

राष्ट्रीय आदिवासी छात्र शिक्षा समिति  
(जनजातीय कार्य मंत्रालय के अंतर्गत  
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**File No: NESTS/Civil/EMRS Order/140/2021-22(Pt.)**

**Date:18.10.2021**

To,

**The Nodal officer (EMRS) of Construction agencies  
CPWD/WAPCOS/TCIL/HSCL/EPIL/B&R/MANIDCO/MTDC/NPCC**

**Sub: Consolidated guidelines on C/o EMRS Buildings – MLP, DPR, Architectural Drawings (Phase-1),  
Specification, Clarification & General Guidelines regarding.**

References:

- (i) NESTS Order No 1815/11/2019-EMRS(Pt) dated 26.06.2020 regarding submission of MLP.
- (ii) NESTS Order No 1815/11/2019-EMRS(Pt) dated 04.08.2020 regarding Architectural drawings.
- (iii) NESTS Order No 1815/11/2019-EMRS(Pt) dated 06.10.2020 on submission of Land Suitability case.
- (iv) NESTS Order No 1815/11/2019-EMRS(Pt) dated 08.09.2020 on Phasing of EMRS Construction.
- (iv) NESTS Order No 1815/11/2019-EMRS(Pt) dated 23.11.2020, 23.12.2020 and 09.08.2021 on DPR Guidelines.

Dear Sir,

With reference to the above guidelines for construction of EMRS were issued by NESTS. Vide NESTS Office order dated 26.06.2020 guidelines for submission of Master Layout Plan (MLP) were issued. Subsequently vide NESTS Order dated 04.08.2020 Architectural Drawings of EMRS Buildings like School Building, Boys Hostel, Girls Hostel and Kitchen & Dining Block and its work specifications based on CPWD drawings was issued. Vide NESTS order 08.09.2020 dated phasing plan of EMRS was issued.

Further, vide NESTS Order dated 06.10.2021, procedures and guidelines for submission of land suitability for EMRS construction and vide NESTS order dated 23.11.20, 23.12.20 & 09.08.21 guidelines for submission of DPRs were issued.

Based on the above guidelines the construction proposals such as MLP and DPR are being submitted by the Construction Agencies and being approved by the NESTS. During scrutiny, several discrepancies are found in the MLP and the DPR. These discrepancies are in Master Layout Plans, Soil Investigation Reports, Specifications of works and Architectural drawings. To clear the doubts on building specifications, standards, norms, etc, a Video Conferencing of construction wing NESTS with the Construction Agencies & the Architect Consultant was organised on 01.06.2021.

In spite of above all, clarification on various queries is being attended by the NESTS on day-to-day basis. Therefore, it has been felt necessary to issue the consolidated guidelines and clarifications on MLP, DPR, Architectural Drawings and Work specifications. Accordingly formal order is being issued for clarity and compliance.

- 1. MLP (Master Layout Plan) -** In continuation of MLP guidelines dated 26.06.2020, other parameters requiring attention are attached in enclosed annexure- A. It is further clarified that MLP shall be signed by authorized officer from Construction Agency not below the Zonal Head. The CA shall first share the draft MLP and after discussion and finalization by NESTS, same shall be submitted along with Preliminary Estimate.

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2. **Preliminary Estimate-** Preliminary Estimates including detailed provision of cutting, filling and retaining structure, Stone pitching shall be submitted for issue of A/A & E/S along with MLP. The Preliminary Estimate for total plinth area of 10040 Sq. Mt. shall only be considered for issue of A/A & E/S.
1. **DPR (Detailed Project Report):** In continuation of DPR guidelines dated 23.11.2020 and 23.12.2020, the additional guidelines and clarifications requiring attention are attached in enclosed annexure-A. It may be noted that draft DPR i.e., detailed estimate, Soil Investigation report, architectural drawings including grid plans shall be submitted first to NESTS for scrutiny and only after compliance of observation on draft DPR, final DPR shall be submitted for approval. DPR duly signed by Zonal Head as per approved DPR Checklist shall only be submitted for approval. The undertaking, drawings, MLP, Soil Investigation Report, Detailed Estimate, etc must be signed including initials on each page of DPR. Along with PDF file of DPR, soft copy of approved detailed estimate is also to be shared. This shall be followed with the submission of hard copy. The Updated guidelines, specification & clarifications for School Building, Hostels, Kitchen & Dinning are enclosed at **Annexure 'A'**. **The items were already covered in the approved DPR as per approved DPR except one or two minor items.**

**Soil Investigation-** Recommendation of Type and Depth of foundation shall be provided clearly by the Construction Agency duly signed by Zonal Head. The guidelines for soil investigation are enclosed at **Annexure 'A'**

## 2. **Architectural Drawings: -**

With reference to the earlier approved drawings based on CPWD, an updated drawings for School Building, Hostels, Kitchen & Dinning addressing clarification on quarry raised by constructions' agency including internal details and specification as detailed below: -

- i. The floor plans of all buildings were retained except toilet blocks of school & hostel buildings.
- ii. In CPWD based drawings, for toilet block, there was a common entry lobby for boys, girls and person with disability, which is not proper from service/safety point of view. Hence Toilet blocks were modified to provide separate entry and to accommodate drinking water facility. The orientation of washroom for differently abled person, boys and girls has also been modified in order to enhance utility with more ease.
- iii. The toilet blocks of hostels were cramped and hence area of bath and WC are enhanced to meet the NBC guidelines and for easy movement of students.
- iv. The rear stair cases of school building are taken upto First Floor only. The front 2 Nos of stair case will be taken upto mumty for restricting undesirable access to terrace.
- v. In school building, one bay at FF was kept void in approved drawing, which has been covered with roof slab to avoid dumping space in between the class rooms and for better aesthetic appearance.
- vi. Updated drawings and details for School Building, Hostels, Kitchen & Dinning are enclosed at **Annexure 'B'**

**In respect of earlier approved DPR, where the work has just commenced or about to commence, the necessary modification as per architectural drawings shall be made, particularly toilet blocks of school & hostels.** Wherever, the foundation completed, the internal partition of toilets may be suitability modified to the possible extent.

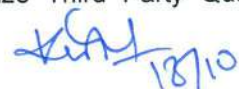
**The construction agencies are requested to submit the working drawings of all buildings as per updated detailed drawings before commencement of works.**

## 3. **Specifications:**

In continuations of specifications issued along with DPR guidelines dated 23.11.2020 & 23.12.2020, the further clarification for floor height, internal & external finishes, cladding, internal partition details, doors & windows, flooring, ramp, etc is enclosed at **Annexure 'A'**

## 4. **Work Commencement**

- i. Vetting of Structural Drawings- **The vetting proposal of structural drawings including foundation proposal shall be shared at the time of submission of DPR.** The vetted copy of structural drawings including detailed foundation proposal shall be available at the time of physical commencement of work. Post tender processing shall be given only after the submission of vetted copy of the structural drawings. Vetted structural drawings shall be submitted along with the certified copy of soil investigations & design philosophy.
- ii. TPQA- The Construction Agency shall in consultation with NESTS finalize Third Party Quality Assurance (TPQA) plan immediately.

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- iii. Working Drawings- The working drawing incorporating all features of MLP and Plinth level of buildings, architectural drawings finished road level, septic tank level shall be shared to NESTS before executions.
- iv. Other Layout- The layout diagram of Storm Water Drains, Sewerage, Water Distribution Diagrams, UG cables, Street lights, etc shall be shared with NESTS after the layout marking at site is finalized.
- v. Engineer Deployment- The details of deployment of engineer for supervision of EMRS with name, designation, contact number shall be shared before commencement of physical construction of EMRS.
- vi. The CA shall ensure the proper demarcation of the land before start of the execution related activities. In case, any deviation in the approved area/boundary line, the revised MLP with reference to actual available land area/boundary shall be shared for revised approval by NESTS.

**5. North East/Hilly Area: -**

It has also been found that adoption of uniform drawing at all the locations is sometime not viable particularly hilly & North East terrain. 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 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.

**Enclosures:**

- (i) Consolidated Guidelines, Specification & clarifications of EMRS Buildings – “Annexure-A”.
- (ii) Architectural Drawings - “Annexure-B”
- (iii) NESTS's orders on construction of EMRS stated above.

This order is issued with the approval of competent authority.



K C Meena

Additional Commissioner, NESTS

Copy to

1. Zonal Head of PSUs respective State for Compliance
2. PS to Commissioner, NESTS, New Delhi
3. Guard File

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ANNEXURE-ACLARIFICATION ON SPECIFICATIONS OF EMRS BUILDINGS  
ISSUED VIDE DPR GUIDELINES DATED 23.11.2020& 23.12.2020General 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.
- **Slope Protection:** 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.

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- MLP Construction shall be restricted to approved elements of EMRS only. The MLP shall have essential features numbered and shown clearly on MLP at sides/bottom of the sheet.
- **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 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 DPR Submission

- The draft estimate shall be shared first and once it is scrutinized, then final submission for approval may be done.
- **The draft DPR shall be accompanied with**
  - Approved Master Layout Plan with compliance of pending observation, if any.
  - Complete Architectural Drawings i.e. Floor plans, Elevations & Sections of the building units.
  - The framing details and grid plans of building indicating footing plans and column locations and approximate sizes of salient structural members shall be enclosed.
  - Detailed Soil Investigation Report along with remarks of the construction agency along with feasibility of the structure corresponding to the soil investigation report. At least, one bore hole should be done near the tentative location of each building unit i.e. School building, Boys' Hostel, Girls' Hostel, Kitchen & Dining, Qtrs area. The location of bore pit shall be clearly marked in MLP and Soil Investigation Report.
  - The DPR must include the foundation proposal for the buildings with respect to bearing capacity of soil. The structural drawings including detailed foundation proposal of the EMRS buildings shall be shared with NESTS before sending the same for vetting. However, the structural drawings shall be enclosed with the DPR only when it is vetted by IIT/NIT as per terms and condition of the agreement.
  - Facility area of none of the building unit shall be changed without specific approval from the NESTS.
  - Details of measurement and its proper linking to the respective heads in BOQ and then to the main Detailed Estimate sheet (DE).
  - BOQ of EMRS Phase-I shall be prepared on DSR 2019 with Item Sub-Head Wise (Vertically) and Heads Building & Service Wise (Horizontally).
  - The Building & Service components are divided into 14 heads for – School Building, Boys' Hostel, Girls' Hostel, Warden Residences (Boys'), Warden Residences (Girls'), Kitchen & Dining, Security Cabin & Entrance Gate, Electrical Sub Station (ESS), Sump & Pump Room, Septic Tank & Soak

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Pit, Site Development Cutting & Filling, retaining wall/Stone Pitching, Compound Wall and Roads. Other Services are Plumbing, Fire Fighting Electrical Internal and, Electrical External.

- The Detailed Estimate shall also reflect complete cost of each component i.e. school buildings, hostel buildings, kitchen dining, roads, compound wall, services- electrical and plumbing, etc.
- Cost Index in the estimate shall be supported by Documents from CPWD. In case the CPWD Cost index is not available for the particular location, the Detailed Estimate shall be submitted at par with DSR 2019 without considering Cost Index.
- The Items, rates and quantities in the model estimate are indicative and actual quantities are to be supported by details of measurements, MLP, designs, site conditions, approved drawings, inventories etc. The correctness in the quantities and items are the responsibility of the concerned PSU.
- The construction agency must ensure that the site is free from encroachment, HT Transmission lines/ HT Poles, forest cover/land etc. while submitting DPR.
- The DPR Checklist cum scrutiny sheet is enclosed at **Annexure-II**

#### ➤ **Soil Investigation**

- The soil investigation shall be conducted at the major building locations i.e. School Building, Boy's Hostel, Girls' Hostel, Type II/III Quarters etc.
- The location of building shall be clearly written in the report against each test pit.
- The N value in the Standard Penetration Test shall be obtained at every 0.5metre interval upto 3.0 metre, thereafter at the interval of 1.0 metre upto 10 metre depth or till it is required as per soil conditions.
- The soil strata (Type of Soil) shall be clearly marked in the report.
- The depth of water table shall be clearly indicated in the report.
- The safe bearing capacity of soil shall be calculated based on soil parameter applying proper correction factors & safety factor for settlement & shear.
- Recommendation of Type and Depth of foundation shall be provided by the Geo-Technical Consultant with name & designation in the summary of the soil report.
- The Construction Agency shall ensure that site engineer shall be available while taking reading & sample of soil.
- The Soil Laboratory testing shall be done in NABL accredited laboratory/Engineering College only.
- **The copy of the soil report shall be certified by Zonal Head of the PMC.**

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➤ **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; however, there was general consensus on frame work of structural members, sizes of columns & beams of buildings arrived at in the meeting dated 01.06.2021 of NESTS Construction Wing and PSUs along with their respective architects and structural consultant. The indicative sizes may be adopted to maintain uniformity of construction from place to place without affecting functionality and structural soundness of buildings. Copy of the minutes of meeting dated 01.06.2021 is enclosed **Annexure-III**.

➤ **Floor Height of Buildings:** Clear ceiling height of Buildings shall be as follows;

- School building - 3.60 metre
- Kitchen & Dining - 3.45 metre
- Hostel - 3.15 metre
- Warden residence - 3.0 metre
- Ramp Mumty height- 2.4 metre

➤ **External Cladding of Buildings from Ground Level**

- School Building: - Upto bottom of Ground Floor Slab Beam.
- Hostels' Building – Upto Window Sill Level.
- Dining & Kitchen - Upto Window Sill 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.

➤ **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. Another tank may be provided over the half portion of the kitchen courtyard side Storeroom.

  
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- **Locally available Materials:** The climatic conditions and locally available building materials may be considered for design purpose of buildings.
- **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.

### **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.

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- Corridor Parapet shall have 1050 mm finished height (bottom 750 mm full brick thick & top 300 mm half brick thick). There will be 40 mm dia MS pipe hand rail in the half brick notch of the parapet for person with disabilities. Finished height of the handrail will be 950 mm. The hand rail shall not project in the 1800 mm width of the corridor.
- Railing to front Ramp and internal stair case shall be 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.
- 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).

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### 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 premier 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). The 2 mm thick POP shall only be on internal walls of all rooms except toilets, stair case, corridors. No POP putty shall be provided in Store, Corridor & toilets and to the ceiling plaster in any room.
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.

### 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.

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## 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.
- In hostel blocks, no cup board shutter in RCC shelves. If items included in the earlier DPR, item shall not be executed.

## 3. Flooring:

- Warden Room in Hostel shall be provided with Full body (homogeneous) Vitrified floor tile flooring with size not less than 400x400 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.

## 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 finished with 1 mm thick external white cement-based putty.
- The external surface shall be finished with premier acrylic smooth paints with silicon additives.

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- Internal Finishing: Walls and ceiling shall be provided with first quality acrylic distemper (ready-mix).
- POP shall be limited to warden office only (except ceiling).
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.

### **Warden - Residences**

#### **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 shall be provided with rectified Ceramic Tiles/ Vitrified Tiles of size not less than 400x400 mm.
- Treads and risers of stair shall have Kota stone slab in single length.
- WC 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 granite fixed over RCC slab.
- Flat back wall mounted Wash basins shall be provided.

#### **3. Finishing**

- External Finishing: The external facia excluding Brick Tile Cladding 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 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). Bed Room and Drawing Room walls (except ceiling) will be provided with POP.
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.

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## **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 Mirror 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 of size 450 x 600 x 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.
- 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 pre-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

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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 and finished with 1 mm thick external white cement-based putty.
- The external surface shall be provided with premier acrylic water proof exterior grade paint. The external surface including courtyard walls shall be provided 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). Walls of dining hall above the tiles in dado shall have POP.
- All wood work & steel work shall be provided with synthetic enamel paint of the approved brand.
- 2 mm thick POP shall be provided only in the Dining areas above the wall tiles.

  
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 (NARENDRA KUMAR)

  
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 (P.K.Agrawal), NESTS


  
 CE(Civil), NESTS





## MLP CHECKLIST

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	40 x 30(mts x mts) Separate @ 40 Mtsx30 Mts or may be played at Volley Ball Court			
17	Basketball Court -Sepearte for B & G	40 x 30 ( mt x mt) 2 Nos @ 40 Mts x 30 Mts each			
18	Volley Ball Court -Sepearte for B & G	40 x 30 ( mt x mt) 2 Nos @ 40 Mts x 30 Mts each			
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	1			
<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>					

  
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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	2			
32	Flag Hoisting Stage With Assembly ground	1			
33	Electric substation	1			
34	Internal Roads	1. CC Roads of 3.5 metre with one metre shoulder either side 2. Length as per actuals and shall be economically provided		Length to be indicated	
35	Internal pathways	2.00 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><b>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.</b></p> <p><b>2 .In phase-I , the site specic requirement such as filling, cutting , retaing wall,etc shall be avoided as far as possible due to non-availibiliy of fund. Therefore , buildings included in Phas-I shall be according located in MLP.</b></p> <p><b>3.In case of special plan for buildings due to site constraint, the architectural plans of the buildings are also to be submitted</b></p>				

  
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**DPR CHECKLIST FOR SUBMISSION OF DPR BY CONSTRUCTION AGENCY**


S.N.	Item	Available YES/NO	Remarks
1	Project Overview		
2	Structure Details		
3	Location		
4	Land Particulars		
5	Formal sanction Order of the EMRS		
6	AA & ES details (PE)		
7	Detailed Estimate		
	a. Based on DSR 2019		
	b. Detailed Analysis of Rates with supporting documents for:		
	i. DSR 2019 Modified Items derived from DSR 2019		
	ii. Non DSR 2019 Civil items based on local market rates		
	iii. Non DSR Electrical items i/c firefighting items based on local market		
8	Essential Features of ERMS, Phase I & Phase II		
9	Documents to be enclosed in r/o		
	a. MLP Sanction Order		
	b. Handing Over & Taking Over of the Land		
	c. Compliance to EMRS & CPWD Standards		
	d. Soil Investigation Report		
	e. Water Level, Availability of water		
	f. Availability of nearest sewer-line and disposal system		
	g. Proposal for site development Including compound wall, leveling of site, drainage system, sewerage system, RWH, etc		
	h. Other site requirements e.g. Retaining wall, cutting, filling and likely expenditure		
	i. Landscaping		
10	Design parameters e.g. DL, LL, WL, Design life, Design Method, Foundation Design, Earthquake zone, Design code		
11	Framing details and grid lines for locations and sizes of column & footings		
12	Copy of vetted structural drawings		
12	Construction Materials; Source & Lead		

  
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13	Drawings to be enclosed		
	a. MLP with counters including compliance of remarks, if any.		
	b. Approved Architectural Drawings		
	c. Plumbing & water supply distribution lines		
	d. Sewage System		
	e. Storm Water Drainage		
	f. Electrical Services schedules e.g. Sub-station, LED street Lights, Distribution UG cable layout		
	g. Details of electrical inventories		
	h. Local body approval details		
14	<b>Deployment plan of Engineers (Name, Designation, Experience of Engineer to be deployed at respective EMRS location for supervision and quality control.)</b>		
15	Quality control measures i.e. mandatory tests, Checklists		
16	Undertaking for environmental risk/legal/contractual risk		
17	Undertaking with regards to any hindrance such as encroachment/HT Transmission Lines/LT Lines/Public Road, etc to commence work		
18	Site specific issue if any requiring attention of EMRS to commence the work		
19	Preferred Make List issued by NESTS dated 04.03.2021(R-1)		
20	TPQA Proposal		

  
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### ANNEXURE-III

#### **Sub.: C/o Minutes of the Meeting held with Architectural & Structural Consultants regarding structural details on 01.06.2021.**

The meeting was organized to sort out the queries of architect and engineering consultants on structural issues and to reach a consensus on frame work of structural members, sizes of columns & beams of buildings as per the prevailing IS Codal Provisions & other design parameters governing the structural designs of buildings.

In the meeting structural and architectural issues were discussed at length resulting into general consensus on the following issues to maintain uniformity of construction from place to place and fixing locations and size of structural members without affecting functionality and structural soundness of buildings.

1. 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.
2. Size of structural member shall be taken as per the Architectural/structural requirement of the structure; however, there was general consensus on the sizes of structural members as detailed below:
  - A. School Building:
    - (i) Column Size: Main Column 450x450 mm, Corridor Columns 350x350 mm, Porch Columns 450/500 mm diameter, Ramp Columns 300x450 mm, Additional columns in midspan of toilet block.
    - (ii) Beam Size: Main Beam 300x600 mm, Secondary Beams 300x450/500 mm and Ramp Beam 250x450.
    - (iii) Plinth Beams: 250x500 mm for Main Beams, 250x400 mm for Corridor beams and 250x450 mm for Ramp portion. Width may be taken as 230 or 250 mm depending upon size of the locally available bricks.
  - B. Hostel Building:
    - (i) Column Size: Columns 350x450 mm.
    - (ii) Beam Size: Main Beams 250x450/500 mm & toilet portion beams 250x600 mm.
    - (iii) Plinth Beams: 250x500 mm for longer spans & 250x400 mm for shorter spans. Width may be taken as 230 or 250 mm depending upon size of the locally available bricks.
    - (iv) Expansion joint shall be required in the corridor connecting two blocks.
  - C. Kitchen & Dining:
    - (i) Column Size: Dining Hall Central Columns - 400x400 mm, Dining Hall outer columns - 350x450 mm, Kitchen - 350 x 450 mm. Peripheral columns of kitchen, store, courtyard/Utensil Wash area, Dinning Entry - 250/300 x 400 mm
    - (ii) Beam Size: Hall Main Beams 300x600 mm, Other Beams 250x450 mm.
    - (iii) Plinth Beams 250x400 mm in general except larger span where it may be taken as 250x500 mm. The Width may be taken as 230 or 250 mm depending upon the size of locally available bricks.

  
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3. This may be taken as general guideline to facilitate estimation and to bring about uniformity in construction considering the fact that most of the buildings have standard models and design and floor loadings are also same. The Construction Agencies may design the building based on the guidelines following IS Code provisions and other established design parameters, earthquake Zone factor, bearing capacity, soil strata, etc and share the same with this office before its submission for vetting by NIT/IITs.

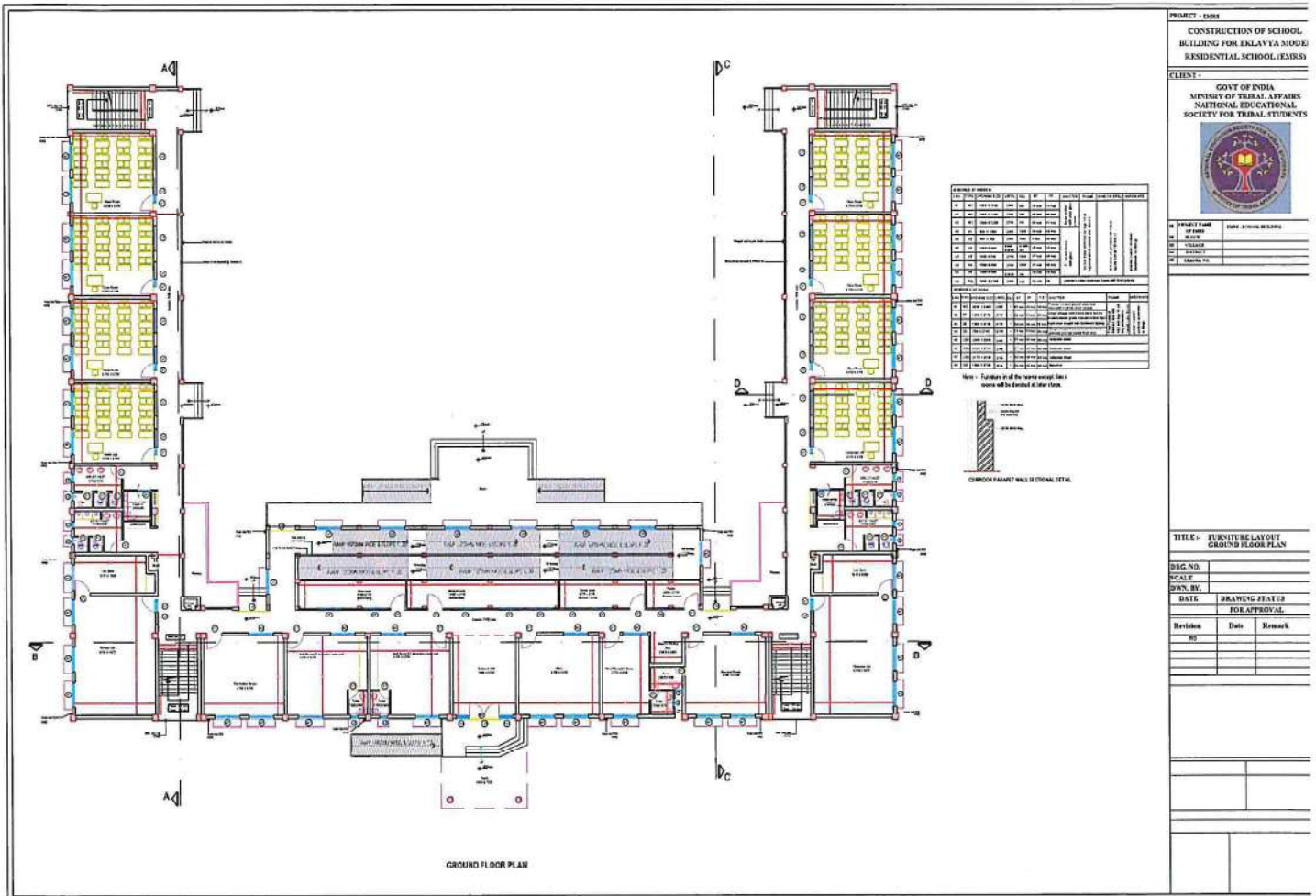
**List of participants in the meeting dtd 01.06.2021:**

1. Shri A D P Keshri, Chief Engineer Civil, NESTS
2. Shri P. K. Garg, EE(C), NESTS
3. Shri Narendra Kumar, EE(C), NESTS
4. Shri Anil Kumar, GM, HSCL Ranchi
5. Shri Amit Sinha, Zonal Manger NPCC Ranchi
6. Shri Bhaskar Dadsena, Additional GM (Engineering) , HSCL Mumbai
7. Shri Rajiv Kumar Mishra, DGM, HSCL
8. Ms. Bhavishya, Engineer, WAPCOS
9. Shri Ashwini Singh, Engineer, HSCL.Odisha
10. Shri Sandip Jha- Axis Architect & Urban Planner
11. Shri Amit Parshar, Structural Consultant, Axis Architect
12. Shri Vivek Choudhary, Consultant, Ranchi Design
13. Shri T K Ghosh – Structural Consultant, Ranchi Design
14. Shri Balbir Singh, Mridunanjali Architect Pvt Ltd
15. Shri Sanjay Jaysawal, Structural Consultant, Mridunanjali Architect
16. Shri Ashish Kumar, Architect Consultant, Enarch Ltd.
17. The Architect, D Idea Consultant (EMRS Project Dadar Nagar Haveli)
18. Shri Purushotam, the Structural Consultant (EMRS Project Dadar Nagar Haveli)
19. Shri Parineet, Engineer,
20. Shri Yetinder Mathur, Architect.
21. Shri C.P Kukreja, Consultant
22. Shri Amit Arya, Architect
23. Shri Amit Parashar, Structural Engineer
24. Shri Arnav, Architect (WAPCOS)
25. Shri Varun, Strucural Consultant (WAPCOS)
26. Shri Santsh, AAD Architect, Chennai
27. Shri Revati Raman, REPL, NOIDA

  
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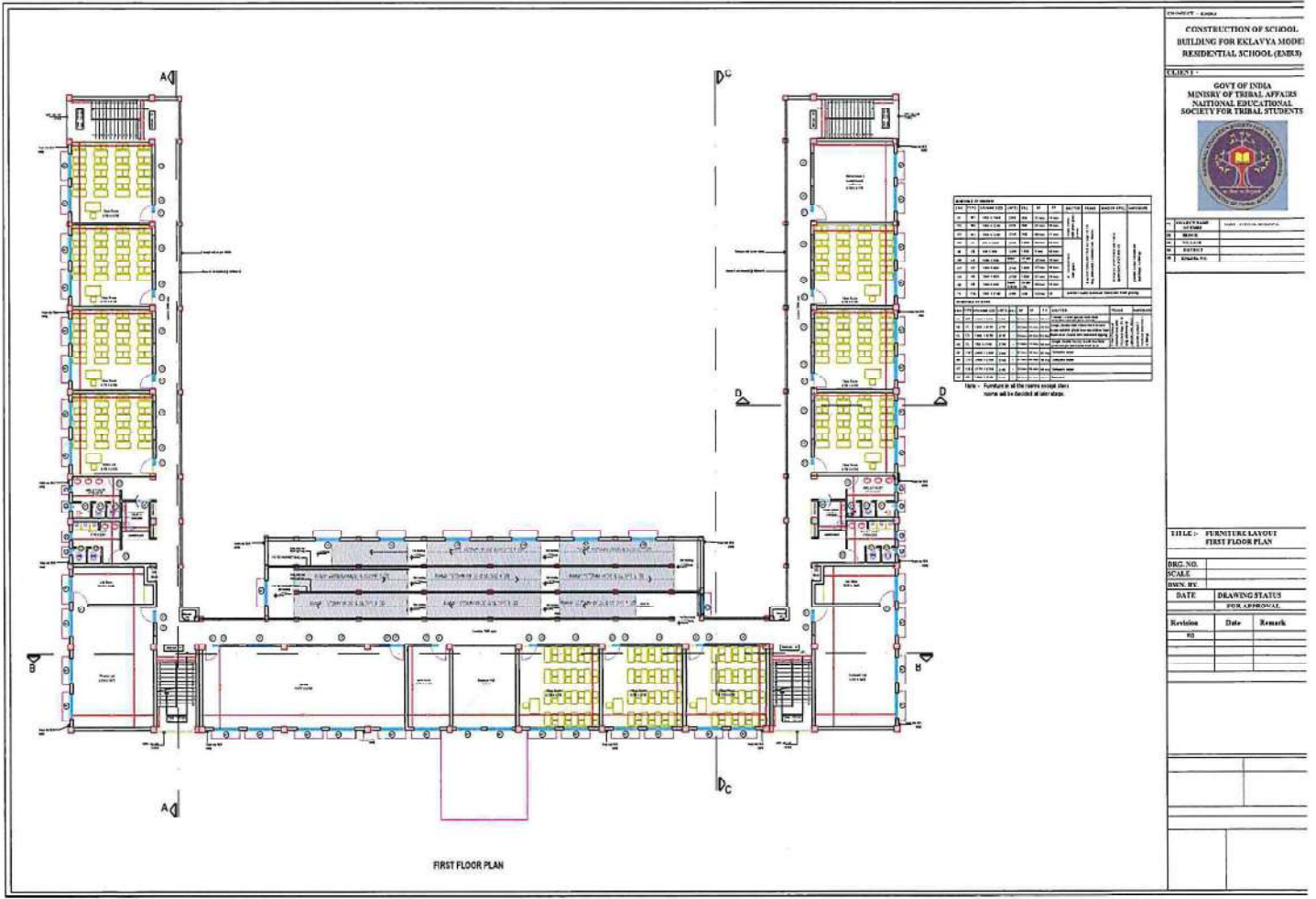
  
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Annexure B-I



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 (E.L.C.), INESTS

*J.K.*  
 (NARENDRA KUMAR)



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 (CECC), NESTS

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 (NARENDRA KUMAR)










**PROJECT - ENDS**

**CONSTRUCTION OF SCHOOL BUILDING FOR EKILAYYA MODE RESIDENTIAL SCHOOL (ENRS)**

**CLIENT -**

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



PROJECT NAME	DATE & DRAWN BY
SCALE	
BY	
IN CHARGE	
APPROVED	
DATE	

**TITLE - ELEVATION 3**

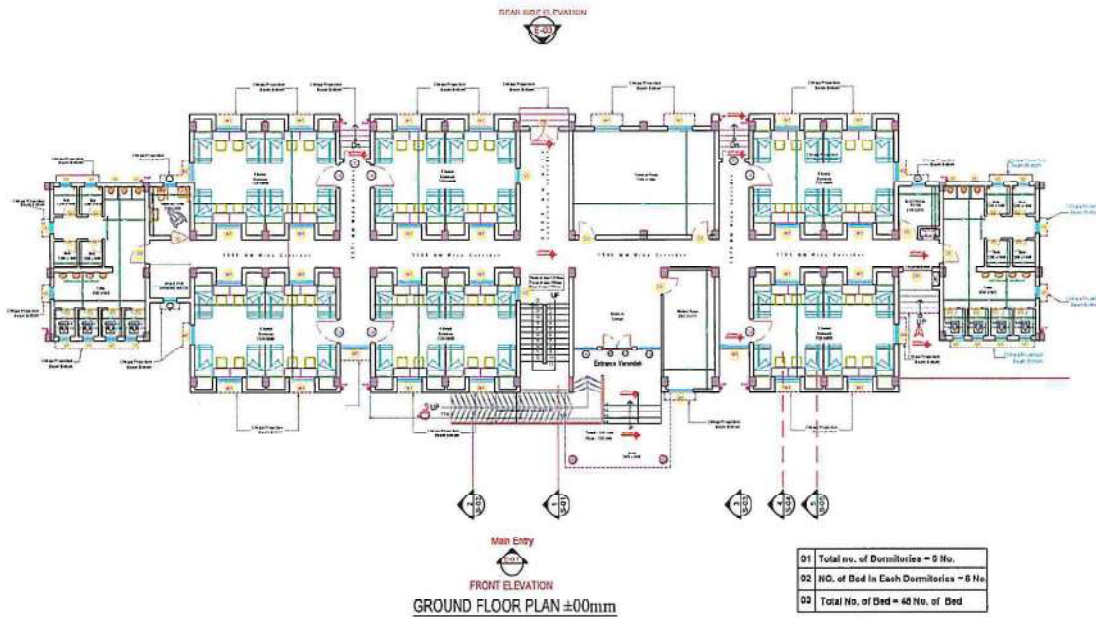
DRG. NO.	
SCALE	
DRW. BY	
DATE	
APPROVAL STATUS FOR APPROVAL	
Revision	Date Remark
1st	

CE (C/NESTS)

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(NARENDRA KUMAR)



Annexure B-II



- 01 Total no. of Dormitories - 0 No.
- 02 NO. of Bed in Cash Dormitories - 6 No.
- 02 Total No. of Bed = 40 No. of Bed

DOOR SCHEDULE								SPECIFICATION OF WINDOW		
S.N	TYPE	SIZE (mm)	GLL HT (mm)	LIN HT (mm)	GF (mm)	FF (mm)	TF (mm)	Total (mm)	FRAME	DETAILS
1	D1	1500 x 2100	0	2100	18	18	—	22	ALUMINUM	Entrance door shall be provided with powder coated Aluminum Glazed Door with Collapsible Door.
2	D2	900 x 2100	0	2100	3	—	—	2	ALUMINUM	Wash Area & Toilet shall have 25mm Pvc & shall be Factory made machines mounted on Aluminium Floor Door. Shutter of exterior glaze in single leaf.
3	D3	1200 x 2100	0	2100	8	8	—	16	ALUMINUM	Shutter will have 25mm Pvc Non-occlusive 1 leaf door in single leaf including leak wood edge strip except wash area with outside floor door stopper and synthetic enamel panels on both sides. The door closer in Wash office.
4	D4	1000 x 2100	0	2100	4	4	—	8	ALUMINUM	
5	D5	1200 x 2100	0	2100	3	—	—	3	ALUMINUM	
6	D6	900 x 2100	0	2100	3	—	—	3	ALUMINUM	
7	D7	900 x 2100	0	2100	3	—	—	3	ALUMINUM	
8	D8	1500 x 2100	0	2100	3	—	—	3	ALUMINUM	
9	D9	1500 x 2100	0	2100	3	—	—	3	ALUMINUM	COLLAPSIBLE DOOR AS PER DETAIL

WINDOW SCHEDULE								SPECIFICATION OF WINDOW		
S.N	TYPE	SIZE (mm)	GLL HT (mm)	LIN HT (mm)	GF (mm)	FF (mm)	TF (mm)	Total (mm)	FRAME	DETAILS
1	W1	1300 x 1800	1550	2050	28	33	—	61	ALUMINUM	Resistor & Ventilation emergency process shall be plain glass panels. The Window shall be fixed and non-operable Shutter.
2	W2	1200 x 2100	200	2050	2	—	—	22	ALUMINUM	
3	W3	—	—	—	—	—	—	—	ALUMINUM	
4	W4	1500 x 1800	1050	2050	—	1	—	61	ALUMINUM	
5	W5	1500 x 1800	1050	2050	3	4	—	67	ALUMINUM	The glazed window shutter shall be open outside and the mesh shutter shall be open inside. Tiled portion window & ventilator shall be with frosted glass panels. The window shall be fixed with the required features like stays and fasteners.
6	W6	1000 x 1800	1050	2050	1	4	—	58	ALUMINUM	
7	W7	700 x 2100	2250	2050	3	2	—	58	ALUMINUM	
8	W8	600 x 2100	2250	2050	11	12	—	54	ALUMINUM	
9	W9	800 x 2100	2250	2050	2	4	—	66	ALUMINUM	
10	W10	600 x 1200	1650	2050	1	4	—	66	ALUMINUM	

PROJECT - 0000

CONSTRUCTION OF BOYS HOSTEL, B.L. B.L.A.V.A MODEL RESIDENTIAL, SCHOOL (B.O.B.S)

GOVT OF INDIA  
MINISTRY OF HIGHER EDUCATION  
NATIONAL EDUCATIONAL SOCIETY FOR TRIBAL STUDENTS

PROJECT NAME: B.L. B.L.A.V.A MODEL RESIDENTIAL  
NO. OF SHEETS: 01  
DATE: / /  
DRAWING STATUS: FOR APPROVAL

REVISIONS:

Revise	Date	Remark

*(Signature)*  
CELG, NESTS

*(Signature)*  
(NARENDRA KUMAR)

PROJECT - 0108  
CONSTRUCTION OF BPO'S HOSTEL IN  
DELAVTA NAGRI, RESIDENTIAL  
SCHOOL, GURGAO

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

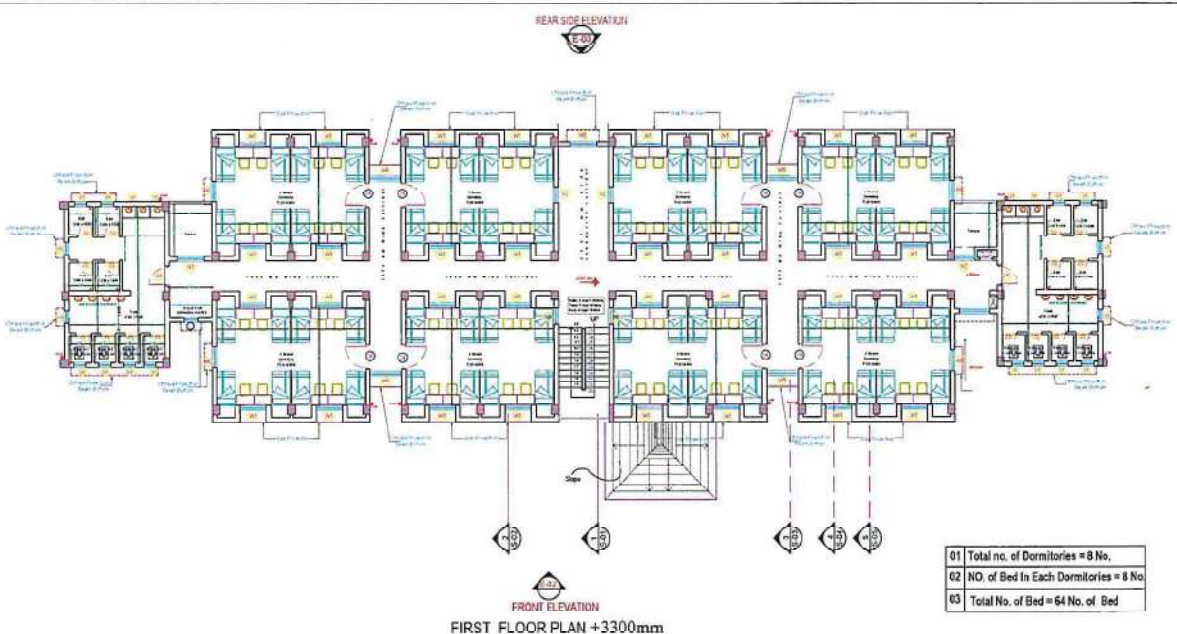


PROJECT NO.	0108
SCALE	AS SHOWN
DATE	
DRAWING STATUS	FOR APPROVAL

TITLE - FIRST FLOOR FURNITURE  
LAYOUT PLAN

DATE	
DRAWING STATUS	FOR APPROVAL

Revise	Date	Remark



- 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

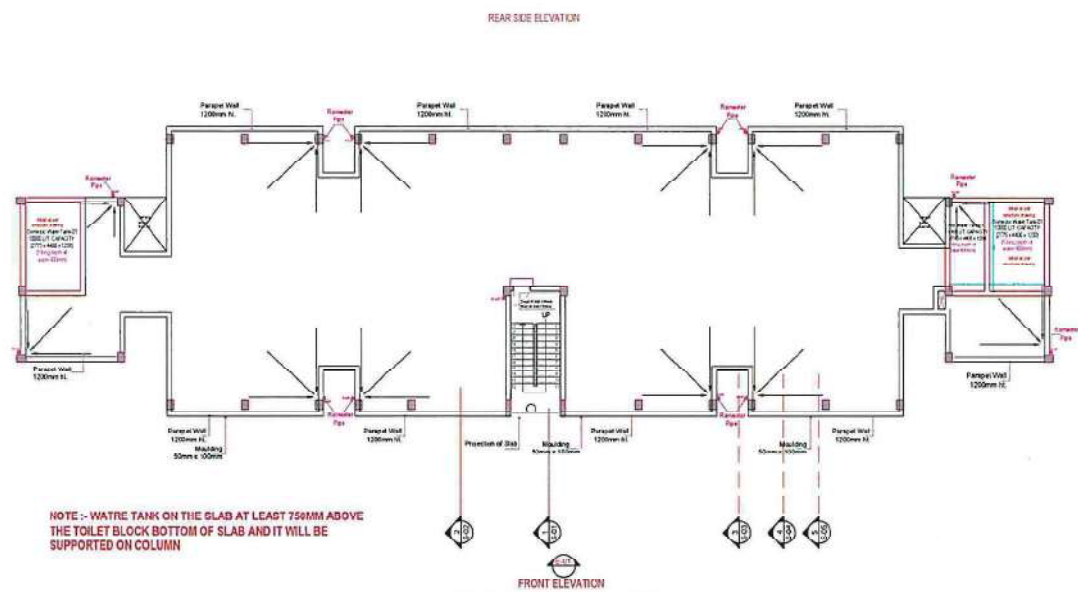
DOOR SCHEDULE								SPECIFICATION OF WINDOW		
S/N	TYPE	SIZE (mm)	SLL HT (mm)	LN HT (mm)	GF (mm)	FF (mm)	TF (mm)	Total (mm)	FRAME	SHUTTER
1	GD	1500 X 2100	0	2100	1	-	-	1	Aluminum door shall be associated with powder coated Aluminum Glazed Door with Collapsible Door	
2	CD	750 X 2100	0	2100	16	16	-	17	Wash Area & Toilet shall have 25mm thick & shall be Factory made, made up of ceramic tile, laminated Flush Door Shutter of exterior grade in single leaf	
3	D3	900 X 2100	0	2100	3	-	-	3	Note: all have 35mm thick fire decorative Flush Door in single leaf including back wood edge being exposed wash area with rubber floor door stoppers and synthetic enamel paints on both sides the door closer in Vivian office.	
4	D4	1200 X 2100	0	2100	6	6	-	12		
5	D5	1000 X 2100	0	2100	4	4	-	8		
6	DK	1200 X 2100	0	2100	1	-	-	1		
7	DT	900 X 2100	0	2100	1	-	-	1		
8	DE	1500 X 2100	0	2100	1	-	-	1		
9	DF	1500 X 2100	0	2100	1	-	-	1		

WINDOW SCHEDULE										SPECIFICATION OF WINDOW	
S/N	TYPE	SIZE (mm)	SLL HT (mm)	LN HT (mm)	GF (mm)	FF (mm)	TF (mm)	Total (mm)	FRAME	SHUTTER	
1	WT	1000 X 1800	1800	1800	24	24	-	24	Aluminum window frame with powder coated Aluminum Glazed Door with Collapsible Door		
2	CL	1250 X 2250	300	2650	3	-	-	3			
3	WO	-	-	-	-	-	-	-			
4	WW	1500 X 1800	1800	1800	1	-	-	1			
5	WS	1570 X 1870	1800	1800	3	4	-	7			
6	WV	1000 X 1800	1800	1800	4	4	-	8			
7	V	700 X 1000	2250	1850	3	3	-	6			
8	V1	800 X 1000	2250	1850	12	12	-	24			
9	V2	800 X 1000	2250	1850	3	4	-	7			
10	V3	800 X 1200	1650	1850	4	4	-	8			

*(Signature)*  
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(NARENDRA KUMAR)

SIDE ELEVATION



**TERRACE FLOOR PLAN +6600 mm**

DOOR SCHEDULE									
S/N	TYPE	SIZE (MM)	GL. HT (MM)	L/H HT (MM)	GF (NO)	FF (NO)	TF (NO)	Total (NO)	SPECIFICATION OF WINDOW
1	C1	1000 X 2100	0	2100	1	-	-	1	<p>Entrance door shall be provided with powder coated Aluminum Glazed Door with Galvanized Door</p> <p>Wash Area &amp; Toilet and Urine Urine Wash &amp; Shower Facility made machine pressed pre-laminated Flush Door Shutter of exterior grade in single leaf</p> <p>Urinal will have 20mm Thick Non decorative Flush Door in single leaf including both eel edge latch except wash area with rubber floor door stoppers and synthetic enameled paints on both sides. The door closer in Warden office.</p>
2	C2	750 X 2100	0	2100	18	18	-	36	
3	C3	800 X 2100	0	2100	3	-	-	3	
4	C4	1000 X 2100	0	2100	3	-	-	3	
5	D6	1000 X 2100	0	2100	4	-	-	4	<p>Collapsible door as per detail</p>
6	D7	900 X 2100	0	2100	-	-	-	1	
7	D8	1500 X 2100	0	2100	1	-	-	1	
8	D9	1500 X 2100	0	2100	1	-	-	1	

WINDOW SCHEDULE									
S/N	TYPE	SIZE (MM)	GL. HT (MM)	L/H HT (MM)	GF (NO)	FF (NO)	TF (NO)	Total (NO)	SPECIFICATION OF WINDOW
1	W1	1200 X 1800	1050	2850	3	3	-	6	<p>Window &amp; Ventilator except toilet portion shall be part glass panels. The window shall be fixed and rest part operable shutters.</p> <p>The glazed window shutter shall be open outside and the mesh shutter shall be open inside. Toilet portion window &amp; Ventilator shall be with toilet glass panels. The window shall be fixed with the required fixtures like slays and fasteners.</p>
2	W2	1200 X 2250	1050	2850	2	-	-	2	
3	W3	-	-	-	-	-	-	-	
4	W4	1500 X 1800	1050	2850	-	1	-	1	
5	W5	1500 X 1800	1050	2850	1	1	-	2	
6	W6	1900 X 1800	1050	2850	4	4	-	8	
7	V1	700 X 800	2250	2850	2	2	-	4	
8	V2	600 X 800	2250	2850	16	16	-	32	
9	V3	600 X 800	2250	2850	2	2	-	4	
10	V4	800 X 1200	1050	2850	4	4	-	8	
11	V5	1500 X 2100	2100	2850	1	-	-	1	

**PROJECT - DATA**

CONSTRUCTION OF GIRLS HOSTEL, BL  
BILAPVA MOHSI, ARBODHICAL  
SCHOOL, (BMS)

**CLIENT -**

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



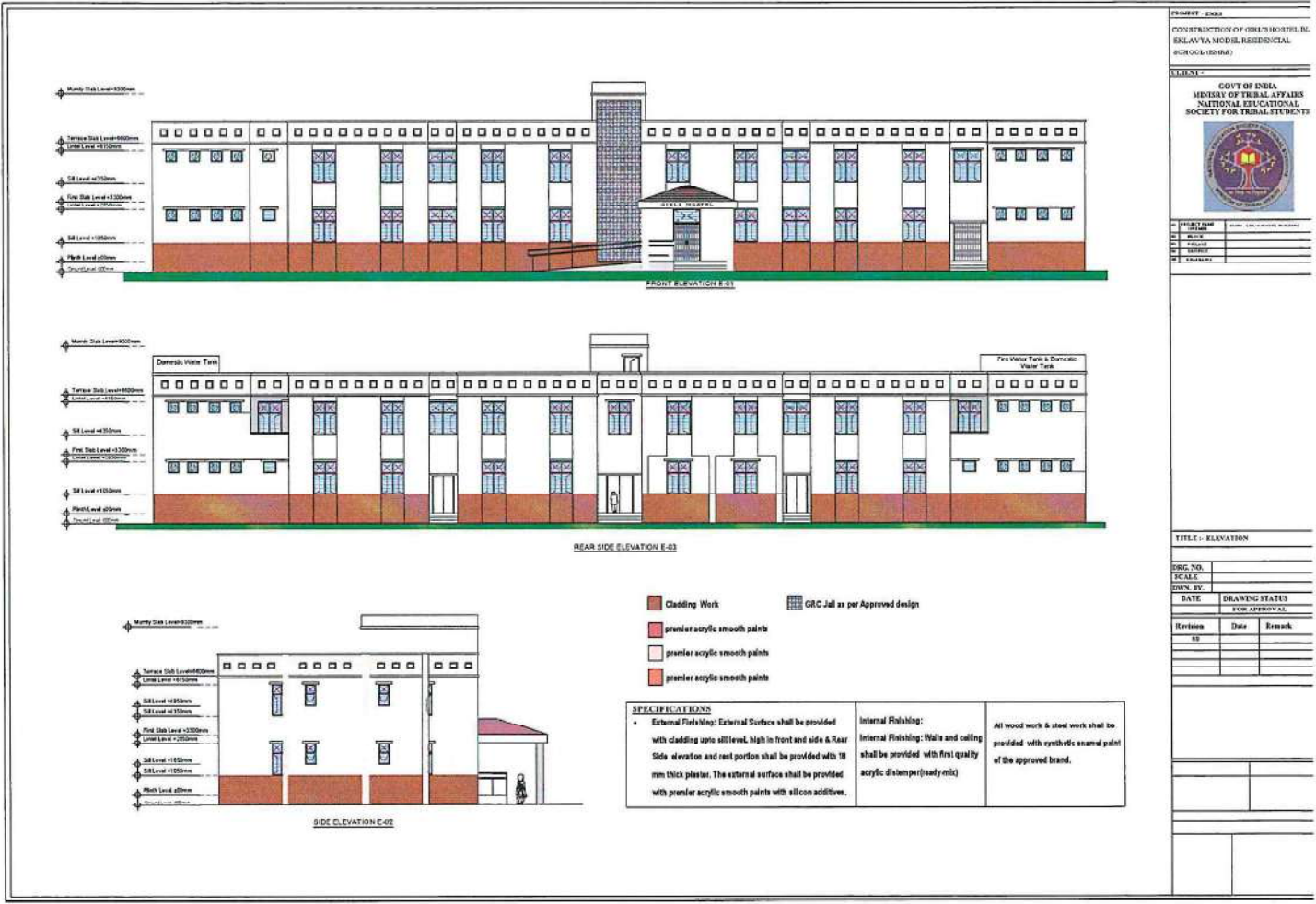
DATE: 15/08/2023  
SCALE: AS SHOWN  
DRAWN BY: [Signature]  
CHECKED BY: [Signature]  
APPROVED BY: [Signature]

**TITLE: TERRACE FLOOR WORKING PT**

DEG. NO. \_\_\_\_\_  
SCALE \_\_\_\_\_  
DWN. BY \_\_\_\_\_  
DATE \_\_\_\_\_  
FOR APPROVAL \_\_\_\_\_  
REVISION \_\_\_\_\_  
DATE \_\_\_\_\_  
REMARK \_\_\_\_\_

*Handwritten signature*  
C/E (C), NESTS

*Handwritten signature*  
(NARENDRA KUMAR)



PROJECT DATA

CONSTRUCTION OF GURU NANAK DEV ENCLAVA MODEL RESIDENTIAL @GROU-15016A)

CLIENT

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

DESIGNED BY	DATE	SCALE
DRAWN BY	DATE	SCALE
CHECKED BY	DATE	SCALE
APPROVED BY	DATE	SCALE

TITLE : ELEVATION

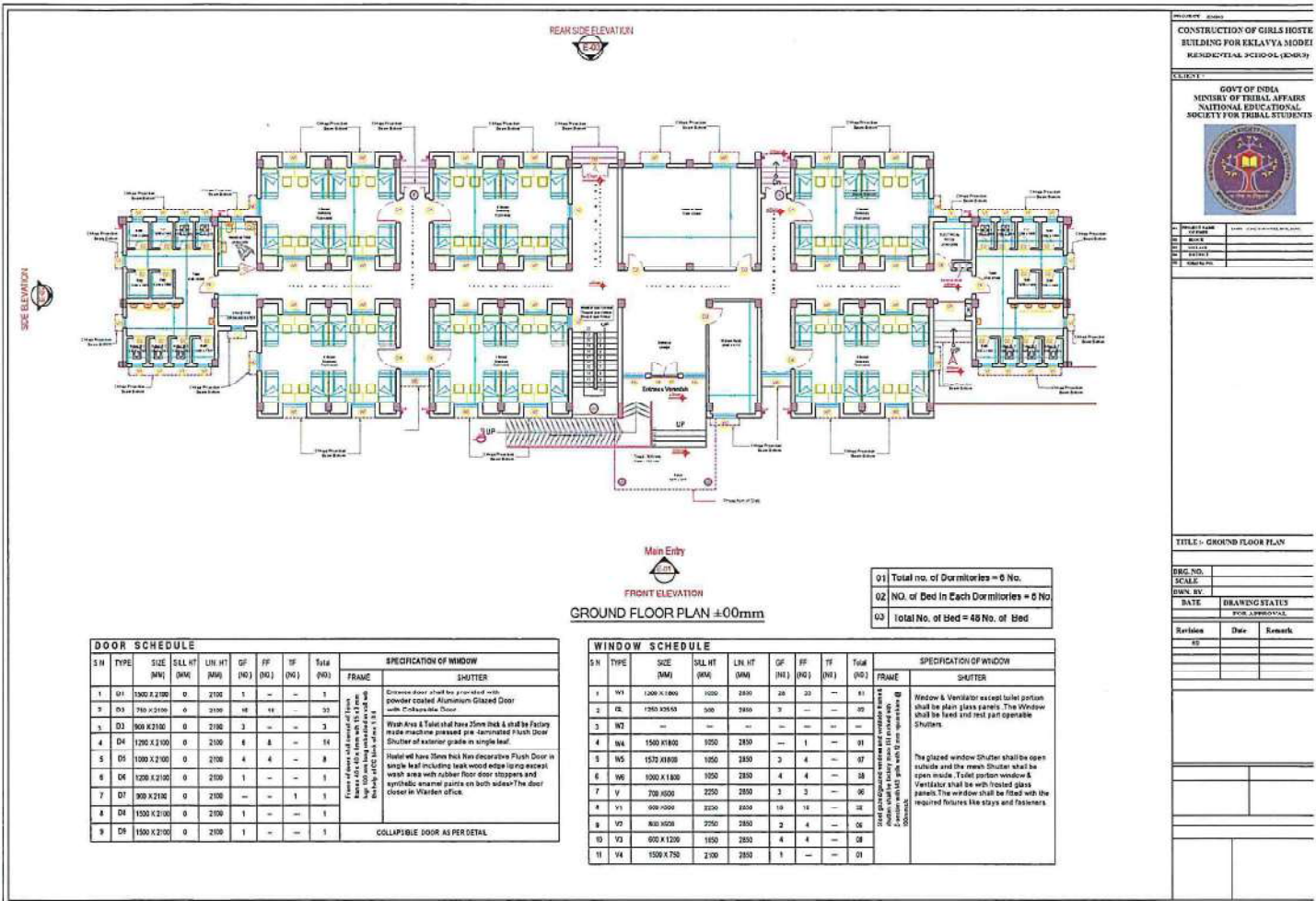
ORG. NO.		
SCALE		
DATE		
DRAWING STATUS		
FOR APPROVAL		
Revision	Date	Remark
01		

*AK*  
(R.C., NESTS)

*N.K.*  
(NARENDRA KUMAR)



Annexure B-III



PROJECT CODE: \_\_\_\_\_

CONSTRUCTION OF GIRLS HOSTEL BUILDING FOR EKLAHYA MODEL REINTEGRATED SCHOOL (KORCHI)

CLIENT: \_\_\_\_\_

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



NO.	DATE	BY	FOR APPROVAL

TITLE: GROUND FLOOR PLAN

DRG. NO.	SCALE

DATE	DRAWING STATUS


Revise	Date	Remark

*AK*  
CEC, NESTS

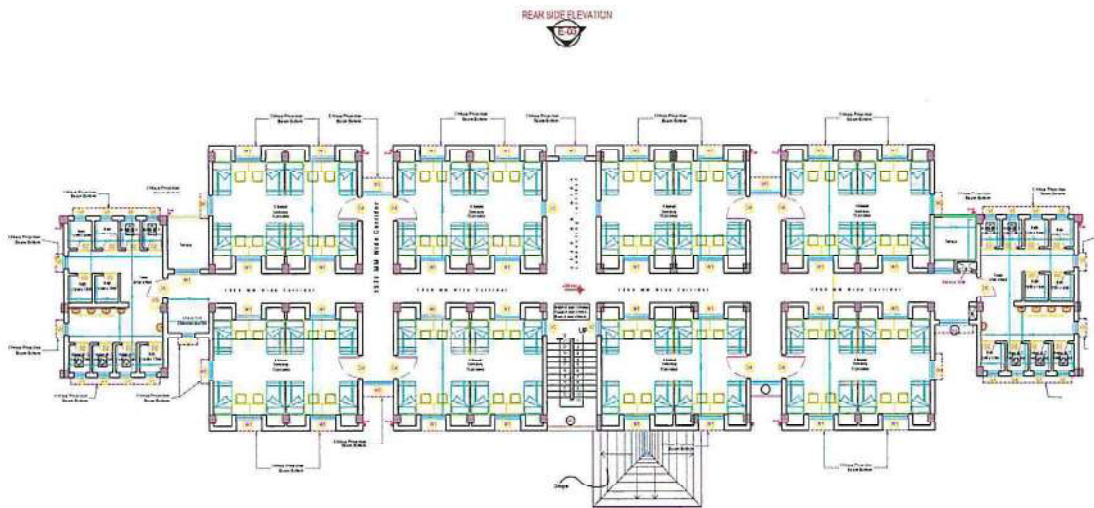
*N.K.*  
(NARENDRA KUMAR)

PROJECT - 0085  
**CONSTRUCTION OF GIRLS HOSTEL**  
 BHUJ BHNGE SONG KEY A.V.V. MEDICAL  
 RESIDENTIAL SCHOOL (BMS)

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



NO. OF SHEETS: 01  
 SHEET NO: 01  
 DATE: 01/01/2020  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]



- 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

FRONT ELEVATION  
**FIRST FLOOR PLAN +3300mm**

S/N	TYPE	SIZE (MM)	MATERIAL	L/H	HT	GF	FF	TF	Total	SPECIFICATION OF WINDOW	
										FRAME	SHUTTER
1	D1	1500 X 2100	E	2100	1	-	-	-	1	Aluminum	Enter door shall be provided with double vertical Aluminium Glazed Door with Collapsible Door.
2	D2	750 X 2100	E	2100	18	18	-	-	32	Aluminum	Wash-Rinse & Toilet chamber door with a unit as factory made machine pressed pre-laminated Flush Door. Number of lockers given as single wall.
3	D3	900 X 2100	E	2100	3	-	-	-	2	Aluminum	Wash-Rinse & Toilet chamber door with a unit as factory made machine pressed pre-laminated Flush Door. Number of lockers given as single wall.
4	D4	1500 X 2100	E	2100	4	8	-	-	11	Aluminum	Wash-Rinse & Toilet chamber door with a unit as factory made machine pressed pre-laminated Flush Door. Number of lockers given as single wall.
5	D5	1500 X 2100	E	2100	2	4	-	-	6	Aluminum	Wash-Rinse & Toilet chamber door with a unit as factory made machine pressed pre-laminated Flush Door. Number of lockers given as single wall.
6	D6	1500 X 2100	E	2100	1	-	-	-	1	Aluminum	Wash-Rinse & Toilet chamber door with a unit as factory made machine pressed pre-laminated Flush Door. Number of lockers given as single wall.
7	D7	900 X 2100	S	2100	-	-	-	-	1	Aluminum	Wash-Rinse & Toilet chamber door with a unit as factory made machine pressed pre-laminated Flush Door. Number of lockers given as single wall.
8	D8	1500 X 1100	O	2100	1	-	-	-	1	Aluminum	Wash-Rinse & Toilet chamber door with a unit as factory made machine pressed pre-laminated Flush Door. Number of lockers given as single wall.
9	D9	1500 X 1100	C	2100	1	-	-	-	1	Aluminum	Wash-Rinse & Toilet chamber door with a unit as factory made machine pressed pre-laminated Flush Door. Number of lockers given as single wall.

S/N	TYPE	CODE	L/H	HT	GF	FF	TF	Total	SPECIFICATION OF WINDOW		
									FRAME	SHUTTER	
1	W1	1500 X 1000	1000	2050	18	33	-	-	81	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
2	W2	1500 X 2050	300	2050	2	-	-	-	22	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
3	W3	-	-	-	-	-	-	-	-	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
4	W4	1500 X 1000	1000	2050	1	-	-	-	21	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
5	W5	1500 X 1000	1000	2050	1	4	-	-	27	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
6	W6	1500 X 1000	1000	2050	1	8	-	-	28	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
7	W7	700 X 1000	2250	2050	2	1	-	-	26	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
8	W8	600 X 1000	2250	2050	10	10	-	-	32	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
9	W9	600 X 1000	2250	2050	2	4	-	-	26	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
10	W10	600 X 1000	2250	2050	4	4	-	-	28	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.
11	W11	1500 X 750	2100	2050	1	-	-	-	21	Aluminum	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not part operable window.

*[Signature]*  
 (BCC), NE STS

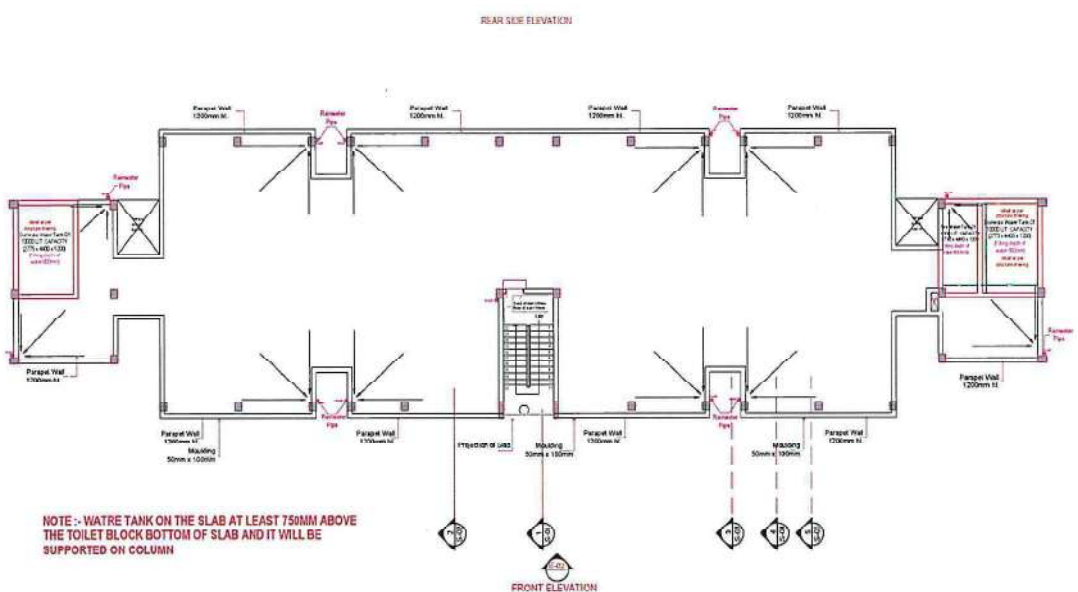
*[Signature]*  
 (NARENDRA KUMAR)

PROJECT - ENBA  
CONSTRUCTION OF BOYS HOSTEL, BGL  
DELAHYA MOOGL RESIDENCIAL  
SCHOOL (BGS)

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



PROJECT NAME	BOYS HOSTEL BGL
DATE	
DESIGNER	
SCALE	
REVISION	



NOTE :- WATER TANK ON THE SLAB AT LEAST 750MM ABOVE THE TOILET BLOCK BOTTOM OF SLAB AND IT WILL BE SUPPORTED ON COLUMN

TERRACE FLOOR PLAN | 6600 mm

DOOR SCHEDULE									
S/N	TYPE	SIZE (MM)	SALL HT (MM)	LIN HT (MM)	GF (NO)	FF (NO)	TF (NO)	Total (NO)	SPECIFICATION OF WINDOW
1	G1	1500 X 2100	0	2100	1	-	-	1	Entrance door shall be provided with powder coated Aluminium Coated Door with Collapsible Door.
2	D1	750 X 2100	0	2100	10	10	-	20	Wash Area & Toilet shall have 15mm thick & shall be Factory made machine pressed pre-painted Flush Door Shutter of exterior grade in single leaf.
3	D2	800 X 2100	0	2100	3	-	-	3	
4	D4	1200 X 2100	0	2100	8	8	-	16	
5	D5	1000 X 2100	0	2100	4	4	-	8	Hotel will have 15mm thick decorative Flush Door in single leaf in all the level - wood veneer facing on both wash area with rubber floor door stoppers and synthetic enamel paints on both sides. The door closer in Warden office.
6	D6	1200 X 2100	0	2100	1	-	-	1	
7	D7	800 X 2100	0	2100	1	-	1	2	
8	D8	1500 X 2100	0	2100	1	-	-	1	
9	D9	1500 X 2100	0	2100	1	-	-	1	COLLAPSIBLE DOOR AS PER DETAIL

WINDOW SCHEDULE									
S/N	TYPE	SIZE (MM)	SALL HT (MM)	LIN HT (MM)	GF (NO)	FF (NO)	TF (NO)	Total (NO)	SPECIFICATION OF WINDOW
1	W1	1000 X 1800	1000	2550	28	22	-	50	Window & Ventilator except toilet portion shall be plain glass panels. The Window shall be fixed and not operable Shutters.
2	W2	1200 X 2100	900	2550	2	-	-	2	
3	W3	-	-	-	-	-	-	-	
4	W4	1500 X 1800	1000	2550	-	1	-	1	
5	W5	1000 X 1800	1000	2550	2	4	-	6	
6	W6	1500 X 1800	1000	2550	4	4	-	8	
7	W7	750 X 2100	2250	2550	3	2	-	5	
8	W8	800 X 2100	2250	2550	10	10	-	20	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.
9	W9	800 X 2100	1800	2550	2	4	-	6	
10	W10	800 X 1200	1800	2550	4	4	-	8	

TITLE - TERRACE FLOOR WORKING

DRG. NO.	
DATE	
DESIGNER	
SCALE	
REVISION	

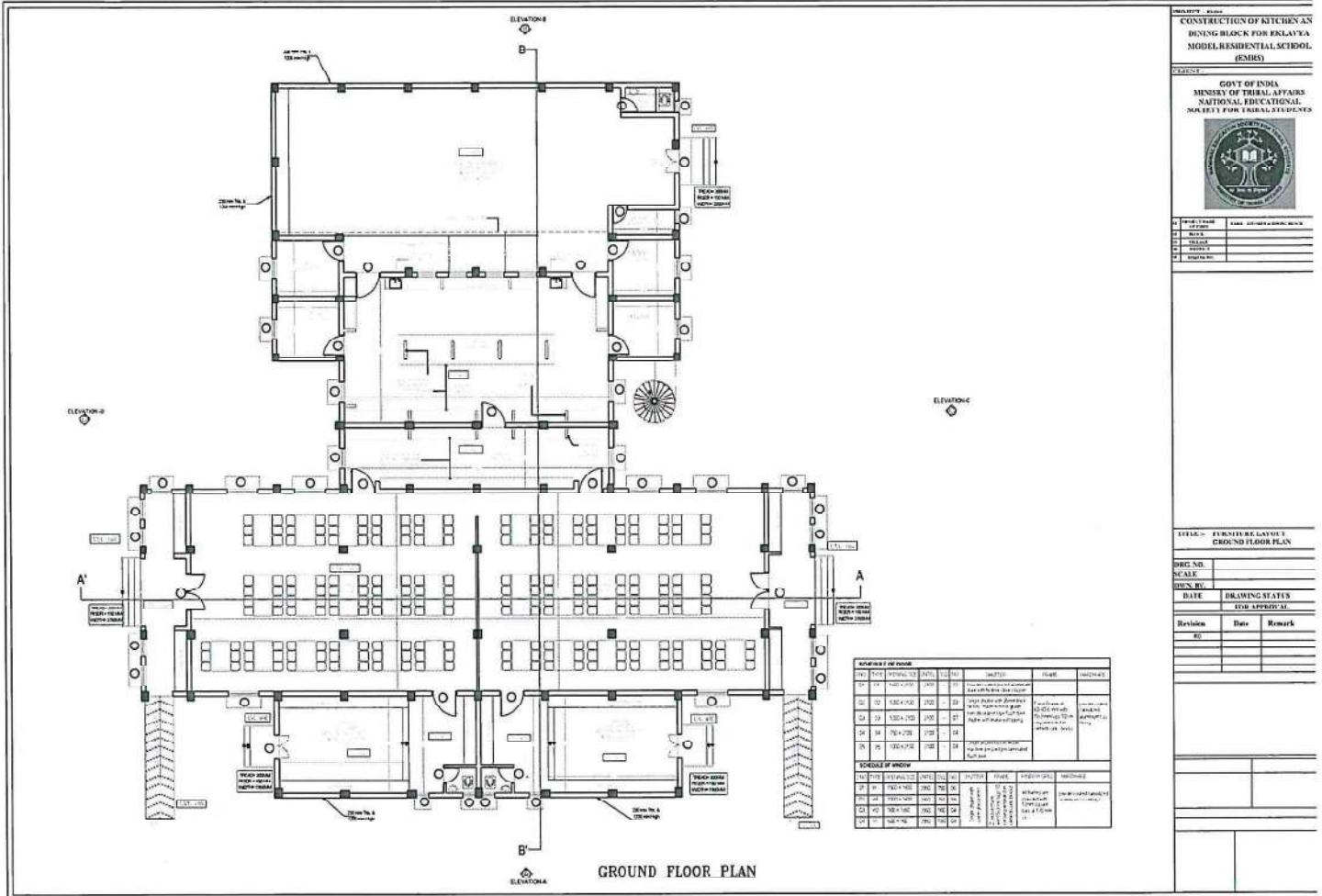
Rev.	Date	Remarks

*AK*  
K (ECC), NESTS

*JK*  
(NARENDRA KUMAR)

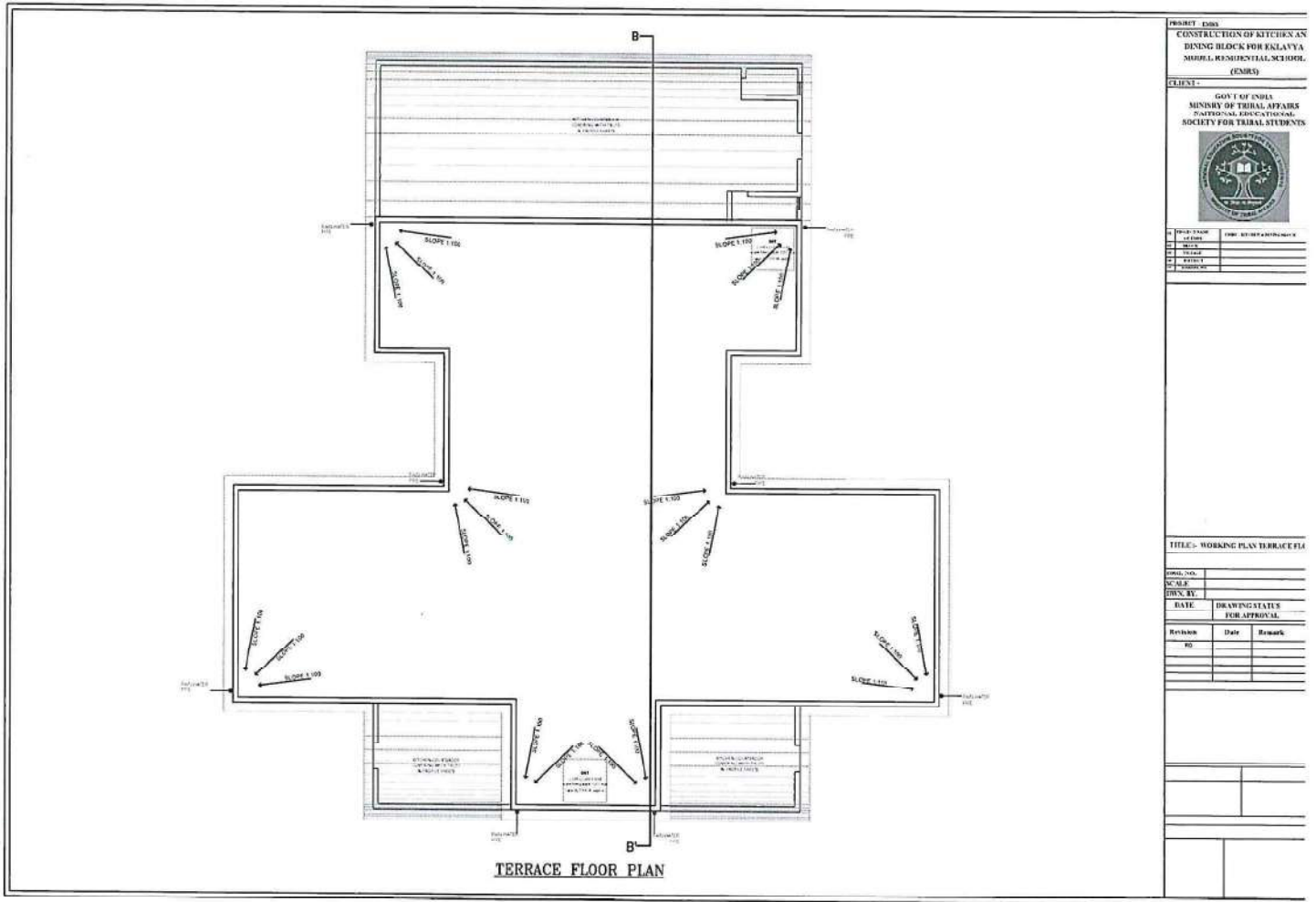


Annexure B-IV




*AK*  
CECC, NESTS

*NOK.*  
12-10-21  
(NARENDRA KUMAR)



PROJECT: 1000  
**CONSTRUCTION OF KITCHEN AND DINING BLOCK FOR KALAYYA MODEL RESIDENTIAL SCHOOL (CMRS)**  
 CLIENT: GOVT OF INDIA  
 MINISTRY OF TRIBAL AFFAIRS  
 NATIONAL EDUCATIONAL SOCIETY FOR TRIBAL STUDENTS



1	PROJ. NAME	1000
2	AREA	
3	SCALE	
4	DATE	
5	PROJECT	
6	DESCRIPTION	

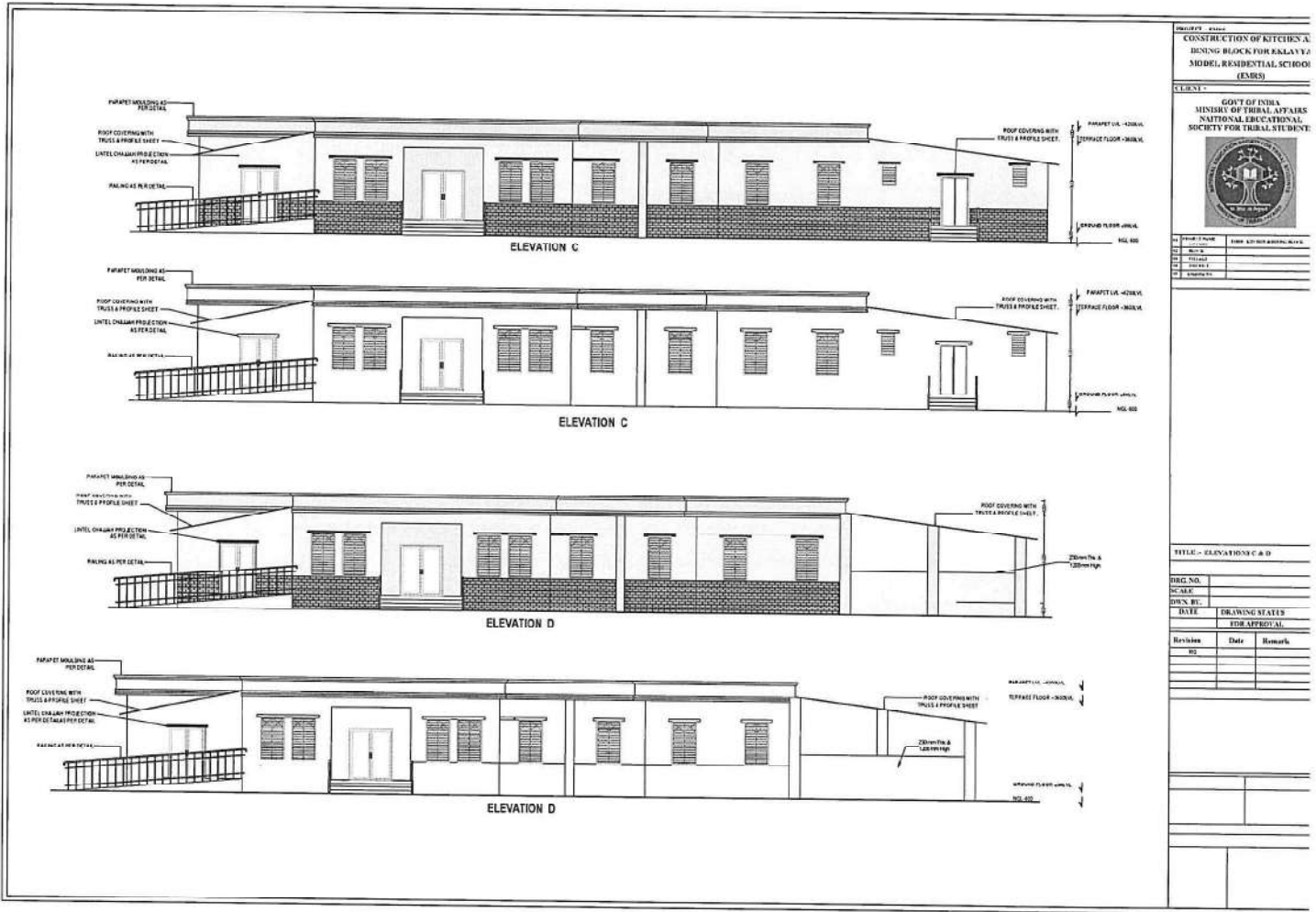
TITLE: WORKING PLAN TERRACE FLOOR PLAN

NO.	DATE	REVISION

*[Signature]*  
 CE (C), NESTS

*[Signature]*  
 (NARENDRA KUMAR)





PROJECT NAME:  
**CONSTRUCTION OF KITCHENS & DINING BLOCK FOR KALAYYA SHIBDI, RESIDENTIAL SCHOOL (EMRS)**

CLIENT -  
**GOVT OF INDIA  
 MINISTRY OF TRIBAL AFFAIRS  
 SOCIETY FOR TRIBAL STUDENT**



NO	REVISION	DATE
01	ISSUE FOR APPROVAL	
02		
03		
04		

TITLE - ELEVATIONS C & D

DRG. NO.		
DRG. SET		
DATE		
DRAWING STATUS		
FOR APPROVAL		
Revision	Date	Remark
01		

CEC, NESTS

*(Signature)*  
 (NARENDRA KUMAR)



F.No. 18015/11/2019-EMRS(Pt.)  
Government of India  
Ministry of Tribal Affairs  
National Education Society for Tribal Students

Shastri Bhawan, New Delhi

Date: 04.08.2020

To

The Director (Elect.)  
Central Public Works Department (CPWD),  
Directorate of General Works Unit (Elect.),  
Room No. A-115, Nirman Bhawan,  
New Delhi-110011.

Sub: Architectural Drawings of EMRS for issue to the field units

Dear Sir,

I am directed to convey the approval of architectural drawings consisting of plans, elevations & sections of all buildings included in the EMRS. The architectural drawings were issued by mail dated 29.07.2020 by the Senior Architect (PRD)-II, O/o Chief Architect (PRD), CPWD, R K Puram, New Delhi. The architectural drawings (24 Nos) consists of plan, section and elevation of School Buildings, Boys' and Girls' Hostels including Warden Residences, Kitchen and Dining, Principal Quarter, Type III & Type II quarters, Guest House.

The drawings may be issued with following stipulation: -

1. The approved architectural plans of buildings shall be followed in Master Layout plan of the EMRS Complexes.
2. No deviation shall be permitted in plan, elevation & section of the buildings. In case of any deviation due to site constraint and land topography, etc. specific approval from the NESTS, New Delhi will be required
3. These drawings are issued for planning, designing and construction of EMRS. However, for the estimate purpose the approved buildings' plinth area of 9960 Sq mt for each EMRS shall be taken.
4. Each EMRS shall have master layout plan consisting of architectural plan, elevation and section of all buildings with title indicating the EMRS location. (Revised Checklist for MLP is enclosed)

It is requested to issue the complete set of architectural drawings to the concerned regional chief engineers for planning, designing and construction of EMRSs.

**Encl: As above**

Yours faithfully,

*K C Meena*  
04/08

(K C Meena)

Additional Commissioner (NESTS)

F.No. 18015/11/2019-EMRS (Pt.)  
Government of India  
Ministry of Tribal Affairs  
National Education Society for Tribal Students

Shastri Bhawan, New Delhi

Date: 04.08.2020

To  
The CMD  
MTDC Ltd  
Divisional Office,  
Keishamthong, Thangjam Leirak  
Imphal -7950001

**Sub: Issue of Architectural Drawings of EMRS.**

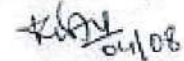
Dear Sir,

I am directed to convey the approval of architectural drawings consisting of plans, elevations & sections of all buildings included in the EMRS for reference. The drawings (24Nos) consists of architectural plan, section and elevation of School Buildings, Boys' and Girls' Hostels including Warden Residences, Kitchen and Dining, Principal Quarter, Type III & Type II quarters, Guest House.

1. The approved architectural plans of buildings shall be followed in Master Layout plan of the EMRS Complexes.
2. No deviation shall be permitted in plan, elevation & section of the buildings. In case of any deviation due to site constraint and land topography, etc specific approval from the NESTS, New Delhi will be required
3. These drawings are issued for planning, designing and construction of EMRS. However, for the estimate purpose the approved buildings' plinth area of 9960 Sq mt for each EMRS shall be taken.
4. Each EMRS shall have master layout plan consisting of architectural plan, elevation and section of all buildings with title indicating the EMRS location. (Revised Checklist for MLP is enclosed)

**Encl: As above**

Yours faithfully,



(K C Meena)

Additional Commissioner

F.No. 18015/11/2019-EMRS (Pt.)  
Government of India  
Ministry of Tribal Affairs  
National Education Society for Tribal Students

Shastri Bhawan, New Delhi  
Date: 04.08.2020

To  
The CMD  
NPCC Ltd  
Plot No 148, Sector 44  
Gurugram, Harayana

**Sub: Issue of Architectural Drawings of EMRS.**

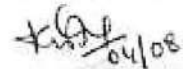
Dear Sir,

I am directed to convey the approval of architectural drawings consisting of plans, elevations & sections of all buildings included in the EMRS for reference. The drawings (24Nos) consists of architectural plan, section and elevation of School Buildings, Boys' and Girls' Hostels including Warden Residences, Kitchen and Dining, Principal Quarter, Type III & Type II quarters, Guest House.

1. The approved architectural plans of buildings shall be followed in Master Layout plan of the EMRS Complexes.
2. No deviation shall be permitted in plan, elevation & section of the buildings. In case of any deviation due to site constraint and land topography, etc specific approval from the NESTS, New Delhi will be required
3. These drawings are issued for planning, designing and construction of EMRS. However, for the estimate purpose the approved buildings' plinth area of 9960 Sq mt for each EMRS shall be taken.
4. Each EMRS shall have master layout plan consisting of architectural plan, elevation and section of all buildings with title indicating the EMRS location. (Revised Checklist for MLP is enclosed)

**Encl: As above**

Yours faithfully,



(K C Meena)

Additional Commissioner

F.No: 18015/11/2019-EMRS (Pl.)  
Government of India  
Ministry of Tribal Affairs  
National Education Society for Tribal Students

Shastri Bhawan, New Delhi

Date: 04.08.2020

To

The CMD  
TCIL Ltd  
TCIL Bhawan, Greater Kailash- 1,  
New Delhi 110048

**Sub: Issue of Architectural Drawings of EMRS.**

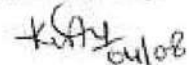
Dear Sir,

I am directed to convey the approval of architectural drawings consisting of plans, elevations & sections of all buildings included in the EMRS for reference. The drawings (24Nos) consists of architectural plan, section and elevation of School Buildings, Boys' and Girls' Hostels including Warden Residences, Kitchen and Dining, Principal Quarter, Type III & Type II quarters, Guest House.

1. The approved architectural plans of buildings shall be followed in Master Layout plan of the EMRS Complexes.
2. No deviation shall be permitted in plan, elevation & section of the buildings. In case of any deviation due to site constraint and land topography, etc specific approval from the NESTS, New Delhi will be required
3. These drawings are issued for planning, designing and construction of EMRS. However, for the estimate purpose the approved buildings' plinth area of 9960 Sq mt for each EMRS shall be taken.
4. Each EMRS shall have master layout plan consisting of architectural plan, elevation and section of all buildings with title indicating the EMRS location. (Revised Checklist for MLP is enclosed)

**Encl: As above**

Yours faithfully,



(K C Meena)

Additional Commissioner

F.No. 18015/11/2019-EMRS (PL.)  
Government of India  
Ministry of Tribal Affairs  
National Education Society for Tribal Students

Shastri Bhawan, New Delhi  
Date: 04.08.2020

To

The CMD  
WAPCOS Limited  
76-C Institutional Area, Sector -18,  
Gurugram 122015, Haryana

**Sub: Issue of Architectural Drawings of EMRS.**

Dear Sir,

I am directed to convey the approval of architectural drawings consisting of plans, elevations & sections of all buildings included in the EMRS for reference. The drawings (24Nos) consists of architectural plan, section and elevation of School Buildings, Boys' and Girls' Hostels including Warden Residences, Kitchen and Dining, Principal Quarter, Type III & Type II quarters, Guest House.

1. The approved architectural plans of buildings shall be followed in Master Layout plan of the EMRS Complexes.
2. No deviation shall be permitted in plan, elevation & section of the buildings. In case of any deviation due to site constraint and land topography, etc specific approval from the NESTS, New Delhi will be required
3. These drawings are issued for planning, designing and construction of EMRS. However, for the estimate purpose the approved buildings' plinth area of 9960 Sq mt for each EMRS shall be taken.
4. Each EMRS shall have master layout plan consisting of architectural plan, elevation and section of all buildings with title indicating the EMRS location. (Revised Checklist for MLP is enclosed)

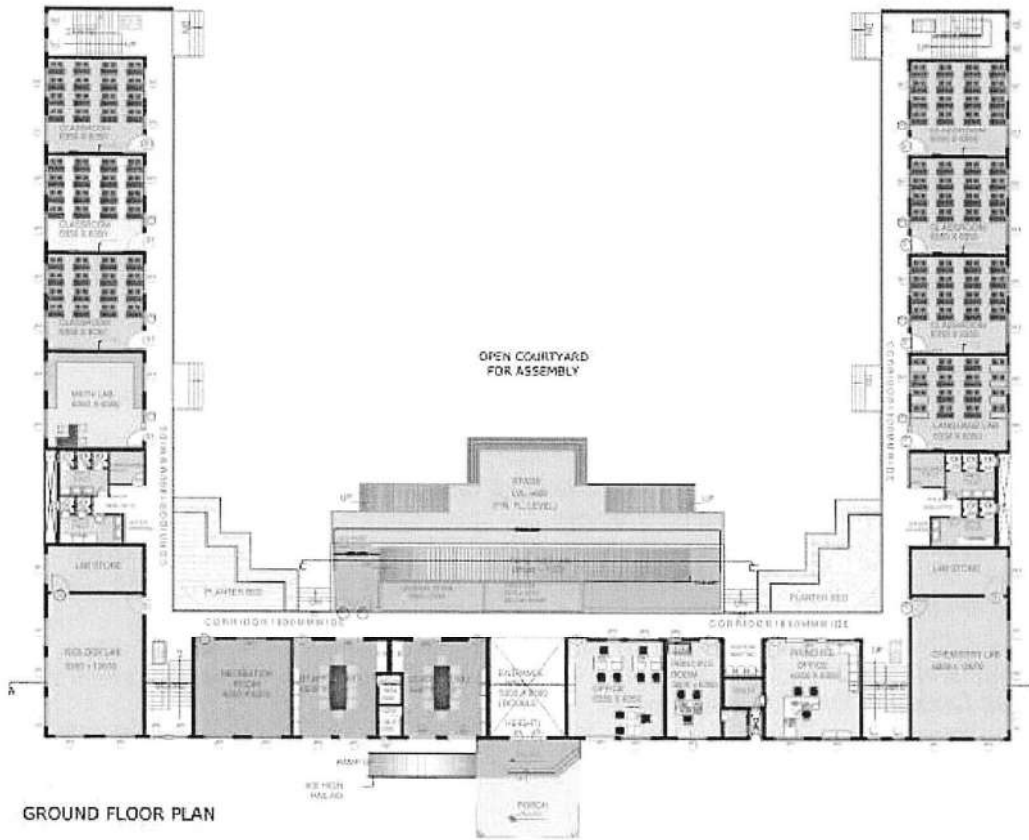
**Encl: As above**

Yours faithfully,

  
04/08  
(K C Meena)

Additional Commissioner

15126/1/2023/AC (KC Meena)



**SCHEDULE OF DOORS & WINDOWS**

Sl. No.	TYPE	DESCRIPTION	QTY	UNIT	REMARKS
1	DOOR	WOODEN DOOR	100	SQ. FT.	
2	DOOR	GLASS DOOR	50	SQ. FT.	
3	WINDOW	WOODEN WINDOW	200	SQ. FT.	
4	WINDOW	GLASS WINDOW	100	SQ. FT.	
5	DOOR	ALUMINIUM DOOR	10	SQ. FT.	
6	WINDOW	ALUMINIUM WINDOW	50	SQ. FT.	
7	DOOR	GLASS DOOR	5	SQ. FT.	
8	WINDOW	GLASS WINDOW	20	SQ. FT.	

**TYPES OF ROOMS WITH AREA**

Sl. No.	TYPE	DESCRIPTION	AREA (SQ. M)
1	CLASSROOM	10x10	100
2	LIBRARY	10x10	100
3	OFFICE	10x10	100
4	HALLWAY	10x10	100
5	KITCHEN	10x10	100
6	RESTROOM	10x10	100
7	STAGE	10x10	100
8	SEATING	10x10	100
9	LABORATORY	10x10	100
10	COMPUTER LAB	10x10	100
11	STORAGE	10x10	100

**AREA OF SCHOOL BUILDING**  
 a) GROUND FLOOR AREA = 1267.5 SQ. M.  
 b) FIRST FLOOR AREA = 1181.0 SQ. M.  
 TOTAL AREA = 2448.5 SQ. M.  
 c) RAMP AREA = 131.3 SQ. M.

**FOR CLIENT APPROVAL ONLY**

DRG. No. CA/PRD/23(14)/0130/01/R2

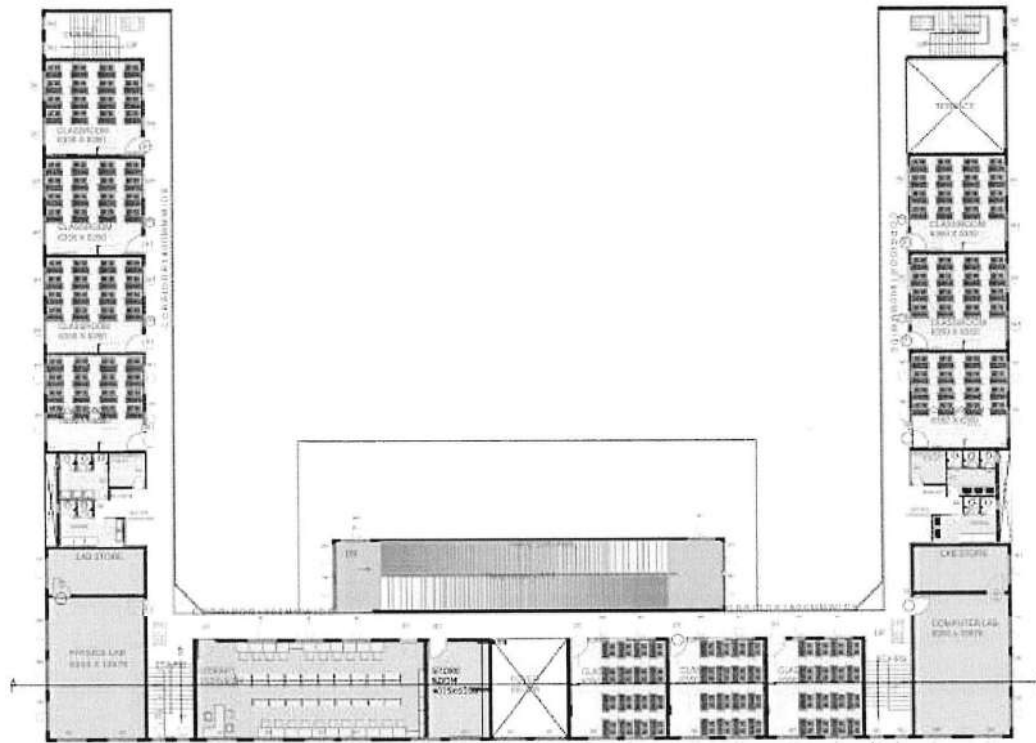
**UPXD** EKLAVYA SCHOOL SCHOOL BUILDING

PROFESSIONAL DRAWING  
 GROUND FLOOR PLAN

SCALE: 1:100  
 DATE: 15/01/2023

DESIGNED BY: ARCHITECT  
 DRAWN BY: ARCHITECT  
 CHECKED BY: ARCHITECT  
 APPROVED BY: ARCHITECT

19/20/2023/AC (KC Maha)



FIRST FLOOR PLAN

SCHEDULE OF DOORS & WINDOWS					
S.NO.	TYPE	DESCRIPTION	QTY	ALL	REMARK
1	44	WOODEN DOOR	1008		1008
2	52	WOODEN DOOR	143		143
3	32	GLASS	172		222 PANELS 8000
4	41	WOODEN DOOR	400	1000	4000
5	41	WOODEN DOOR	100	100	1000
6	41	WOODEN DOOR	143	100	14300
7	41	WOODEN DOOR	143	100	14300
8	41	WOODEN DOOR	143	100	14300

TYPES OF ROOMS WITH AREA			
S.NO.	TYPE	DESCRIPTION # QTY	AREA SQ.M
1	CLASSROOM	400 X 600	40.0
2	LIBRARY LAB	400 X 600	40.0
3	COMPUTER LAB	400 X 600	40.0
4	OFFICE	400 X 600	40.0
5	STAFF ROOM	400 X 600	40.0
6	STAFF ROOM	400 X 600	40.0
7	STAFF ROOM	400 X 600	40.0
8	STAFF ROOM	400 X 600	40.0
9	STAFF ROOM	400 X 600	40.0
10	STAFF ROOM	400 X 600	40.0

AREA OF SCHOOL BUILDING:  
 a) GROUND FLOOR AREA = 1267.5 SQ M  
 b) FIRST FLOOR AREA = 1181.0 SQ.M  
 TOTAL AREA = 2448.5 SQ.M  
 c) RAMP AREA = 131.3 SQ.M.

FOR CLIENT APPROVAL ONLY

DRG.No. CA/PRD/23/14/0139/02/R2

**EKLAYYA SCHOOL**  
**SCHOOL BUILDING**

DATE: 19/20/2023  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]  
 APPROVED BY: [Name]

SCALE: 1:100

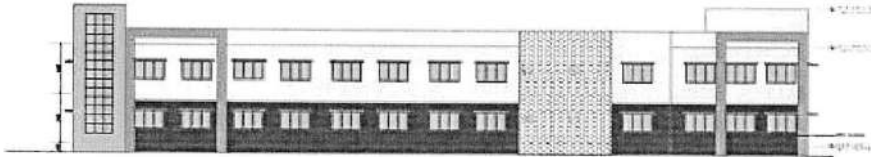
DATE: 19/20/2023

DESIGNER: [Name]  
 ARCHITECT: [Name]  
 ARCHITECT: [Name]  
 ARCHITECT: [Name]

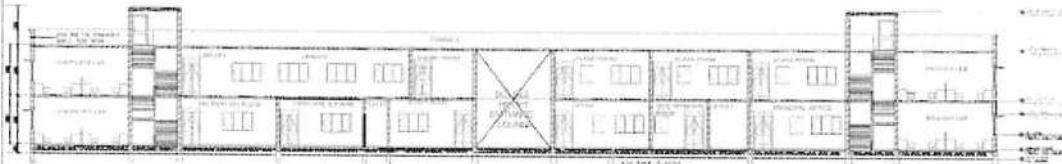
1922612020/AC (KC Meera)



FRONT ELEVATION

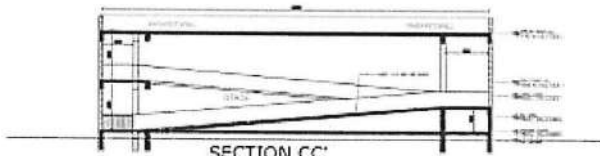


LEFT SIDE ELEVATION



SECTION AA'

1/2 size 5/8" dia  
R/C columns  
25 mm thick F.F.S.  
R/ROOF/DOORS



SECTION CC'

AREA OF SCHOOL BUILDING:  
 a) GROUND FLOOR AREA = 1267.5 SQ.M  
 b) FIRST FLOOR AREA = 1181.0 SQ.M  
 TOTAL AREA = 2448.5 SQ.M  
 c) RAMP AREA = 131.3 SQ.M.

FOR CLIENT APPROVAL ONLY

DRG.No. CA(PRD)/23(14)/0140/03/R1

		<b>EKLAVYA SCHOOL</b> <b>SCHOOL BUILDING</b>	
		PREPARED BY: ARCHITECT SECTION AND FUNCTION:	
CLIENT: MEERA EDUCATIONAL TRUST PROJECT: EKLAVYA SCHOOL NO. OF FLOORS: 2 NO. OF ROOMS: 10	SCALE: 1:100 DATE: 10/01/2020	SITE:	CHECKED BY: ARCHITECT
DRAWN BY: ARCHITECT	P.T. NO: 1001	S.D. NO: 1001	ARCH: K.R. SANKAR CHIEF ARCHITECT





**GROUND FLOOR AREA** = 1144 sqm  
 Porch Area = 20 sqm

**Warden Residence**  
 Area = 80 sqm

**SCHEDULE OF DOORS & WINDOWS**

NO	NAME	SIZE	C LVL	LEVEL	REMARKS
1	D	100 X 2100	00	+ 2100	SHIELD SHUTTER TYPE DOOR
2	DI	800 X 2100	00	+ 2100	SHIELD SHUTTER P.V.C. DOOR
3	DC	700 X 2100	00	+ 2100	SHIELD SHUTTER P.V.C. DOOR
4	DD	1500 X 2100	00	+ 2100	SHIELD SHUTTER P.V.C. DOOR
5	DI	1200 X 2100	00	+ 2100	SHIELD SHUTTER P.V.C. DOOR
6	DI	1500 X 2100	00	+ 2100	SHIELD SHUTTER P.V.C. DOOR
7	DD	800 X 2100	00	+ 2100	
8	W1	1000 X 1700	1000	+ 2100	MISGLAZED WINDOW
9	W2	1700 X 1700	1000	+ 2100	MISGLAZED WINDOW
10	W3	1400 X 1700	1000	+ 2100	MISGLAZED WINDOW
11	W4	1100 X 1700	1000	+ 2100	MISGLAZED WINDOW
12	W5	1000 X 1700	1000	+ 2100	MISGLAZED WINDOW
13	W6	1700 X 1700	1000	+ 2100	MISGLAZED WINDOW
14	V1	800 X 800	1000	+ 2100	MISGLAZED VENTILATOR
15	V2	800 X 800	1000	+ 2100	MISGLAZED VENTILATOR
16	V3	1000 X 800	1000	+ 2100	MISGLAZED VENTILATOR

**TOTAL PLINTH AREA** = 1144+20+1130+  
 = 2374sqm

FOR CLIENT APPROVAL ONLY

DRG No. CA/PRD/2014/0143/07R2

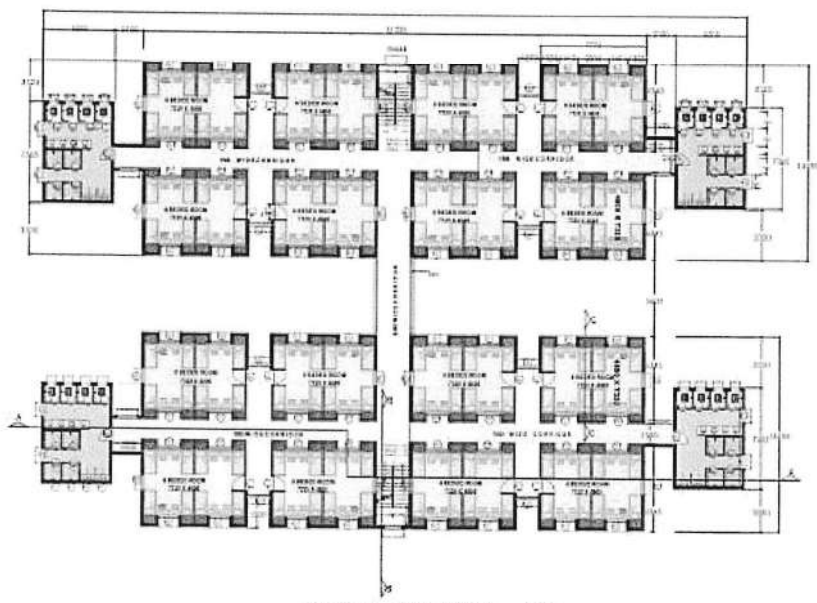


EKLAVYA SCHOOL

**BOYS' HOSTEL [GROUND FLOOR PLAN]**

2000 CAD SWIFT PLANNING DESIGN 10000 VEDAPALLE ROAD, CHENNAI - 600161 A.C. PHONE NO: 044-26111111	SCALE: 1:100 DATE: 15/05/2020
---	----------------------------------

SHEET NO: 01 DATE: 15/05/2020	DRAWN BY: [Name] CHECKED BY: [Name]	PROJECT NO: [Number]	CLIENT: [Name]
----------------------------------	--	----------------------	----------------



**FIRST FLOOR AREA = 1130 sqm**

**SCHEDULE OF DOORS & WINDOWS**

S.NO	NAME	SIZE	C. LVL.	FINISH LVL.	REMARKS
1	D	1400 X 210	00	+200	SINGLE SHUTTER FLUSH DOOR
2	D	900 X 200	00	+200	SINGLE SHUTTER P.V.C. DOOR
3	D	150 X 2100	00	+200	SINGLE SHUTTER P.V.C. DOOR
4	D	1500 X 210	00	+200	DOUBLE SHUTTER W. S. HALL DOOR
5	D	1200 X 210	00	+200	SINGLE SHUTTER FLUSH DOOR
6	D	150 X 210	00	+200	DOUBLE SHUTTER FLUSH DOOR
7	D	400 X 200	00	+200	
8	W	1600 X 1700	000	+250	MS GLAZED WINDOW
9	W	1050 X 1700	000	+250	MS GLAZED SEMI CIRCULAR WINDOW
10	W	1600 X 1700	000	+250	MS GLAZED WINDOW
11	W	1400 X 1700	000	+250	MS GLAZED SEMI CIRCULAR WINDOW
12	W	3000 X 1700	000	+250	MS GLAZED WINDOW
13	W	1700 X 1700	000	+250	MS GLAZED WINDOW
14	W	600 X 900	000	+250	MS GLAZED VENTILATOR
15	V	800 X 800	000	+250	MS GLAZED VENTILATOR
16	V	1500 X 800	000	+250	MS GLAZED VENTILATOR

**TOTAL PLINTH AREA = 1144+20+1130 = 2374sqm**

FOR CLIENT APPROVAL ONLY

DRG No: CAPRD/23/14/01/449/R2

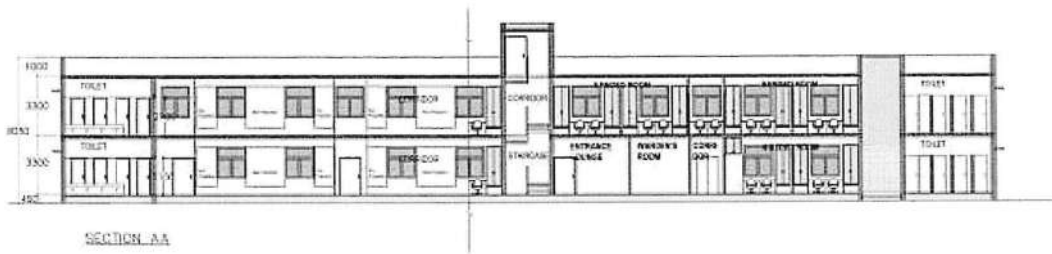


**ERLAVYA SCHOOL**

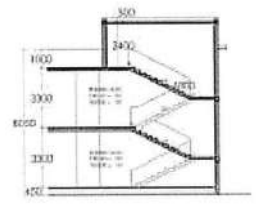
**BOYS' HOSTEL (FIRST FLOOR PLAN)**

DATE OF PREPARED DRAWING	SCALE
PROJECT NO.	DATE OF ISSUE
PROJECT NAME	PROJECT LOCATION

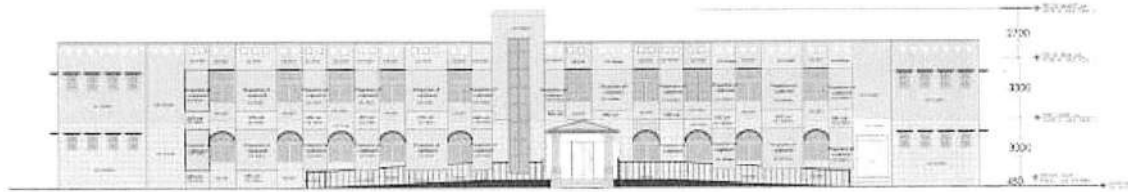
DESIGNED BY	CHECKED BY	DATE
DRAWN BY	DATE	



SECTION AA



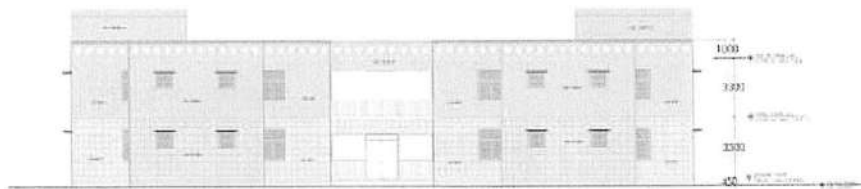
SECTION BB



FRONT ELEVATION



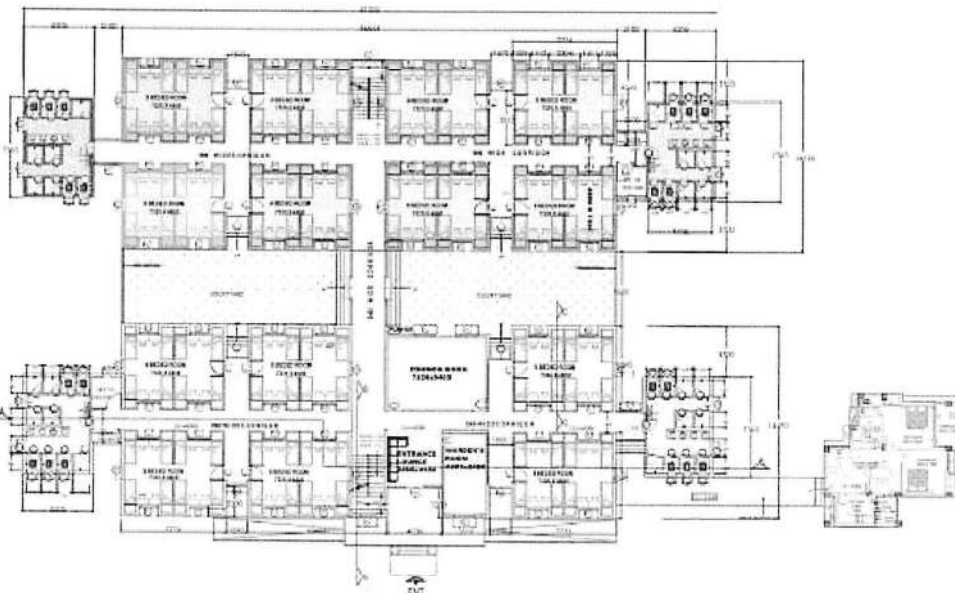
SECTION CC



SIDE ELEVATION

FOR CLIENT APPROVAL ONLY

DRG.No. CA/PRD/25/14/0145/09/R2			
<b>CPWD</b>		<b>EKLAVYA SCHOOL</b>	
<b>BOYS' HOSTEL</b> (SECTIONS & ELEVATION)		PROJ. DESIGNER'S SIGNATURE	
DATE OF ISSUE: 15/06/2014	PROJECT NAME: EKLAVYA SCHOOL BOYS' HOSTEL	SCALE: 1/40	1. ONLY FOR THE CONTRACTOR'S USE. ALL RIGHTS RESERVED. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM THE PROJECT ARCHITECT.
PROJECT LOCATION: (GATE NO. 1) CHENNAI	CLIENT: (NAME)	DATE OF ISSUE: 15/06/2014	APPROVED BY: (NAME)
DESIGNED BY: (NAME)	PL. CHECK: (NAME)	WORK APPROVED BY: (NAME)	PROJECT ARCHITECT: (NAME)



**GROUND FLOOR AREA** = 1144 sqm  
 Porch Area = 20 sqm

**Warden Residence**  
 Area = 80 sqm

**SCHEDULE OF DOORS & WINDOWS**

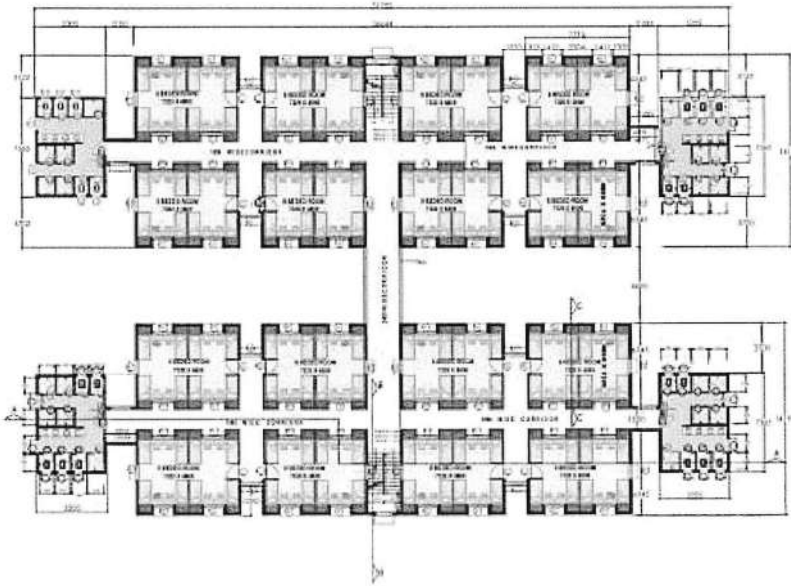
S.NO	NAME	SIZE	C. LVL.	LINTIL L.VL.	REMARKS
1	D	1000 X 2100	00	+ 2100	SINGLE SWITTED PLUNTH DOOR
2	D	800 X 2100	00	+ 2100	SINGLE SWITTED P.V.C. DOOR
3	D	750 X 2100	00	+ 2100	SINGLE SWITTED P.V.C. DOOR
4	D	1200 X 2100	00	+ 2100	DOUBLE SWITTED M.S. GRILL DOOR
5	D	1200 X 2100	00	+ 2100	DOUBLE SWITTED PLUNTH DOOR
6	D	1170 X 2100	00	+ 2100	DOUBLE SWITTED PLUNTH DOOR
7	D	800 X 2100	00	+ 2100	
8	W	1640 X 1700	000	+ 2700	MS GLAZED WINDOW
9	W	1700 X 1700	000	+ 2700	MS GLAZED SEMI CIRCULAR WINDOW
10	W	1400 X 1700	000	+ 2700	MS GLAZED SEMI CIRCULAR WINDOW
11	W	1400 X 1700	000	+ 2700	MS GLAZED SEMI CIRCULAR WINDOW
12	W	1000 X 1700	000	+ 2700	MS GLAZED WINDOW
13	W	1000 X 1700	000	+ 2700	MS GLAZED WINDOW
14	V	600 X 900	000	+ 2700	MS GLAZED VENTILATOR
15	V	600 X 900	000	+ 2700	MS GLAZED VENTILATOR
16	V	1000 X 500	000	+ 2700	MS GLAZED VENTILATOR

**TOTAL PLINTH AREA** = 1144+20+1130+  
 = 2374sqm

FOR CLIENT APPROVAL ONLY

DRG No: CA/PRD/2311450H4/01012

	<b>EKLAVYA SCHOOL</b>	
	<b>GIRLS HOSTEL (GROUNDFLOOR PLAN)</b>	
PREPARED BY: ARCHITECT PROJECT NO: CA/PRD/2311450H4/01012 DATE: 15/08/2023	CHECKED BY: ARCHITECT DATE: 15/08/2023	APPROVED BY: ARCHITECT DATE: 15/08/2023
DESIGNER: ARCHITECT DATE: 15/08/2023	CHECKED BY: ARCHITECT DATE: 15/08/2023	APPROVED BY: ARCHITECT DATE: 15/08/2023



**FIRST FLOOR AREA = 1130 sqm**

**SCHEDULE OF DOORS & WINDOWS**

NO.	NAME	SIZE	C. LVL.	LINTH LVL.	REMARKS
1	D1	100 X 2100	00	+ 200	SINGLE SHUTTER GLASS DOOR
2	D1	600 X 2100	00	+ 200	SINGLE SHUTTER P.V.C. DOOR
3	D2	750 X 2100	00	+ 200	SINGLE SHUTTER P.V.C. DOOR
4	D3	900 X 2100	00	+ 200	DOUBLE SHUTTER M.S. GRILL DOOR
5	D4	1200 X 2100	00	+ 200	SINGLE SHUTTER GLASS DOOR
6	D5	1750 X 2100	00	+ 200	DOUBLE SHUTTER GLASS DOOR
7	W1	400 X 1700	00	+ 200	MS GLAZED WINDOW
8	W2	1550 X 1700	000	+ 200	MS GLAZED SIDE BRICK LAM WINDOW
9	W3	1400 X 1700	000	+ 200	MS GLAZED WINDOW
10	W4	1400 X 1700	000	+ 200	MS GLAZED SIDE BRICK LAM WINDOW
11	W5	1000 X 1700	000	+ 200	MS GLAZED WINDOW
12	W6	1000 X 1700	000	+ 200	MS GLAZED WINDOW
13	W7	1000 X 1700	000	+ 200	MS GLAZED WINDOW
14	W8	400 X 200	000	+ 200	MS GLAZED CENTRE ADOR
15	W9	800 X 200	000	+ 200	MS GLAZED CENTRE ADOR
16	W10	1000 X 200	000	+ 200	MS GLAZED CENTRE ADOR

**TOTAL PLINTH AREA = 1144+20+1130+ = 2374sqm**

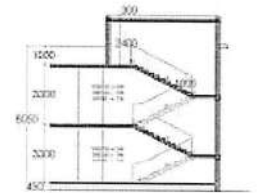
FOR CLIENT APPROVAL ONLY

DWG No. CA/PRD/25/15/0147/1/02

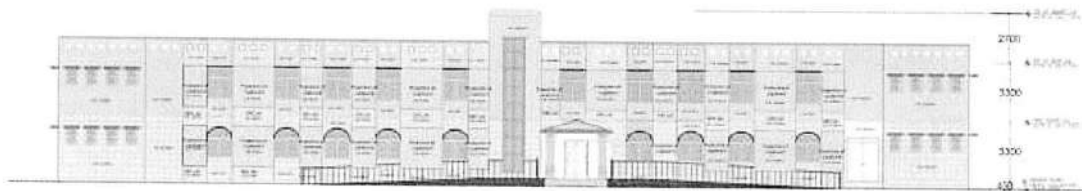
	<b>EKLAVYA SCHOOL</b>	
	<b>GIRLS' HOSTEL (FIRST FLOOR PLAN)</b>	
CLIENT: KRISHNA ACADEMY PROJECT ADDRESS: KRISHNA ACADEMY, KADAPPA, KADAPPA, KADAPPA CONTACT NO: 94490 94490	PROJECT NO: 25/15/0147/1/02	DATE: 15/01/2025
PREPARED BY: ARCHITECT	CHECKED BY: ARCHITECT	APPROVED BY: ARCHITECT



SECTION AA



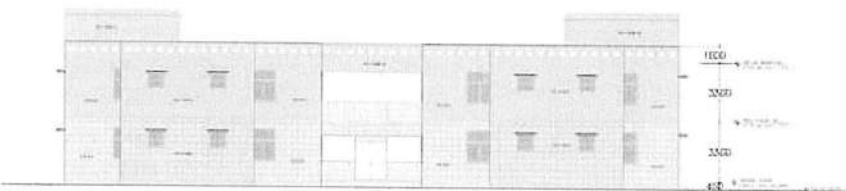
SECTION BB



FRONT ELEVATION



SECTION CC

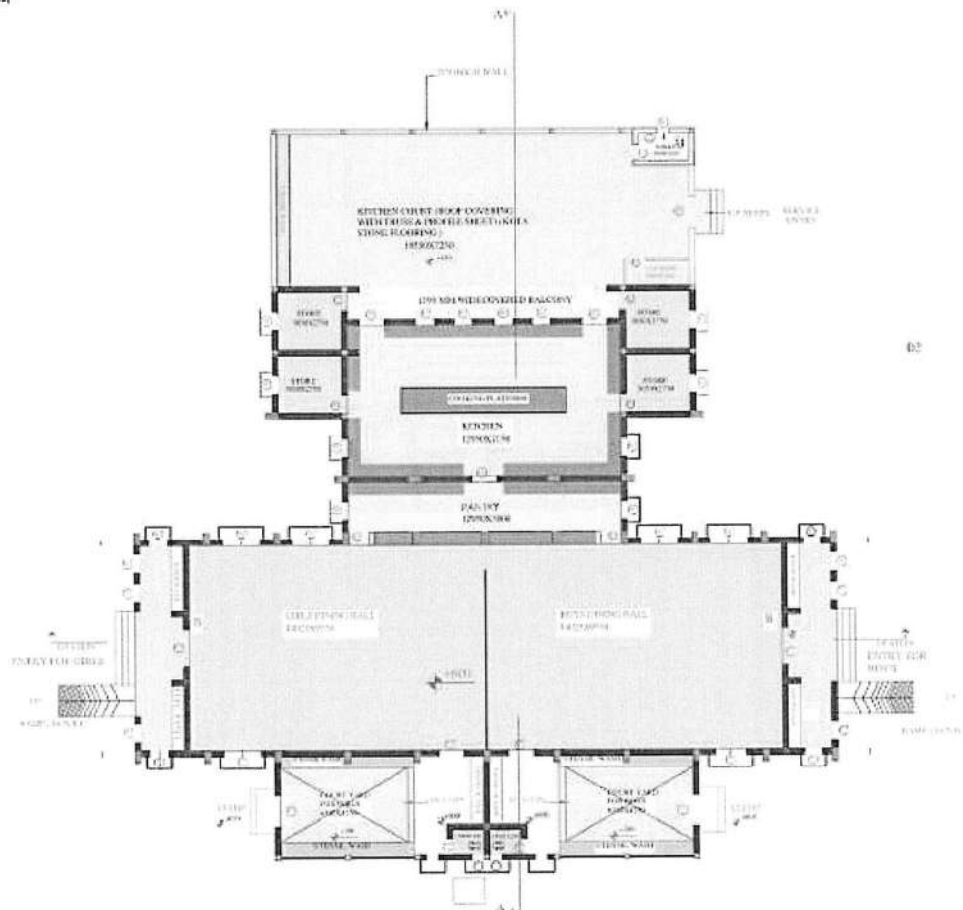


SIDE ELEVATION

FOR CLIENT APPROVAL ONLY

DRG No. CA/PRD/2014/04/01/2R2			
		EKLAVYA SCHOOL	
		GIRLS' HOSTEL (sections & elevations)	
<small>         1. THIS PROJECT IS THE PROPERTY OF CPAD ARCHITECTS &amp; ENGINEERS. ALL RIGHTS RESERVED. NO PART OF THIS PROJECT CAN BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CPAD ARCHITECTS &amp; ENGINEERS.       </small>		<small>         2. THIS PROJECT IS THE PROPERTY OF CPAD ARCHITECTS &amp; ENGINEERS. ALL RIGHTS RESERVED.       </small>	
<small>         CPAD ARCHITECTS &amp; ENGINEERS          PLOT NO. 11, 12, 13, 14, 15          8th PHASE, GANDHINAGAR          AMBEGAON, PUNE-411004       </small>	<small>         P. S. SURESH          ARCHITECT       </small>	<small>         SURESH SURESH          SENIOR ARCHITECT       </small>	<small>         SURESH SURESH          SENIOR ARCHITECT       </small>

15/26/2020 AC (KG Meera)



**GROUND FLOOR PLAN**  
Area = 550 sqm

**SCHEDULE OF DOORS & WINDOWS**

S.NO.	NAME	SIZE	C.L. H.	QTY	REMARKS
1	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
2	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
3	DOOR	750 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
4	DOOR	750 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
5	DOOR	1200 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
6	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
7	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
8	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
9	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
10	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
11	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS
12	DOOR	1000 X 2100	90	+ 2000	WOODEN DOOR WITH GLASS

FOR CLIENT APPROVAL ONLY

DRGN No: CA/PROJ/20/2410/16/024/R2

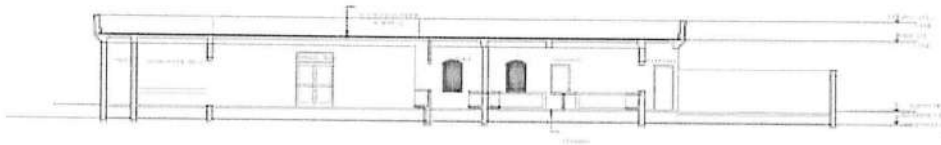
**EKLAVYA SCHOOL**  
**KITCHEN AND DINING BLOC**

**GROUND FLOOR PLAN**

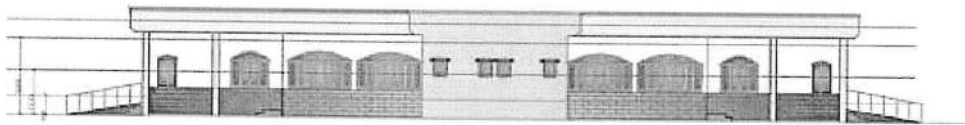
DATE: 15/06/2020  
SCALE: 1:50  
PROJECT NO: 20/2410/16/024/R2

DESIGNED BY	CHECKED BY	DATE	SCALE
PROJECT NO	PROJECT NO	PROJECT NO	PROJECT NO

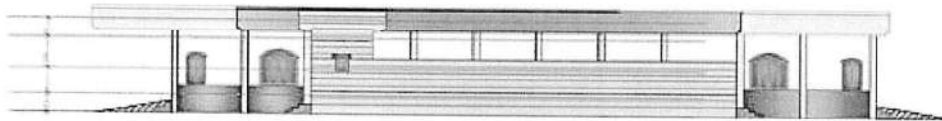
1522612020 AC (KC Mohra)



SECTION AT A-A



FRONT ELEVATION



REAR ELEVATION

**SCHEDULE OF DOORS & WINDOWS**

S. NO	NAME	SIZE	C. VL	THICK	REMARKS
1	DOOR	1000 X 2100	100	100	GLASS DOOR WITH ALUMINIUM FRAME
2	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
3	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
4	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
5	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
6	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
7	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
8	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
9	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
10	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
11	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
12	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
13	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
14	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME
15	DOOR	1000 X 2100	100	100	WOODEN DOOR WITH ALUMINIUM FRAME

FOR CLIENT APPROVAL ONLY

DRG No. CA/PRO/23/14/ B150-05/R2



**EKLAVYA SCHOOL  
KITCHEN AND DINING BLOCK**

SECTION & ELEVATIONS

DATE: \_\_\_\_\_

DATE	SCALE	BY	CHECKED
DATE	SCALE	BY	CHECKED





**GROUND FLOOR PLAN**  
AREA = 130SQM

**SCHEDULE OF DOORS & WINDOWS**

S.NO	NO.	SIZE	C. TYPE	LEVEL	REMARKS
1	01	1000X2100	00	+1.000	DOUBLE GLAZED
2	02	800X2100	00	+1.000	DOUBLE GLAZED
3	03	750X2100	00	+1.000	DOUBLE GLAZED
4	04	750X2100	00	+1.000	DOUBLE GLAZED
5	05	750X2100	00	+1.000	DOUBLE GLAZED
6	06	1000X2100	00	+1.000	DOUBLE GLAZED
7	07	1000X2100	00	+1.000	DOUBLE GLAZED
8	08	1000X2100	00	+1.000	DOUBLE GLAZED
9	09	1000X2100	00	+1.000	DOUBLE GLAZED
10	10	1000X2100	00	+1.000	DOUBLE GLAZED
11	11	1000X2100	00	+1.000	DOUBLE GLAZED
12	12	1000X2100	00	+1.000	DOUBLE GLAZED
13	13	1000X2100	00	+1.000	DOUBLE GLAZED
14	14	1000X2100	00	+1.000	DOUBLE GLAZED
15	15	1000X2100	00	+1.000	DOUBLE GLAZED
16	16	1000X2100	00	+1.000	DOUBLE GLAZED
17	17	1000X2100	00	+1.000	DOUBLE GLAZED
18	18	1000X2100	00	+1.000	DOUBLE GLAZED
19	19	1000X2100	00	+1.000	DOUBLE GLAZED
20	20	1000X2100	00	+1.000	DOUBLE GLAZED
21	21	1000X2100	00	+1.000	DOUBLE GLAZED
22	22	1000X2100	00	+1.000	DOUBLE GLAZED
23	23	1000X2100	00	+1.000	DOUBLE GLAZED
24	24	1000X2100	00	+1.000	DOUBLE GLAZED
25	25	1000X2100	00	+1.000	DOUBLE GLAZED
26	26	1000X2100	00	+1.000	DOUBLE GLAZED
27	27	1000X2100	00	+1.000	DOUBLE GLAZED
28	28	1000X2100	00	+1.000	DOUBLE GLAZED
29	29	1000X2100	00	+1.000	DOUBLE GLAZED
30	30	1000X2100	00	+1.000	DOUBLE GLAZED

FOR CLIENT APPROVAL ONLY

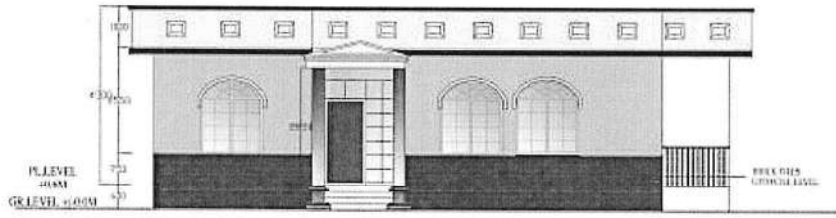
PRG.No: CAPRE/23/14108/R1

**CPWD** EKLAVYA SCHOOL  
PRINCIPAL RESIDENCE

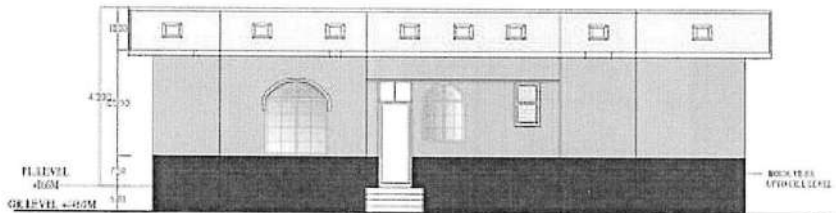
**GROUND FLOOR PLAN**  
REVISIONS

NO.	DATE	DESCRIPTION

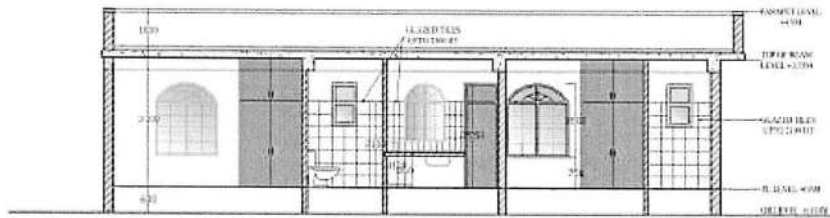
DESIGNED BY	CHECKED BY	DATE	SCALE



FRONT ELEVATION

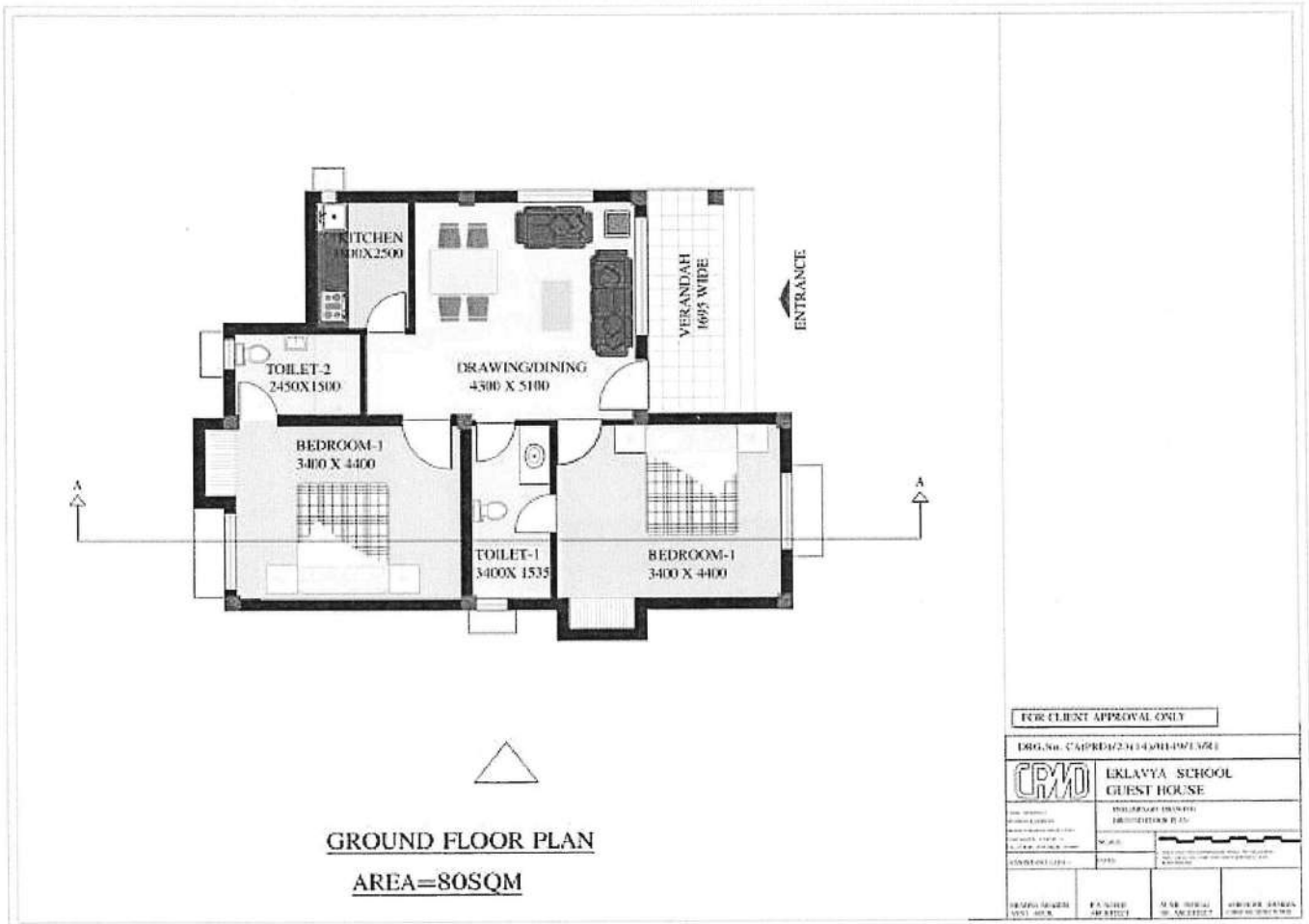


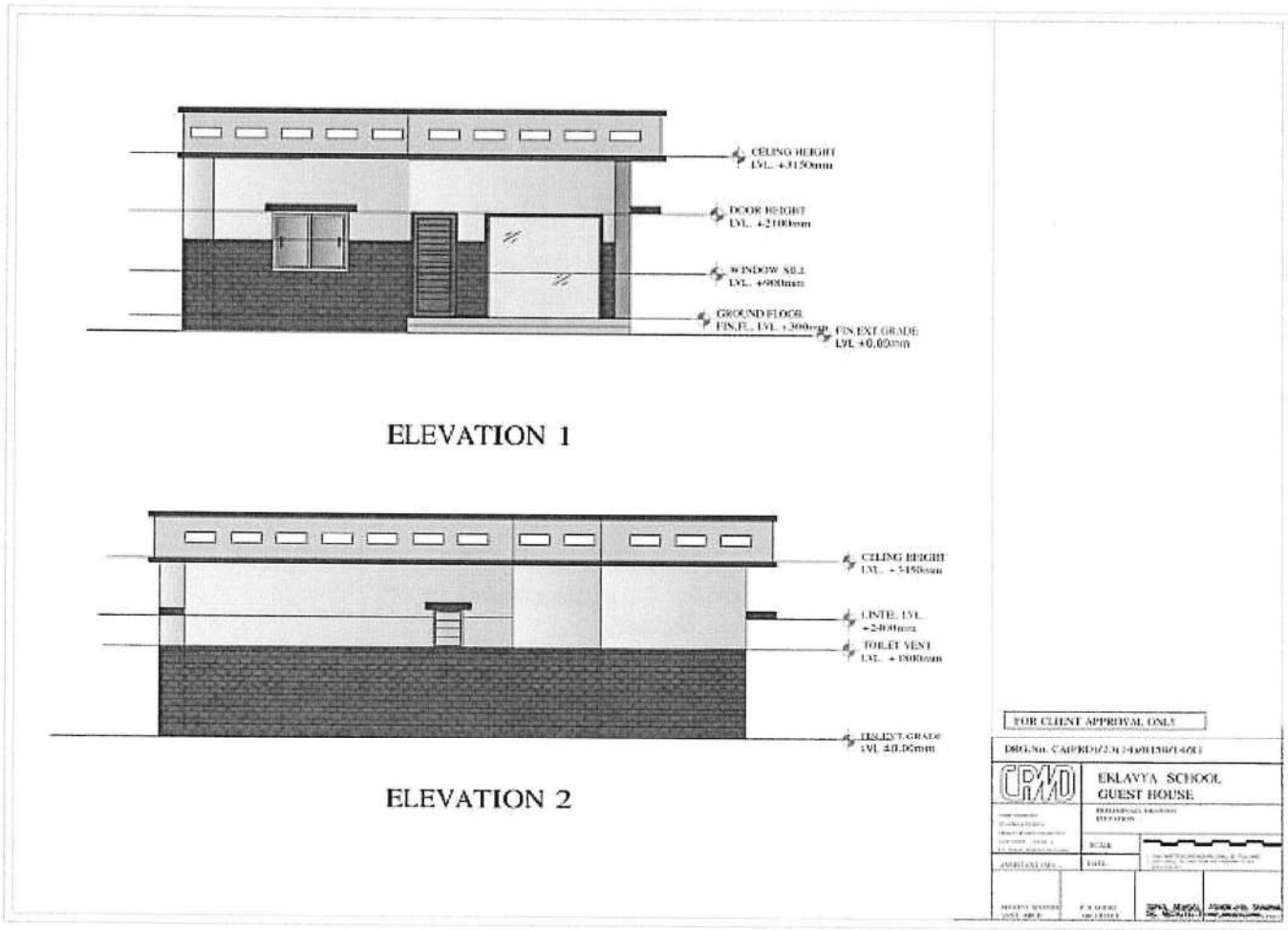
REAR ELEVATION

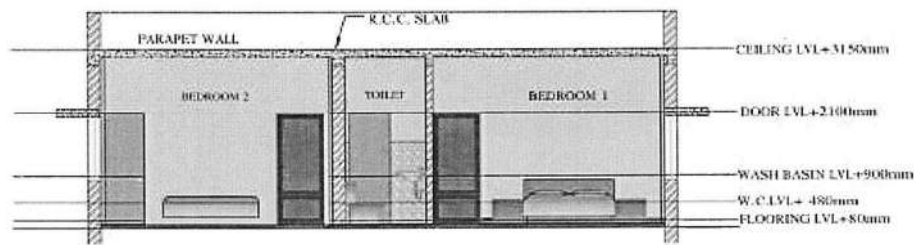


SECTION A-A

FOR CLIENT APPROVAL ONLY	
DRAWING: CAPRI/25/14/142/20/0/01	
<b>CPAD</b> EKLAVYA SCHOOL PRINCIPAL RESIDENCE	
ELEVATIONS & SECTION	
PROJECION: DRAFTING	
DATE: _____	
DRAWN BY: _____	
CHECKED BY: _____	
SCALE: _____	
PROJECT NO: _____	
SHEET NO: _____	
SHEET TOTAL: _____	
SHEET NO: _____	







SECTION A-A'

FOR CLIENT APPROVAL ONLY

DRG. No. CA/PRG/2014/0151/5/81

**CRMD** EKLAHYA SCHOOL GUEST HOUSE

PREPARED BY: DATE:	CHECKED BY: DATE:
DRAWN BY: DATE:	APPROVED BY: DATE:
PROJECT NAME: ADDRESS:	CLIENT NAME: ADDRESS:



GROUND FLOOR PLAN

AREA STATEMENT - TYPE - II

SL. NO.	PARTICULARS	PERMISSIBLE	PROVIDED
sq. ft.			
A	<b>MAIN UNIT</b>		
1	UNIT AREA	63.00	63.00
2	SALICWAY	8.00	8.00
3	UTILITY	3.00	3.00
	<b>TOTAL</b>	<b>74.00</b>	<b>74.00</b>
B	<b>STAIRCASE</b>		
1	STAIRCASE	7.00	7.00

SCHEDULE OF DOORS & WINDOWS

Sl. No.	Type	Specification	Area	Qty.	Remarks
1	DO	WOODEN DOOR	1.50	1	FOR ENTRANCE
2	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
3	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
4	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
5	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
6	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
7	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
8	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
9	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
10	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
11	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
12	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
13	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
14	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
15	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
16	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
17	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
18	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
19	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
20	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
21	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
22	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
23	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
24	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
25	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
26	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
27	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
28	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
29	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
30	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
31	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
32	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
33	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
34	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
35	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
36	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
37	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
38	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
39	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
40	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
41	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
42	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
43	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
44	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
45	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
46	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
47	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
48	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
49	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
50	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
51	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
52	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
53	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
54	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
55	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
56	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
57	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
58	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
59	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
60	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
61	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
62	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
63	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
64	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
65	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
66	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
67	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
68	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
69	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
70	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
71	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
72	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
73	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
74	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
75	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
76	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
77	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
78	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
79	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
80	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
81	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
82	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
83	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
84	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
85	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
86	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
87	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
88	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
89	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
90	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
91	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
92	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
93	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
94	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
95	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
96	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
97	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
98	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
99	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM
100	DO	WOODEN DOOR	1.50	1	FOR CLASSROOM

FOR CLIENT APPROVAL ONLY

DRS No. CA/PROJ/24/01/15/16/RT

**CDXO** EKLAVYA SCHOOL TYPE-II QR.S.

PREPARED BY: ARCHITECT

PROJECT LOCATION: BANGALORE, KARNATAKA

DATE: 15/01/2024

SCALE: 1:50

PROJECT NO: 24/01/15/16/RT

DRS No. CA/PROJ/24/01/15/16/RT

DRS No. CA/PROJ/24/01/15/16/RT

DRS No. CA/PROJ/24/01/15/16/RT

DRS No. CA/PROJ/24/01/15/16/RT



TYPICAL FLOOR PLAN

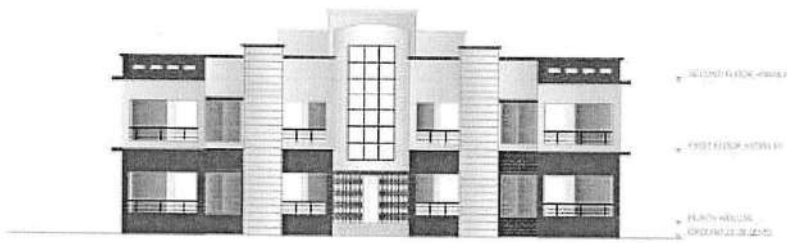
**AREA STATEMENT - TYPE - II**

S/NO	PARTICULARS	PERMISSIBLE	PROVIDED
		S/1000	
A	<b>MAIN UNIT</b>		
1	UNIT AREA	63.22	63.22
2	BALCONY	6.52	6.52
3	UTILITY	3.15	3.15
	<b>TOTAL</b>	<b>72.92</b>	<b>72.94</b>
B	<b>STAIRCASE</b>		
1	STAIRCASE	7.00	9.94

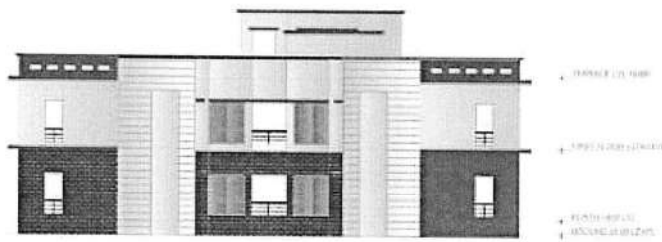
FOR CLIENT APPROVAL ONLY

DRG. No. CA/PRJ/23/14/0755-T/01

	<b>EKLAVYA SCHOOL</b>
	<b>TYPE-III QRS.</b>
PROJECT NAME PROJECT LOCATION PROJECT NO. PROJECT DATE	PROJECT DRAWING SCALE: AS SHOWN DATE: 15/08/2023 BY: ARCHITECT CHECKED BY: ARCHITECT
PROJECT NO. DATE:	DATE: 15/08/2023 BY: ARCHITECT CHECKED BY: ARCHITECT
CLIENT NAME UNIT NO.	UNIT NO. ARCHITECT



ELEVATION - A



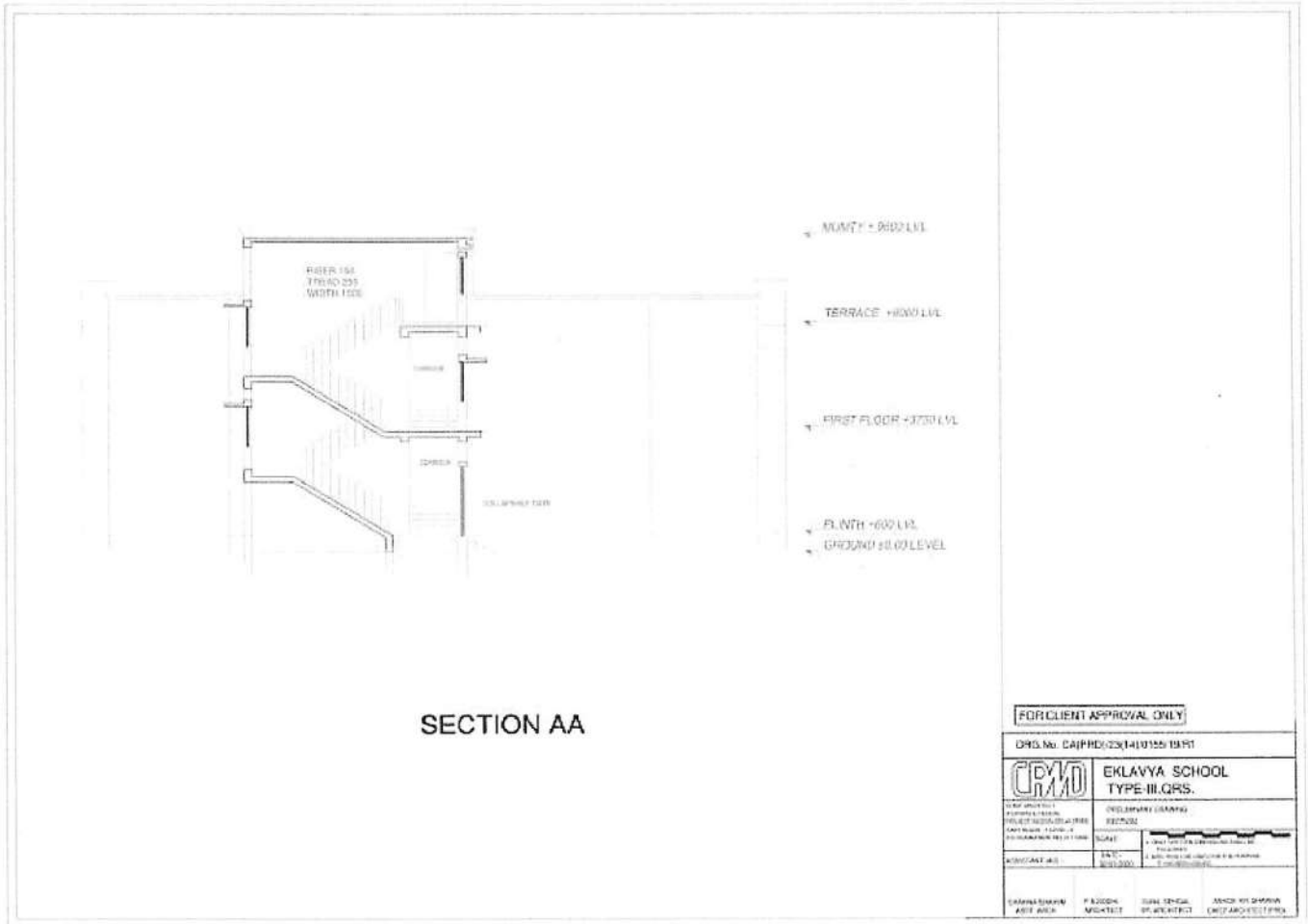
ELEVATION - B

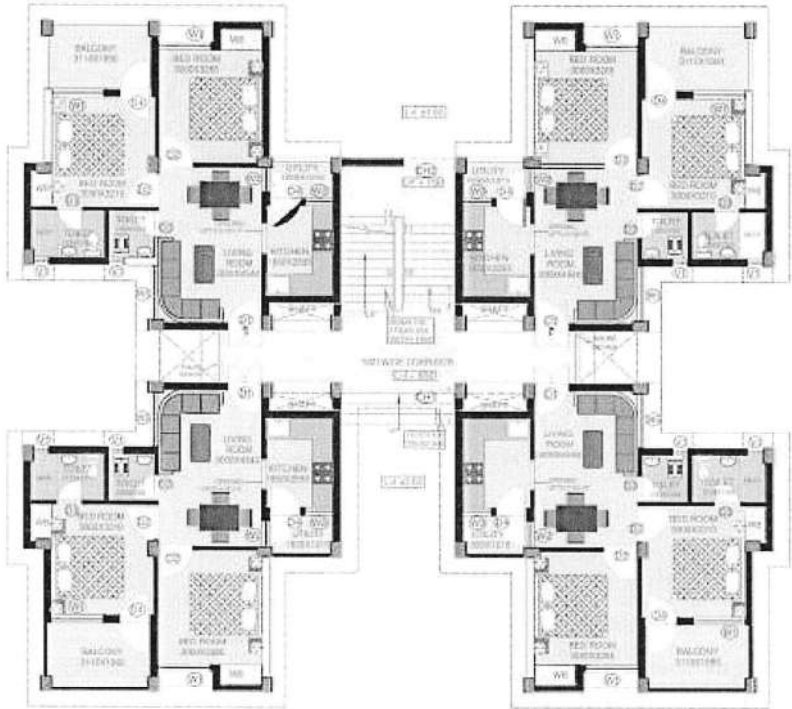
FOR CLIENT APPROVAL ONLY

DRG No. CA/PRD/2014/0154/10/01

<b>CPWD</b>		<b>EKLAVYA SCHOOL TYPE-II, DORS.</b>	
UNIT ARCHITECT PURWA SANGRA PROJECT LOCATION PLOT NO. 14, P. 14 P. 14, P. 14, P. 14 ACCOUNT NO.		P. 14, P. 14, P. 14 P. 14, P. 14, P. 14 P. 14, P. 14, P. 14 P. 14, P. 14, P. 14	
UNIT ARCHITECT PURWA SANGRA PROJECT LOCATION PLOT NO. 14, P. 14 P. 14, P. 14, P. 14 ACCOUNT NO.		P. 14, P. 14, P. 14 P. 14, P. 14, P. 14 P. 14, P. 14, P. 14 P. 14, P. 14, P. 14	
UNIT ARCHITECT PURWA SANGRA PROJECT LOCATION PLOT NO. 14, P. 14 P. 14, P. 14, P. 14 ACCOUNT NO.	UNIT ARCHITECT PURWA SANGRA PROJECT LOCATION PLOT NO. 14, P. 14 P. 14, P. 14, P. 14 ACCOUNT NO.	UNIT ARCHITECT PURWA SANGRA PROJECT LOCATION PLOT NO. 14, P. 14 P. 14, P. 14, P. 14 ACCOUNT NO.	UNIT ARCHITECT PURWA SANGRA PROJECT LOCATION PLOT NO. 14, P. 14 P. 14, P. 14, P. 14 ACCOUNT NO.







GROUND FLOOR PLAN

AREA STATEMENT - TYPE - II

S.NO	PARTICULARS	PERMISSIBLE	PROVIDED
RSQ.M			
A	<b>MAIN UNIT</b>		
1	UNIT AREA	54.00	53.16
2	BALCONY	5.00	6.20
3	UTILITY	2.00	2.00
	<b>TOTAL</b>	61.00	61.36
B	<b>STAIRCASE</b>		
1	STAIRCASE	7.00	6.30

SCHEDULE OF DOORS & WINDOWS

S.NO	TYPE	DESCRIPTION	QTY	REMARKS
1	11	WOODEN DOOR	210	FOR ALL ROOMS WITH AREA 10 SQ.M
2	12	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 5 SQ.M
3	13	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 15 SQ.M
4	14	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 20 SQ.M
5	15	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 25 SQ.M
6	16	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 30 SQ.M
7	17	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 35 SQ.M
8	18	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 40 SQ.M
9	19	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 45 SQ.M
10	20	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 50 SQ.M
11	21	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 55 SQ.M
12	22	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 60 SQ.M
13	23	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 65 SQ.M
14	24	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 70 SQ.M
15	25	WOODEN DOOR	100	FOR ALL ROOMS WITH AREA 75 SQ.M

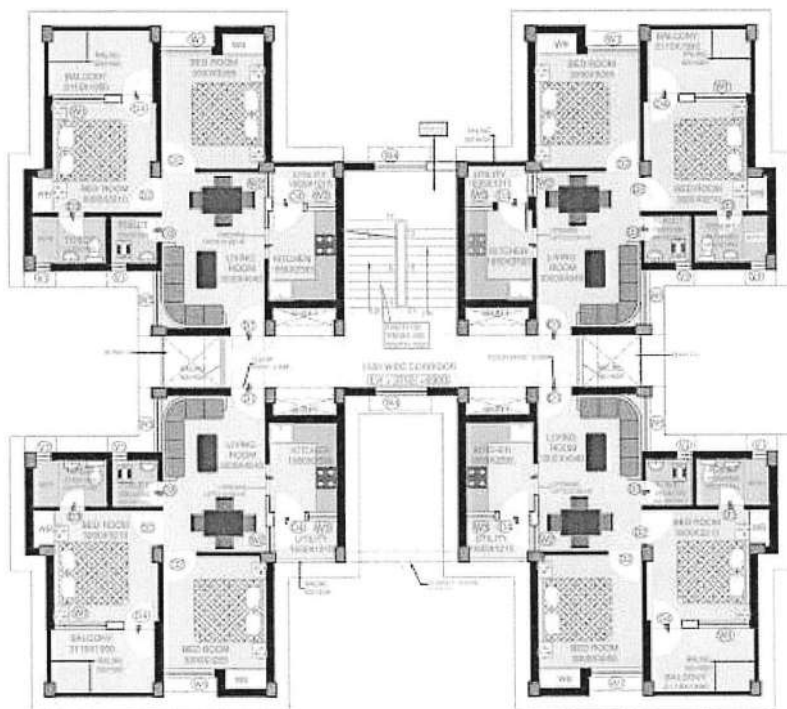
FOR CLIENT APPROVAL ONLY

DRG.No. CA/PP/02/14/01/06/2011

**CPWD** EKLAVYA SCHOOL  
TYPE-II, QRS.

PROJECT NAME: EKLAVYA SCHOOL  
PROJECT LOCATION: GROUND FLOOR PLAN  
SCALE: 1/4" = 1'-0"

DATE: 15/08/2011  
DRAWN BY: ARCHITECT  
CHECKED BY: ARCHITECT



TYPICAL FLOOR PLANS

AREA STATEMENT - TYPE - II

S.NO	PARTICULARS	PERMISSIBLE	PROVIDED
M <sup>2</sup> / M			
<b>MAIN UNIT</b>			
1	UNIT AREA	54.22	54.76
2	BALCONY	8.50	8.52
3	LIFT / TV	3.50	2.91
	<b>TOTAL</b>	<b>66.22</b>	<b>66.19</b>
<b>STAIRCASE</b>			
1	STAIRCASE	7.03	8.25

SCHEDULE OF DOORS & WINDOWS

ID	TYPE	SPRINKLER	AREA	NO.	REMARKS
1	BT	NO	1.00	1	DOOR TO BALCONY
2	BT	NO	2.00	2	DOOR TO BATH
3	BT	NO	2.00	2	DOOR TO KITCHEN
4	BT	NO	2.00	2	DOOR TO LIVING AREA
5	BT	NO	2.00	2	DOOR TO BED ROOM
6	BT	NO	2.00	2	DOOR TO BED ROOM
7	BT	NO	2.00	2	DOOR TO BALCONY
8	BT	NO	2.00	2	DOOR TO BATH
9	BT	NO	2.00	2	DOOR TO KITCHEN
10	BT	NO	2.00	2	DOOR TO LIVING AREA
11	BT	NO	2.00	2	DOOR TO BED ROOM
12	BT	NO	2.00	2	DOOR TO BED ROOM
13	BT	NO	2.00	2	DOOR TO BALCONY
14	BT	NO	2.00	2	DOOR TO BATH
15	BT	NO	2.00	2	DOOR TO KITCHEN
16	BT	NO	2.00	2	DOOR TO LIVING AREA

FOR CLIENT APPROVAL ONLY

DRG. No. CR/PP/23/14/15/12/1/1

**CRMD** EKLAVYA SCHOOL  
TYPE-II, QRS.

PLUMBING: [ ]  
ELECTRICAL: [ ]  
MECHANICAL: [ ]  
PAINTING: [ ]  
TILING: [ ]  
GLAZING: [ ]  
FLOORING: [ ]  
SCAFFOLDING: [ ]  
CONCRETE: [ ]  
ROOFING: [ ]  
MECHANICAL: [ ]  
ELECTRICAL: [ ]  
PAINTING: [ ]  
TILING: [ ]  
GLAZING: [ ]  
FLOORING: [ ]  
SCAFFOLDING: [ ]  
CONCRETE: [ ]  
ROOFING: [ ]

DATE: [ ]/ [ ]/ [ ]

SCALE: [ ]

PROJECT: [ ]

CLIENT: [ ]

DESIGNER: [ ]

APPROVER: [ ]



ELEVATION -A



ELEVATION-B

FOR CLIENT APPROVAL ONLY

DRG. NO. CA/PRD/25/14/0156/0097



EKLAVYA SCHOOL  
TYPE-FLOORS.

PROJECT NO. / DRAWING NO.

DATE

SCALE

PROJECT LOCATION

CLIENT NAME

DESIGNER

DATE

SCALE

PROJECT LOCATION

CLIENT NAME

DESIGNER

DATE

SCALE

PROJECT LOCATION

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DESIGNER

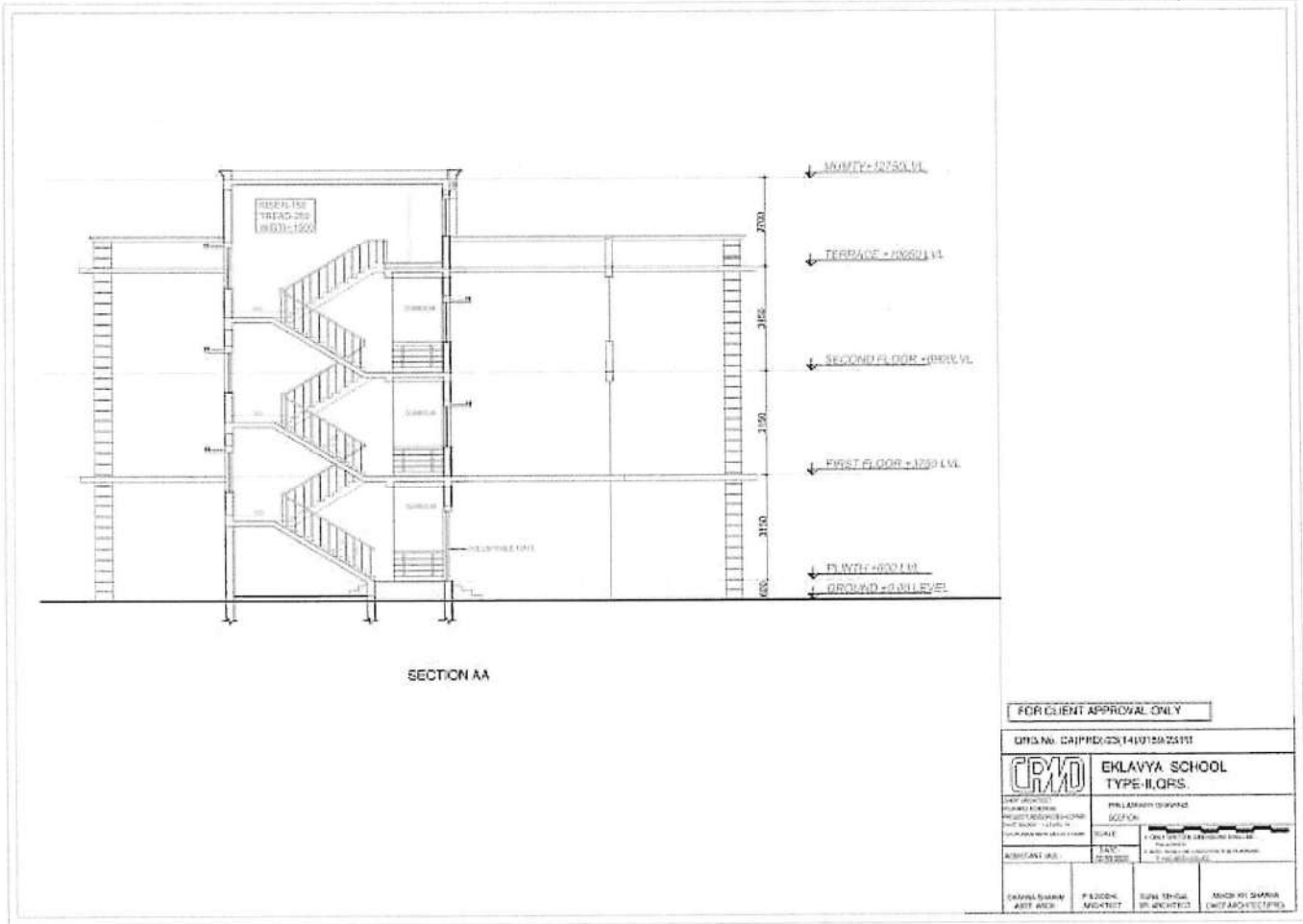
DATE

SCALE

PROJECT LOCATION

CLIENT NAME

DESIGNER



F. No 18015/11/2019-EMRS (Pt.)  
Government of India  
Ministry of Tribal Affairs  
National Education Society for Tribal Students  
(EMRS Division)

Shastri Bhawan, New Delhi  
Dated: 26.06.2020

To  
CPWD/WAPCOS/NPCC/MTDC/TCIL

**Subject:- Checklist for submission of Master Layout Plan (MLP) for Establishment of Eklavya Model Residential Schools (EMRSs)- regarding.**

Sir,

Please find enclosed herewith the **CHECKLIST** for submission of Master Layout Plan for establishment of EMRSs for approval. This checklist includes the items/features indicating building, sports facilities, roads & other services as per approved Area & Layout Design. The Construction agency is requested to provide following details along with MLP.

1. The details of individual architectural plan, sectional elevation etc. of all the buildings covered under EMRS. A copy of the approved plan elevation, layout and Facade design is enclosed.
2. Checklist duly filled up indicating any variation in land areas and other dimensions/ items/feature, if any.
3. The proposed construction areas of buildings and sports facilities (as provided in the checklist) should be indicated on right Side/bottom of the drawings
4. Location map indicating location of the EMRS vis-à-vis nearest road, bus station, water supply line, sewage line, transmission lines and other neighboring landmark, etc.
5. The topography of the lands indicating levels (Contour), dimension of land (Perimeter length, width etc.). Wherever excessive leveling (cutting/filling) is required as per site conditions, the approximate cost involved shall also be indicated.
6. Dimension of roads & pathways shall be indicated in the drawings. The internal roads & pathway & other essential services should be designed economically following sound engineering practices so that the overall project cost shall be within the project cost approved by NESTS.
7. In respect of hilly areas and difficult terrain, the model master layout plan may be suitably modified. However the constructed building areas shall remain unchanged
8. The MLP shall be submitted in triplicate
9. Any other additional items which may affect the MLP.

It is requested that every effort should be made to prepare the Master Layout Plan as per the checklist before sending the case to this office for any relaxation. The relaxation may only be granted under inevitable circumstances.

Yours faithfully,

- Enclose: 1. Checklist  
2. Model master layout plan and façade details



(K C Meena)

Additional Commissioner (NESTS)

CHECK LIST - MASTER LAYOUT PLAN				
Sl. No	Features	Dimension approved per EMRS	Provided in MLP (Y/N)	Remarks /Deviation if any from Standard of EMRS
1	Land Details	15 Acres		
2	Location Details indicating nearest public road, bus station, Hospitals, Transmission lines ,other prominent landmarks,etc	Location Map of EMRS		
3	School Buildings (G+1)	2580 Sq mt		
4	Boys' Hostel(G+1)	2280 Sq mt		
5	Girls' Hostels(G+1)	2280 Sq mt		
6	Warden Residence ( Boys' Hostel)	80 Sq mt		
7	Warden Residence ( Girls' Hostel)	80 Sq mt		
8	Kitchen & Dinning	550 Sq mt		
9	Principal Quarter	130 Sq mt		
10	Type III Quarters(G+2)- 15 Nos Qtrs	1200 Sq mt		
11	Type II Quarters (G+2) - 10 Nos Qtrs	700 Sq mt		
12	Guest House	80 Sq mt		
<b>SPORTS FACILITIES</b>				
13	Play Ground	190 mts x110 mts having 400/200 mt track		
14	Kho Kho	Separate or may be played at Volley Ball Court		
15	Basketball Court -Sepearate for B & G	2 Nos @ 40 Mts x 30 Mts		
16	Volley Ball Court -Sepearate for B & G	2 Nos @ 40 Mts x 30 Mts		
17	Archery Ground - 1 Nos	2500 Sq mts		
<b>DRINKING WATER</b>				
18	Sump - 1 Lakh Ltrs Capacity	80 Sq mt		
19	Deep Boring	2 Nos		
20	Overhead Tank -50,000 Ltrs	1 No		
21	Pump Room	1 No		
<b>GREEN FEATURES</b>				
22	Surface Drain including culvert & Storm Water Drain	Length as per actuals		
23	External Sewrage system	Length as per actuals		
24	Septic Tank/ Composite pits	As per Site Condition		
25	Rain Water Harvesting	As per Site Topography		
<b>Horticulture/Landscaping</b>				
25	Plantation	As per Site Topography & availability of land		
26	Landscapping	Same as abve		
<b>Others</b>				
26	Boundary Wall 2.6 mt Height, 1.8 Machinery work and 0.8 fencing	Length as per actuals		
27	Entry Gate with Security Room -	1 No		
28	Flag Hoisting Stage With Assembly ground	1 No		
29	Electric substation	1 No		

30	Internal Roads	Length as per actuals		
31	Internal pathways	Length as per actuals		
32	Levelling	As per site Requirement		
	<b>Future Provision</b>			
33	Auditorium	For future construction		

**Note:** The elevation plan, layout and façade design is attached with checklist at Annexure- 1



**File No: 18015/11/2019-EMRS(Pt.)**  
**Government of India**  
**Ministry of Tribal Affairs**  
**National Education Society for Tribal Student**

**Shastri Bhawan, New Delhi**  
**Dated 23.11.2020**

**To**

Nodal Officers of Construction Agencies  
(TCIL, WAPCOS, NPCC, MTDC, MANIDCO, HSCL, B&R and EPIL)

**Subject: - Guidelines for preparation of Detailed Project Report (DPR) for Construction of EMRS**

Dear Sir/Madam,

I am directed to convey the approval of the competent authority the NESTS approved guidelines for preparation of Detailed Project Report (DPR) for Construction of EMRS and submission of estimates for issue of A/A & E/S for construction of EMRS. It is requested to submit the DPR at the earliest in respect of the sites for which MLP has been approved.

**ENCLOSURE:**

1. Annexure-I (Essential Features of EMRS Phase Wise)
2. Annexure- Iia, Iib, Iic (Building & Development Specification)

  
**(Sh. K C Meena)**

**Additional Commissioner, NESTS**

**GUIDELINE FOR PREPARATION OF DETAILED PROJECT REPORT (DPR)**

**A. Project Overview**

The Ministry of Tribal Affairs through the National Education Society for Tribal Students (NESTS) intends to setup Eklavya Model Residential Schools (EMRS) projects in every block with more than 50% residents belonging to scheduled tribes and at least 20,000 tribal people.

The Eklavya Model Residential School (EMRS) is being established as a quality residential school, to impart education to tribal student in the remote areas of the country. The infrastructure of the school and hostels has been designed to cater needs of 240 boys and 240 girls tribal student along with sports facility and in-house teaching faculty. Initially the infrastructure work shall be provided for school buildings, Hostel Building for 120 boy's and 120 girl's tribal student including Warden Residence, Dining & Kitchen and connected services. Subsequently the infrastructure shall be added for remaining students and faculty's residences for teachers & Staff.

NESTS has engaged ..... (Name of Construction agency) as Construction Agency for the construction of EMRS schools at Vill.....Block..... District ..... State..... This report provides the details of the proposed EMRS at ..... (Name of EMRS).

#### **B. Structure of EMRS**

The EMRS are spread out on ..... acre campuses having a school building, boys' & girls hostels, dining and kitchen facility, residences for faculty and staff with ample open spaces for playing and recreation.

The built form of EMRS is simple, low profile, and vernacular so as not to appear alien and forbidding in its surroundings. The emphasis is not on the physical form but on its overall relationship with its setting, which is natural and quaint, in keeping with its predominantly rural set-up and an ambience which merges well with the surroundings.

All buildings are kept single or double storied to optimize the cost of construction and user friendliness. Specific provisions are being made for buildings in the earthquake zones. All new EMRS buildings are equipped with fire safety measures and provisions for differently abled students.

The schools are planned with sports facilities like running track, basketball court, volleyball court and archery court on site, along with a landscaped herbal garden and a playground. The infrastructure promotes the overall growth of the student (mental, physical, and psychological) such that these children help uplift and bring about change in the society around them. Special emphasis is given to the extracurricular activities such as sports and horticulture to extend learning outside the classroom, expanding the spectrum of knowledge.

**C. LOCATION** - Overview of location of school indicating village/Taluka/Dist, nearest Bus Station, Landmarks, and other features including Approach Road. Distance from the nearest town and Latitude, Longitude along with photograph of EMRS site.

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**D. Land Particulars** - Land details such as land area, Plot No, Khatiyari/ Khasra Number, Sketch map, terrain of land, existence of HT/LT electric lines/poles, encroachment (if any), land use certificate stating that land has been allotted for construction of school by State Society/Local Authority, Demarcation and handing over documents for taking possession of lands by Construction Agency.

**E. Formal Sanction Order of EMRS** - Copy of the NESTS formal sanction order for establishment of EMRS in the approved location to be annexed.

**F. Estimate for issue of A/A & E/S:-** For issue of A/A & E/S following estimate provisions ( SUB-HEAD wise ) shall be followed:-

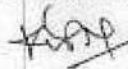
1. Preliminary Estimate based on DPAR 2012 (As per rate specified for normal Building with specification annexed at Annexure V) with applicable cost index as on 01.04.2019 for building portion
2. Detailed estimate for compound wall, services and campus development.
3. Provision of site-specific requirement such as retaining wall, filling, etc may be included separately and the sanction for the same may be conveyed depending upon availability of fund.
4. The Phasing of Construction Shall be as per NESTS Order No F. No. 18015 /11 /2019-EMRS(Pt), dated 08.09.2020.
5. The estimate shall be submitted for Phase-I & Phase II separately.

**G. Detailed Estimate:** - The Detailed estimate shall be submitted for phase-I as per the NESTS office Order No F. No. 18015 /11 /2019-EMRS (Pt), dated 08.09.2020.

**Essential Features of EMRS** - Phase- I & Phase-II (as per the attached Annexure - I

**H. Essential Component of EMRS ( Necessary Documents to be attached):-**

1. Sanction orders Master Layout Plan.
2. Handing over/ Taking over possession of demarcated land by Local Authority/TWD
3. Compliance to remark of NESTS in approved MLP/Checklist indicating Phase-I & Phase-II separately in MLP.
4. Compliance to EMRSs/CPWD standards viz, Essential features (Annexure -I) and Building Specification (Annexure-II) for Estimate Preparation.
5. Soil investigation report and Type of foundation proposed.
6. Water Level, Availability of potable water and the source of water for construction.
7. Availability of nearest sewer line of Panchayat/Municipality if any/ proposal for disposal of sewage.
8. Proposal for site development of EMRS complex such as compound wall, leveling of site, drainage system, sewerage system, Rain Water Harvesting etc.
9. The other site requirement, if any, such as Retaining Wall, Cutting, Filling etc with technical justification along with Likely expenditure.
10. Design Parameters for the structural design of the buildings -, Dead Loads, Live Loads, Wind Loads, Design Life, Design Methodology, Foundation of the structure, Earthquake Resistant Design and Design codes, Earth Quake Zone and Standards (all should be of latest revised version)



11. Nearby source & lead for Construction Materials.
12. Detailed Drawings to be annexed as under: -
  - a. Master Layout Plan of EMRS along with contour details (A-3 Size)
  - b. Approved Architectural plan, elevations, and sections of all the buildings Indicating the title of school location ( A-3 Size)
  - c. Structural Drawings- Initially the foundation drawings shall be provided and Subsequently the remaining structural drawings shall be submitted
  - d. Vetting details/Proposal of the Structural Drawings
  - e. Plumbing & Water Supply Distribution lines
  - f. Electrical Services' Schedules like sub-station, LED Street Lights, Distribution UG Cable layout.
  - g. Details of electrical inventories etc.
  - h. Local Bodies Approval details, if any

13. Execution plans for deployment of Engineers having qualification and experience as per for the EMRS project.

S.N.	Name of Staff/Engineer	Designation	Experience of handling construction works	Education Qualification

14. Quality Control- List of the mandatory tests, proposal for third party quality assurance (TPQA), Construction Checklists.
15. An undertaking pertaining to environmental risk legal/contractual risk should be furnished.
16. Site Specific Issue, if any, requiring attention by NESTS.

**Note: - 1. Time Schedule of various activities for completion of Phase- I construction from the date of approval of DPR and issue of A/A & E/S shall be intimated to NESTS.**

**2. The CA shall also be required to submit the detailed program /PERT Chart for completion of work immediately after the award of work to the Contractor.**

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Details of Essential features : Comparative NVS visa-vis NESTS - Annexure-I								
EMRS								
A Buildings		Unit	Phase-I & Phase II			Phase-II		
S. No.	Item of work		Nos.	Plinth area	Total PA	Nos	Plinth Area	Total PA
1	School Buildings	Sqm	1	2580	2580			
2	Kitchen & Dining	Sqm	1	550	550			
3	Boys Dormitory	Sqm	0.50	2280	1140	0.50	2280	
4	Warden Residence ( Boys'	sqm	1	80	80			
5	Girls Dormitory	Sqm	0.50	2280	1140	0.50	2280	
6	Warden Residence ( Girls'	sqm	1.00	80	80			
7	Principal Residence	Sqm				1.00	130	
8	Type-III Qtrs.	sqm				15.00	80	
9	Type-II Qtrs.	sqm				10.00	70	
10	Guest House	sqm				1.00	80	
11	Sub-station building	Sqm	1.00	53	53			
12	Pump House/sump	Sqm	1.00	12	22			
13	Sentry Booth	Sqm	1.00	5	5			
					5650		4390	
<b>B Sports Facility</b>		Phase -I			Phase -II			
1	Play Ground				119 mt x 190 mt with 400mt/200 mt. track			
2	Kho Kho/Volley Ball -Each for Boys' & Girls'				Size 19 mt. x 30 mt ( Minimum dimension of 15.2 mts x28.7 mts in case site contstrains/ Less land area			
3	Basketball				Size 19 mt. x 30 mt ( Minimum dimension of 9 mts x 18 mts in case site contstrains/ Less land area			
5	Archery				Archary Ground 2500 Sq mt.			
<b>C Fire Fighting</b>		Yes, Fire Extingusher						
1	School	Yes, Fire Extingusher						
2	Hostel	Yes, Fire Extingusher						
<b>D Drinking Water</b>		Phase -I			Phase -II			
1	Sump	RCC under Ground Sump 50,000 Litres			RCC under Ground Sump 50,000 Litres			
2	Deep Boring	200 Mt depth with submersible			200 Mt depth with			
3	Overhead Tank	RCC Overhead tank on each building						
4	External Water Supply System	Yes			Yes			
5	Pump Room with 2 No 7.5 Hp centrifugal pump	Yes						
<b>E Green Features</b>		Phase -I			Phase -II			
1	Dust Bins	Yes			Yes			

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2	Rain Water Harvesting	Yes, As per Phase-I requirement	Yes, As per Phase-II requirement
3	Storm Water drain & sewer	Yes, As per Phase-I requirement	Yes, As per Phase-II requirement
4	Sewage System	Yes, As per Phase-I requirement	Yes, As per Phase-II requirement
5	Solar panel on roof top		May be provided from RESCO model
6	Landscaping & Herbal Garden	To be indicated in MLP only, to be provided at a later stage	
<b>F</b>	<b>Others</b>	<b>Phase -I</b>	<b>Phase -II</b>
1	Boundary Wall (1.8 Meter	Yes	
2	Entry Gate with Security Room	Yes	
3	Flag Hoisting Stage	Yes	
4	Doors & Windows with Mosquito	Only in residential buildings	Only in residential buildings
5	Internal Roads	Yes . As per minimum	Balance as per LOP
6	Internal pathways	Yes . As per minimum	Balance as per LOP
7	Electric substation	Yes	
8	External Sewrage system	Yes . As per minimum	Balance as per LOP
9	External Electrical Work	Yes . As per minimum	Balance as per LOP
10	Levelling	Yes . As per minimum	Balance as per LOP
11	Filtered Water Supply	Yes, if required, as per Phase-I requirement	Balance if required, as per minimum requirement
12	SITC of sub station equipments (200/250 KVA Transformer)	Yes, As per Phase-I requirement	Balance to be agumented as per Phase-II requirement
13	LED Street Light	Yes, As per Phase-I requirement	Balance ,as per Phase-II requirement
14	SITC of DG set (25 KVA)		Yes
15	SITC UPS (5 KVA)	Yes	
<b>F</b>	<b>Site Specfic Requierment</b>	<b>Phase -I</b>	<b>Phase -II</b>
1	Cutting , Filling, Levelling	Yes . As per minimum requirement, depending upon availability of fund	Balance as per requirement
2	Retaing Wall	Yes . As per minimum requirement, depending upon availability of fund	Balance as per requirement

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**SPECIFICATION : HOSTEL DORMITORY & RESIDENTIAL QUARTERS- Anexure-II(a)**

SN	Item	Hostel Dormitory	Warden Residence/ Type III & Type II Quarters	Principal 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) Floor height	3.30 Mt		3.15 Mts
	(d) Plinth Height	Plinth height of all the buildings shall be kept as 60 cm from the adjoining ground level/plinth protection level. Where plinth height becomes more than 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 40x40x6 mm with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 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 with z- section, window grills fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6		
	(b) Shutters			
	(i) Main Doors	dormitory hall, one with stainless steel Mosquito Proof Jali with auto spring door closed and other Factory made flush door 35mm thick ( i/c Teak Wood Edge Lipping)	Double shutters one with painted iron grill with 35mm thick MS tubular box section styles and rails frame i/c stainless steel Mosquito Proof Jali and other Factory made flush door 35mm thick	
	(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. 10.21.1 & 10.23 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			

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(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	Ceramic Floor Tiles/ Vitrified Tile Flooring not less than 400mm x 400 mm laid on 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.	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 @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.
(ii) Kitchen	Anti skid vitrified tiles of size not less than 300 mm x 300 mm with water absorption less than 0.08% laid with matching grouting of joints	Anti skid Ceramic/ vitrified tiles of size not less than 300 mm x 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 mm x 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) Kitchen Counter study table top for dormitories	Udaipur green marble / granite stone with nosing with matching grouting of joints		
(iv) Common circulation area	Mirror-polished Kota Stone flooring with matching grouting of joints.	NA	NA
(vi) Staircase	Pre-polished Kota stone In single length of treads & risers with matching grouting of joints		
(vii) Toilets / Bathroom	Glazed ceramic anti-skid of size not less than 300x300 mm with matching grouting of joints.		
Dado & Skirting			
(i) Skirting in rooms and other areas.	100 to 150 mm height skirting matching with floor materials		
(ii) Kitchen Dado	NA	Ceramic Glazed tiles of size not less than 200 x 300 mm as per design from floor up to full height.	Ceramic Glazed tiles of size not less than 300 x 450 mm as per design from floor up to full height.NA
(iii) Toilets/bathrooms/ WC Dado	Ceramic Glazed tiles of size not less than 200 x 300 mm up to full height with	Ceramic Glazed tiles of size not less than 200 x 300 mm up to full height with	Ceramic Glazed tiles of size not less than 300 x 450 mm as per design from floor up to full height.NA
5 FINISHES			

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a)	Internal Walls	All walls & ceiling to be treated with 2 mm thick POP (one time only) and painted with low VOC Acrylic washable distemper. Synthetic enamel paint on all wood works and steel works		
b)	External Walls	Quartz reinforced Texture Acrylic paint finish/ Premium Acrylic smooth water proof exterior finish. Synthetic enamel paint on all wood work & steel work		
6	Hand Rail	Railing shall be of stainless steel		
7	Roof	RCC Slab brick with Koba treatment (Item No. 22.7.1 of DSR-16).		
8	Toilets for Physically disable person	One each for boys and girls (specification as per NBC)	NA	NA

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**SPECIFICATION : HOSTEL DORMITORY & RESIDENTIAL QUARTERS - Annexure- II(b)**

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) Floor height	3.45 Mts.	3.30 Mts
	(d) Plinth Height	Plinth height of all the buildings shall be kept as 60 cm from the adjoining ground level/plinth protection level. Where plinth height becomes more than 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 40x40x6 mm with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 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 with z- section, window grills fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (As per D.S.R.-2016 item no. 10.11.1)	
	(b) Shutters		
	(i) Main 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. 10.21.1 & 10.23 for flush door).	Double shutters one with painted iron grill with 35mm thick MS tubular box section styles and rails frame with stainless steel Mosquito Proof Jali and other 35 mm thick factory made exterior grade non- decorative type flush 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. 10.21.1 & 10.23 for flush door).
	(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. 10.21.1 & 10.23 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 55 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	

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	(ii) Other	Classroom - Mirror polished Kota stone with marble strip	Dining Hall & Kitchen Area - Mirror polished Kota stone with marble strip.	
	(iii) Toilet/WC/Bath (including common circulation area of toilet block)	Glazed ceramic anti-skid of size not less than 300x300 mm including grouting the joints.	Glazed ceramic anti-skid of size not less than 300x300 mm including grouting the joints.	
	(iv) Staircase/steps	Pre-polished Kota stone in single length of treads & risers.	Pre-polished Kota stone in single length 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			
	(i) In toilets/WCs /Baths (including common circulation area of toilet block)	Glazed Ceramic tiles not less than 200mm x 300mm as per design from floor up to full height.	Glazed Ceramic tiles not less than 200mm x 300mm as per design from floor up to full height.	Glazed Ceramic tiles not less than 200x300 as per design from floor level up to 2.10 mtrs. height.
	d) Counter/ pantry	At Laboratory platform: Udaipur green marble/ granite stone with nosing	At Kitchen and Dining: platform: Udaipur green marble/granite stone with nosing	
	e) Open Court Yard	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. Inrequired colour, pattern, 50 mm thick compacted bed of course sand etc.... (as per item no. 16.68, DSR-16) (ii) Based course: 7.50 cm thick CC [1:5:10]. (iii) The top level of Court yard shall be (-) 30 cm from plinth level of School Building.		Back side of Kitchen ; Kota stone flooring.
5	ROOFING	RCC Slab with Koba treatment (Item No. 22.7 of DSR-16).	Percolated profile sheet roofing DSR 2016 Item No. 12.50. False Ceiling (Item no. 12.45.1 of DSR-16.)	RCC Slab with Koba treatment (Item No. 22.7 of DSR-16)
6	FINISHING			
	(a) External	Quartz reinforcement Texture Acrylic paint finish/Premium Acrylic smooth water proof exterior finish. Synthetic enamel paint on all wood work & steel work.	Quartz reinforcement Texture Acrylic paint finish/Premium Acrylic smooth water proof exterior finish. Synthetic enamel paint on all wood work & steel work.	Quartz reinforcement Texture Acrylic paint finish/Premium Acrylic smooth water proof exterior finish. Synthetic enamel paint on all wood work & steel work.

	(b) internal	All walls & ceiling to be treated with 2 mm thick POP (one time only) and painted with low VOC Acrylic washable distemper. Synthetic enamel paint on all wood works and steel works	All walls & ceiling to be treated with 2mm thick POP (one time only) and painted with low VOC Acrylic washable distemper. Synthetic enamel paint on all wood works and steel works	All walls & ceiling to be treated with 2 mm thick POP (one time only) and painted with low VOC Acrylic washable distemper. Synthetic enamel paint on all wood works and steel works.
# # # #	Court Yard	Entire Central Court Yard: 60mm thick factory made CC interlocking paver block of M-30 grade including 50mm thick compacted bed of course sand, filling the joints with fine sand etc. (Item no. 16.68 of DSR-16) on the based course of 1:5:10 (cement: sand: coarse aggregate) CC of 75 mm thick.	N.A.	Back side of Kitchen and side of dining hall Court Yards: 60mm thick factory made CC interlocking paver block of M-30 grade including 50mm thick compacted bed of course sand, filling the joints with fine sand etc. (item no. 16.68 of DSR-16) on the based course of 1:5:10 (cement: sand: course aggregate) CC of 75 mm thick.
B	Railing	Railing shall be of stainless steel, wherever required.		
9	Roof Water Treatment	Brick Coba Treatment as per DSR-16, item No. 22.7.1.		Brick Coba Treatment as per DSR-16, item No. 22.7.1.
10	Roof Water Tank	Boys toilets: 4000 ltrs. Girls Toilets: 2000 ltrs.	500 lites for each toilets.	(i) 10000 lites for Kitchen uses. (ii) 500 liters for each toilets
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.	-	RCC as per design and drawings.
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)	-	-

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Details scope & specification of Development works and Campus Boundary wall		
(A) Development/external services work for EMRS/EMDBS Campus:-Annexure- II©		
Sl. No.	Name of work	Details
1	Land development for buildings.	The formation level of the land for building shall be developed considering the high floor level of the area, economic aspect. The quantities of earth filling/cutting shall be worked out in detailed calculation basis based on Initial level, contour plan.
2	Preparation of play fields:	
	(i) Playfield of Size 190mx110m for foot ball, cricket, hockey etc. including 400mtrs/200mtrs.- running track: 1 no. (Size may be very 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 30 cm. 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 30 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) Based concreting (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.
3	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 all buildings. (iii) Based Course (1:5:10) of 10 cm thick. (iv) Top Course (M-20 grade designed mix) of 10 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.

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	(ii) Pathways :	<p>(i) 2.00 mtrs. width + 1 mtrs. shoulder/side berm each side of the pathways.</p> <p>(ii) Pathways shall be provided to connect the buildings/ permanent infrastructure to nearby internal roads.</p> <p>(iii) No pathways shall be provided on side of the roads.</p> <p>(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 coarse sand etc.... (as per item no. 16.68, DSR-16)</p> <p>(v) Based course: 7.50 cm thick CC (1:5:10).</p> <p>(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).</p> <p>(vii) Finished/top level of the edge of the paths shall be 15 cm. higher than the adjoining ground level.</p>
	(iii) Culverts:	As per actual requirement.
4	External water supply:	
	(i) Tube/open well w/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	<p>(i) Maximum size-3.0m x 3.00m,</p> <p>(ii) Plinth area-11.97 sqm.</p> <p>(iii) Floor height 2.90 mtrs.</p> <p>(iv) Building shall RCC framed structure with slop roof and shall be executed over Under Ground Water Tank.</p> <p>(v) Other specification as per Annexure-V of PAR-19 for Type-I qtrs.</p>
	(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.
	(vi) GI/CI water supply distribution line	Distribution line shall be designed as per the intake of the buildings. All pipes shall be CPVC only. Maximum dia. of the main distribution pipes shall be 100 mm (nominal inner dia).
5	External Electrification:	
	(i) Substation building	<p>(i) Plinth area-52.80 sqm.</p> <p>(ii) Floor height 4.25m for 28.48 sqm plinth area and 3.35m for 24.40 sqm plinth area.</p> <p>(iii) Building shall RCC framed structure with slop roof.</p> <p>(iv) Other specification as per Annexure-V of PAR-19 for Type-I qtrs.</p>
	(ii) LT Panel	Fabricated from CPRI approved workshop.

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	(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.
6	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. (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.
7	5.0 H.P. Sewerage Pump	Air Cool, mounted on trolley with 10m. suction & 10m. del. Flexible pipe
8	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.
9	Retaining wall / Breast wall (if required)	Proper planning shall be made before preparation of Preliminary estimate.
10	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.
11	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 slop 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

*K. Jay*

**F. No 18015/ 11/2019 – EMRS(Pt.)**  
**Government of India**  
**Ministry of Tribal Affairs**  
**National Education Society for Tribal Students**

Shastri Bhawan, New Delhi  
Dated: 23<sup>rd</sup> Dec, 2020

**To**

1. **The Nodal Officers of Construction Agencies**  
(TCIL, WAPCOS, NPCC, MANIDCO, B&R, HSCL and EPIL)
2. **The Chief Engineer(Civil), CPWD**  
(Telengana, Tripura, AP, HP, Laddakh, Rajasthan, J&K & Maharashtra)

**Sub: Modification in the guidelines for submission of DPR and Preliminary Estimate for issue of A/A & E/S.**

Phasing of construction work of EMRS was issued vide NESTS order F. No. 18015/11/2019-EMRS (Pt) dated 08.09.2020. Further DPR Guidelines & Checklist for preparation of DPR and submission of estimate for issue of A/A & E/S was also issued vide NESTS order F.No.18015/11/2019-EMRS(Pt) dated 23.11.2020.

Now, I am directed to convey the approval of the competent authority the following modifications of the DPR guidelines with reference to provision of National Building Code (NBC) and CPWD documents: -

1. **Specification: -**
  - a. Ceiling Height of the School building shall be 3.60 mt. as per NBC Code (Ref.- 12.2.1.1 (a), Page 44) instead of 3.30 mt. provided in the NESRS approved drawing.
  - b. The clear width of stair case shall be 1.25 mt. for hostel building and 1.50 mt. for school building as per NBC code instead of 1.20 & 1.40 mt. in Hostel and School Building respectively. (Ref.- 12.18.1.1 (e), Page 49)
  - c. The slope of ramp shall be 1:20 as per NBC Code instead of 1:12 provided in the NESTS approved drawings. ( Ref.- B-2.2.1 (c), Page 67)

2. **Material Specification: -**

**Flooring**

- a. The Anti-Skid Vitrified tile flooring of size 300mm x 300 mm is proposed in the ramp area instead of Kota Stone as per the prevailing trends, technically suitability and aesthetic point of view.
- b. The vitrified tile flooring of size not less than 600mm x 600 mm is proposed in principal room, vice principal room, staff room and medical room of Kota Stone as per the prevailing trends and for better aesthetic.
- c. Electrical Services- CCTV camera is proposed for School Building in phase-1.

*K. S. N.*  
23/12



**3. Submission of Estimate for issue of A/A & E/S:-**

- i. A/A & E/S shall be issued at the time of approval of MLP on the  

Based on the standard Preliminary Estimate prepared by NESTS on the basis of DPAR 2012 for building portion including service with applicable Cost Index as on 01.04.2019 and DPAR 2019/Market Rate for campus development such as roads, drainage, compound wall, etc
- ii. For the site-specific requirement such as retaining wall, filling, etc, the Construction Agency may submit the detailed estimate with details of measurement and detailed technical justification mentioning site conditions at the time of submission of MLP. The sanction for the same shall be conveyed depending along with MLP approval depending upon availability of fund.
- iii. The CA shall be required to submit DPR within 15 days of the approval of MLP.

**4. The provision of Sl. No 'F' of DPR guideline dated 23.11.2020 is amended as under: -**

- i. Copy of A/A & E/S with complete annexures shall be enclosed.
- ii. Detailed Estimate for Phase-I construction shall be submitted.
- iii. The detail estimate of campus development i.e. Compound wall, roads, drainage, rain water harvesting, external electrical services, LED street light and site-specific requirement such as retaining wall, filling, etc shall also be indicated component wise.
- iv. The detailed estimate items shall be prepared as per the approved building and material specifications and no deviation shall be permitted without the prior approval of NESTS.
- v. The Phasing of Construction and Detailed Estimate Shall be as per NESTS Order No F. No. 18015 / 11/2019-EMRS(Pt), dated 08.09.2020.
- vi. The other provisions of DPR shall remain unchanged.

Your faithfully,



(K.C. Meena)

Additional Commissioner, NESTS

राष्ट्रीय आदिवासी छात्र शिक्षा समिति  
(जनजातीय कार्य मंत्रालय के अंतर्गत  
एक स्वायत्त संस्थान, भारत सरकार)  
गु-तार, गेट नंबर-3ए, जिवन तारा बिल्डिंग,  
संसाधन मार्ग, नई दिल्ली-110001  
दूर 011-23340280



**National Education Society for Tribal Students**  
(An Autonomous Organization under  
Ministry of Tribal Affairs, Govt. of India)  
Ground Floor, Gate No.3 A, Jeevan Tara Building,  
Parliament Street, New Delhi-110001  
Telephone No. 011-23340280  
वेबसाइट/Website: www.tribal.nic.in  
Email: nests-tribal@tribal.gov.in

F. No. NESTS/Civil/EMRS Order/140/2021-22

Date: 09.08.2021

To

The Nodal Officers of Construction Agencies  
(TCIL/WAPCOS/NPCC/MTDC/MANIDCO/HSCL/B&R and EPIL)

**Subject: - List of preferred makes of materials to be used in EMRS/EMBDS works-R1-  
regarding**

**Reference: - Prefer make List vide NESTS order no. 18015/11/2019-EMRS(Pt.) dated  
04/03/2021(R1)**

Dear Sir,

I am directed to convey the approval of the competent authority in respect of revision-1 to the list of preferred makes of materials (Civil) issued by this office vide order no. 18015/11/2019-EMRS(Pl.) dated 04/03/2021.

S. No.	Material /Article	Conforming IS Code	Original Manufacturers/ Agencies/ Brand make	Revised Manufacturers/ Agencies/ Brand make
1	Steel Reinforcement	IS 1786:2008	Thermo mechanically treated bars Fe-500Grade conforming to IS 1786:2008 from approved brands i.e. SAIL, TISCO, RINL	Thermo mechanically treated bars Fe-500Grade conforming to IS 1786:2008 from approved brands i.e. SAIL, TISCO, RINL and Shyam Steel (Shyam Steel Industries Ltd)

This is issued with the approval of the competent authority

Encls.: As Above

  
K C Meena  
(Additional Commissioner)

Copy to:

1. PS to Commissioner, NESTS, Jeevan Tara Building, New Delhi
2. Guard File

**LIST OF PREFERRED MAKE OF MATERIALS (CIVIL) for EMRS/EMBS Works (RI)**

S. No.	Material/Article	Conforming IS Code	Manufacturers/ Agencies/ Brand make
1	Cement (OPC 43 grade)	IS 8112:1989	A.C.C., Jaypee Cement, Ultratech, Shri Cement/Bangur, Gujrat Ambuja Cement and Cement Corporation of India.
2	Steel Reinforcement	IS 1786:2008	Thermo mechanically treated bars Fe-500 Grade conforming to IS 1786:2008 from approved brands i.e. SAIL, TISCO, RINL and Shyam Steel (Shyam Steel Industries Ltd)
3	Ready Mix Concrete	-	Ultra Tech (Ultra Tech Cement Ltd.), ACC (ACC Cements Ltd), RMC (India), RMC (India) Pvt. Ltd.
4	AAC Blocks	-	Xtralite (Ultra Tech Cement Ltd), Arecon (HIL), Nucon (Green Way building materials India Pvt. Ltd.), Magicrete (Magicrete Precast)
5	Structural Steel	IS 2062:2011	SAIL, TISCO, RINL.
6	Stainless Steel		Salem (SAIL), Jindal (JSW), SAIL (SAIL)
7	Corrugated GI Sheets	IS 277:2003	TATA, Essar, SAIL, JSW, BHUSAN
8	Colour coated profile sheet	-	TATA
9	Float Glass Profile sheet (transparent)	TATA IS 14900:2000	TATA, Modiguard, Saint Gobain
10	Aluminium extruded sections	IS 733:1983 & IS 1285:2002	Jindal, Hindalco
11	Aluminium plain sheets	IS 733:1983 & IS 1285:2002	Jindal, Hindalco
12	Factory made Machine pressed Pre-laminated flush door shutter	IS 2202 (Part 1): 1999 and relevant IS code	Century, Greenply, Archid, Kitply, Duroply, Merino
13	Block Board	IS 1659:2004	Century, Greenply, Archid, Kitply, Duroply, Merino
14	Flush door shutter	IS 2202 (Part 1): 1999	Greenply, Century, Archid, Kitply, Duroply, Merino
15	Boiling Water proof plywood, Block board, Commercial plywood	IS 303:1989	Greenply, Century, Archid, Kitply, Duroply, Merino
16	Aluminium door & window fittings	Relevant IS Code	Jyoti, Argent, Everest
17	PVC rigid foam sheet	-	Rajshri or equivalent
18	Hydraulic Floor Spring	IS 6315:1992	Dorma, Hardwin, Ozone, Dorma, Dorset
19	Door Closure	IS : 3564	Dorma, Hardwin, Ozone, Dorma, Dorset
20	uPVC doors, door frames and windows	-	Fenesta (Fensta DCM Shriman), Encraft (Encraft India Pvt. Ltd.), Duroplast (Duro Plast Extrusion Pvt. Ltd.)
21	Float Glass	-	Saint Gobain (Saint Gobain India Pvt. Ltd.), Modiguard (Gujarat Guardian Ltd.), Asahi (Asahi India Glass Ltd.)
22	SWR uPVC pipe & fitting	IS 4985:2000 & IS 14233:1999	Supreme, Finolex, Prince, Astral, Prakash
23	CPVC Pipe (White Colour) & fittings	IS 16088: 2012, IS 15778:2007	Supreme, Finolex, Prince, Astral
24	Ceramic glazed wall tiles	IS 13712:1993	Kajaria, Orientbell, Somany, NITCO, HR Johnson,
25	Vitrified Tiles	IS: 15622: 2006	Kajaria, Orientbell, Somany, NITCO, HR Johnson,
26	Bitumen VG-30, VG-10 etc.	IS:73:2013	As per particular specification of IOCL, BPCL, HPCL.
27	Admixtures	IS: 9103:1999	FOSROC, SIKKA, CICO Technologies Ltd., Pidilite

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28	Mild Steel Tubes	IS: 1239:1990	As per IS Code
29	1st quality Acrylic Distemper (Ready mix)	-	Bison (Lewis Berger), Beauty (Nerolac), Tractor Uno (Asian Paints)
30	Premium Acrylic smooth exterior Paint withsilicon additives	-	ULTIMA (Asian paint), Premium Exterior Emulsion (Dulux), Weathercoat long life 7 (Berger)
31	Paints	IS:101:1986	Lewis Berger, Asian Paints, Nerolac, Dulux
32	Steel/Wood Primer paints	IS:14177:1994	Lewis Berger, Asian Paints, Nerolac, Dulux
33	Factory made C.C. Interlocking Paver Blocks	IS: 15658:2006	Niteco, KK, NTC
34	Bitumen 85/25	IS:702:1988	HPCL, IOCL
35	Water Proofing Compound	IS:2645:2003	POSROK, Dr. FIXIT, BASF
36	G. I. Pipes	IS:1239	TATA, Jindal, Hissar
37	G. I. Fittings	-	UNIK
38	PVC Water Storage Tanks	IS: 12701:1996	Statex, Plasto
39	P.T.M.T. Accessories	IS:9763	Prayag, Prakash, Surya
40	Mirror	-	Saint Gobain (Saint Gobain India Pvt. Ltd.), Modiguard (Gujarat Guardian Ltd.), Asahi (Asahi India Glass Ltd.), Atul (Atul Glass Industries Ltd.)
41	Stainless Steel Sink	IS: 13983:1994	Hindware, NIRALI
42	Sanitaryware/ Chinaware	As per IS Code	Cera, Parryware, Hindware
43	C.P. Fittings and accessories for bathroom /toilets	IS:7784:1993	Jaquar, Gem, Parko, Hindware
44	RCC Pipes	-	Indian Hume Pipes (Indian Hume Pipe Ltd.), Jain & Co (Jain spun pipes Co)
45	SFRCC Cover and grating	-	KK (KK Manhole and gratings Co Pvt Ltd.)
46	CI Manhole cover		RPFM (M/s Raj Pattern Makers & founders Pvt. Ltd.), BIC (Bengal iron corporation), Neco (Jayaswal Neco Ltd)
47	Foot Rest (for manhole)		KGM (KGM Exports), Accurate Buildcon (Accurate Buildcon company), Neco (Jayaswal Neco Ltd)
48	Water stops		Hydrotite (Sika India), Dr. Fixit (Pidilite industries), Ferrous Crete (Ferrous Crete ( India ) Pvt Ltd.)
49	Aluminium doors/windows sections	-	Hindalco (Hindalco Industries Ltd.), Jindal (jindal Aluminium Ltd.)
50	Glass Reinforced Concrete (GRC) Jali		Tetrafirma (Tetrafirma GRC Industries), Ecovision (Ecovision Industries Pvt Ltd.), Mahesh GRC (Mahesh Prefab Pvt Ltd.)
<p>Note: Equivalent materials and finishes of any other specialized make may be used, in case it is established that the brands specified above are not available in the market but only after approval of the alternate brand by the Competent authority/NIT Approving authority.</p>			

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25/08

**LIST OF PREFERRED MAKES OF MATERIAL (ELECTRICALS) - for EMRS/EMBDS Works**

S. No.	Material /Article	Manufacturers/ Agencies/ Brand make
1	Engine	Asbok Leyland /Cummins/ Cater pillar /KOEL/ Volvo Penta / Mahindra & Mahindra /Escorts / Eicher
2	Alternator	Kirloskar/NGEF/KEL/Crompton Greaves (AL. series) / KEC /Leroy Somer / Stamford/Jyoti Ltd
3	Battery (Lead Acid /Mntc. Free)	Amara Raja / AMCO / Hitachi / Exide/ Prestolite/ Standard/Crompton Greaves
4	HV Switchgear	Southern Switchgear/Biecco Lawrie / Crompton / Kirloskar /MEI /Voltas/ Jyoti Ltd.( Make of the accessories like meters, CTs, PT etc. shall be as provided by the manufacturer of the H.T.Panel )
5	LT Switchgears	L&T/ Schneider Electric / Siemens/ABB/nager/Legrand
6	Vacuum Circuit Breaker	GE/Siemens
7	Transformer (Oil filled / Dry type)	ABB / Schneider Electric /Andrew Yule /Bharat Bijlee / Crompton Greaves / EMCO /Kirloskar /Siemens/Voltas/Areva/Hammond
8	HT Panels	ABB/Siemens/L&T/Schneider/Kirloskar/System Control
9	Air Circuit Breaker	L&T/ Schneider Electric / Siemens
10	MCCB (Ics=Icu)	L&T/ Schneider Electric / Siemens/Legrand/Havells
11	MV/LT Panels	TTA/CPRI Fabricators with panels cleared by CPRI
12	SDF units	L&T/ Schneider Electric / Siemens/ HPL/Havells
13	Power Contactors	L&T/ Schneider Electric / Siemens/Lakshmi(LECS)/BCH/GE Power Controls
14	Change Over Switch	HPL / Havells / H-H Elcon/Standard/Control & Switch gears
15	Air Break Switch	National/Kiran/Pactil/Atlas/Power grid switchgears
16	Pin and Disc Insulator	Jayshree/WS/IEC/BHEL/Bharat Industries
17	11 KV Horn Gap Arrestor	Sahal/Pactil/GE/SEW
18	Lightning Arrestor	Atlas/GE/Elaro/Lanco/International/Oblum/Elpro
19	Drop out Fuses	National/Kiran/Pactil
20	G.I. Wire/Strip	Hot dipped Galvanized
21	APFC Relay	L&T/EPCOS(Siemens)/ Schneider Electric / Neptune Ducati/Syntron/ABB/Trinity Electronics
22	IDMT Relay	AVKC/SEGC
23	C.T./P.T.	AE/MP/Marshall/Pactil/Kappa/L&T/Ashmor/Waco/Meco/Gilbert/Trio/Indotech/Indo coil
24	Selector Switch	L&T/Kaycee/IMP/Thakoor/Vaishno/Seizer/Rass control
25	Indicating Lamp (LED Type) and Push Buttons	Vaishno/Siemens/L&T/AE/IMP/Rass control/Crompton/Kaycee/BCH/EMCO
26	Power Capacitors (MPP/APP)	Khatau Junkar/L&T/EPCOS(Siemens)/ABB/Crompton/Schneider Electric/NeptuneDucati
27	Digital Panel Meters i/c Multi Function Meter	Conzerv/Schneider Electric/ AE/ Digitron / IMP/Meco / Rishabh /Universal/HPL/L&T/ABB
28	Ammeter/Voltmeter	AE/Universal/Rishabh/Kaycee/Meco/Enercom
29	Cold shrink HT/LT Cable Joint Kit	Denson / 3M(M-Seal ) Raychem
30	Rubber Matting ( ISI Marked)	Jyoti Rubber Udyog/Raychem/Padmini/Dozz
31	AVM Pads	Dunlop/Poly Bond
32	MCB/ Isolator/ELCB/RCCB/ Distribution Board	Crompton / Havells / Indokopp / MDS Legrand/ L&T / Schneider Electric/Siemens /Standard/ C&S/ABB/HPL ( makes of DBs and circuit breakers shall be same)
33	TPN Switches & HRC Fuses	Crompton / Havells / Indokopp / MDS Legrand/ L&T / Schneider Electric/Siemens / Standard/ C&S/HPL
34	PVC Conduits (ISI Marked) Colour : Ivory/Grey	AKG/BEC/Avon Plast/Precision/GM/Clipsal
35	Steel Conduits(ISI Marked)	BEC/Bharat/Gupta/AKG/RMCON/Steel Krafts
36	Piano/Modular Switches and Sockets	Legrand/MK/Havells/Anchor

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37	Cable Tray	MEM/Bharti/Ratan/Slotco/Profab
38	Cable Glands	MCI, Comet/Jainson
39	Thimbles/Lugs	Jainson/Dowells/Ascon
40	1.1 KV/11KV grade Al. Condr., XLPE insulated armoured cables ( ISI Marked )	Finolex/Havells/Polycab/KEI/Universal/Gloster
41	Fire Survival cable	KEI/Polycab/RR Kabel/Havells
42	Wires (PVC insulated copper conductor cable FRLS - ISI marked)/Telephone cables/Submersible cables/Co-axial/TV cables	Finolex/Havells/Polycab/Anchor/RR Kabel/L&T
43	Fans and Exhaust fans ( All Types)	Khaitan/Havells/Crompton/Orient/Almond/Baja
44	LED Luminaries i/c street light fittings ( ISI Marked)	Phillips/Havells/Wipro/Crompton Greaves/Bajaj/Osram
45	LAN Cables	Panduit/Legrand/Belden/Schneider/Molex/Extreme/Systemax(COMMSCOPE)
46	Centrifugal Pump	BE Power / Beacon /Crompton / Jyoti / Kirloskar / KSB
47	Submersible Pump	Crompton / BE Power /Kirloskar / KSB
48	Motors	ABB/ Bharat Bijlee / Crompton Greaves /Schneider Electric / HBB / Kirloskar /Siemens/Jyoti Ltd
49	Motor Starters	L&T/Siemens/BCH/ABB/MEI/GE Power Control/Schneider Electric
50	Fresh Air Fans	GE / Khaitan/Almonard/Crompton
51	Single Phase Preventer/Overload Unit	L&T / Minilec / Siemens / Zerotrip
52	Timers	L&T / Minilec / Siemens / Telemecanique/AE
53	GI/MS Pipe ( ISI Marked)	ATC / ATL / BST / GSI / ITC / ITS / IIA /JST / Jindal /TTA / Tata/Zenith
54	Gate Valve/Foot Valve/NRV/Butter Fly Valve	Advance/Audco/Johnson Controls/Zoloto/Annapurna / Fountain /Kirloskar / Leader / Sant / Trishul/Karter/Inter Valve
55	Single/Double Headed GM Landing Valve	New Age (Mumbai)/Safex/Ceasefire/Padmini/Life guard
56	Hydrant Valve	New Age (Mumbai)/Safex/Ceasefire/Kalpana/L&T valves Ltd./Life guard
57	Gauges	Feibig / H.Guru / Pricol
58	Controls	FLICA / Honeywell / Indfoss / Penn-Danfoss / Ranco / Ranutrol / Sporland
59	Pressure Gauge	H Guru/Feibig
60	Fine Filters	Aniftra Effluent / ARW / Athlete/Airtake/ Dyna / Kirloskar/ Puromatic/Purafill/ Purolator / Tenacity
61	GI Sheet	H&J Jindal / National / Nippon Denro /Sail / Tata
62	Heat Detector	Appollo / Chenison/ Edward / Fenwal/Hochiki / Nitton /System Sensor/Wormald/Honeywell Essar/Notifier
63	Ionization Detector	Appollo / Cerebrus / Edward / Fenwal /Hochiki / Nitton / System Sensor /Wormald
64	Photo Electric Smoke Detector	Appollo / Cerebrus / Edward / Fenwal/Hochiki / Nitton / Wormald
65	Fire Panel (Microprocessor based)	Agni Instruments / Agni Devices/ Aruna Agencies/ Carmel Sensor / Ravel Elect./Honeywell Essar/Notifier/Navin Systems
66	Sprinkler/ Hose Reel & Hose Pipe (ISI Marked)	Safex/Padmini/Ge Tech/Agni/Newage/Ceasefire/Life Guard/Omex
67	Fire Extinguisher ( ISI Marked)	Minimax/Lifeguard/Safeguard/Safex/Omex
68	Water Purifier	Eureka Forbes/Kent/Ion Exchange/LG
69	Inverter System	Sukam/Microtek/Luminous
70	Electrical Water Storage Heater (Geyser)	Racold/Crompton/Havells/Ditz
<p><b>Notes:</b> Equivalent materials and finishes of any other specialized make may be used, in case it is established that the brands specified above are not available in the market but only after approval of the alternate brand by the Competent authority/NIT Approving authority.</p>		

KAN  
09/08

**F.No. 18015/11/2019 – EMRS (Pt.)**  
**Government of India**  
**Ministry of Tribal Affairs**  
**National Education Society for Tribal Students**

Shastri Bhawan, New Delhi  
Dated: 08<sup>th</sup> Sep, 2020

To,

The CMDs of Construction Agencies  
(HSCL, EPIL, MIDC, B&R, TCIL, WAPCOS, NPCC and MTDC)

**Subject: Phasing out the construction of EMRSs reg.**

I am directed to convey approval of the competent authority for phasing out construction work of EMRS to optimize the infrastructure. The construction process shall be divided in two phases. Initially with the available sanctioned cost/Fund of Rs 20 Cr ( 20 % additional for Hilly, NE & LWE area), Phase 1 construction shall be allowed and next phase of construction shall be allowed only after approval for revised estimates are received. Details of phasing of EMRS construction are proposed as under:-

**Phase – I**

1. School Building – 2580 Sq. Mt. Plinth Area
2. Girls' Hostel 0.50 Unit i/c Warden Residence- 1220 Sq. Mt.
3. Boys' Hostel 0.5 unit i/c Warden Residence- 1220 Sq. Mt.
4. Dinning & Kitchen – 550 Sq. Mt.
5. Compound Wall with security cabin.
6. Other services such as Leveling, Roads & Internal pathway, Drain, Sewerage, Septic Tank as per minimum requirement
7. Sump 50,000 Litre, OH Tank with pump and distribution lines.
8. Bore Well 1 No with submersible pump and delivery line upto sump
9. Electrical Services- Sub Station ( Transformer), LED Street Light,
10. The other site provisions, Retaining Wall, Cutting, Filling etc as per the availability of fund.

**Phase – II**

1. Girls' Hostel 0.5 Unit of 1140 Sq. Mt.
2. Boys' Hostel 0.50 Unit of 1140 Sq. Mt.
3. Principal Quarter – 130 Sq. Mt.
4. 15 Nos Type –III Quarters -1200 Sq. Mt.
5. 10 Nos Type II Quarters – 700 Sq. Mt.
6. Guest House – 80 Sq. Mt.
7. Balance Services of as Leveling, Roads & Internal pathway, Drain, Sewerage, Septic Tank, Drain, Rain Water Harvesting.
8. Sump 50,000 Litre, OH Tank with pump and distribution lines.

*[Handwritten Signature]*  
08/09

9. Bore Well 1 No with submersible pump and delivery line upto sump
10. Sports Facilities
11. Electrical Services- DG Set Solar Street Light,
12. The other site specific provisions, Retaining Wall, Cutting, Filling etc as per the

The Construction Agencies are requested to prepare the DPR considering the phasing of construction activities. DPR shall be submitted for the entire project, however; the detailed estimates shall be submitted separately for each phase. No deviation shall be permitted over the sanctioned cost without any prior approval of the NESTS. AA & ES for each phase shall be issued separately on case to case basis.

With Regards,

Your faithfully,

  
K.C. Meena,

Additional Commissioner,  
NESTS, New Delhi



**F.No. 18015/11/2019 – EMRS(Pt.)**  
**Government of India**  
**Ministry of Tribal Affairs**  
**National Education Society for Tribal Students**

Shastri Bhawan, New Delhi  
Dated: 08<sup>th</sup> Sep, 2020

To  
The Director (Elect.)  
Central Public Works Department (CPWD),  
Directorate of General Works Unit (Elect.),  
Room No. A-115, Nirman Bhawan,  
New Delhi-110011.

**Subject: Phasing out the construction of EMRSs reg.**

I am directed to convey approval of the competent authority for phasing out construction work of EMRS to optimize the infrastructure. The construction process shall be divided in two phases. Initially with the available sanctioned cost/fund of Rs 20 Cr ( 20 % additional for Hilly, NE & LWE area), Phase 1 construction shall be allowed and next phase of construction shall be allowed only after approval for revised estimates are received. Details of phasing of EMRS construction are proposed as under:-

**Phase – I**

1. School Building – 2580 Sq. Mt. Plinth Area
2. Girls' Hostel 0.50 Unit i/c Warden Residence- 1220 Sq. Mt.
3. Boys' Hostel 0.5 unit i/c Warden Residence- 1220 Sq. Mt.
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5. Compound Wall with security cabin.
6. Other services such as Leveling, Roads & Internal pathway, Drain, Sewerage, Septic Tank as per minimum requirement
7. Sump 50,000 Litre, OH Tank with pump and distribution lines.
8. Bore Well 1 No with submersible pump and delivery line upto sump
9. Electrical Services- Sub Station ( Transformer), LED Street Light,
10. The other site provisions, Retailing Wall, Cutting, Filling etc as per the availability of fund.

**Phase – II**

1. Girls' Hostel 0.5 Unit of 1140 Sq. Mt.
2. Boys' Hostel 0.50 Unit of 1140 Sq. Mt.
3. Principal Quarter – 130 Sq. Mt.
4. 15 Nos Type –III Quarters -1200 Sq. Mt.
5. 10 Nos Type II Quarters – 700 Sq. Mt.
6. Guest House – 80 Sq. Mt.
7. Balance Services of as Leveling, Roads & Internal pathway, Drain, Sewerage, Septic

*K. S. S. S.*  
*08/09*

Tank, Drain, Rain Water Harvesting.

8. Sump 50,000 Litre, OH Tank with pump and distribution lines.
9. Bore Well 1 No with submersible pump and delivery line upto sump
10. Sports Facilities
11. Electrical Services- DG Set Solar Street Light,
12. The other site specific provisions, Retaining Wall, Cutting, Filling etc as per the availability of fund.

It may please be noted that no deviation shall be permitted over the sanctioned cost without any prior approval of NESTS. AA & ES for each phase shall be issued separately on case to case basis.

With Regards,

Your faithfully,



K.C. Meera,

Additional Commissioner,  
NESTS, New Delhi

**F. No 18015/11/2019-EMRS**  
**Government of India,**  
**Ministry of Tribal Affairs**  
**National Education Society for Tribal Students**

Shastri Bhawan, New Delhi  
Dated: 06.10.2020

To,  
The Principal Secretary/Secretary In charge  
Tribal Development Department  
As per list attached

**Subject: - Regarding detailed guidelines for providing land particulars, demarcation & handing over land for construction of EMRS/EMDBS.**

Ref: 1. F. No. 18015/15/2018/Grants dated 14.11.2019 for Land Suitability Report  
2. Letter No 18015/11/2019/EMRS(Pt) dated 26.08.2020 for providing land particulars  
3. Letter No 18015/11/2019/EMRS(Pt) dated 14.09.2020 for relaxation in approved land area.

Sir/Madam,

As per the CCEA decision, 462 Tribal Blocks in different part of the country have been identified by Ministry of Tribal Affairs for the establishment of EMRS/EMSBS for tribal students. The National Education Society for Tribal Student (NESTS), Ministry of Tribal Affairs has assigned the construction of EMRS/EMDBS to CPWD, Central Government/ State Government PSUs and the State Governments at 452 locations as per the summary given below:

Sl. No	Implementing Agency	No of Schools Assigned
1	PSUs	370
2	CPWD	40
3	State Government	42
	Total	452

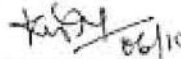
Vide letters under reference guidelines were also issued to provide land particulars in prescribed format (Land Suitability Particulars) along with land documents as listed in this office letter dated 25.08.2020 referred above.

The identification of lands, providing required land documents, transfer of the land to the Tribal Development Authority or State Society, demarcation of lands and taking possession of lands by construction agencies are in progress. The identified land detail received from the State is also being shared with the construction agencies on regular basis to commence pre-construction activities.

It is very important that, the identified land must be in the name of State Society or Tribal Welfare Department of particular State allotted for the construction of a particular EMRS and clearly certified by the competent authority that the encroachment and encumbrance free identified land is available at the location under village, block, and district for construction of EMRS.

In this regard consolidated guideline and orders has been compiled for the identification of suitable lands, providing land particulars, demarcation of identified lands and handing over sites to the construction agencies particulars. Compiled detailed guidelines are as under:-

1. Land allotment letter of State Government
2. Land Suitability Particulars duly signed by Secretary/Commissioner, Tribal Welfare Department.
3. Land documents indicating following items
  - (i) Khata No/Survey No/Plot No. Area of Lands.
  - (ii) Legal Title Holder of land
  - (iii) Sketch/Survey Map
  - (iv) Ownership Documents - Land Deed/ Gift Deed/ Govt. Notification, /Land Alienation Certificate, etc
  - (v) Land Use Certificate indicating land is allotted for construction of EMRS.

  
06/10

- (vi) Copy of giving possession of lands to Construction Agencies if handed over to Construction agency.
- (vii) Details of Land transferred to TWD/State Society.
4. As per prevailing guideline relatively leveled and rectangular shape of land with normal topography shall preferably be identified for construction of EMRS/EMDBS. Any deviation from these land parameters will increase cost of construction, which has to be borne by the State Government. Therefore, following types of lands may be avoided as far as possible; -
- (i) Land with no approach road which may require additional cost for construction of approach road.
- (ii) Highly undulated lands and low lying lands involving considerably higher expenditure for filling & cutting.
- (iii) Highly undulated hilly terrain requiring a high expenditure for construction of retaining wall.
- (iv) In case the State Government gives an undertaking that such works will be done by State Govt. utilizing their own funds, NESTS can sanction such sites on a case to case basis.
5. The approved land area for construction of EMRS and EMDBS are 15 Acres and 5 Acres respectively. However, the competent authority has delegated the power to Commissioner, NESTS to relax the approved land area on case to case basis provided that full justifications are submitted by State Government. The plot should satisfy functional requirement as per the scope of establishment of EMRS.
6. Similarly, the land area beyond approved area of 15 acres is not permissible. In case the plot area is more than approved land area, portion of land measuring 15 acres and 5 acres for EMRS & EMDBS should be demarcated by the State Government from the available land and sketch map of re-located land shall also be enclosed.
7. NESTS shall issue the formal sanction order for construction of EMRS only after receipt of the required land particulars complying guidelines detailed above. The formal sanction order of EMRS is mandatory requirement to commence the construction activities.

The details of land particulars for majority of EMRS locations are awaited from the Tribal Department of the state. Therefore, it is requested that the process of identification and providing the land particulars may be expedited in accordance with the compiled guidelines mentioned above.

Wherever the sanction order of EMRS in identified locations has been issued by NESTS, New Delhi, the Local level officers such as concerned Dist Welfare Officer/Revenue officer of the respective Districts may be directed to expedite the process of demarcation of lands and handing over the EMRS construction sites to the Construction agency to start the EMRS construction at the earliest.

You will appreciate that construction of EMRS is one of the topmost priorities of the Government for providing quality education to tribal students. Any delays in this program will affect this adversely. Moreover early start of construction activities will ensure generation of local employment which is of paramount importance during these times.

  
(K C Meena)

Additional Commissioner (NESTS)

Copy to:

1. Sh. P.Ranjit Basha, Secretary (FAC), APTWREIS, Andhra Pradesh
2. Sh. K. Prabhakara Rao, Deputy Secretary (Admin & Accts) (FAC) APTWREIS, Andhra Pradesh

**ANNEXURE**

**LAND SUITABILITY REPORT**

**Information of Land identified for construction of Eklavya Model Residential School (EMRS) and Eklavya Model Day Boarding School (EMDBS)**

S.No.	Information Required	Information Submitted	
1.	Name of EMRS/EMDBS		
2	Legal title holder of the proposed plot		
3a.	Area of land identified for transfer to EMRS (in Acres ) (if more than one place, indicate separately)		
3b.	Survey No/ Khata No/Plot No/Khasra No.		
4.	Location of Land (District/ Block/Village.) (Please attach survey plan showing area of land and boundaries) Clearly Indicate URBAN/RURAL Areas etc.	District:	LGD Code:
		Block:	LGD Code:
		Village:	LGD Code:
5.	Approach road to land and its condition		
6.	Distance from the main city/town/habitable area and availability of public transport		
7.	Whether plot is in forest area full or part of trees/bushes etc. (mention clearly instead of yes or no)		
8.	Terrain of the land (plain, undulated, sloppy, hilly etc. upto what extent)		
9.	Whether the plot is low lying requiring filling and if so what extent		
10.	Whether any nallah is passing through the land (if so details thereof )		
11.	Whether any public road (Katcha/Pucca) passing through the land (if so the detail thereof)		
12.	Whether HT/LT, electric lines/poles are passing through the land (if so details may be given)		
13.	Whether electric supply is available in the vicinity with approx. distance		
14.	Availability of drinking water supply and sewage disposal lines of the Municipality/Cantt. / Board/ Village Block Panchayat etc. in the vicinity		
15.	Status of availability of ground water in the proposed plot (Whether potable or not) and water level of the area		

16.	Whether any encroachments noticed on land	
17.	Any other relevant information in support of land	

**Overall Assessment of the Competent Authority**

- I. The plot of land is found suitable by the Competent Authority for construction of school building, staff quarters, sports facilities etc.
- II. The site can be made suitable to the State Govt from their own resources.

Secretary/Commissioner,

Tribal Welfare/Development Department

Saurabh Jain, IAS  
Joint Secretary (EMRS)



जनजातीय कार्य मंत्रालय  
Ministry of Tribal Affairs  
भारत सरकार  
Government of India  
शास्त्री भवन, नई दिल्ली-110 001  
Shastri Bhawan, New Delhi-110 001  
Website : www.tribal.nic.in

F.No. 18015/15/2018-Grants

Dated: 14.11.2019

Dear Sir/Madame

As you are aware, Ministry has sanctioned 145 Eklavya Model Residential Schools (EMRS) and 5 Eklavya Model Day Boarding School in different States in 2018-19 and 2019-20.

2. In this regard, Ministry has requested for identification of the land sub district wise for establishing schools at different locations vide letter no. 18015/15/2018/Misc-Grants dated 26<sup>th</sup> Dec 2019, 24<sup>th</sup> Jan 2019 and 27<sup>th</sup> June 2019.

3. You will appreciate that availability of land, free from encumbrances, is a prerequisite for starting the construction work. The ministry is in the final stages for identification of Project Management Consultant for construction of EMRS/EMDBS and they have to be handed over the land expeditiously for starting the construction work.

4. For ensuring preparation of database of land details, a standard format of land suitability report has been developed and enclosed. You are requested to kindly submit **Land Suitability Report** for each of the EMRS and EMDBS of your State at the earliest.

This may please be accorded on priority.

*Saurabh Jain*

Yours Sincerely

*Saurabh Jain*  
14.11.19  
(Saurabh Jain)

Encl: as above

To

**The Principal Secretaries, Tribal Welfare/ Development Department**  
(As per list of States Attached)

**Information of Land identified for construction of Eklavya Model Residential School (EMRS) and Eklavya Model Day Boarding School (EMDBS) school building and staff quarters etc.**

**Land Suitability Report**

S.No.	Information Required	Information Submitted	
1.	Name of EMRS/EMDBS		
2.	Legal title holder of the proposed plot		
3.	Area of land identified for transfer to EMRS (in acres) (if more than one place, indicate separately)		
4.	Location of Land (District/ Block/Village/Khasra No.)  (Please attach survey plan showing area of land and boundaries) Clearly indicate URBAN/RURAL Areas etc.	District:	LGD Code:
		Block:	LGD Code:
		Village:	LGD Code:
5.	Approach road to land and its condition		
6.	Distance from the main city/town/habitable area and availability of public transport		
7.	Whether plot is in forest area full or part of trees/bushes etc. (mention clearly instead of yes or no)		
8.	Terrain of the land (plain, undulated, sloppy, hilly etc. up to what extent)		
9.	Whether the plot is low lying requiring filling and if so what extent		
10.	Whether any nallah is passing through the land (if so details thereof)		
11.	Whether any public road (Katcha/Pucca) passing through the land (if so the detail thereof)		



12.	Whether HT/LT, electric lines/poles are passing through the land (if so details may be given)	
13.	Whether electric supply is available in the vicinity with approx. distance	
14.	Availability of drinking water supply and sewage disposal lines of the Municipality/cantt./ Board/ Village Block Panchayat etc. in the vicinity	
15.	Status of availability of ground water in the proposed plot (Whether potable or not) and water level of the area	
16.	Whether any encroachments noticed on land	
17.	Any other relevant information in support of land	

**Overall Assessment of the Competent Authority**

- I. The plot of land is found suitable by the Competent Authority for construction of school building, staff quarters, sports facilities etc.
- II. The site can be made suitable subject to following which will be carried out by the State Govt at their own resources. (Please mention the improvements)

Secretary/Commissioner,

Tribal Welfare/Development Department

F. No 18015/11/2019-EMRS(Pl.)  
Government of India  
Ministry of Tribal Affairs  
National Education Society for Tribal Students

Shastri Bhawan, New Delhi  
Dated: 25<sup>th</sup> Aug, 2020

To,  
The Principal Secretary/Secretary In charge  
Tribal Development Department  
As per list attached

**Subject: Providing of land documents of identified land for the construction of EMRS.**

Dear Madam/ Sir,

As you are aware, the Construction work of 452 locations identified as per CCEA decision has been assigned between CPWD, Central Government/ State Government PSUs and the State Governments.

The construction agencies have been requested to visit the identified location and start the pre-construction activities at earliest. The identified land detail received from the State is also shared with the construction agencies to take possession of the land to start the pre-construction activities. There are instances that the construction agencies are facing difficulties since the local administration is not handing over the land in writing to the construction agencies and agencies are starting survey works without getting formal handing over the land document from the local administration. This may lead to local dispute at a later stage.

In this regard, it is very important that, the identified land must be in the name of State Society or Tribal Welfare Department of particular State and clearly certified by the competent authority that the identified land is free from encroachment and encumbrance with proper land use certificate for the construction of EMRS.

Therefore I am directed to request you to kindly provide the following land document of the identified land to the NESTS:-

1. Ownership document (Land deed, Gift Deed etc.) indicating Actual Locations, Khata No./ Khasra No., Plot no., Size/Area of land, Land Alienation Certificate etc.
2. Survey Map and Sketch map of identified land
3. Ownership transfer certificate (Ownership transfer to State Society/ Tribal Welfare Department)
4. Land Use Certificate
5. Any other relevant document

It is again requested that the above information/land document may be sent to the NESTS at email id: [nests-tribal@tribal.gov.in](mailto:nests-tribal@tribal.gov.in) latest by 10<sup>th</sup> Sept 2020.

Thanking You,

Your faithfully,



(K.C. Meena)

**Additional Commissioner, NESTS**  
Email id: [kcmcena.ofb@ofb.gov.in](mailto:kcmcena.ofb@ofb.gov.in)  
Telephone No.23380068

18015/11/2019-EMRS (Pt.)  
Government of India  
Ministry of Tribal Affairs  
National Education Society for Tribal Students

Shastri Bhawan, New Delhi  
Dated: 14<sup>th</sup> Sep, 2020

To,  
The Principal Secretary/Secretary In charge/ Commissioner/Director  
Tribal Development Department/State EMRS Society  
(As per list of States attached)

**Subject: Relaxation in approved land area for the establishment of EMRSs/EMDBSs.**

The approved land area for the establishment of EMRS and EMDBS are 15 acre and 5 acres respectively. However, there are instances where the availability of land area is less than approved area. In the layout plans submitted recently by some of the construction agencies, it has been observed that plots having areas less than 15 acres can satisfy functional requirements of EMRS with same size of school buildings, hostels, staff quarters which were originally envisaged.

In this regard, I am directed to convey the approval of the competent authority for the relaxation of plots having land area 10 acre for the scope of establishment of EMRS. The 10 acres of land can accommodate the required buildings and sports facilities. Only the size of the playground and other sports courts has to be reduced proportionately in case of smaller plots.

I am also directed to convey the approval of the competent authority, delegating the power to Commissioner, NESTS for relaxing the land criteria on a case to case basis.

In view of above, it is requested to submit the proposal for required relaxation of land area (if any) along with the required land related documents as per even no. letter dated 25.08.2020 (i.e. Land Suitability Report, ownership documents, sketch map, Ownership transfer certificate, land Use Certificate etc.) in the favor of Commissioner, NESTS for perusal and approval.

Thanking You,

Your faithfully,



(K.C. Meena)

Additional Commissioner, NESTS

