



# TECHNICAL SPECIFICATION FOR SUSPENDED CEILING

SPECIFICATION NO. PE-TS-999-600-C013

VOLUME - II B

SECTION - D | SUB-SECTION – C13

REV.NO. 00

SHEET 1 OF 4

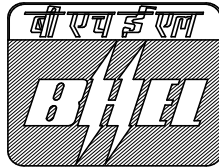
## VOLUME – II B CIVIL, STRUCTURAL & ARCHITECTURAL WORKS

SPECIFICATION NO. PE-TS-999-600-C013

### SECTION - D

### *GENERAL TECHNICAL SPECIFICATION*

### SUSPENDED CEILING



**Bharat Heavy Electricals Limited**  
Project Engineering Management  
PPEI Building, Power Sector,  
Plot No. 25, Sector 16A,  
Noida (U.P.)-201301



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### TECHNICAL SPECIFICATION FOR SUSPENDED CEILING

#### 1.0.0 SCOPE

This specification covers the furnishing of all materials, labour, tools, equipment, supervision and services necessary for incidental to the supply, installation, finishing and completion of suspended ceiling work of various profiles and at all elevations as per drawing, specification and instruction of Architect/Owner. The work shall also include providing openings in the ceiling for lighting fixtures, air conditioning diffusers etc. as shown in drawing and instruction of Architect/Engineer.


#### 2.0.0 MATERIAL

##### 2.1.0 Aluminium Grid suspension system

- a) Suspenders : shall be fabricated from 10 dia. M.S. rod angle, flat or as required to suit ceiling profile and suspension system with turnbuckle for adjustment of levels. All M.S. works shall have one coat of synthetic enamel paint over a coat of red lead primer.
- b) Frame work/grid : shall be of aluminium sections as follows :
  - Wall angle - 25 x 25 x 1.6 mm. thick.
  - Main Tee - 35 x 25 x 1.6 mm. thick
  - Cross Tee - 25 x 25 x 1.6 mm. thick
  - Tees shall be jointed with adequate cleats etc.

##### 2.2.0 Ceiling Panel

Ceiling Panels shall be best quality both side laminated rigid phenolic foam insulation board similar to "PHENOTHERM" as manufactured by 'Bakelite Hylam'. The thickness, size and finish shall be as per drawing.

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3.0.0

**INSTALLATION**

3.1.0

The ceiling grid shall be suspended from structural walls slabs, beams truss structural steel etc. with suspender fabricated from M.S.rod/ angles/flasts etc. to the required level. The entire suspension system shall be of sufficient strength and rigidity to allow placing of planks over the grid for movement of maintenance personnel to attend various electrical and air conditioning installation over the ceiling and to carry ceiling panels in true level and plane without exceeding a deflecting of 1/360th of their span. All ceiling panels shall be secured in position using hold down clips of sufficient number. All joints in ceiling panels shall run straight.

The installation of ceiling system shall be strictly as per drawing.

4.0.0

**SHOP DRAWINGS**

4.1.0

Contractor shall prepare complete working details layout based on the conceptual layout and design of suspended ceiling and illumination and air conditioning layout shown on the drawings and obtain approval from the Architect/Owner before installation.

5.0.0

**WORKMANSHIP**

5.1.0

Shall be done in the best workmanlike manner by the manufacturer authorised agency in accordance with manufacturer standards and recommendations.

6.0.0

**SAMPLES**

6.1.0

3 (three) mock-up samples of reasonable size showing standard grid with panels and suspender etc. having desired finish, colour etc. shall be submitted to the Architect/Owner for approval before materials are Delivered at site. Installed material shall match approved samples.

7.0.0

**ACCEPTANCE CRITERIA**

Finished ceiling shall be at the correct plane and present a pleasing and uniform appearance, free from sags, warps, figures or damaged boards. Joints, exposed grids etc. shall be in true lines and symmetrically placed in manner shown on drawings. Cutouts for light fixtures, diffusers etc. shall be of exact dimensions and in exact locations.

8.0.0

**I.S. CODES**

IS:2441 : Code of Practice for fixing ceiling coverings.