

BHARAT HEAVY ELECTRICALS LIMITED
Ramachnadrapuram :: Hyderabad
CMM-Stores Department


Specification for bunker houses for use in Pipe & Plate yard outside factory (6 metre).

I Construction:

1. The size is 6 x 2.5 x 2.5 M
2. The bunker should be carved out of standard container.
3. Roof and side walls are to be insulated with 50mm thick mineral wool.
4. All Windows shall be of 80 x 58.5 cm with stainless steel fine mesh mosquito net with suitable frame work from outside, with sliding shatter proof safety glass of 5-6mm thick.
5. Windows shall have foldable weather shade/flap with bolting and locking from inside.
6. Door shall be provided with steps and sufficiently wide.
7. The container is to be so provided that it is 45 cm above the ground level.
8. Bottom supports are to be made suitable enough to keep it above ground by 45 cm; IS MC 100 thick 5mm hot rolled section are to be used and suitable I sections may also be used.
9. Inside walls shall be aesthetically finished with 8mm decorative plywood with suitable decorative lamination. The roof panel should be of 4mm thick plywood with suitable teak decorative lamination.
10. Flooring shall be of 2mm steel sheet welded to the bottom of the container to get leveled surface. It should be fixed with 18mm quality plywood and finished with 2mm vinyl flooring; the floor shall be seam less.

II Electrical Connections:

1. PVC Insulated multi stranded copper wire to be used.
2. Wiring to be used in PVC Conduits.
3. Continuous copper wire of 14 SWG shall be given as earth wire.
4. For lighting, 3/1.09 and for heavy duty 7/1.22 cables to be used.
5. DOL switches 250V/15A shall be used for air conditioner.
6. Input power supply to bunk house is by 3 Pin input industry socket of 30A Capacity.
7. One ELCB shall be provided.
8. Three wall mounted swinging fans with ON/OFF switch and regulator to be provided; fan should have of sweep of 40 cm.
9. Three numbers of 40 W twin tube lights fitting shall be provided.
10. Six 15A, six 5A capacity plug points are to be provided.
11. Three points for light should also be provided.

N. Mallik 
18/11/16

Specification for bunker houses for use in Pipe & Plate yard outside factory (6 metre)(Contd).

III Furniture:

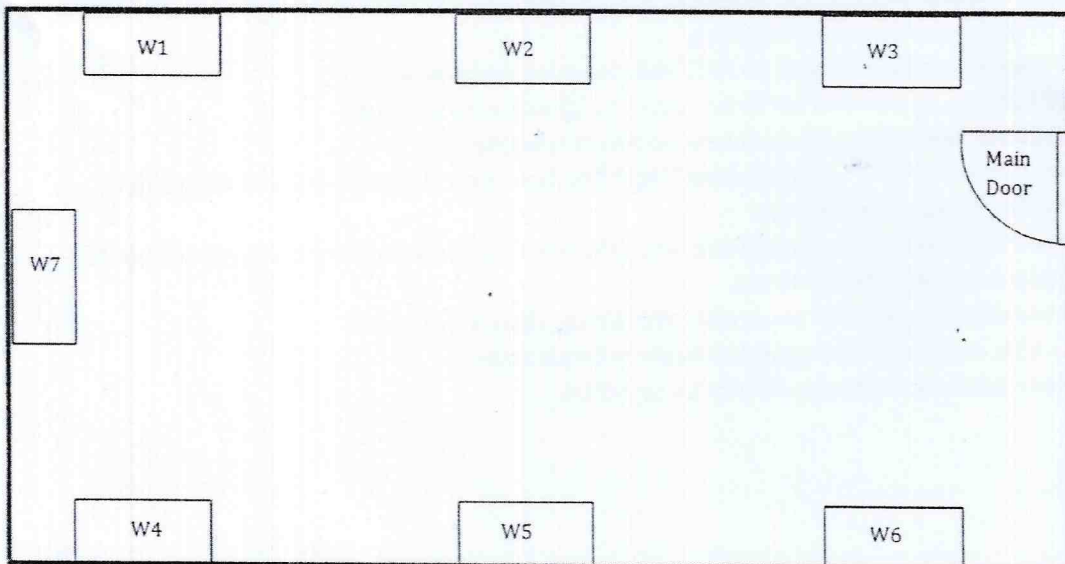
- a. Three tables of size 1500 x 800mm of standard make like Godrej to be supplied.
- b. Three chairs of revolving type with medium low back rest shall be given.
- c. Three small vertical storage unit of 900 x 450 x 750mm of steel make shall be provided.

IV Others:

All steel components are to be chemically treated & given zinc phosphate coating of class C, Epoxy Primer (35 micron).

- a. External surface should have a minimum of two coats of weather proof epoxy paints (40 μ on each coat).
- b. Bituminous under coat shall be given to under frame and skid.
- c. External color of paint should be grey.
- d. BHEL Emblem of 15cm disc size shall be made.

Skeleton view of bunker:



Note: W-Windows

N. H. *[Signature]*
18/1/16

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
Specification for bunker houses for use in Pipe & Plate yard outside factory.(9metre)

I Construction:

1. The size is 9 x 2.5 x 2.5 M
2. The bunker should be carved out of standard container.
3. Roof and side walls are to be insulated with 50mm thick mineral wool.
4. All Windows shall be of 80 x 58.5 cm with stainless steel fine mesh mosquito net with suitable frame work from outside, with sliding shatter proof safety glass of 5-6mm thick.
5. Windows shall have foldable weather shade/flap with bolting and locking from inside.
6. Door shall be provided with steps and sufficiently wide.
7. The container is to be so provided that it is 45 cm above the ground level.
8. Bottom supports are to be made suitable enough to keep it above ground by 45 cm; IS MC 100 thick 5mm hot rolled section are to used and suitable I sections may also be used.
9. Inside walls shall be aesthetically finished with 8mm decorative plywood with suitable decorative lamination. The roof panel should be of 4mm thick plywood with suitable teak decorative lamination.
10. Flooring shall be of 2mm steel sheet welded to the bottom of the container to get leveled surface. It should be fixed with 18mm quality plywood and finished with 2mm vinyl flooring; the floor shall be seam less.

II Electrical Connections:

1. PVC Insulated multi stranded copper wire to be used.
2. Wiring to be used in PVC Conduits.
3. Continuous copper wire of 14 SWG shall be given as earth wire.
4. For lighting, 3/1.09 and for heavy duty 7/1.22 cables to be used.
5. DOL switches 250V/15A shall be used for air conditioner.
6. Input power supply to bunk house is by 3 Pin input industry socket of 30A Capacity.
7. One ELCB shall be provided.
8. Four wall mounted swinging fans with ON/OFF switch and regulator to be provided; fan should have of sweep of 40 cm.
9. Four numbers of 40 W twin tube lights fitting shall be provided.
10. Eight 15A, eight 5A capacity plug points are to be provided.
11. Four point for light should also be provided.

N. H.  18/1/16

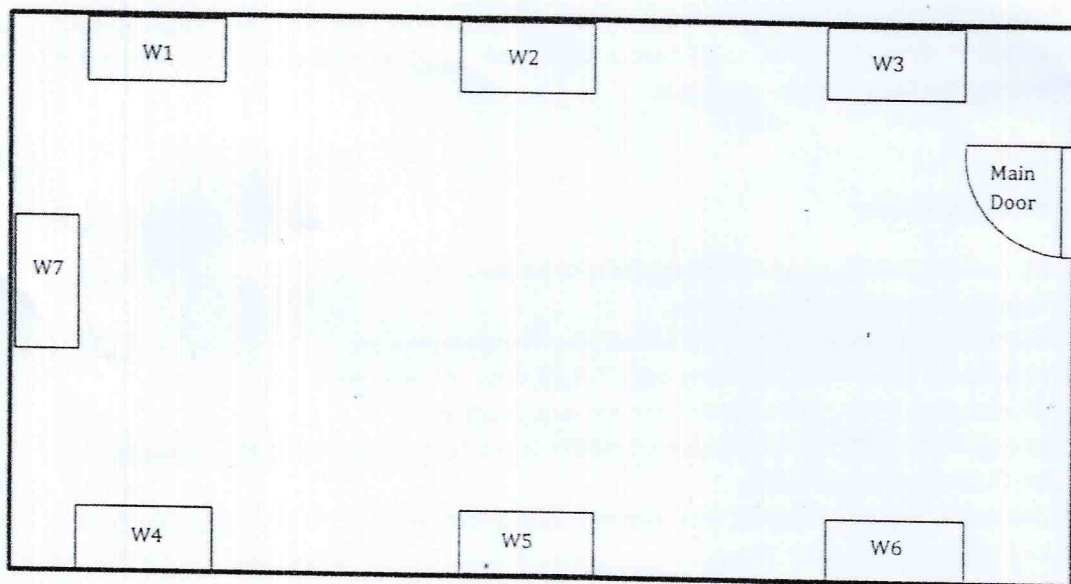
Specification for bunker houses for use in Pipe & Plate yard outside factory
(9metre)(Contd)

III Others:

All steel components are to be chemically treated & given zinc phosphate coating of class C, Epoxy Primer (35 micron).

- a. External surface should have a minimum of two coats of weather proof epoxy paints (40 μ on each coat).
- b. Bituminous under coat shall be given to under frame and skid.
- c. External color of paint should be grey.
- d. BHEL Emblem of 15cm disc size shall be made.

Skeleton view of bunker:



Note: W-Windows

N. Mehta
15/11/16