

ABSTRACT OF DNIT FOR - RENOVATION & RESTORATION OF SBI ADMINISTRATIVE OFFICE, SHIMLA. FIRE FIGHTING SYSTEM

FIRE FIGHTING -ESCAPE SYSTEM - FIRE DOORS & SIGNAGES [FLOOR +2, 0]

Sr. No.	Code No.	Description of Item	Qty. Floor [+2]	Qty. Floor [0]	Total Qty. [+2],[0]	Unit	Rate	Amount
1	NS FE-1	INSULATED FIRE DOORS SITC of minimum 46 mm thick insulated fire rated GI Sheet doors conforming to FD 120-PI classification of IS 3614 :2021 with fire rating of 120 minutes integrity and 30 minutes insulation. The factory manufactured door frame and shutter assembly shall be made out of minimum 1.20 mm thick GI Sheet with minimum 120 GSM coating as per IS: 277. Door and frame should be finished with powder coating in standard RAL shade finish having DFT of minimum 50 microns. The door should carry a minimum 500 Hrs of salt spray test. All accessories like hardware, vision panel, fire & smoke seal, silicon sealant & Wool Insulation etc to be supplied by Fire door manufacturer only as per the guidelines laid down in IS 3614:2021. Every door must carry a label confirming to type of door & its fire rating. The door must carry a 5 years valid test evidence from CBRI-Roorkee / NABL accredited lab which operates in accordance with ISO/IEC 17025.						
		Door frame: Frame shall be single / double rebate grooved profile of size minimum 150mm x 57mm made out of 1.60mm (16gauge) minimum thick galvanized steel sheet. Frames shall be butt / mitered joint and field assembled with bolting system. Frames to have inbuilt grooved to accommodate and provided with Intumescent fire seal strip of size 10x4mm. The frame should also be provided with EPDM seal to limit the spread of smoke vide clause no. 7.2.6 of IS code. All provisions should be mortised & provided with necessary inbuilt reinforcement to receive appropriate hardware. Frames should be provided with back plate bracket for anchor fastener with 10 mm dia and minimum 100 mm long HDG fasteners, with Polyamide sleeves for installation of frame in finished plastered masonry wall opening. The gap between wall & Door Frame is filled by using Silicone sealant and Wool Insulation on both Side of the door.						
		Door Shutter : Door leaf should be minimum 46mm thick fully flush double skin door. Door leaf must be manufactured from minimum 1.2mm(18gauge) thick galvanised steel sheet. The infill material shall be mineral wool of minimum density 100 kg/cum. All doors shall be factory prepped for receiving appropriate hardware and provided with necessary reinforcement for hinges, locks, and door closers. The edges should be interlocked with a bending radius of 1.4mm. For double leaf doors integrated astragals has to be provided on the meeting stile for both active and inactive leaf. The shutters shall be mounted to the frame with SS 304 grade ball bearing type hinges of minimum size 100x 75x3 mm alongwith all suitable hardware mentioned below. Vision panel size 200x300 mm or 150 x 400mm(max area 0.06sqm) wherever applicable should be provided with single layered clear fire rated glass panes as per guidelines laid down under IS 3614 : 2021 vide clause no. 7.2.7 table no. 2 with a clipon arrangement. The glass will be provided with fire rated ceramic tape of min. 2 mm thickness with min. 15mm width all around on either face. Every Glass pane must carry a permanent marking of its glass manufacturer . The glass for vision panel should be minimum						
	1.1	Size of Door - 1200mm x 2400mm (Single leaf Shutter) Hardware and Accessories: SS Ball Bearing Hinges - 5 Nos, Anchor Fastner M10x80mm - 10 Nos, 6mm fire rated Vision glass of size: 200 x 300mm - 1 Nos.	2	0	2	Each		
	1.2	Size of Door - 1800mm x 2400mm (Double Leaf Shutter) Hardware and Accessories: SS Ball Bearing Hinges - 10 Nos, Anchor Fastner M10x80mm - 11 Nos, 6mm fire rated Vision glass of size: 200 x 300mm - 2 Nos.	0	2	2	Each		

2	NS FE-2	Supplying and fixing of 120 minutes fire rated CBRI tested as per IS:3614:2021 stainless steel 304 grade Door Closers all complete in all respects.	2	4	6	Each		
3	NS FE-3	Supplying and fixing of 120 minutes fire rated CBRI tested as per IS:3614:2021 stainless steel 304 grade D-Type Pull handle B2B of size 450mm long, 25mm dia and Mortise Dead Lock with 70mm long Euro profile Cylinder with both side key operation all complete in all respects.	2	4	6	Set		
4	NS FE-4	Supplying and fixing of 120 minutes fire rated CBRI tested as per IS:3614:2021 stainless steel 304 grade outside access device (Trim and Lock) all complete in all respects.	2	2	4	Each		
5	NS FE-5	Supplying and fixing of 120 minutes fire rated CBRI tested as per IS:3614:2021 stainless steel 304 grade push type panic bars on single leaf door shutters all complete in all respects.	2	0	2	Each		
6	NS FE-6	Supplying and fixing of 120 minutes fire rated CBRI tested as per IS:3614:2021 stainless steel 304 grade push type panic bars for double leaf door shutters all complete in all respects.	0	2	2	Each		
7	NS FE-7	Supply and fixing of Auto Glow Single Side LED EXIT Signages of size 12" x 6". Battery Backup for auto glow is minimum 4 hours. The signage to be hanged from the ceiling with the help of chain & hooks etc. complete in all respects.	4	4	8	Each		
8	NS FE-8	Supply and fixing of Auto Glow Double Side LED EXIT Signages of size 12" x 6". Battery Backup for auto glow is minimum 4 hours. The signage to be hanged from the ceiling with the help of chain & hooks etc. complete in all respects.	4	4	8	Each		
							TOTAL AMOUNT	