1. Contractor to check and verify all dimensions before execution of the work.
2. Figured dimensions shall be followed.
3. All dimensions are given in centimetres unless otherwise shown.
4. Woodwork shall be treated with two coats of oil paint grey over a coat of primer unless otherwise specified.
5. Iron members shall be treated with two coats of oil paint black over a coat of primer.

Details of Racks Rifle, Sten Guns, Plans & Sections

E-In-C's Branch
Army Headquarters

Date 9-8-85  Drg no STD 16512  Scale 1:10

Architect  Senior Architect
Chief Architect  Engineer in Chief
SCHEDULE OF RCG BEAMS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Rebar Size</th>
<th>Reinforcement</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>D</td>
<td>Bottom</td>
<td>Top</td>
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<tr>
<td>1</td>
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<tr>
<td>2</td>
<td>A6</td>
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</table>

SCHEDULE OF ISOLATED FOOTINGS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Footing</th>
<th>Location</th>
<th>Reinforcement</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<tr>
<td>2</td>
<td>B</td>
<td></td>
<td>A4</td>
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</tr>
</tbody>
</table>

TYPICAL SECTION OF ISOLATED FOOTING

TYPICAL PLAN OF ISOLATED FOOTING

GENERAL NOTES
1. All structural sections shall be fabricated in accordance with the fabricator's instruction and the fabricator shall ensure that all structural sections are in compliance with the drawings.
2. All structural sections shall be fabricated with proper gauges and mechanical connections as specified in the drawings.
3. All structural sections shall be thoroughly checked to ensure conformity with the drawings and specifications.
4. All structural sections shall be properly marked and identified for easy identification.
5. All structural sections shall be properly stored and protected against damage.

REVISIONS

OPEN SHED (15 SQM)

LAYOUT OF PLINTH BEAM FOOTING & TRUS

DATE: [Date]

CHIEF ENGINEER
(NAVAL WORKS)
Kochi

[Signature]
NOTES
1. CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF WORK.
2. FORCED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS.
4. UNLESS OTHERWISE SPECIFIED.
5. MAX. GROUND WATER TABLE TO BE SUFFICIENTLY BELOW BOTTOM OF TANK.
6. THIS PLAN IS BASED ON H.I.M.C.S DRA No DB-1035/1 EKTE No. 1/8 DTE 2-07-70.
2.28 CONSTRUCTION.

TYPICAL CROSS SECTION
SCALE: 1:20

PLAN OF RCC POST
SCALE: 1:150

DETAIL OF RCC POST
SCALE: 1:150

TYPICAL PLAN
SCALE: 1:200

SIZES OF VARIOUS CAPACITY OF STATIC TANK

<table>
<thead>
<tr>
<th>GL No</th>
<th>CAPACITY IN LITRES</th>
<th>DIAMETRE (mm)</th>
<th>WALL THICKNESS (mm)</th>
<th>DEPTH (mm)</th>
<th>R (mm)</th>
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<tbody>
<tr>
<td>1</td>
<td>45000</td>
<td>5030</td>
<td>250/150</td>
<td>2350</td>
<td>750</td>
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<td>6100</td>
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<td>3</td>
<td>91000</td>
<td>7010</td>
<td>350/245</td>
<td>2360</td>
<td>800</td>
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<tr>
<td>4</td>
<td>113500</td>
<td>7770</td>
<td>350/245</td>
<td>2360</td>
<td>800</td>
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<tr>
<td>5</td>
<td>227000</td>
<td>10970</td>
<td>350/245</td>
<td>2360</td>
<td>800</td>
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TYPICAL GUIDE PLAN OF STATIC TANK FOR 45000 TO 227000LDRS FOR FIREFIGHTING SERVICE (BRICK CONSTRUCTION)

PLAN AND SECTION

DATE: 12/1/82

CHIEF ENGINEER

SHEETING

CO-ENGINEER

ARCHITECT

EFFECTIVE

REFERENCE TD/83/1

ARCHITECT
NOTES
1. Contractor to check and verify all dimensions before execution of the work.
2. Figured dimensions shall be followed.
3. All dimensions are given in millimetres.

DETAILED OF DRAINS AND RCC COVER SLAB
DATE: 15-10-99
DRN: KARUNA
TCO: KOCHI
SHT NO: 1/1
REF: DRG. NO. TD/99/52

CHIEF ENGINEER
NAVY

SHERMAN
SENIOR ARCHITECT FOR CHIEF ENGINEER

CHECKING OFFICER
NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MM UNLESS OTHERWISE SPECIFIED.
6. COVER TO REINFORCEMENT SHALL BE OF 30 MM.

ELEVATION scale 1:50

SECTION A-A scale 1:20

PLAN scale 1:50

REVISION

TYPICAL DETAIL OF RCC RING FOR OPEN WELL

DATE: 12-10-21
IN PLAN 2000 DIA. ADDED

CHIEF ENGINEER:

DRAFTER:

KOCHE:

DRG. NO.: TD/2004/1

DIRECTOR (D):

FOR CHIEF ENGINEER:

A A D (D)
<table>
<thead>
<tr>
<th>S.No</th>
<th>SECTION No</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tr>
<td>1</td>
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<td>63-50</td>
<td>38-10</td>
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<td>4605</td>
<td>63-50</td>
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<td>4604</td>
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<tr>
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<td>10-16</td>
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<td>95-25</td>
<td>25-40</td>
<td>2.00</td>
<td>-</td>
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</table>

**NOTES**

1. **CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.**
2. **ALL DIMENSIONS ARE GIVEN IN MM.**
3. **FIGURED DIMENSIONS SHALL BE FOLLOWED.**
4. **ALL FITTINGS AND FIXTURES SHALL BE AS PER MANUFACTURER'S SPECIFICATIONS. DETAILS WHICH IS APPROVED BY ENGINEER-IN-CHARGE.**
5. **FOR SWING DOOR (SD4) DOUBLE ACTION SPRING HINGE SHALL BE PROVIDED.**

---

**TYPICAL DETAILS OF ALUMINIUM PARTITION WITH DOOR (FL1/SD4)**

- **DATE:** 07-06-54
- **CHIEF ENGINEER (NAVAL WORKS):** KOCHI
- **SCALE:** H.T.S.
- **REF. DRG No.:** TD 0034/05

**NOTES:**

- **This drawing based on TINDAL ALU FABRICATORS' DRAWING.**

---

**PLAN**

DETAIL OF ALU. PARTITION WITH DOOR.
### Schedule of All Sections

<table>
<thead>
<tr>
<th>Section Code/No.</th>
<th>Outside Dimensions</th>
<th>Inside Dimensions</th>
<th>Units</th>
<th>kg/m</th>
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<tbody>
<tr>
<td>S203</td>
<td>44.0 x 42.0</td>
<td>44.0 x 42.0</td>
<td>1.40</td>
<td>0.622</td>
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<tr>
<td>S203</td>
<td>43.0 x 42.0</td>
<td>43.0 x 42.0</td>
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<tr>
<td>S203</td>
<td>52.0 x 52.0</td>
<td>52.0 x 52.0</td>
<td>1.40</td>
<td>0.622</td>
</tr>
<tr>
<td>6.328</td>
<td>51.0 x 51.0</td>
<td>51.0 x 51.0</td>
<td>1.22</td>
<td>0.876</td>
</tr>
<tr>
<td>6.328</td>
<td>31.0 x 31.0</td>
<td>31.0 x 31.0</td>
<td>1.22</td>
<td>0.876</td>
</tr>
<tr>
<td>5.656</td>
<td>31.0 x 31.0</td>
<td>31.0 x 31.0</td>
<td>1.22</td>
<td>0.876</td>
</tr>
<tr>
<td>5.656</td>
<td>42.0 x 42.0</td>
<td>42.0 x 42.0</td>
<td>1.22</td>
<td>0.876</td>
</tr>
<tr>
<td>4.018</td>
<td>34.0 x 34.0</td>
<td>34.0 x 34.0</td>
<td>1.22</td>
<td>0.876</td>
</tr>
<tr>
<td>4.018</td>
<td>34.0 x 34.0</td>
<td>34.0 x 34.0</td>
<td>1.22</td>
<td>0.876</td>
</tr>
<tr>
<td>4.018</td>
<td>34.0 x 34.0</td>
<td>34.0 x 34.0</td>
<td>1.22</td>
<td>0.876</td>
</tr>
<tr>
<td>4.018</td>
<td>34.0 x 34.0</td>
<td>34.0 x 34.0</td>
<td>1.22</td>
<td>0.876</td>
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<tr>
<td>4.018</td>
<td>34.0 x 34.0</td>
<td>34.0 x 34.0</td>
<td>1.22</td>
<td>0.876</td>
</tr>
</tbody>
</table>

### Notes

1. CONTRACTORS TO DECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. DIMENSIONS ARE GIVEN IN MM.
3. ALL DIMENSIONS SHALL BE FOLLOWED UNLESS OTHERWISE SPECIFIED.
4. ALL THE WRITING SECTIONS SHOWN IN THE DRAWING ARE ALUMINUM.
5. ALL SECTIONS SHALL BE PROVIDED WHEREVER IT SEEMS NECESSARY.
6. ALL SECTIONS SHALL BE SATISFIED BY THE ENDS IN CHARGE.
7. ALL DEVICES SHALL BE OF NO. 12 AND WIRE TO AN ALUMINUM ROPE OR EQUIVALENT.
8. ALL ALUMINUM SHALL BE PROVED WHEREVER APPLICABLE AND IT SHALL BE OF NO. 12 WIRE OR NOT LESS THAN 0.34 KN/M.

---

**Typical Details of Aluminum Windows/Units**

**Sectional Details**

<table>
<thead>
<tr>
<th>Date</th>
<th>Chief Engineer</th>
<th>Navy</th>
<th>Sheet No</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/3/84</td>
<td>KOCHI</td>
<td>4/8</td>
<td>4/8</td>
</tr>
</tbody>
</table>

---

**Add Note**

Date: 6/3/84

Chief Engineer: KOCHI

Navy: 4/8

Sheet No: 4/8

Add: A001

A01 Director (Arch)

A01 Director (Arch)

A01 Director (Arch)
NOTES
1. CONSTRUCTION IN GOOD W/BIRIT ALL DRAWINGS.
2. EXCUTED ENGINEERS SHALL BE FOLLOWED.
3. ALL COMPLIANCE AND SHEET MUST BE LAMINATED WHERE NEEDED.
4. ALL SHEETS OF THE SPECIFIED THICKNESS OF THE DRAWING SHEET SHALL BE PRINTED WITH NON-MARKING BLACK INK.
5. EXCUTED SHEETS SHALL BE HANDSIGNED IN INK.
6. THE SHEETS SHALL BE UNFOLDED IN FILE ORGANIZATION. THE SHEETS IN THIS DRAWING SHEET MAY BE STAPLED BUT THE THICKNESS OF THE SHEET SHEETS SHALL BE 1/3 LINE.

ALL ACCURATE VIEWS WERE TO BE PASTED WTH THE CARDS OF THE VERTICAL CARDS.

PAINT OVER A SHEET OF PRIMARY

TYPICAL DETAILS OF BLACK BOARD
AND NOTICE/DISPLAY BOARD

ELEVATION

PLAN OF NOTICE/DISPLAY BOARD

DETAILS OF NOTICE/DISPLAY BOARD
### Schedule of Fittings (Per Door)

<table>
<thead>
<tr>
<th>Type of Doors</th>
<th>Steel</th>
<th>Aluminium Anodised</th>
<th>Brass</th>
<th>Material</th>
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<tbody>
<tr>
<td>Butt Hinges 80 Long</td>
<td>4</td>
<td>4</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>D. 110 x 90 x 90</td>
<td>12</td>
<td>2</td>
<td>4</td>
<td>1</td>
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<tr>
<td>D. 8, D.9, D.10</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
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<tr>
<td>D. 8F, D.9F, D.10F</td>
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<td>2</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>D. 8, D.9, D.10</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>D. 8S, D.9S</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>D. 80x60x40</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>1</td>
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</tbody>
</table>

**Notes**
1. A magic eye shall be provided to entourage door of all main gates.
2. Six Nos. Lugs shall be provided to doors (3 Nos. On Each Side).
3. Only for single & double doors for sites in case of store only.

**Location of Shock Absorbers**

**Panelled Doors with Pressed Steel Frame**

**Plan, Elevation, Section, Detail & Schedule of Fitting**

**Scale:** 1:20

**Detail in Case of Pointing**

**Scale:** 1:4
NOTES
1. All joints of steel members are to be welded.
2. All frame & fittings of steel door to be painted with aluminium paint.
3. All dimensions are given in millimetres.

ELEVATION

SD 1200 X 2000
SD-A 1200 X 2100
SD-1A 1000 X 2000
SD-1B 1000 X 2100

PLAN
SCALE 1:75

DETAIL AT (A)

DETAIL AT (B)
SCALE 1:5

SECTION

WALL PLASTER LINTEL
QUEUE 40X40X5
50 X 5 FI LOUVRE
HORIZONTAL 51 30X6
16 GAUGE MS SHEET
16 X 6 H NAIL 100 LONG
50 X 50 X 6 CI CLEAT
50 LONG WITH 16 X 6 HOLE FOR LOCKING WELDED TO FRAME
HORIZONTAL 51 50X6
16 GAUGE MS SHEET

DETAIL AT (C)

20 X 4 CLEAT
50 X 6 FI WITH SPLITTED END
50 X 6 CI 21 40 LONG
SECTION A
(Door Jamb & Shutter)

SECTION B
(Meeting Style)

SECTION C
(Door Shutter Bottom)
(Top Style)

SECTION D

SECTION E
(Top Style)

SECTION F
(Door Jamb & Shutter)

SECTION G
(Fixed Glazing)

SECTION H
(Fixed Glazing Bottom Rail)

SECTION J
(Fixed Glazing)

SECTION K
(Middle Rail)

ALUMINIUM SECTIONS

THICKNESS OF SECTIONS: 3 MM
NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF WORK.
2. ALL DIMENSIONS ARE GIVEN IN MM.
3. FIGURED DIMENSIONS SHALL BE FOLLOWED.
4. ALL FITTINGS OF ALUMINIUM SHALL BE AS PER MANUFACTURER'S INSTRUCTIONS.
5. RUBBER GASKET SHALL BE PROVIDED BETWEEN GLASS AND FRAMES.

DETAILS OF ALUMINUM DOOR
PLAN, ELEVATION, SECTIONS AND OTHER DETAILS.

DATE 14.6.03
CHIEF ENGINEER NAVY KOCHI

SCALE AS SHOWN REF. DRG. NO. 10/4/109

ELEVATION

PLAN OF ALUMINIUM DOOR

1750/1600/2400/2600
SPAN AS PER ARCH DRG.

1/2

ASST. ARCH.
SENIOR ARCHITECT FOR CHIEF ENGINEER

DY. ARCH.
SECTION AT A-A
Scale 1:20

DETAIL AT 1

DETAIL AT 4

DETAIL AT 5

DETAIL AT 2

FIXING DETAIL OF ALUMINIUM PUSH PLATE TO STYLE

5.5 TH. GLASS
ALU FRAME

5.5 TH. GLASS
PUSH PLATE

ALU STD FRAME
ALU BEAD

ALU TOP RAIL

ALU BEAD
RUBBER GASKET

20x20x3.18 TH. ALU (150 LONG SCREW TO STYLE AND PUSH PLATE)

5.5 TH. GLASS

SCH. - 1/2

REFERENCES TO DRG No. TD/109
11. PANELS, RAILS AND STYLES OF THE DOOR SHUTTERS SHALL BE FLAT AND SHALL HAVE SMOOTH AND LEVEL SURFACE.

12. THE FRP DOOR FRAME SHALL BE SEASONED AND TREATED RUBBERWOOD WITH 2mm FRP LAMINATION. THE THICKNESS OF DOOR FRAME SHALL BE INCLUDING 2mm TR. LAMINATION.

NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
4. SEASONED AND TREATED RUBBERWOOD BLOCKS ARE TO BE PROVIDED INSIDE THE SHUTTER AT SUITABLE PLACES TO HOLD FITTINGS SUCH AS BOLTS, NUTS,  FASTENERS, HINGES, GLASS BOLTS ETC. THE SIZES OF WOOD BLOCKS SHALL BE AS PER TANGENT.
5. WOOD BLOCKS FOR NERVES SHALL BE PROVIDED AT THREE LOCATIONS (A) AT THE CENTRE AND OTHER TWO AT 200mm FROM THE TOP AND BOTTOM OF THE SHUTTER.
6. THICKNESS OF FRP LAMINATION FOR HOLLOW RAILS AND STYLES SHALL BE 3mm.
7. THICKNESS OF FRP LAMINATION FOR PANELS SHALL BE 5mm.
8. FOR REINTERCALATION A PLASTIC SHEET OF APPROPRIATE THICKNESS MAY BE INSERTED UP TO THE HOLE AND THEN FIXING WITH FULLY THREADED STEEL SCREWS SHALL BE DONE.
9. HINGES AND OTHER FIXTURES CAN BE FIXED WITH FULLY THREADED STEEL SCREWS USING A NON-METALIC CRETE WITH ADHESIVE SUCH AS PEACOCK ETC. FOR FIXING OF HINGE HOLES 3.5MM OR 8.5MM LENGTH SHALL BE BORED AND 40 TO 50 FULL THREAD PARALLEL SHANK STEEL SCREWS COATED WITH ADHESIVE SHALL BE RECOMMENDED. IN NO CIRCUMSTANCES SCREWS SHALL BE HAMMERED INTO THE BOARD.
10. THE SURFACE OF THE MOLDED SHUTTERS SHALL BE FREE FROM ANY VISUAL DEFECTS SUCH AS SMALL PORES, CRACKS, MARBLING IMPURITIES, DEFECTIVE IMPRESSIONS, AND MILDEAVAGE DEFECTS.

FRP DOOR FOR BATH/WC

SCHEDULE OF FITTINGS

<table>
<thead>
<tr>
<th>SERIAL</th>
<th>TYPE OF FOOTER</th>
<th>BUTT Hinge 100</th>
<th>BURST joint 200</th>
<th>FiOJO Hinge 150</th>
<th>HanOJO hanger 150</th>
<th>ALUMINIUM BOLT 300 Long</th>
<th>REMARKS</th>
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<td>GBA</td>
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<td>6</td>
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</tr>
</tbody>
</table>

**Schedule of Fittings**

- **Glazing**
  - Plan glaze
  - Frosted glass
  - Hook and eye glaze
  - Per operable shutter except with cloth shutter.

**Remarks**

---

**Schedule of Fittings**

- **Walls & Guard Rails**

---

**Notes**

- **For All Notes Referring**
  - Refer Draw No. TDA/12
  - Sheet No. 15
Fixing detail of strengthened guard bars / mosquito proof wide cloth

Scale: 1:5

Legend

Stop hung shutter shown this way

Steel windows (for mid-acc)
ELEVATIONS - STRENGTHENED GUARD BARS

200mm x 8mm H1 FRAMES AROUND
120 x 80 mm BARS WELDED

HEIGHT
WIDTH

HEIGHT
WIDTH

HEIGHT
WIDTH

HEIGHT
WIDTH

HEIGHT
WIDTH

HEIGHT
WIDTH

HEIGHT
WIDTH

HEIGHT
WIDTH

FOR GENERAL NOTES REFER SHEET NO.1/8 OF THE PROJECT
HEIGHT AND WIDTH OF WINDOW GRILL SHALL BE PROVIDED TO SUIT WITH THE WINDOW FRAME

NOTE 3/3
ISOMETRIC VIEW (BRACKET TYPE B)

25x25x6 C-1 BRACKET

CUT THE VERTICAL PORTION MARKED 'A' AND WELD THE SAME AS SHOWN.

ISOMETRIC VIEW (BRACKET TYPE A)

PLAN OF BRACKET TYPE A FOR CURTAIN ROD

SCALE 1:5

DETAIL OF PELMET BOX AND CURTAIN ROD

SCALE 1:5

CHIEF ENGINEER
NAVY
KOCHI

ASSISTANT ARCHITECT

SENIOR ARCHITECT FOR CHIEF ENGINEER
**SECTION**  
DETAIL OF PELMET BOX PB SPECIAL

**SCALE 1:2**

- 25 TH TW PLANK FIXED WITH SCREWS @ 450 mm.
- 6 THICK TV LIPPING
- 12 TH PARTICLE BOARD
- PRELAMINATED BOTH SIDES
- SCREWS @ 200 mm.
- 20 g CHROMIUM PLATED
- MS CONDUIT SCREW
- TV BRACKET 75 X 60 / 20 TH
- FIXED TO TV PLANK WITH SCREWS
- 6 TH TV LIPPING
- 25 TH TW PLANKS FIXED WITH RAWAL PLUGS & SCREWS.

**PLAN OF BRACKETS TYPE A & B**  
FOR CURTAIN ROD

**SCALE 1:10**
NOTES

1. All exposed wood work shall be finished with two coats of French Polish.
2. First class seasoned Indian teak wood or equivalent to be used unless otherwise specified.
3. All joints and fittings shall be done in accordance with standard workmanship and specification.
4. All sizes given for wood work are finished sizes.

**ELEVATION**

- **PLASTER**
- **WOOD FRAME OUT OF 25x40**
- **PCC BLOCK 75x75x100**
- **12 MM THICK SOFT BOARD**
- **PLASTER WHERE OCCURS**

**SECTION AT A.B**

- **SCALE: 1:10**

**PLAN**

- **SCALE: 1:10**

**WALL**
- **SOFT BOARD (CELOTEX)**
- **WOOD FRAME OUT OF 40x25**
- **1220 x 810 SOFT BOARD (CELOTEX)**

**1/2 F.S. DETAIL AT 'N'**

**DISPLAY/NOTICE BOARD**

- **DATE:** 14-02
- **CHIEF ENGINEER:** NAVY KOCHI 1/4
- **ASS. ARCH:**
- **SENIOR ARCHITECT FOR CHIEF ENGINEER:**
NOTES:
1. CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK
2. FIGURED DIMENSIONS SHALL BE FOLLOWED
3. ALL DIMENSIONS ARE IN MM
4. ALL IRON WORK, INSIDE THE HOT CASE, SHALL BE TREATED WITH 2 COATS OF ALUMINUM PAINT
5. PANELS FOR SHUTTERS SHALL BE OF DADO PRELAMINATED ON BOTH SIDES
6. T.V. LIPPING FOR BOOK CASE SHALL BE ON FINISHED WITH FRENCH POLISH
7. W.D. MEMBERS OF BOOK CASE SHALL BE OF 8MM PARTICLE BOARD FACTORY MADE PRELAMINATED (BOTH SIDES) WITH ME LAMINATED IMPREGNATED PAPER THE PARTICLE BOARD SHALL BE EXTERIOR GRADE BWP BONDED WITH ADHESIVE CONFORMING TO 163087 EXPOSED EDGES OF THE BOARDS SHALL BE SEALED WITH 12MM T.V. LIPPING USING MANUFACTURERS APPROVED ADHESIVE THE PARTICLE BOARD SHALL BE OF TEAK VERNEERED FINISH

DETAILS OF HOT CASE AND BOOK CASE

PLANS, ELEVATIONS, SECTIONS AND FIXING DETAILS

DATE 14.6.65
CHIEF ENGINEER
NAVY
KOCHI

PLAN OF HOT CASE AND OPEN SHELVING

SCALE 1:20

ASSI. ARCH.
SENIOR ARCHITECT FOR CHIEF ENGINEER(PS)
**Details of RCC Slab Over Open Shelving and Hot Case**

**Scale 1:10**

---

**Schedule of Fittings**

<table>
<thead>
<tr>
<th>SEK. NO</th>
<th>TYPE</th>
<th>PIANO TYPE</th>
<th>RINGE FOR FULL LENGTH</th>
<th>SAFETY TYPE</th>
<th>BALL SPRING CATCH</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>HOT CASE</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>HOT CASE</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

**Details of Hot Case and Book Case**

---

**Plans, Elevations, Sections and Fixing Details**

**Date:** 14.6.05

**Chief Engineer:** NAVY KOCHE

**Scale:** 1:10

**REF: DRG No 10/126**

---

**Notes:**

- **ôte Panel of Shutter:**
  - 35x19 VDN Frame
  - ALUM-LINING 3D GAUGE
  - 20x19 VDN Horizontal Member

- **Brick Work:**
  - 900x150, 150x150, 150x150

---

**Signatures:**

- **Assist. Arch.:**
- **DY. Arch.:**
- **Senior Arch.:**
- **For Chief Engineer:**
NOTES:

1. CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE SHOWN.
4. ALL SIZES GIVEN FOR WOOD WORK ARE FINISHED SIZES.

TYPICAL DETAILS OF LOFT DOOR

SCHEDULE OF FITTING

1. BUTT HINGES 75 mm LONG STEEL 2 Nos. PER SHUTTER
2. HASP & STAPLE 75 mm LONG 1 No.
3. F1 HOLE FAST 25.0-200 mm LONG 4 Nos. (2 Nos. ON EITHER SIDE)
4. BARREL BOLT 75 mm LONG 2 Nos.
5. BALL SPRING CATCH 2 Nos.
6. ALR. HANDLE 100 LONG 2 Nos.
NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
4. ALL EXPOSED WOOD WORK TO BE FINISHED WITH TWO COATS OF FRENCH POLISH.
5. FIRST CLASS SEASONED INDIAN TEAK WOOD OR ITS EQUIVALENT TO BE USED UNLESS OTHERWISE SPECIFIED.
6. ALL JOINTS AND FITTINGS SHALL BE DONE IN ACCORDANCE WITH THE STANDARD WORKMANSHIP/SPECIFICATIONS.
7. ALL SIZES GIVEN FOR WOOD WORK ARE FINISHED SIZES.

PLAN OF MIRROR (FULL SIZE)
PLAN, ELEVATION, DETAIL AT 'M'
AND SECTION AT 'C-C'

ELEVATION

SECTION AT 'C-C'

SCALE: 1:10

DATE: 4-6-83
CHIEF ENGINEER
NAVY

SCALE: 1:10

ABST ARCHITECT

DRAWN BY

CHECKED BY

DESIGNER

ENGINEER
ELEVATION
DETAIL OF ALUMINIUM HOOKS
SET OF 6
SCALE 1:25

(PEG SET OF 6) 910
(PEG SET OF 3) 460

ELEVATION OF WALL PEGS
SCALE 1:25

SECTION AT 'KK'
SCALE 1:25

SECTION AT 'CC'
SCALE 1:25

NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

DETAILS OF WALL PEGS AND HOOKS
ELEVATIONS, SECTION AT 'CC' AND 'KK'

DATE 14-6-83
CHIEF ENGINEER SINT NO
DRU PR/NAVY
KOGI
CND
CAR
EOD
REF DES NO TD/1936

ARCHITECT JAMIE GIDIO
SENIOR ARCHITECT
NOTES
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSION SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE SHOWN.

DETAIL OF GROUND SINK
DATE: 1/13/03
CHIEF ENGINEER: KOCHI

NOTE: SUNKEN RCC SLAB.

SECTIONAL DETAIL OF GROUND SINK
SCALE 1:10

AT GROUND FLOOR
AT UPPER FLOORS
NOTES
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE STATED.
4. SLOPE OF TROUGH TYPE WHB SHALL BE MAINTAINED TOWARDS OUTLET.
5. SLOPE OF FLOOR SHALL BE KEPT TOWARDS F1.
6. GLAZED TILES SHALL BE PROVIDED IN SOAP NICHE AND ALONG THE WALL AS SHOWN IN DROG.
7. TERRAZO FINISHED DADO SHALL BE PROVIDED ON THREE SIDES BELOW TROUGH TYPE WHB.
8. ARRANGEMENT FOR PLUGGING WITH CHAIN OT WHOLE IN TROUGH TYPE WHB SHALL BE PROVIDED.
WATER PROOFING ARRANGEMENT IN SUNKEN FLOOR IN TOILETS

PLAN

SECTION A-A

SECTION B-B

NOTES

1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.

TYPICAL DETAILS OF WC CONNECTIONS AND WATER PROOFING ARRANGEMENT IN SUNKEN FLOORS

DATE: 14/6/63

CHIEF ENGINEER
(NAVY) KOCHI

REF DRG NO: TD/A/145

ASST ARCHITECT

SENIOR ARCHITECT FOR CHIEF ENGINEER

DY ARCHITECT
ISOMETRIC VIEW

ACPLAIN SHEET/PERFORATED OR SEMI-PERFORATED PARTICLE BOARD/GYPROC BOARD/ACOUSTIC BOARD OVER ALUMINIUM/PRESSED STEEL FRAME AS SPECIFIED.

6 M.S ROD SUSPENDER

25X25 MM L.T. WALL CLEAT

6 M.S ROD SUSPENDER

25X25 MM L.T. CLEAT

ALUMINIUM/STANDARD
PRESSED STEEL MAIN TEE

ALUMINIUM/STANDARD
PRESSED STEEL CROSS TEE

6 M.S ROD SUSPENDER @ 1500 PC

DETAIL OF M.S ROD SUSPENDER & L.T. CLEAT

ALUMINIUM TEE BAR 202
(35MM X 25.5MM X 1.5MM)
MAIN & CROSS TEE BAR/PRESSED STEEL FRAME AS SPECIFIED.

DETAIL OF SNAP GRID CEILING

WALL CLEAT

NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
3. FIGURED DIMENSIONS SHALL BE FOLLOWED.
4. THE STANDARD ALUMINIUM OR PRESSED STEEL SNAP GRID SHALL BE AS PER THE MANUFACTURER’S CATALOGUE CONFIRMING TO 15 AND AS SPECIFIED IN THE TENDER.
5. THE SIZE OF THE “T” SECTION GIVEN IN THE DRAWING & THE GRID ARE APPROXIMATE, SUBJECT TO THE MINOR VARIATION AS PER THE MANUFACTURER’S CATALOGUE.
6. THE CEILING BOARD SHALL BE AS SPECIFIED IN THE TENDER.

TYPICAL DETAIL OF SNAP GRID FALSE CEILING

DATE 14-6-03
DRN. G. V. K.

CHIEF ENGINEER
NAVY KOCI

REF. DGR No. 7/152

ASH ARCHITECT

DY ARCHITECT FOR CHIEF ENGINEER.
MORTAR BAND (1:4) OUT OF 70X40, @ 300 C/C
[SEE NOTE NO. 6]
5% CEMENT PLASTER (1:3) WITH WATER PROOFING COMPOUND (3%) OVER GREEN CONCRETE

PCC BAND 1:2:4
EAVE BAND OUT OF 90X75

MP TILES
CEMENT MORTAR BAND
CEMENT PLASTER

RIDGE TILE
(MANGALORE PATTERN)
MP TILES
CEMENT MORTAR BAND
Cement Plaster

NOTES
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
5. THE SPACING OF CEMENT BAND SHALL BE GIVEN @ 300 mm TO 350 mm DEPENDING UPON THE SIZE OF TILES.

DETAIL AT RIDGE
SCALE 1:10

DETAIL OF PCC BAND AT GABLE END
SCALE 1:10

PLAN SHOWING GAP IN CEMENT MORTAR BAND
LONGITUDINAL SECTION

PLAN

DIMENSIONS ACCORDING TO THE NUMBER OF USERS:

<table>
<thead>
<tr>
<th>No. OF USERS</th>
<th>DIA OF HUME PIPE</th>
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<tbody>
<tr>
<td>10</td>
<td>60</td>
</tr>
<tr>
<td>15</td>
<td>80</td>
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<td>25</td>
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<td>50</td>
<td>120</td>
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<tr>
<td>100</td>
<td>160</td>
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</table>

NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN CENTIMETRES UNLESS OTHERWISE SHOWN.

DETAILS OF THE HUME PIPE SEPTIC TANK FOR 10 TO 50 USERS

DATE 14-6-03
DRAWN GVK.
CHECKED NAVY KOCHI
SIGNED NTS. REF D.O. No. TD/A/157

ASST. ARCHITECT

SENIOR ARCHITECT FOR CHIEF ENGINEER
NOTES

1. CONTRACTOR TO CHECK & VERIFY
   ALL DIMENSIONS BEFORE EXECUTION
   OF THE WORK.

2. FIGURED DIMENSIONS SHALL BE
   FOLLOWED.

3. ALL DIMENSIONS ARE GIVEN IN
   MILLIMETRES UNLESS OTHERWISE
   SPECIFIED.

4. BRICK MAUSOLEUM IN CM 1:6

5. WALLS ARE TO BE PLASTERED
   BOTH SIDES IN CM 1:3

DETAIL OF RCC PRECAST
COVER SLAB FOR SEPTIC TANK

DETAIL OF RCC PRECAST
COVER SLAB FOR CHAMBER

LONGITUDINAL SECTION

PLAN

DETAILS OF SEPTIC TANK
FOR 25 USERS (BK. MASONRY)

PLAN, SECTION & DETAILS

DATE 14/6/93

CHIEF ENGINEER

NAVY

KOCHE

ASST ARCHITECT

SENIOR ARCHITECT

DY ARCHITECT

FOR CHIEF ENGINEER

REFERENCE NO. 70/478

SHT. NO.
# Table Showing Dimensions & Details of RCC Slab for Different Septic Tanks

<table>
<thead>
<tr>
<th>Sl No</th>
<th>No. of Users</th>
<th>DIMENSIONS</th>
<th>Z (in mm)</th>
<th>REINFORCEMENT</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>25</td>
<td>600 1220</td>
<td>750 1250</td>
<td>100</td>
<td>B # 8</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
<td>900 1830</td>
<td>1000 1250</td>
<td>100</td>
<td>D D D</td>
</tr>
<tr>
<td>3</td>
<td>75</td>
<td>900 1830</td>
<td>1000 1250</td>
<td>100</td>
<td>D D D</td>
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<tr>
<td>4</td>
<td>100</td>
<td>900 1830</td>
<td>1000 1250</td>
<td>100</td>
<td>D D D</td>
</tr>
</tbody>
</table>

## Notes
1. Contractor to check & verify all dimensions before execution of the work.
2. Figured dimensions shall be followed unless otherwise stated.
3. All dimensions given are in mm.
4. The height of AC vent pipe with AC cowl to be decided locally according to the location of septic tank.
5. 75 cm wide & 2 cm deep groove in floor & side walls to be provided in combined debris & screen chamber for inserting the screen & layers of water proofing paper over 2 cm plaster shall be provided under the bearing of the RCC slab.
6. These can only be built in ordinary soil other than clay or black cotton soil.
7. Details of septic tanks & filter beds for 25, 50, 75 users shall be same as for 100 users with relevant dimensions shown against each of the table.
8. All brick masonry shall be cement plastered internally.
9. For other details refer SIT No. 1/44.
10. For notes on RCC works refer SIT No. 1/44.
11. All brick masonry shall be cement plastered internally.
12. Moorum filling on external wall will not be necessary in case of Rock.

---

**Septic Tank (Brick Masonry)**

For 25 to 100 users

**Plans, Sections & Table**

**Description**: Date Sign

**Revision**: Date Sign

---

**Plan of Septic Tank for 100 Users (At Water Level)**

**Scale**: 1:150

**Longitudinal Section at A-A**

**Pre-Cast RCC Manhole**

**Combined Debris & Screen Chamber**

**Inlet of Invert Screen**

**Cross Section at CC**

**Scale**: 1:150

**Details**

- AC Slotted Vent Cowl
- RCC Precast Baffle Wall
- Invert of Outlet:
- RCC Slab

**Notes**

- 100% RCC Precast Manhole
- 150 mm RCC Slab
- 120 mm RCC Intels
- 150 mm RCC Cover
- 75 mm RCC Baffle Wall
- 150 mm RCC Screen Chamber
- 200 mm RCC Invert Screen
- 150 mm RCC Floor Smooth finished

---

**Diagram**

- **PCB Benching**
- **Flag Stone Mh Cover**
- **Steps**
- **Moorum Filling**
- **Plugging Level**
- **Baffle**
- **PLUG COVER**
- **PLUG COVER**
- **Inlet of Invert Screen**
- **Datum 0-00 at**
- **Longitudinal Section at A-A**
- **Cover RCC Manhole**
- **Intercepting Chamber**
- **Combined Debris and Screen Chamber**
- **Inlet of Invert Screen**
- **Outlet**
TABLE SHOWING DIMENSIONS FOR DIFFERENT SOAKAGE PIT

<table>
<thead>
<tr>
<th>CAPACITY</th>
<th>DIAMETER 'D'</th>
<th>HEIGHT 'H'</th>
<th>REMARKS</th>
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<td>25 USERS</td>
<td>1.60</td>
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<td></td>
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<td>4.20</td>
<td>4.25</td>
<td></td>
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<td>450</td>
<td>4.35</td>
<td>4.25</td>
<td></td>
</tr>
<tr>
<td>500</td>
<td>4.50</td>
<td>4.60</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>4.50</td>
<td>6.10</td>
<td></td>
</tr>
</tbody>
</table>

NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE IN CENTIMETRES UNLESS OTHERWISE STATED.
4. FILLING MATERIALS SHALL BE OF SIZES 2 1/2", 2", 1 1/2", 1" & 3/4" LAYED AT THE RATIO OF 5:4:3:2:1 LAYED FROM BOTTOM TO TOP FOR THE PORTION 'H'. THE TOP 70CM SHALL BE FILLED WITH 3" MATERIALS.

SECTION

SEPTIC TANK

15 cm Ø SWG INLET PIPE 600 LONG

PLAN
SCALE: 1:50

SOAKAGE PIT
NOTES:

1. CONTRACTOR TO CHECK & VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. ALL DIMENSIONS GIVEN ARE IN CENTIMETRES UNLESS OTHERWISE STATED.
3. ALL EXPOSED SURFACES OF RCC BLOCK/BRICK MASONRY SHALL BE CEMENT PLASTER 10 M.M. THICK.

RAMP (SINGLE & DOUBLE)

FOR B-TYPE VEHICLES

SECTION A-A (DOUBLE RAMP)

SECTION B-B (DOUBLE RAMP)

SECTION AT C-C (SINGLE RAMP)
NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

PCC SAUCER DRAIN
SCALE: 1:10

TYPICAL MASONRY DRAIN
SCALE: 1:20

PCC DRAIN
SCALE: 1:10

PITCHED DRAIN
SCALE: 1:20

TYPICAL PLAN OF RCC COVER SLAB FOR MASONRY DRAIN
SCALE: 1:10

CROSS SECTION OF RCC COVER SLAB
SCALE: 1:10
TYPICAL SECTION OF ROAD (TYPE-A)
 SCALE 1:25

TYPICAL SECTION OF ROAD (TYPE-B)
 SCALE 1:25

DETAIL OF HARDSTAND
 SCALE 1:10

DETAIL OF FOOT PATH
 SCALE 1:10
NOTES

1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
3. FIGURED DIMENSIONS SHALL BE FOLLOWED.
4. ALL ALUMINIUM SECTIONS & FITTINGS FOR VARIOUS WINDOW VENTS ARE AS PER MANUFACTURERS SPECIFICATION.
5. ALL ALU SECTIONS/ ALU FITTINGS/ ALU GRILLS FOR WINDOWS/ VENTILATORS SHALL BE OF JINDAL MAKE ALU PROFILES OR EQUIVALENT.
6. THE ALU SECTIONS SHALL BE ANODISED IN NATURAL MATT FINISH. THE THICKNESS OF ANODIC FILM SHALL BE MINIMUM 15 MICRON.
7. WIREMESH GLASS SHALL BE PROVIDED TO WINDOW VENTS OF TOILET/ BATHROOM.
8. ALL ALU SECTIONS OF WINDOWS SHALL BE AS PER AA-6503 TB CONFORMING TO 63400 WP OF 0.75.
9. READ THIS DRAWING IN CONJUNCTION WITH DRA No. TD/2004/6, SHT No. 26 (FOR ALUMINIUM SECTIONS).

PLAN
SCALE 1:20

ALW 20 / ALW 21
ALW 20 A 2400X1200
ALW 21 A 2600X1200

ALW 22
ALW 22 A 600X1200

PLAN AT Y-Y
SCALE 1:20

ALW 23
ALW 23 A 600X1000

ALUMINIUM WINDOWS
PLAN, ELEVATION

DATE 6-5-2003

CHIEF ENGINEER
NAVAC KOCHI

REF DRG No TD/1740

DIRECTOR (ARCH) FOR CHIEF ENGINEER
1. Contractor to check and verify all dimensions before execution of the work.
2. Figured dimensions shall be followed.
3. All dimensions are given in mm unless otherwise specified.
4. All joints of steel members are to be welded.
5. L.1 frame & fittings of steel door to be painted with aluminium paint.

**Schedule of Shaft Doors**

<table>
<thead>
<tr>
<th>SD</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD 1</td>
<td>1000 x 2100</td>
</tr>
<tr>
<td>SD 2</td>
<td>800 x 2100</td>
</tr>
<tr>
<td>SD 3</td>
<td>700 x 2100</td>
</tr>
<tr>
<td>SD 4</td>
<td>550 x 2100</td>
</tr>
</tbody>
</table>
Light fitting for bed
Side light in bed room
of offfrs & hospital beds

Light fitting for lobby,
corridor, ceiling, porch,
ver & passage of offfrs

Light fitting for stair, porches,
balconies, garages of offfrs

Various light fittings

Sketch No. 7
Sketch No. 8
Sketch No. 9
Sketch No. 10
Sketch No. 11
Sketch No. 12
Sketch No. 13

Notes
1. For notes refer sheet
   No 1/2

Various light fittings
Sketch Nos. 7, 8, 9, 10,
11, 12 & 13

Date: 14-6-53
Chief Engineer
Naval
Kochi

Assistant Architect
For Chief Engineer
LIGHT FITTINGS FOR BED RM. OFFICER'S/JCO'S/ORS

SKETCH No. 1

LIGHT FITTINGS FOR LIVING/BED ROOM OF MD. OFFICERS

SKETCH No. 2

LIGHT FITTING FOR LIVING/ BED RM. OF OFFICERS

SKETCH No. 4

LIGHT FITTING FOR KITCHEN OF OFFICERS

SKETCH No. 3

LIGHT FITTING FOR LOBBY, CORRIDOR OF JCO'S/ORS/ ORT M ACCN.

SKETCH No. 5
### Section At D-D

- 20mm Ø Slot
- Top Cover
- Bolt And Nut

### Section At C-C

- 20mm Ø Slot For Rod
- 25mm Ø Recess 65 Deep In Rcc Slab
- 100mm MS Box 60mm
- Rubber Reel
- Fan Hook Bent To Shape

### Plan

(Fan Hook With MS Box Only)

**Detail Of Fan Hook**

### Minimum Inside Clear Dimensions Of Water Meter Boxes

<table>
<thead>
<tr>
<th>Size</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>600mm</td>
<td>600mm</td>
<td>500mm</td>
</tr>
<tr>
<td>2</td>
<td>900mm</td>
<td>600mm</td>
<td>600mm</td>
</tr>
</tbody>
</table>

### Typical Details Of

Switch Box, Fan Hook, Switch Cupboard And Water Meter Box

**Plan And Sections**

**Date:** 14-5-80
**Chief Engineer:** Smt. 1/2
**Gk:** Kochi
**Scale:** 1/25mm

**Typ. Det. Of Cast-Iron Water Meter Box (Domestic Type)**

**Notes:**

2. After The Reel & Shackle Have Been Kept In Position The Bolt Will Be Slided In To Hole Of The Reel.
3. Size 1 Shall Be Suitable For The Installation Of Water Meters Of Nominal Sizes 15, 20, 25mm And Size 2 For Water Meters Of Nominal Sizes 40 And 50mm.
4. For Other Notes Refer Drawn 1/2.
DETAIL OF CABLE DUCT

DETAILED AT ‘R’

DETAIL OF DUCT THRO’ WALL

DETAILED AT ‘R’

DETAIL OF CABLE DUCT

DETAIL OF DUCT THRO’ WALL

PLAN OF M.S CHEQUERED PLATE COVER

NOTES:

1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. ALL DIMENSIONS ARE GIVEN IN MILLIMETRES.
3. FIGURED DIMENSIONS SHALL BE FOLLOWED.

DETAILS OF CABLE DUCT

DATE 14-6-09

CHIEF ENGINEER NAVY

Kochi

SCH. NO. 1/1

DRAWN

SIGNED

REF. ORM NO. TO/E/404

ASST. ARCHITECT FOR CHIEF ENGINEER.
NOTES:
1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
2. FIGURED DIMENSIONS SHALL BE FOLLOWED.
3. ALL DIMENSIONS ARE IN MM.

DETAIL OF FIXING OF EXHAUST FAN
PLAN, ELEVATION AND SECTION

DATE 14-6-03

CHIEF ENGINEER
NAVY
KOCHI

REF: DRG. NO. TC/E/411

AS BUILT

CHECKING OFFICER
SENIOR ARCHITECT FOR CHIEF ENGINEER
SCHEDULE OF R.C.C. LINTELS

NOTES

1. Dimensions and marks are on top unless otherwise mentioned.
2. All dimensions are in feet and inches unless otherwise stated.
3. Values in the table for bending moments, etc., are for checking purposes only.
4. Values in the table for stresses, etc., are for checking purposes only.
5. Values in the table for weights, etc., are for checking purposes only.
6. Values in the table for dimensions, etc., are for checking purposes only.
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NOTES

1. CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.

2. DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.

3. LENGTHS OF CONCRETE ELONGATION SPANS TO BE DETECTED FROM THE COMBINED SPAN OF THE MEMBERS AND (0.5) X D.

4. IF INSTALLATION IS NOT EXCLUSIVE, LAPPED SPANS SHALL BE PROVIDED ONLY IN GENERAL, WAYS OR IN THE MEMBERS COLUMNS NOT MORE THAN 50% OF THE SPAN OF THE MEMBER AND (0.5) X 40.

5. IN NO CASE, SPACING OF HOOPS PROVIDED OVER THE ENDS OF SPAN SHALL BE MORE THAN 270.

6. IN CASE SPACING OR EXTENT OF CONCRETE ELONGATION SPANS IN THE MAIN STRUCTURAL MEMBERS NOT LESS THAN THE REQUIRED SPANS AS SPECIFIED IN THIS PLAN, THE PROVISIONS GIVEN IN THE TENTATIVE ELONGATION SPANS ONLY SHALL BE APPLICABLE.

7. THE SPECIAL CONCRETE REINFORCEMENT REINFORCED AT THE END OF COLUMNS OR BEAMS SHALL BE PROVIDED THROUGHOUT THE LENGTH OF COLUMNS, UNLESS THE JOINT IS COVERED AS SPECIFIED BELOW.

8. JOINTS WHICH HAVE BEAMS RUNNING TO AND FROM VERTICAL PLANES OF THE AND INTERS (COLUMNS) BEAM WIDTHS/3. LEAST 3% OF THE COMPONENT OR ANY MAINTAINED WITH ANGLES.

9. THE SPECIAL REINFORCEMENT IS REQUIRED AT THE END OF THE JOINT, THE SPACING OF ADDITIONAL HINTS AND DETAILING OF NO FD. SHALL BE FOLLOWED.

10. PROVINCE MADE FOR DUCTILE DETAILING OF REINFORCEMENT, CONCRETE STRUCTURE IN THIS AREA SHALL BE SPECIFIED FOR ALL STATIONS FALLING UNDER DESIGN ZONE.

REINFORCEMENT DETAILING FOR DUCTILE EARTHQUAKE RESISTANT CONSTRUCTION

DATE: 21-12-2020

CHIEF ENGINEER: WMT NP

ARCHITECT: NAOSI

SCALE AS SHOWN: REF: VDG 12TH2002/02

CIVIL ENGINEER: K. CHEN

ISI: 1382 (P.S.S.)

S.C. 68 (P.S.S.)

CHIEF ENGINEER: S.C. 68 (P.S.S.)
TYPICAL DETAIL OF SLAB PROJECTION

TYPICAL DETAIL OF BEAM COLUMN JUNCTION

TYPICAL DETAIL OF SLAB REINFORCEMENT

TYPICAL DETAILS OF A SLAB SPANNING IN TWO DIRECTIONS

TYPICAL DETAILS OF A SLAB SPANNING IN ONE DIRECTION

DEVELOPMENT BASE

EXAMPLE SHEET FOR CHIEF ENGINEER FOR NAVAL WORKS KOCHI

DESCRIPTION

REVISIONS

RCC TYPICAL DETAILS

DATE: 7/SEP-2015

DIN: 11846

TCD: ANYWAY

CHIEF ENGINEER

4/11

Kochi

REF. DRG. NO.: TD / 5 / 2015 / 02

DIRECTOR DESIGN

FOR CHIEF ENGINEER
**Schedule of Finishes**

**Legend**
- **LED Tube Light 150mm**
- **Ceiling Fan**
- **Exhaust Fan**
- **Smoke Detector**
- **LED Security Light**
- **Mirror Light**

**Note:**
1. Contractor to check and verify all dimensions before execution of the work.
2. All dimensions are in millimeters unless otherwise specified.
3. The architectural design of pump house has been reviewed as a typical dimension and the structural design shall be reviewed from the list of respective working drawings.
4. All structural members shall be specified as per concerned structural engineering reference.

**Schedule Details**

<table>
<thead>
<tr>
<th>SCHEDULE OF FINISHES</th>
<th>FLOOR</th>
<th>WALLS</th>
<th>DOORS</th>
<th>CEILING</th>
<th>SURFACE FINISHES</th>
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<td><strong>Height</strong></td>
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<td><strong>Surface Finishes</strong></td>
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**Details of Flat, Chajja 800 Wide**

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<td></td>
</tr>
<tr>
<td>Living</td>
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<td></td>
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</tbody>
</table>

**Floor Plan**

1. PUMP HOUSE 6600X6000
2. EXHAUST FAN
3. SMOKE DETECTOR
4. LED SECURITY LIGHT
5. MIRROR LIGHT

**Rev: 1.2**