

East Coast Railway
Engineering Department
CE Circular No: 02/2021 Dt. 01.06.2021


Sub: Barrack design for RPF/RPSF personnel.

1. In ECoR, RPSF armoured barracks and armory are being constructed of pucca structure comprising of brick masonry and RCC roof. The requirement and deployment of RPSF is dynamic as location of RPSF companies keep changing with need and security situation all over Indian Railway. It would be prudent to adopt the Pre-Fabricated design instead of built of pucca structures. The Pre-Fab barrack can be easily uprooted and re-erected at locations where the Force is to be deployed, with ease and without wastage. The Prefabricated structures are also cost effective, though slightly higher in initial cost, compared to conventional permanent structures. But they will prove to be economical in long run as these can move with the company and repetitive expenditure on constructing barracks at every location shall not be required.
2. So far, RPSF barracks are constructed without any standard template. Railway Board has recently circulated a Standard Template for Barracks with provision of essential amenities/facilities in RPF/RPSF barracks (vide Board's letter No.2017/Sec(Spl)/220/7 on Barrack dated 28.02.2019). This template is therefore, being adopted with customised local modification, if need be, in consultation with PCSC and/or technical issues.
3. In view of the above, it is decided that henceforth, all RPSF barracks shall be constructed with Pre-Fab design instead of pucca brick masonry and RCC roof barracks.
4. Technical Specification for Construction of Pre-fabricated Barracks is at Annexure – A for guidance and adoption. A Model Plan for RPSF Barracks is at Annexure – B.
5. Fencing, Morchas, Trenches and Sand bagging etc. required around the Prefabricated Barracks in LWE territory shall be done as per requirement given by PCSC.
6. Generally, RPF barracks shall continue to be constructed of pucca structures comprising of brick masonry and RCC roof. However, if location and other

considerations justify, the mode of construction can be changed to Pre-fabricated barrack as per advice of PCSC.

7. Any new construction of RPF/RPSF barracks shall be as per this policy. As such may process for material modification, for adopting Pre-fabricated design to standard template, promptly.

This issues with the approval of PCE.


(S. Y. Mendhekar)

CE/Works/BBS

No.W.1/CE/Works/Qtrs and Service Building maint/2021

Dt.01.06.2021

Copy forwarded to:

1. Secy. to GM for kind information of GM.
2. PHODs/CHODs of ECoR.
3. CAO/Con/BBS & PFA/BBS.
4. DRM/KUR, SBP &WAT.
5. All HODs of Engg./ECoR/BBS.
6. Sr.DEN(Co-Ord/KUR, SBP & WAT.
7. CPM/RVNL/I&II/BBS, CPM/RVNL/I&II/VSKP & CPM/RVNL/R
8. ED/RVNL/BBS

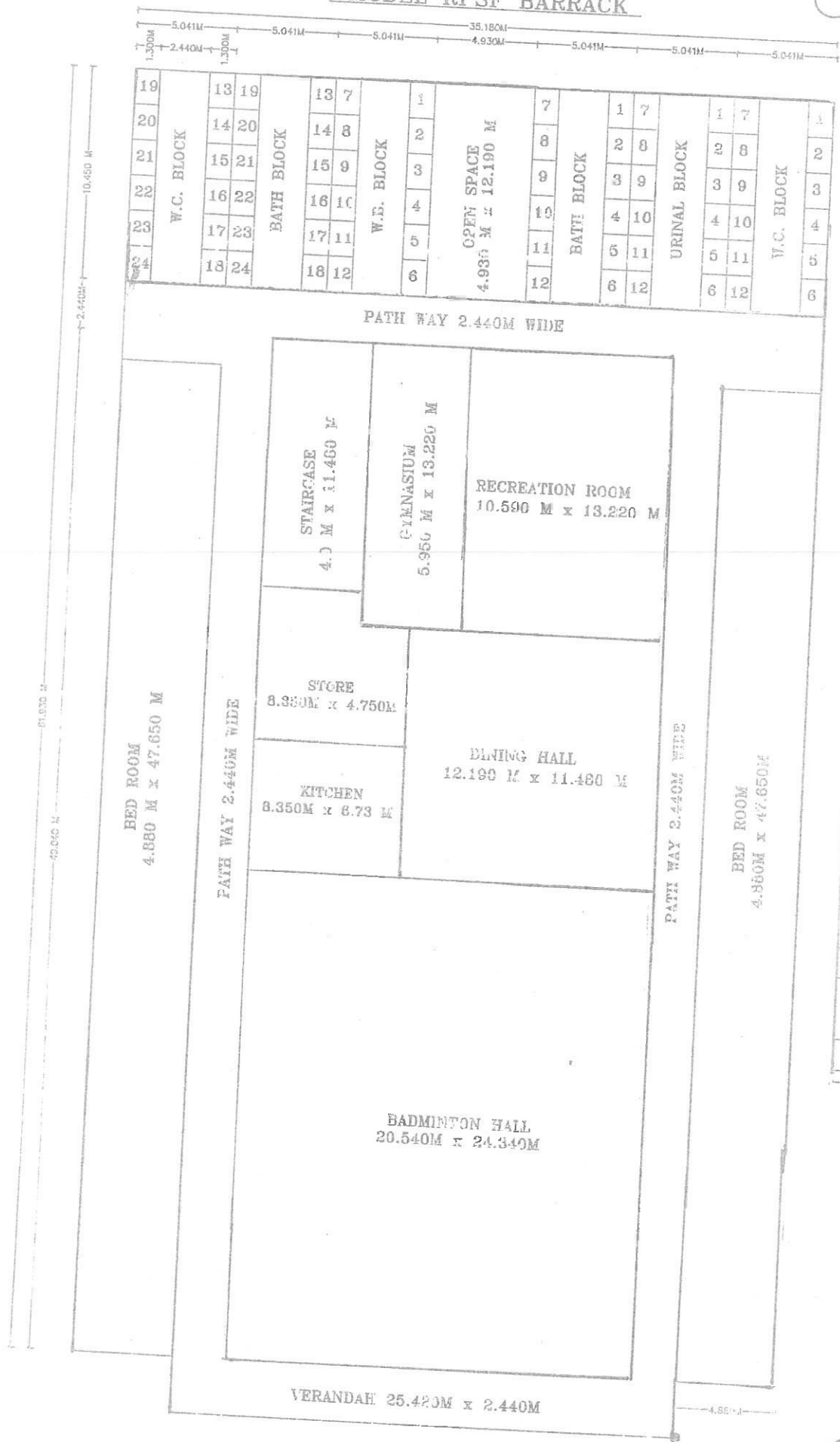
TECHNICAL SPECIFICATION FOR PRE-FABRICATED RPSF BARRACKS

1. **Foundation:** RCC slab/ isolated footing as per design of railways.
2. **Structural Framing:** The base frame and base cross section shall be made of 100x50x6 mm thick mild steel 'C' channel having 2 coats of red oxide. Insulation with 50mm thick glass wool.
3. **Walls:** External walls shall be made of 1.6mm thick mild steel corrugated sheet welded at the edges. Internal walls shall be made of wooden frame of 38x25 mm thick pine wood reaper and finished with 8 mm MDF sheets. All gaps will be sealed at edges and at seams, bottoms etc. to prevent ingress of moisture.
4. **Roof:** Self draining type roof shall be made out of 18 SWG of 1 mm thick, adequate roof bows are to be provided. Roof shall be adequately cambered & sloped for draining of rain water. Interior paneling shall be done in 9 mm MDF Board with adequate insulation.
5. **Roof & Wall Insulation:** It shall be made of 50 mm thick Glass wool.
6. **False Ceiling:** False ceiling shall be made of wooden frame of 38x25 mm thick pine wood reaper and finished with 8 mm MDF sheets.
7. **False ceiling in toilets and other areas:** It shall be made of 38x25 mm thick pine wood reaper and finished with 3mm ACP sheets.
8. **Floor Sheathing:** It shall be made of 12 mm thick Phenol Board which shall be waterproof and termites proof.
9. **Floor:** It shall be made of 100x50x6 mm thick 'C' channel and finished with 1 mm thick Vinyl Mat.
10. **Doors:** Single leaf with aldrops, Size: LxH=910x2130 mm which shall include 'L' frame of 30x65x1.6 mm size (outer frame) & door sheet frame of 40x2 mm thick MS tube section.
11. **Windows:** Single leaf aluminum sliding window of size: LxH=910x2130 mm with tower bolt, which shall include 'L' frame of 30x65x1.6 mm (outer frame) & window sheet frame of 40x1.6 mm thick MS flat section.
12. **External Painting:** 1 coat of red oxide & 2 coats of epoxy paint.
13. **Warranty:** 5 years from date of installation.

1/5/21
12/5/21
12/5/2021
DYCB/warr
(BSE/WORKS)

MODEL RPSF BARRACK

69 Annexure



PLAN

- NOTES:
1. ALL DIMENSIONS ARE IN M.
 2. THE DRAWING IS DRAWN NOT TO SCALE.

150m
12/15/21
12/5/2021
SSE/WSS/SH

COMMANDING COY-OFFICE, BARRACK

