



Waterproofing of RCC shell roofs of Overhaul

Region	Odisha, India
Type	Roof Waterproofing
Client	Hindustan Aeronautics Limited
Main Contractor	Hindustan Aeronautics Limited.
Execution of the work	Renesco India Private Limited
Construction Period	2017-18

Project Description

Sunabeda is an industrial city in the state of Odisha, India, located in the valleys of the Koraput region. The Engine division and Sukhoi division of the aircraft manufacturing company Hindustan Aeronautics Limited (HAL), a public sector undertaking (PSU) of Ministry of Defence is in Sunabeda.

The project involves Water proofing treatment with APP membrane to the RCC shell roofs of Overhaul, Assembly shop and flat roofs of various shops inside factory

Scope of Work

- PCC in roof, kurbs or mud stop, rounded or chamfered on edges over RCC roof
- 20.0mm thick screed bed or bedding layer with (1:4) CM and integral water proofing compound (Liquid) @ 0.2% of weight of cement
- APP (Atactic Polypropylene Polymer) modified prefabricated five layered 3mm thick water proofing membrane,black finished reinforced with non - woven polyester matt.
- 1st coat of bitumen primer applied @ 0.40Ltr. /Smt of the surface area.
- Burnt clay brick works in CM(1:4) the compressive strength should not be less than 35 kg/cm²
- R.C.C (1:1.5:3) Nominal mix, in fins, fascia,parapet etc and for the similar work using 12.50 mm hard granite graded stone aggregates i
- TOR / MS steel reinforcement (TMT Bars) confirming to IS of 10mm dia and over for RCC works
- treatment to the expansion joint both horizontal and vertical surface over RCC roof and brick wall to a width of expansion gap of about 25mm to 50mm
- 12 mm thick pre - formed filler for expansion joints (bitumen impregnated Shalitek board or equivalent material)
- 25 mm thick pre - formed filler for expansion joints (bitumen impregnated Shalitek board or equivalent material)
- filling the expansion joint with grade A joint sealing compound of polysulphide or polyurethane joint sealant
- Two coats of cement painting over a coat of Alkali resistant priming paint

