

EAST COAST RAILWAY
Engineering Department

CE Circular No. 41

Sub: Execution of finishing works such as white washing, colour washing, distempering, painting, polishing and varnishing etc.

The work of **white washing, colour washing, distempering, painting, polishing and varnishing etc.** is carried out as a finishing work as well as periodical maintenance to masonry walls, wooden doors and windows, steel structures etc. These works are carried out to improve the aesthetic appearance of the building/structures as well as to give a protective covering which in turn increases the life span of the structures.

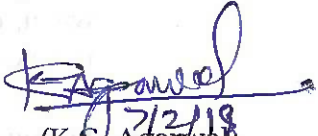
Indian Railway Unified Standard Specifications Vol. II provides detailed specifications for the items under Chapter 11 and 12. These specifications provide details about materials, preparation of surface, application, measurements, other related items and about protective measures to be taken for & removal of stains, smears, splashing, droppings if any from, the items which are not to be white /colour washed, distempered, painted polished or varnished. These specifications are needs to be followed strictly to have control over the quality.

For efficient and effective finishing works, due attention is required to the following points, which are not covered in the specifications and require to be highlighted.

1. Treatment works of leaky roofs, soaking walls, rise of moisture due to capillary action etc., are to be taken up before execution of white/colour wash, distempering or painting works so that already executed work does not get spoiled due to these problems.
2. Broken edges of the walls are to be made good, holes and cracks are to be filled up before taking up white/colour wash, distempering or painting works.
3. Concerned Departments like Electrical, S&T, Mech etc., should be coordinated, so that these departments may take necessary measures to remove their fitting and fixture, which require cleaning, re-painting or replacement and would put them back after due attention. The concerned department will take up works pertaining to them before the engineering work is taken up, in case it causes disturbance to existing plaster, structures etc. If the attention to the fixtures of other department does not cause any disturbance to plaster, structures etc., then these fixtures should be put back after engineering work is finished.

4. Polishing of the mosaic/marble/wooden floors does not have any specified periodicity. This work should be carried out on condition basis. Hence, the condition of the floor is to be checked before taking up white washing/colour washing/distempering etc and If decided to polish the floor, it should be done alongwith the white washing/colour washing/distempering etc.
5. For the white washing, colour washing, distempering, painting, polishing and varnishing etc., the labour employed should be well conversant with the method of preparation of materials required for the work, its application and various precaution to be taken during the work so that they are able to produce quality work. Engineer or his representative should direct the concerned contractor to remove the inefficient labour employed by the contractor, using the provisions of clause 26.2 of GCC.
6. Painting is one of the easiest to-do projects, yet it is not without its potential hazards. Following safety guidelines should be followed to avoid mishaps:
 - (i) Safety procedure/guidelines specified by the manufacturer should be followed.
 - (ii) Ventilate the area to be painted, opening all doors and windows etc.
 - (iii) The labour should wear a respirator if the area being painted cannot be adequately ventilated.
 - (iv) When sanding, the labour should wear a dust mask and safety goggles.
 - (v) Labour should wear safety goggles, gloves, and a respirator if any solutions containing harmful chemicals are being used.
 - (vi) While working in a workshop etc. under heavy meachinery or overhead gears, a protective helmet is to be used by the labour.

This is issued with the approval of PCE.


(K.G. Agarwal)

Chief General Engineer

No: W4/Colony Maintenance & Service Building/General/1050 Date: 07.02.2019

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1. Secy. to GM for kind information of GM.
2. PHODs/CHODs for information and n.a. please.
3. CAO/Con/BBS, FA&CAO/BBS, for information and n.a. please.
4. RVNL & other PSU's for information and n.a. please.
5. DRM/KUR, DRM/SBP & DRM/WAT for information and n.a. please.
6. Sr. DEN/Co-ord/KUR, SBP & WAT for information and n.a. please.
7. EDCE/G, Railway Board for information please.