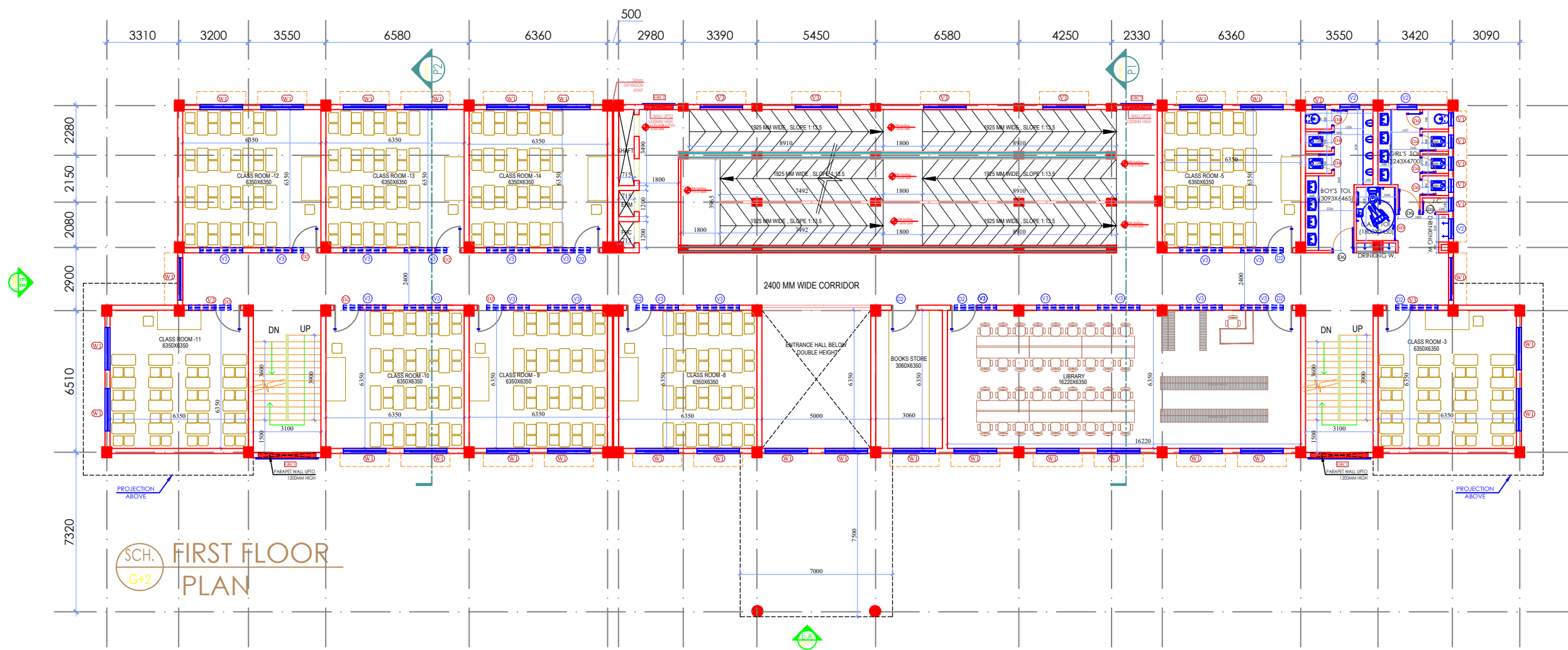
**A D P Keshri**  
 Chief Engineer & Consultant

DWG. NO.-  
 EMRS NAME/SCH/AR\_01

SCHOOL  
 GROUND FLOOR PLAN

SCALE:

MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)



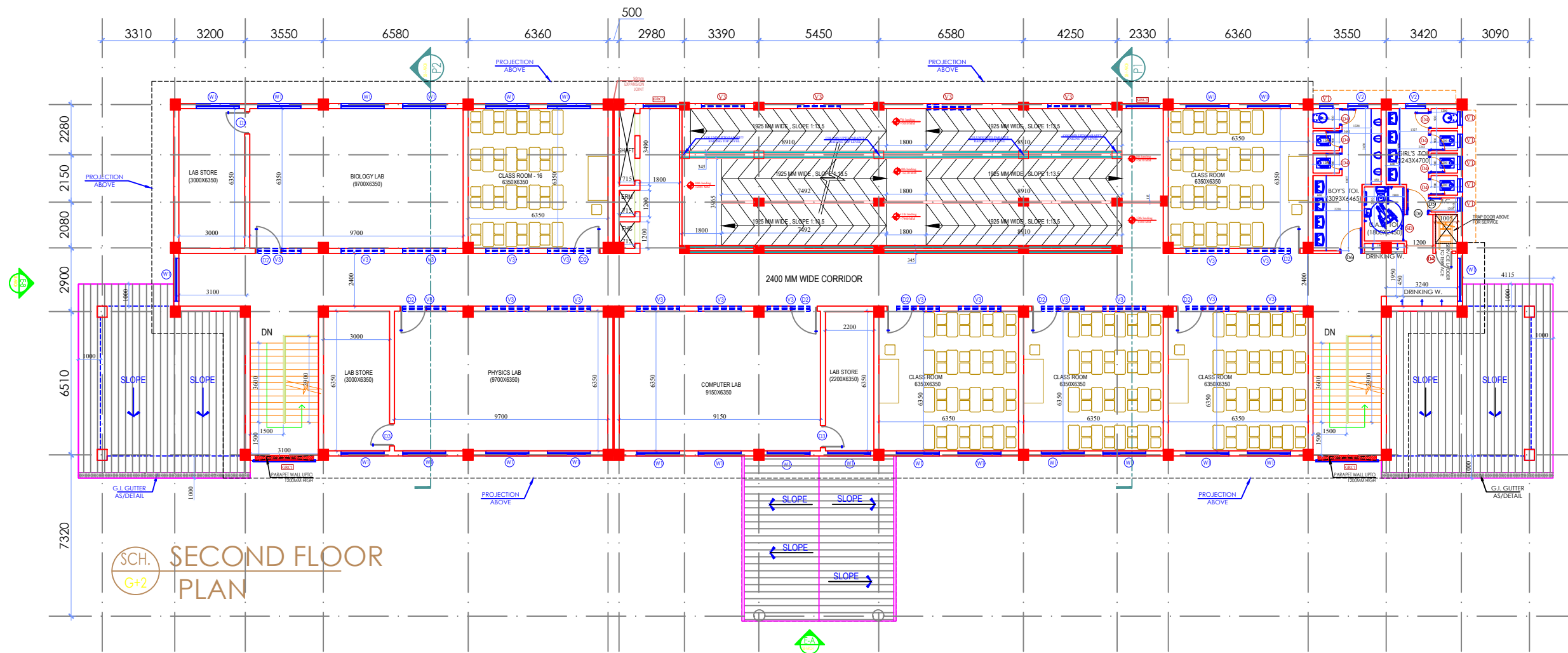
SCH. G+2  
FIRST FLOOR PLAN

*Rakesh*  
*pk Agrawal*  
*(N. KUMAR)*  
*Leamy (PK Gang)*

*A P Keshri*  
A D P Keshri  
Chief Engineer & Consultant

DWG. NO.- EMRS NAME/SCH/AR_02	SCALE:
TITLE SCHOOL FIRST FLOOR PLAN	

MINISTRY OF TRIBAL AFFAIRS  
NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)



*Palkey*  
*plApanwal*  
*(N.KUMAR)*  
*Leany (PK Geang)*

*A D P Keshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

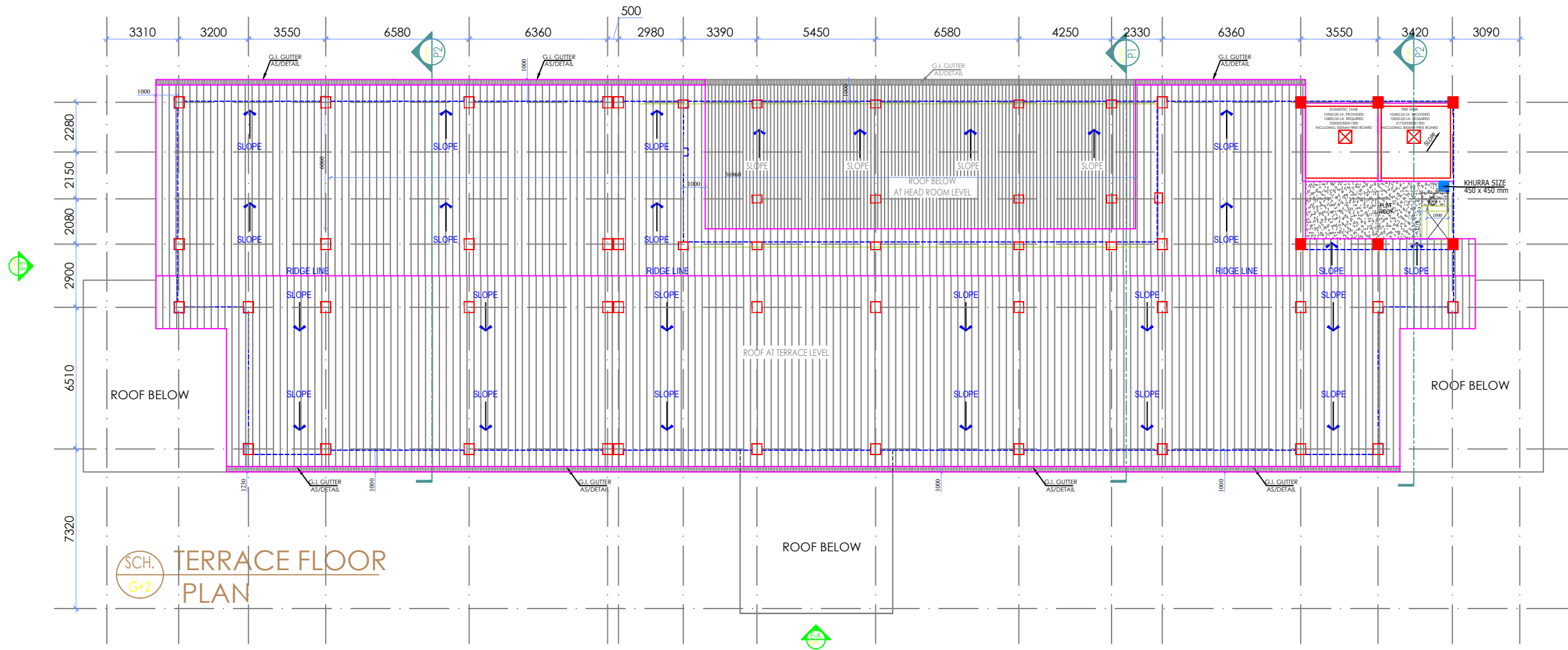
DWG. NO.-  
 EMRS NAME/SCH/AR\_03

TITLE  
 SCHOOL  
 SECOND FLOOR PLAN


SCALE:

MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)





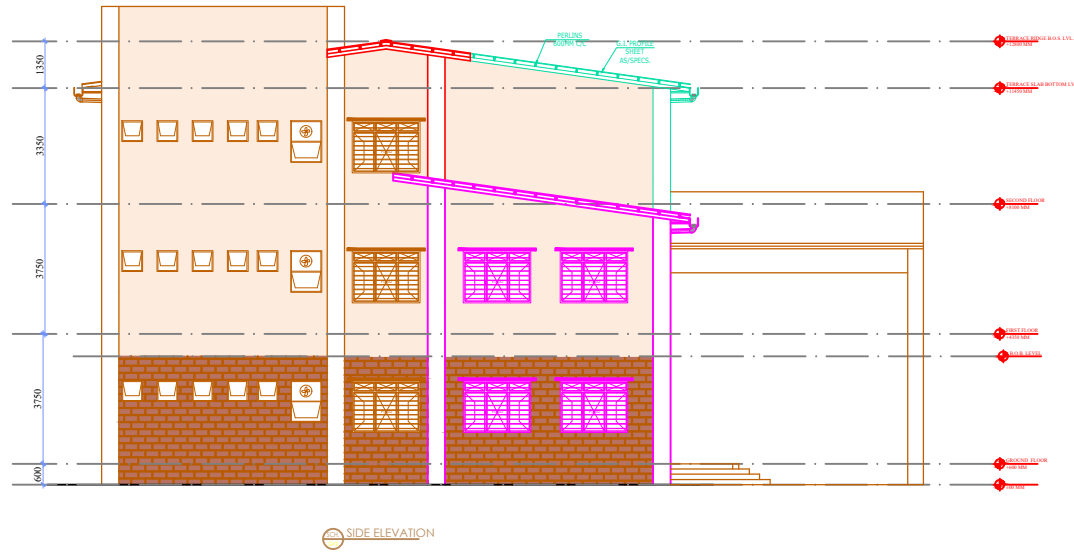
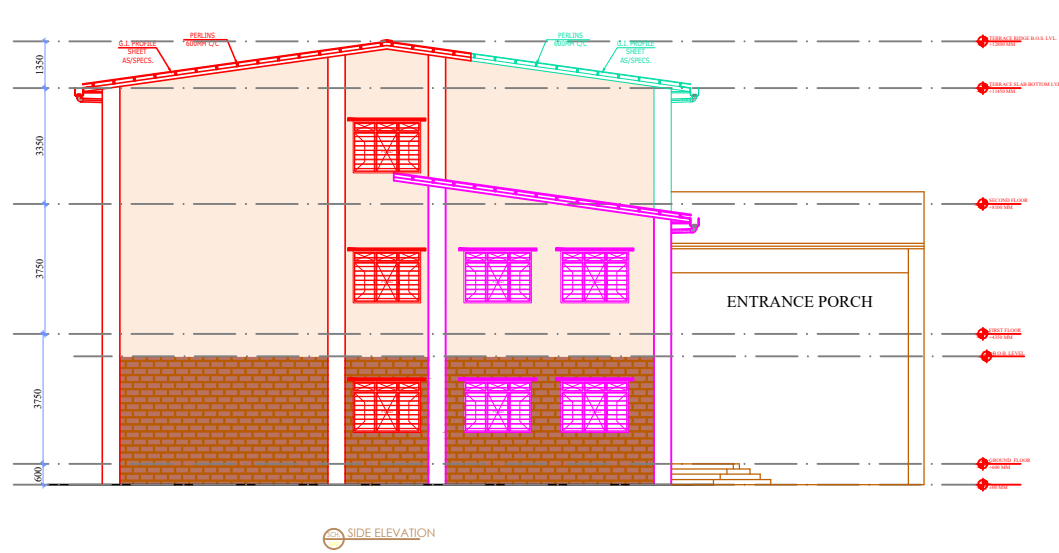
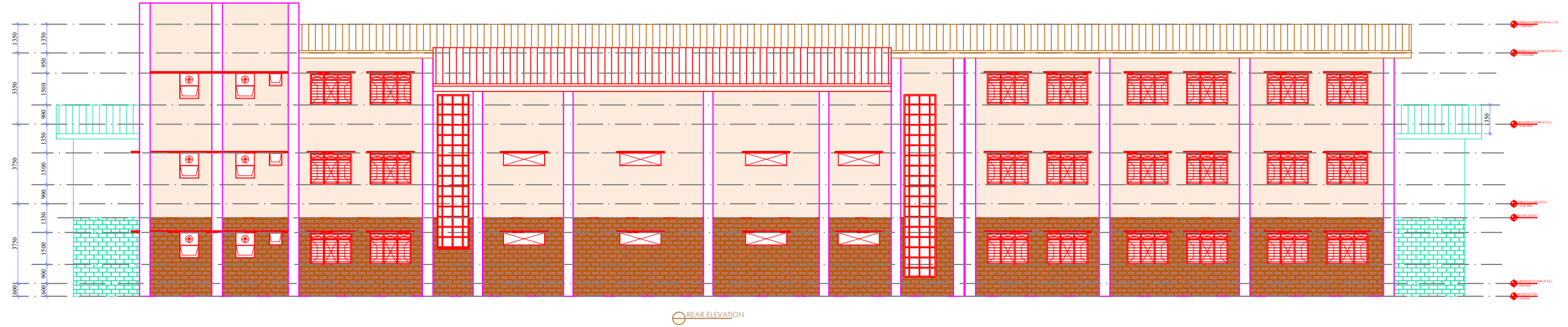
Palkesh  
 plAgnawal  
 N.K.  
 (N.KUMAR)  
 Leany (Pr. Ganga)

  
**A D P Keshri**  
 Chief Engineer & Consultant

DWG. NO.-  
 EMRS NAME/SCH/AR\_04  
 TITLE  
 SCHOOL  
 ROOF FLOOR PLAN

SCALE:

MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)



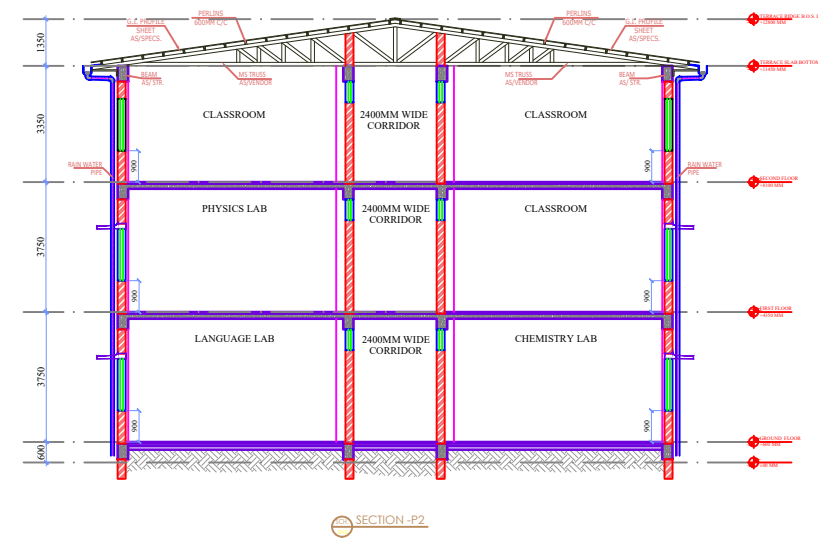
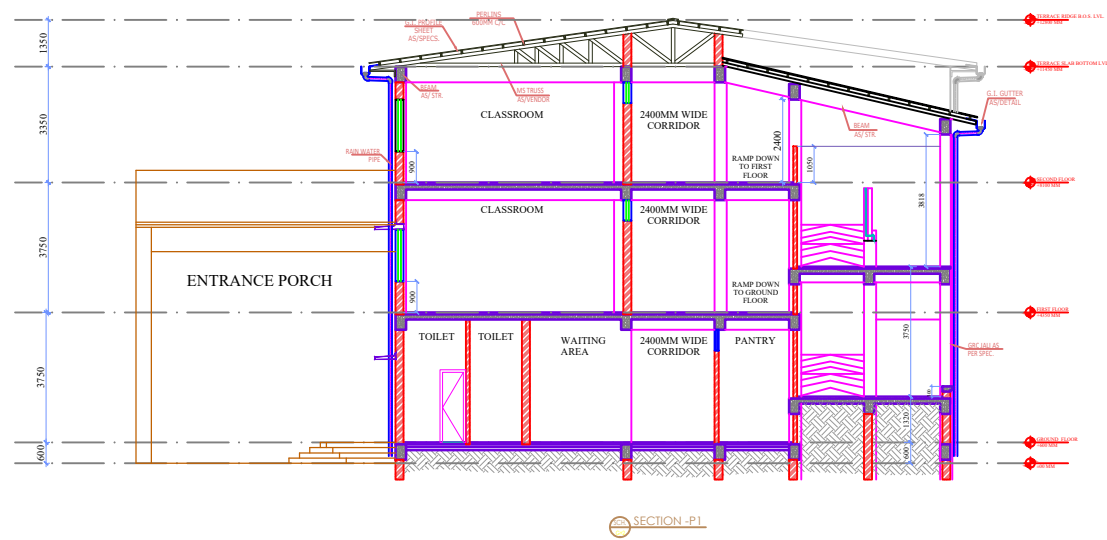
*Rakesh  
pk Agrawal  
N. Kumar  
Leony (PK Gang)*

*ADP Keshri*  
**AD P Keshri**  
Chief Engineer & Consultant

TITLE  
**SCHOOL  
GROUND FLOOR PLAN**

SCALE:

**MINISTRY OF TRIBAL AFFAIRS**  
**NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)**



*Pallesh*  
*pk Agrawal*  
*(N. Kumar)*  
*Leony (PK. Gang)*

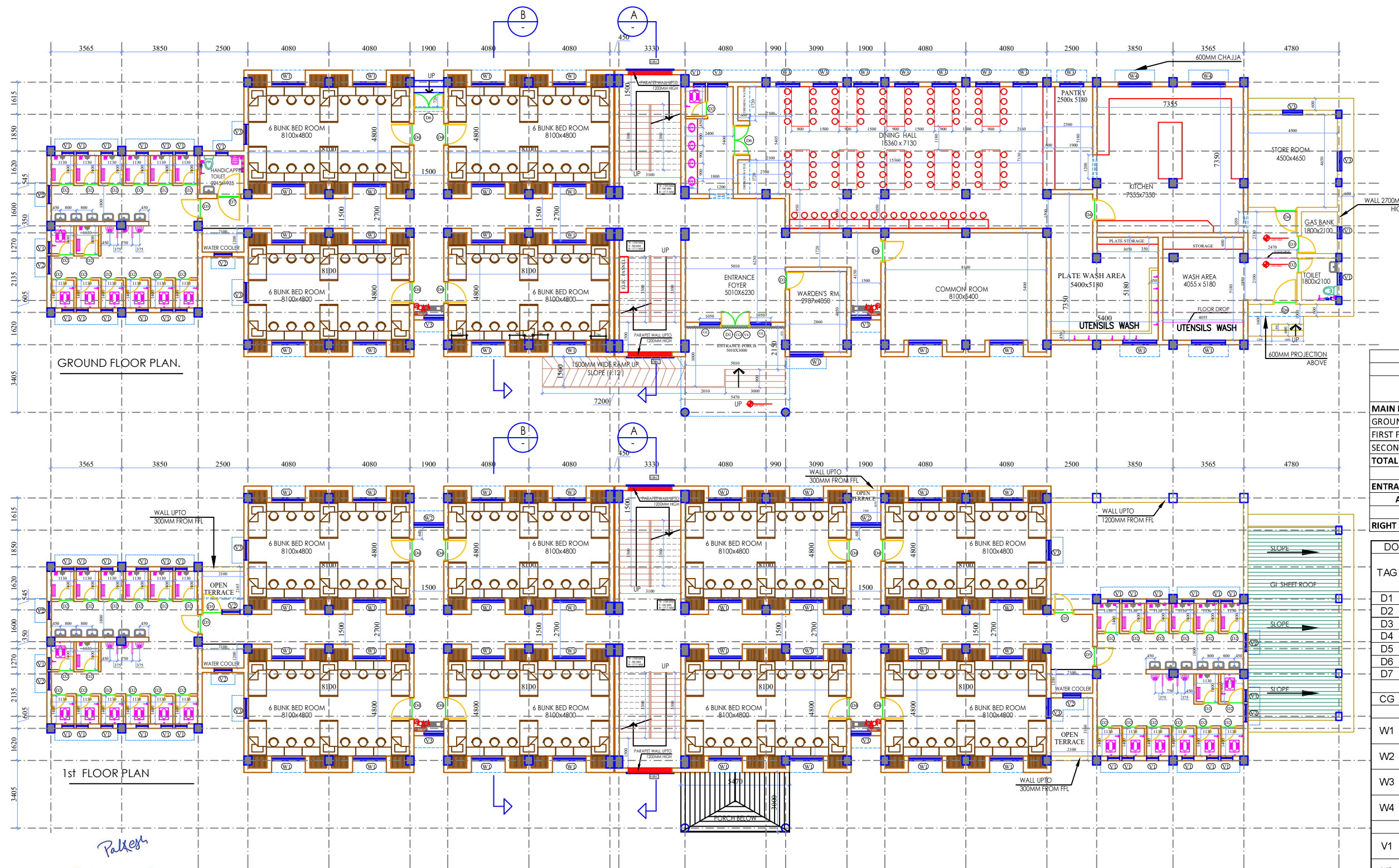
*ADP Keshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

DWG. NO.-  
 EMRS NAME/SCH/AR\_06

SCALE:

MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)

TITLE  
 SCHOOL  
 GROUND FLOOR PLAN



GROUND FLOOR PLAN.

1st FLOOR PLAN

*Rakesh*  
*pk Agrawal*  
*(N. KUMAR)*  
*Leony (PK Gang)*

AREA STATEMENT HOSTEL BUILDING			
DETAILS	PHASE - I AREA (in Sqm)	PHASE - II AREA (in Sqm)	TOTAL FLOOR AREA
<b>MAIN BUILDING</b>			
GROUND FLOOR PLINTH AREA	419.38	317.16	736.54
FIRST FLOOR PLINTH AREA	359.30	312.61	671.91
SECOND FLOOR PLINTH AREA	359.30	312.61	671.91
<b>TOTAL AREA</b>	<b>1137.98</b>	<b>942.38</b>	<b>2080.36</b>

<b>ENTRANCE PORCH AREA</b>			
AREA OF PORCH / 2			<b>9.85</b>

<b>RIGHT SIDE KITCHEN STORE</b>			
			<b>46.21</b>

DOOR, WINDOW, VENTILATOR, FIXED GLAZING SCHEDULE								
TAG	CLEAR OPENING SIZE	SILL	LINTEL	GF	FF	SF	MUMTY	TOTAL
D1	1500 x 2100	0	2100	1				1
D2	750 x 2100	0	2100	16	28	28		72
D3	900 x 2100	0	2100	2				2
D4	1100 x 2100	0	2100	8	8	8		24
D5	1000 x 2100	0	2100	1	4	2	2	9
D6	1500 x 2100	0	2100	2				2
D7	1200 x 2100	0	2100	1				1
CG	4200 x 2400	0	2400	1				1
W1	1700 x 1800	AS PER SITE	B.O.B	21	31	32		84
W2	1500 x 1800	AS PER SITE	B.O.B		3	4		7
W3	1200 x 1800	AS PER SITE	B.O.B	8				8
W4	1700 x 1500	AS PER SITE	B.O.B	2				2
V1	600 X 600	AS PER SITE	B.O.B	17	26	26		69
V2	900 x 1200	AS PER SITE	B.O.B	3	7	6		16
V3	1000 x 600	AS PER SITE	B.O.B	6	6	6		18
V4	1500 x 600	2100	B.O.B	1				1
GL	1050 X 2100	300	2400	2				2
GRC1	2400 x 8400	1500	9900	2				2

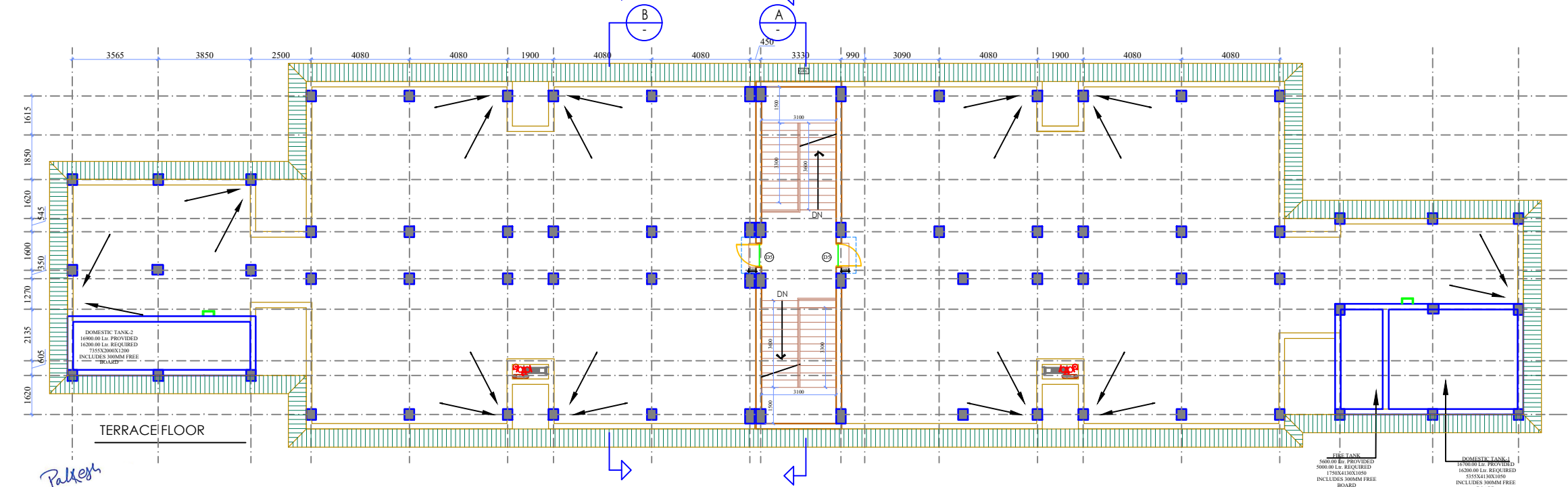
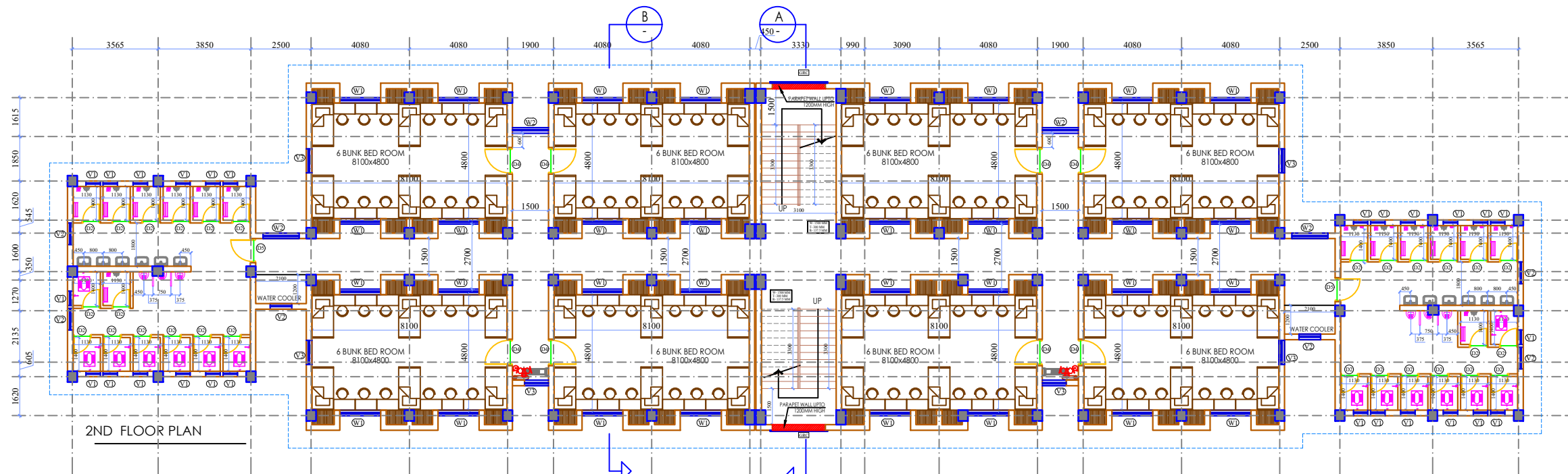
*A D P Keshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

DWG. NO.-  
 EMRS NAME/BH/AR\_01

TITLE  
 HOSTEL-BOYS

SCALE:

MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)



*Palash*  
*pk Anurad*  
*(N. KUMAR)*  
*Leony (PK Gang)*

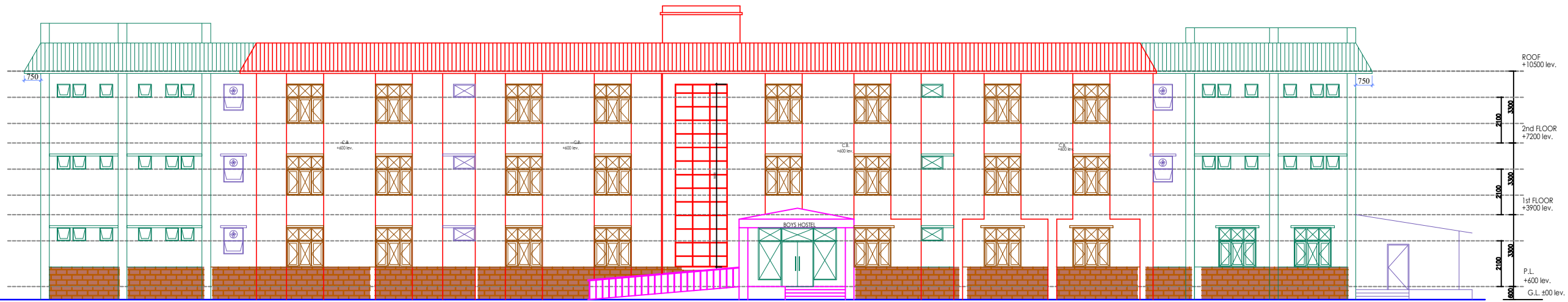
*A P Keshri*  
A P Keshri  
Chief Engineer & Consultant

DWG. NO.-  
EMRS NAME/BH/AR\_02

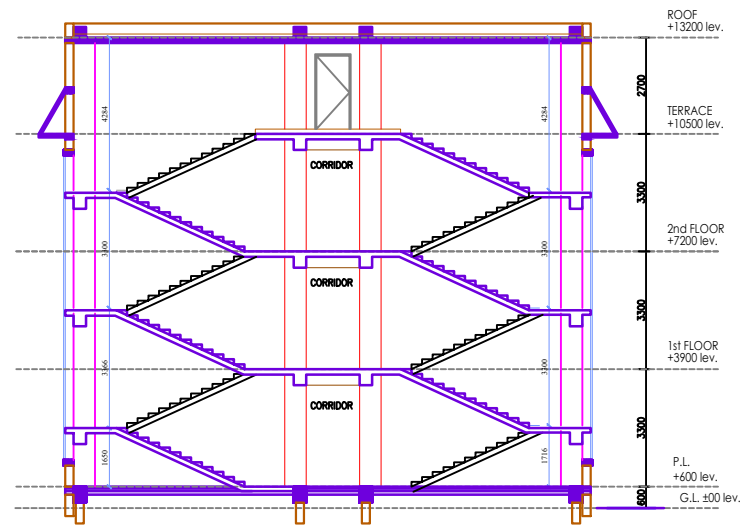
TITLE  
HOSTEL-BOYS

SCALE:

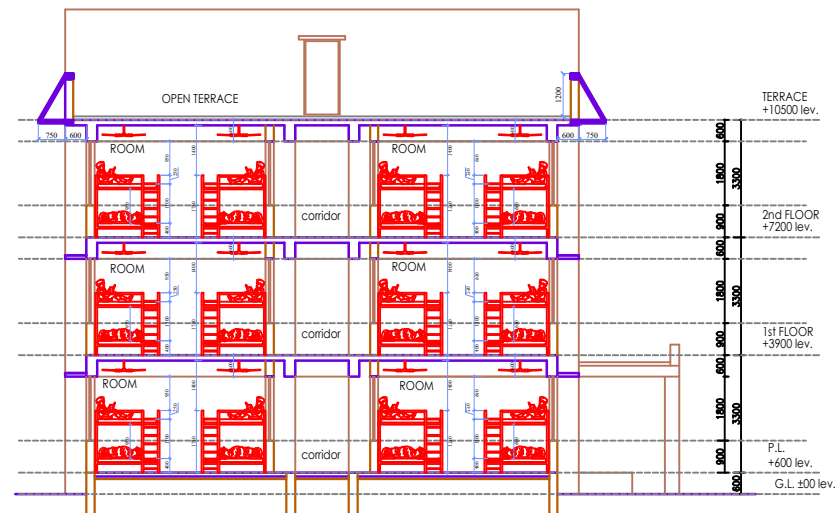
MINISTRY OF TRIBAL AFFAIRS  
NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)



FRONT ELEVATION



SECTION - A.



SECTION - B.

*Palkesh*  
*pk Agarwal*  
*N.K. Kumar*  
*Leony (PK Gang)*

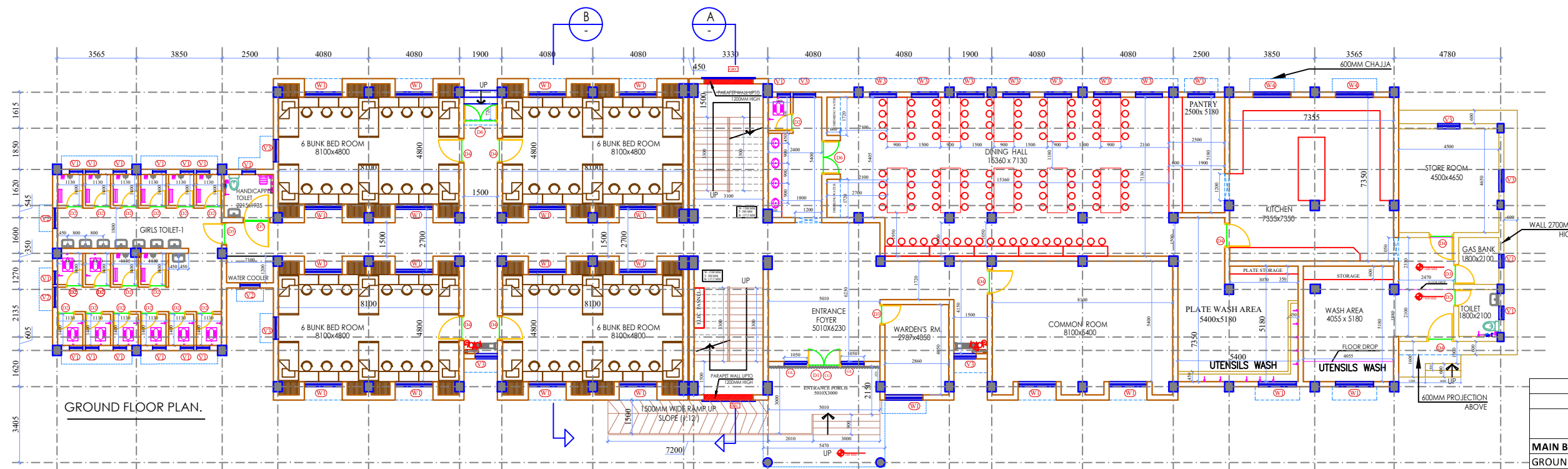
*A.P. Keshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

DWG. NO.-  
 EMRS NAME/BH/AR\_03

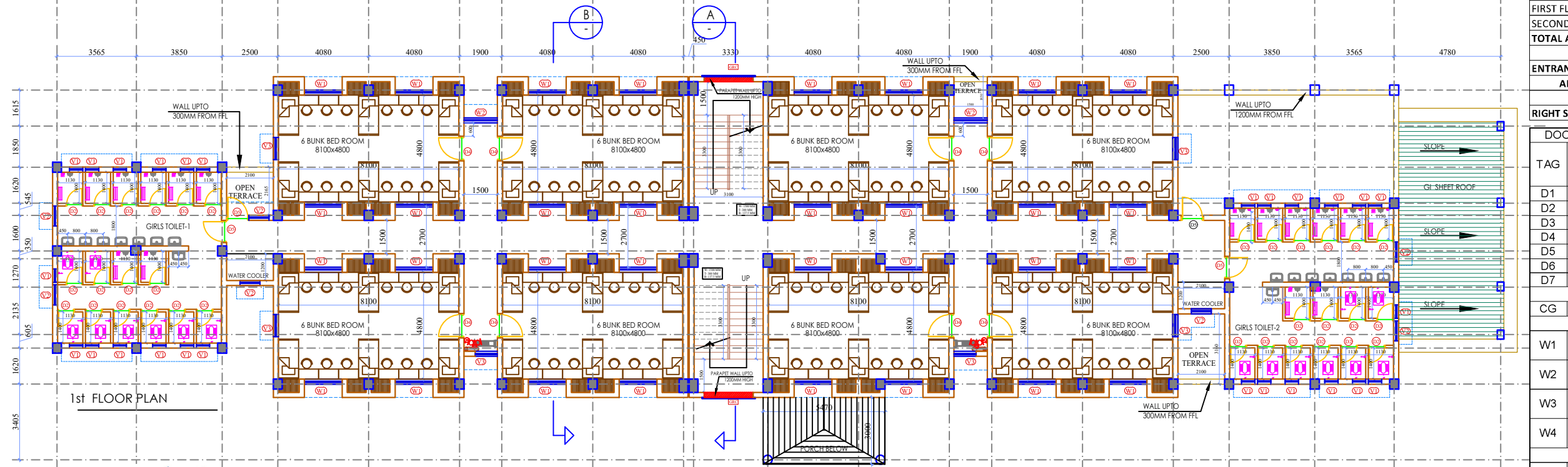
SCALE:

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 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)

TITLE  
 HOSTEL-BOYS  
 SECTION & ELEVATION



GROUND FLOOR PLAN.



1st FLOOR PLAN

*Rakesh*  
*pk Agrawal*  
*(N. Kumar)*  
*Leony (PK Gang)*

AREA STATEMENT HOSTEL BUILDING			
DETAILS	PHASE - I AREA (in Sqm)	PHASE - II AREA (in Sqm)	TOTAL FLOOR AREA
<b>MAIN BUILDING</b>			
GROUND FLOOR PLINTH AREA	419.38	317.16	736.54
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<b>ENTRANCE PORCH AREA</b>			
<b>AREA OF PORCH / 2</b>			<b>9.85</b>

<b>RIGHT SIDE KITCHEN STORE</b>			<b>46.21</b>
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DOOR, WINDOW, VENTILATOR, FIXED GLAZING SCHEDULE								
TAG	CLEAR OPENING SIZE	SILL	LINTEL	GF	FF	SF	MUMTY	TOTAL
D1	1500 x 2100	0	2100	1				1
D2	750 x 2100	0	2100	18	32	32		82
D3	900 x 2100	0	2100	2				2
D4	1100 x 2100	0	2100	8	8	8		24
D5	1000 x 2100	0	2100	1	4	2	2	9
D6	1500 x 2100	0	2100	2				2
D7	1200 x 2100	0	2100	1				1
CG	4200 x 2400	0	2400	1				1
W1	1700 x 1800	AS PER SITE	B.O.B	21	31	32		84
W2	1500 x 1800	AS PER SITE	B.O.B	3	4			7
W3	1200 x 1800	AS PER SITE	B.O.B	8				8
W4	1700 x 1500	AS PER SITE	B.O.B	2				2
V1	600 x 600	AS PER SITE	B.O.B	17	26	26		69
V2	900 x 1200	AS PER SITE	B.O.B	3	7	6		16
V3	1000 x 600	AS PER SITE	B.O.B	6	6	6		18
V4	1500 x 600	2100	B.O.B	1				1
GL	1050 x 2100	300	2400	2				2
GRC1	2400 x 8400	1500	9900	2				2

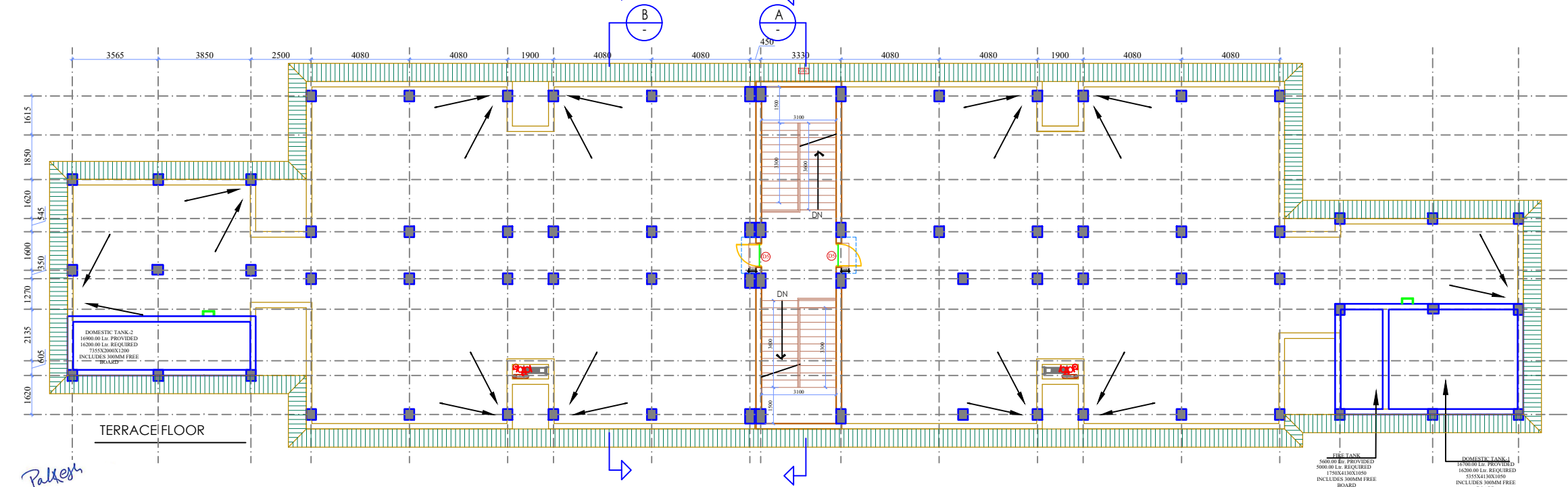
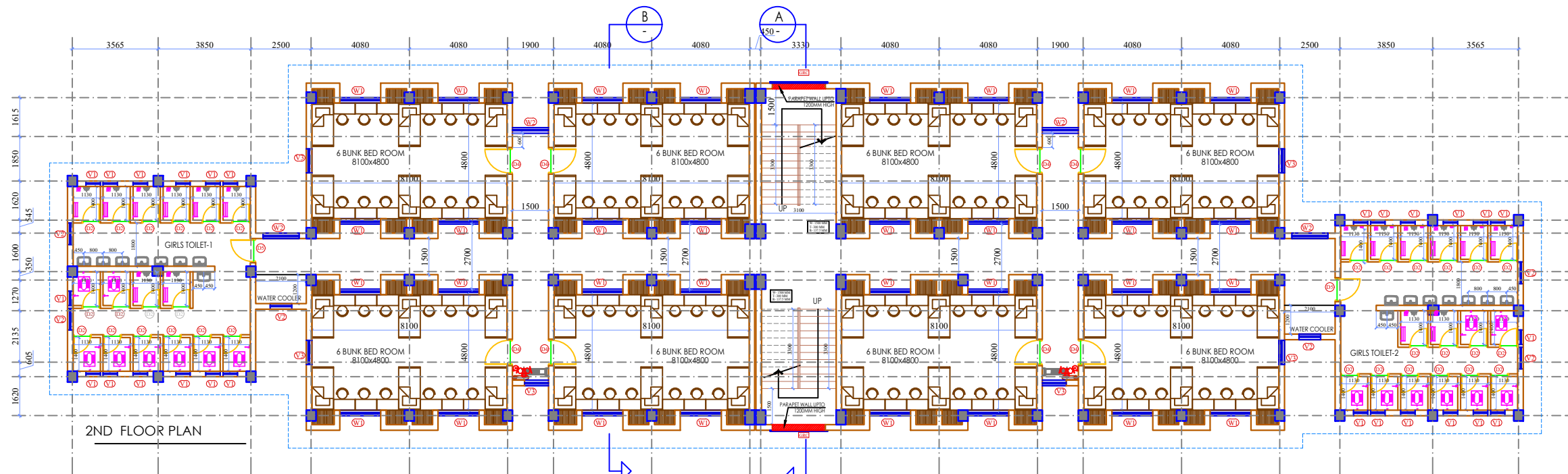
*A D P Keshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

DWG. NO.-  
 EMRS NAME/GH/AR\_01

TITLE  
 HOSTEL-GIRLS

SCALE:

MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)



*Palkesh*  
*pk Agrawal*  
*(N.Kumar)*  
*Leony (PK Gang)*

*A.P. Keshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

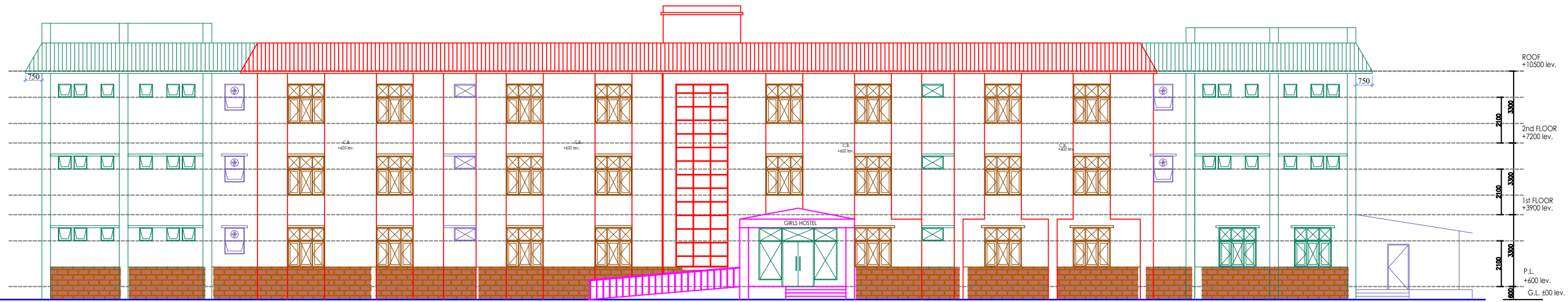
DWG. NO.-  
 EMRS NAME/GH/AR\_02

TITLE  
 HOSTEL-GIRLS

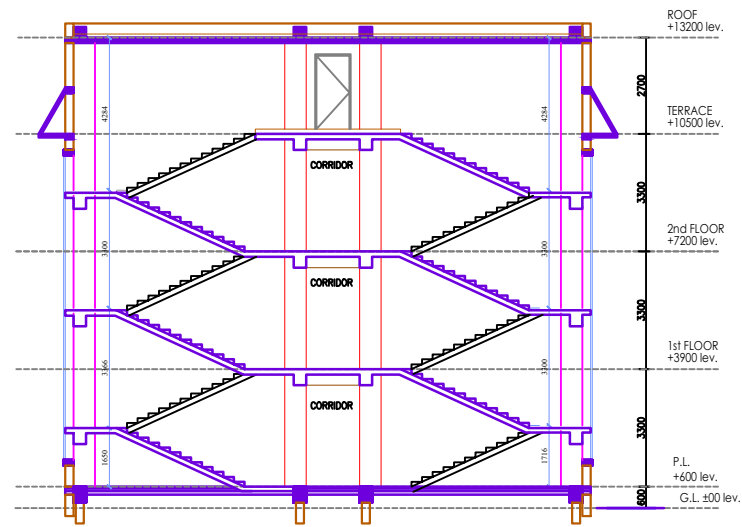
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MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)

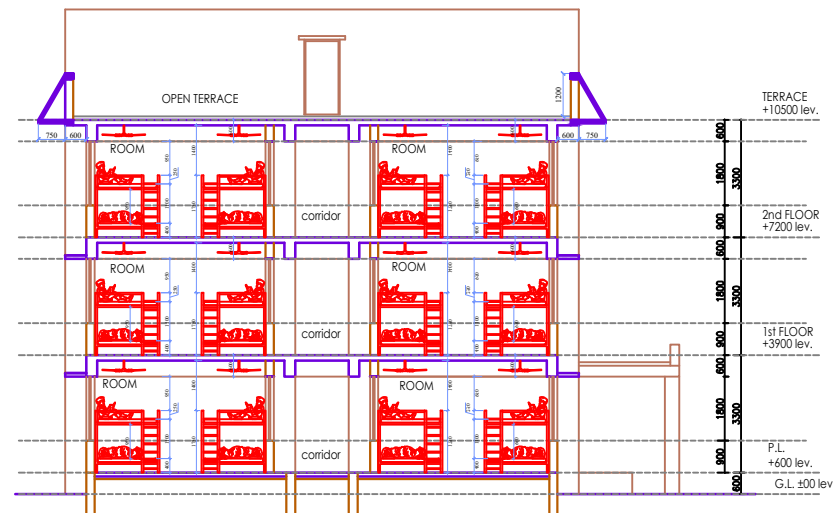




FRONT ELEVATION



SECTION - A.



SECTION - B.

*Palkesh*  
*pkapawal*  
*(N. KUMAR)*  
*Leony (Dr. Geog)*

*ADP Keshri*  
**A D P Keshri**  
 Chief Engineer & Consultant

DWG. NO.-  
 EMRS NAME/GH/AR\_03

TITLE  
 HOSTEL-GIRLS  
 SECTION & ELEVATION

SCALE:

MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATION SOCIETY FOR TRIBAL STUDENTS (NESTS)