



दक्षिण मध्य रेलवे
SOUTH CENTRAL RAILWAY
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दिनांक /Date: 24.11.2022

CVO/Engg/SC

Sub: Suggested Modifications for Specifications for pitching – Reg.

Ref: CVO/Engg letter No. G.265/V/E/System Improvement dated 17.08.2022

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With reference to the suggestions made by CVO/Engg/SC vide letter under reference cited above, regarding modifications of specifications of stone pitching work, necessary modifications have been made in Indian Railways Unified Standard Specifications (Formation works, Bridge works and P.Way works) – 2021 (IRUSS – 2021) under Para No. 5.8.2 issued by Railway Board. Extract of the page containing the above modified Para is enclosed for ready reference.

This is for your information.

Encl: As above.

Digitally Signed by Alla
Achuta Rao
Date: 24-11-2022 15:27:13
Reason: Approved/
Chief Engineer / Works

slope and apron at intervals of 30m to ensure regular straight work and a uniform slope throughout.

5.8 APRON AND CRATING

5.8.1 Apron Pitching

a) Apron pitching stone should only be flung in as it will lie and should be roughly leveled off to the correct section. There is no advantage in hand packing the apron pitching and this should never be done. Size of stone used shall vary between 35 kg and 60 kg and the proportion of different sizes shall be decided by the Engineer, unless otherwise specified in Drawings and Contract Documents.

b) The stones shall not be dressed except knocking of weak edges and corners with a mason's hammer. The face stones must be bigger size stones selected from the lot.

c) For pitching carried out under water the stone shall be thrown carefully so that it may spread as uniformly as possible. For this reason, man with poles or sounding leads must be engaged to take frequent soundings to guide the work people where to throw the stone. The cost of bamboo and plank pathway shall be borne by the Contractor and if floating bridges are necessary, their erection and maintenance shall also be borne by the Contractor.

Pitching under water should where possible shall be carried out when the water level is at its seasonal lowest.

5.8.2 Measurements for payment:

Volume of pitching, involving supply of stones, laying and filling of voids with spalls etc., shall be measured in Cubic metres without any deduction for voids.

In case of supply of pitching stones, deductions shall be made @ 15% from the volume of stacks for voids/ shrinkage. Guidelines as applicable for stacking Ballast on ground shall be followed for stacking of pitching stone.

5.8.3 Sausage and Crated stones

Galvanized iron wire: GI wire used for crating and sausages shall be of mild steel quality conforming to IS:280. The wire shall be sound, free from splits, surface flaws, rough jagged and imperfect edges and other harmful surface defects. The minimum tensile strength shall be 32 to 44 kg/mm² and the galvanised coating shall conform to the test given under clause 10 of IS:280.

Stones: Shingle boulder weighing 35 kg. to 60 kg (size between 20 and 40 Cm) as specified in contract or by the Engineer shall be used in filling the sausage crates with stones of smaller size to fill up the gaps in between. For pitching also size of stones used shall be of similar size.

Crating

i) Sausage – Standard practice for netting wire sausage is with 4mm dia, (8 SWG) galvanized wire mesh of 15 cm or 10 cm, double locked and non-slipping type.