TENDER DOCUMENT
TENDER NO.: DLI/C&E/WI-675/512

FOR

Tender for Design, Engineering, manufacturing & testing at work, Supply of 223 Nos. Local Control Stations (LCS) of different types & Associated Works for the project of Augmentation of Fuel & Flux Crushing Facilities (Package-064) at Bhilai Steel Plant, SAIL”

VOLUME – 2C
(TENDER DRAWINGS)

ENGINEERING PROJECTS (INDIA) LIMITED
(A GOVT. OF INDIA ENTERPRISE)
Core-3, Scope Complex, 7, Institutional Area,
Lodhi Road, New Delhi-110003
TEL NO. 011-24361666 FAX NO. 011-24363426
BHILAI STEEL PLANT

AUGMENTATION OF FUEL & FLUX CRUSHING FACILITIES (PKG.- 064)

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<tr>
<td>1</td>
<td>A</td>
<td>CONVEYOR ABOVE 45 KW (DOL DRIVE)</td>
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<td>2</td>
<td>B</td>
<td>CONVEYOR UPTO 45 KW (DOL DRIVE)</td>
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<td>3</td>
<td>C</td>
<td>CONVEYOR UPTO 45 KW (RDOL DRIVE)</td>
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<td>4</td>
<td>D</td>
<td>SHUTTLE DRIVE DG, FG (RDOL)</td>
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<tr>
<td>5</td>
<td>E</td>
<td>RPG, ACTUATORE RDOL</td>
<td>63</td>
</tr>
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<td>6</td>
<td>F</td>
<td>EQUIPMENT UPTO 45 KW (DOL)</td>
<td>58</td>
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<td>7</td>
<td>G</td>
<td>EQUIPMENT UPTO 45 KW VVF DRIVE (RDOL)</td>
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<td>8</td>
<td>H</td>
<td>EQUIPMENT UPTO 45 KW (RDOL) OUT DOOR INSTALLATION</td>
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<td>TYPE</td>
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DATA SHEET

1.00 TYPE OF PRODUCT = LOCAL CONTROL STATION INDOOR DOUBLE DOOR TYPE
2.00 MOUNTING Arrangement = WALL/STRUCTURE MOUNTING
3.00 CABLE ENTRY = TOP & BOTTOM
4.00 DEGREE OF PROTECTION = IP 54 [ENCLOSURE ON Y FOR INDOOR TYPE & IP 55 TO OUTDOOR INSTALLATION]
5.00 FABRICATION [ENCLOSURE] = 2.0mm THK. CRCA SHEET
6.00 TYPE OF DOOR = HINGED TYPE FRONT DOOR OPENING
7.00 TYPE OF CABLE GLAND PLATE = 3.0mm THK. CRCA SHEET
8.00 INTERNAL WIRING = 2.5 mm² SINGLE CORE, STRANDED, BLACK PVC INSULATED, APPEAR CONDUCTOR.
9.00 COMPONENT = START / STOP / EM STOP ETC. ALL TYPE OF PUSH BUTTON SHALL HAVE 2 NO+NC ELEMENT OF CONTACT RATING 10 AMP
10.00 TERMINAL BLOCK = CAPABLE TO TERMINATE WIRE OF 2.5 SQ MM, COLOURS OF TBS FOR DIFFERENT VOLTAGE SHALL BE DIFFERENT. 230 V AC CONTROL SUPPLY USED FOR OPERATION & 24 V AC USED FOR PLC INPUT SIGNALS.
11.00 SIZE OF LCS = AS PER DETAIL ENGINEERING, PLEASE NOTE LCS SHALL ACT AS FIELD JB & SHALL HAVE FACILITY FOR TERMINATION OF MINIMUM SNS 19 CORE X 2.5 SQMM CABLE SIZE GIVEN ON LCS ARE TENTATIVE
12.00 PAINTING = AS PER SPECIFICATION.
13.00 PAINT TYPE = EPOXY BASED
14.00 PAINT SHADE [ENCL.] = RAL-7035
15.00 NAME PLATE = WILL BE OF ANODISED ALUMINUM WITH WHITE LETTERS ENGRAVED ON BLACK BACKGROUND IN ENGLISH LANGUAGE
16.00 E - EARTHING STUDS AT BOTH END SHALL BE PROVIDED
17.00 LCS SIZE GIVEN ARE TENTATIVE

* THIS DRAWING IS FOR REFERENCE ONLY. DIMENSIONS ARE TENTATIVE ONLY
**BILL OF MATERIAL:**

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<td>2</td>
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<td>3</td>
<td>55</td>
<td>START PS WITH LED GREEN LAMP</td>
<td>APPROVED MAKE</td>
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<tr>
<td>5</td>
<td>55</td>
<td>BY PASS SWITCH</td>
<td>APPROVED MAKE</td>
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1. 3½ % SPARE TERMINAL SHALL BE PROVIDED.
### DATA SHEET

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<td>3.00</td>
<td>CABLE ENTRY = TOP &amp; BOTTOM</td>
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<td>FABRICATION (ENCLOSURE) = 2.00 MM THK. CRCA SHEET</td>
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<td>TYPE OF DOOR = HINGED TYPE FRONT DOOR OPENING</td>
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<td>7.00</td>
<td>TYPE OF CABLE GLAND PLATE = 3.00 MM THK. CRCA SHEET</td>
</tr>
<tr>
<td>8.00</td>
<td>INTERNAL WIRING = 2.5 MM² SINGLE CORE, STRANDED, BLACK PVC INSULATED APPEAR CONDUCTOR</td>
</tr>
<tr>
<td>9.00</td>
<td>COMPONENT = START / STOP / EM STOP ETC. ALL TYPE OF PUSH BUTTON SHALL HAVE 2 NO+2NC ELEMENT OF CONTACT RATING 10 AMP</td>
</tr>
<tr>
<td>10.00</td>
<td>TERMINAL BLOCK = CAPABLE TO TERMINATE WIRE OF 2.5 SQ. MM. COLOURS OF TBS FOR DIFFERENT VOLTAGE SHALL BE DIFFERENT. 230 V AC CONTROL SUPPLY USED FOR OPERATION &amp; 24 V AC USED FOR PLC INPUT SIGNALS</td>
</tr>
<tr>
<td>11.00</td>
<td>SIZE OF LCS = AS PER DETAIL ENGINEERING PLEASE NOTE LCS SHALL ACT AS FIELD JB &amp; SHALL HAVE FACILITY FOR TERMINATION OF MINIMUM SNS 19 CORE X 2.5 SQMM CABLE SIZE GIVEN ON LCS ARE TENTATIVE</td>
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<td>12.00</td>
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<tr>
<td>13.00</td>
<td>PAINT TYPE = EPDXY BASED</td>
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<tr>
<td>14.00</td>
<td>PAINT SHADE (ENCL.) = RAL-7035</td>
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<tr>
<td>15.00</td>
<td>NAME PLATE WILL BE OF ANODISED ALUMINUM WITH WHITE LETTERS ENGRAVED ON BLACK BACKGROUND IN ENGLISH LANGUAGE</td>
</tr>
<tr>
<td>16.00</td>
<td>E - EARTHING STUDS AT BOTH END SHALL BE PROVIDED</td>
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<tr>
<td>17.00</td>
<td>LCS SIZE GIVEN ARE TENTATIVE</td>
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*THIS DRAWING IS FOR REFERENCE ONLY. DIMENSIONS ARE TENTATIVE ONLY*
BILL OF MATERIAL:

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<th>TAG NO</th>
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<th>CAT. NO</th>
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<tr>
<td>1.6</td>
<td>91</td>
<td>EMERGENCY STOP MUSH ROOM HEAD PRESS TO LOCK</td>
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<td>2.6</td>
<td>92</td>
<td>STOP PS WITH RED LED LAMP</td>
<td>APPROVED MAKE</td>
<td>1 NOS</td>
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<tr>
<td>3.6</td>
<td>55</td>
<td>START PS WITH GREEN LAMP</td>
<td>APPROVED MAKE</td>
<td>1 NOS</td>
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<td>5.6</td>
<td>55</td>
<td>BY PASS SWITCH</td>
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1.31% SPARE TERMINAL SHALL BE PROVIDED

LCS TYPE - B (DOL)

FOR TENDER PURPOSE ONLY
### DATA SHEET

1.00 **TYPE OF PRODUCT** = LOCAL CONTROL STATION INDOOR DOUBLE DOOR TYPE

2.00 **MOUNTING ARR.** = WALL/STRUCTURE MOUNTING

3.00 **CABLE ENTRY** = TOP & BOTTOM

4.00 **DEGREE OF PROTECTION** = IP:54 (ENCLOSURE ONLY FOR INDOOR TYPE & IP:55 TO OUTDOOR INSTALLATION)

5.00 **FABRICATION ENCLOSURE** = 2.0mm THK. CRCA SHEET

6.00 **TYPE OF DOOR** = HINGED TYPE FRONT DOOR OPENING

7.00 **TYPE OF CABLE GLAND PLATE** = 3.0mm THK. CRCA SHEET

8.00 **INTERNAL WIRING** = 2.5 mm² SINGLE CORE, STRANDED, BLACK PVC INSULATED APPEAR CONDUCTOR.

9.00 **COMPONENT** = START / STOP /EM STOP ETC. ALL TYPE OF PUSH BUTTON SHALL HAVE 2 NO+2NC ELEMENT OF CONTACT RATING 10 AMP

10.00 **TERMINAL BLOCK** = CAPABLE TO TERMINATE WIRE OF 2.5 SQ.MM. COLOURS OF THES FOR DIFFERENT VOLTAGE SHALL BE DIFFERENT. 230 V AC CONTROL SUPPLY USED FOR OPERATION & 24 V AC USED FOR PLC INPUT SIGNALS.

11.00 **SIZE OF LCS** = AS PER DETAIL ENGINEERING. PLEASE NOTE LCS SHALL ACT AS FIELD JB & SHALL HAVE FACILITY FOR TERMINATION OF MINIMUM 5NOS 19 CORE X 2.5 SQ.MM CABLE SIZE GIVEN ON LCS ARE TENTATIVE

12.00 **PAINTING** = AS PER SPECIFICATION.

13.00 **PAINT TYPE** = EPOXY BASED

14.00 **PAINT SHADE** (ENCL.) = RAL-7035

15.00 **NAME PLATE** = WILL BE OF ANODISED ALUMINUM WITH WHITE LETTERS ENGRAVED ON BLACK BACKGROUND IN ENGLISH LANGUAGE

16.00 **E- EARTHING STUDS AT BOTH END SHALL BE PROVIDED**

17.00 **LCS SIZE GIVEN ARE TENTATIVE**

*This drawing is for reference only. Dimensions are tentative only.*
BILL OF MATERIAL:

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<th>S.NO</th>
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<th>DESCRIPTION</th>
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<tr>
<td>1.0</td>
<td>51</td>
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<td>1 NOS</td>
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<tr>
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<td>BSS BY PASS Switch</td>
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1 spare terminal shall be provided.

LCS TYPE - C
(RDOL)

FOR TENDER PURPOSE ONLY
1. 30% SPARE TERMINAL SHALL BE PROVIDED

NOTE:
1. THIS HAS BEEN SHOWN FOR TERMINAL DETAIL LIMIT SWITCH & TERMINAL ARE TO BE FIXED BY VENDOR

NOT IN VENDOR SCOPE

NOT IN VENDOR SCOPE
DATA SHEET

1.00 TYPE OF PRODUCT = LOCAL CONTROL STATION INDOOR DOUBLE DOOR TYPE

2.00 MOUNTING ARR.N. = WALL/STRUCTURE MOUNTING

3.00 CABLE ENTRY = TOP & BOTTOM

4.00 DEGREE OF PROTECTION = IP:54 (ENCLOSURE ONLY FOR INDOOR TYPE & IP:55 TO OUT DOOR INSTALLATION)

5.00 FABRICATION (ENCLOSURE) = 2.0mm THK. CRCA SHEET

6.00 TYPE OF DOOR = HINGED TYPE FRONT DOOR OPENING

7.00 TYPE OF CABLE GLAND PLATE = 3.0mm THK. CRCA SHEET

8.00 INTERNAL WIRING = 2.5 mm² SINGLE CORE. STRANDED. BLACK PVC INSULATED APPEAR CONDUCTOR.

9.00 COMPONENT = START/STOP /EM STOP ETC. ALL TYPE OF PUSH BUTTON SHALL HAVE 2 NO+2NC ELEMENT OF CONTACT RATING 10 AMP

10.00 TERMINAL BLOCK = CAPABLE TO TERMINATE WIRE OF 2.5mm². COLOURS OF TBS FOR DIFFERENT VOLTAGE SHALL BE DIFFERENT. 230 V AC CONTROL SUPPLY USED FOR OPERATION & 24 V AC USED FOR PLC INPUT SIGNALS.

11.00 SIZE OF LCS = AS PER DETAIL ENGINEERING. PLEASE NOTE LCS SHALL ACT AS FIELD JB & SHALL HAVE FACILITY FOR TERMINATION OF MINIMUM 5NOS 19 CORE X 2.5 SQMM CABLE SIZE GIVEN ON LCS ARE TENTATIVE

12.00 PAINTING = AS PER SPECIFICATION.

13.00 PAINT TYPE = EPOXY BASED

14.00 PAINT SHADE (ENCL.) = RAL-7035

15.00 NAME PLATE = WILL BE OF ANODISED ALUMINIUM WITH WHITE LETTERS ENGRAVED ON BLACK BACKGROUND IN ENGLISH LANGUAGE

16.00 E-EARTHING STUDS AT BOTH END SHALL BE PROVIDED

17.00 LCS SIZE GIVEN ARE TENTATIVE

*THIS DRAWING IS FOR REFERENCE ONLY. DIMENSIONS ARE TENTATIVE ONLY
1. TERMINAL SHALL BE CONSIDERED BY VENDOR FOR LIMIT SWITCH

NOT IN VENDOR SCOPE
ONLY FOR REFERENCE

1. 30% SPARE TERMINAL SHALL BE PROVIDED
**DATA SHEET**

1. **TYPE OF PRODUCT** = LOCAL CONTROL STATION INDOOR DOUBLE DOOR TYPE

2. **MOUNTING ARR.** = WALL/STRUCTURE MOUNTING

3. **CABLE ENTRY** = TOP & BOTTOM

4. **DEGREE OF PROTECTION** = IP:54 (ENCLOSURE ONLY FOR INDOOR TYPE & IP:55 TO OUT DOOR INSTALLATION)

5. **FABRICATION [ENCLOSURE] = 2.0 mm THK. CRCA SHEET

6. **TYPE OF DOOR = HINGED TYPE FRONT DOOR OPENING

7. **TYPE OF CABLE GLAND PLATE = 3.0 mm THK. CRCA SHEET

8. **INTERNAL WIRING = 2.5 mm² SINGL CORE, STRANDED, BLACK PVC INSULATED APPEAR CONDUCTOR.

9. **COMPONENT = START / STOP /EM STOP ETC. ALL TYPE OF PUSH BUTTON SHALL HAVE 2 NO+2NC ELEMENT OF CONTACT RATING 10 AMP

10. **TERMINAL BLOCK = CAPABLE TO TERMINATE WIRE OF 2.5 SQ. MM. COLOURS OF TBS FOR DIFFERENT VOLTAGE SHALL BE DIFFERENT. 230 V AC CONTROL SUPPLY USED FOR OPERATION & 24 V AC USED FOR PLC INPUT SIGNALS

11. **SIZE OF LCS = AS PER DETAIL ENGINEERING PLEASE NOTE LCS SHALL ACT AS FIELD JB & SHALL HAVE FACILITY FOR TERMINATION OF MINIMUM 5NOS 19 CORE X 2.5 SQMM CABLE SIZE GIVEN ON LCS ARE TENTATIVE

12. **PAINTING = AS PER SPECIFICATION

13. **PAINT TYPE = EPOXY BASED

14. **PAINT SHADE [ENCL] = RAL-7035

15. **NAME PLATE = WILL BE OF ANODISED ALUMINIUM WITH WHITE LETTERS ENGRAVED ON BLACK BACKGROUND IN ENGLISH LANGUAGE

16. **E - EARTHING STUDS AT BOTH END SHALL BE PROVIDED

17. **LCS SIZE GIVEN ARE TENTATIVE

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**BILL OF MATERIAL**

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<td>1 NOS</td>
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<td>2.1</td>
<td>52</td>
<td>STOP PB WITH LED RED LAMP</td>
<td>APPROVED MAKE</td>
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<td>1 NOS</td>
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<tr>
<td>3.1</td>
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<td>START PB WITH LED GREEN LAMP</td>
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1. 38% SPARE TERMINAL SHALL BE PROVIDED
DATA SHEET

1.00 TYPE OF PRODUCT = LOCAL CONTROL STATION INDOOR DOUBLE DOOR TYPE
2.00 MOUNTING ARR. = WALL/STRUCTURE MOUNTING
3.00 CABLE ENTRY = TOP & BOTTOM
4.00 DEGREE OF PROTECTION = IP:54 ENCLOSURE ONLY FOR INDOOR TYPE & IP:55 TO OUTDOOR INSTALLATION
5.00 FABRICATION ENCLOSURE = 2.0mm THK. CRCA SHEET
6.00 TYPE OF DOOR = HINGED TYPE FRONT DOOR OPENING
7.00 TYPE OF CABLE GLAND PLATE = 3.0mm THK. CRCA SHEET
8.00 INTERNAL WIRING = 2.5 mm² SINGLE CORE, STRANDED, BLACK PVC INSULATED APPEAR CONDUCTOR.
9.00 COMPONENT = START / STOP / EM STOP ETC. ALL TYPE OF PUSH BUTTON SHALL HAVE 2 NO+2NC ELEMENT OF CONTACT RATING 10 AMP
10.00 TERMINAL BLOCK = Capable to terminate wire of 2.5mm², colours of TBS for different voltage shall be different. 230 V AC control supply used for operation & 24 V AC used for PLC input signals.
11.00 SIZE OF LCS = AS PER DETAIL ENGINEERING. PLEASE NOTE LCS SHALL ACT AS FIELD JB & SHALL HAVE FACILITY FOR TERMINATION OF MINIMUM 5NOS 19 CORE 2.5 SQMM CABLE. SIZE GIVEN ON LCS ARE TENTATIVE
12.00 PAINTING = AS PER SPECIFICATION.
13.00 PAINT TYPE = EPOXY BASED
14.00 PAINT SHADE (ENCLOSED) = RAL-7035
15.00 NAME PLATE = WILL BE OF ANODISED ALUMINIUM WITH WHITE LETTERS ENGRAVED ON BLACK BACKGROUND IN ENGLISH LANGUAGE
16.00 E- EARTHING STUDS AT BOTH END SHALL BE PROVIDED
17.00 LCS SIZE GIVEN ARE TENTATIVE

*THIS DRAWING IS FOR REFERENCE ONLY. DIMENSIONS ARE TENTATIVE ONLY
1. Push button or potentiometer as per the system requirement.
DATA SHEET

1.00 TYPE OF PRODUCT = LOCAL CONTROL STATION OUTDOOR DOUBLE DOOR TYPE

2.00 MOUNTING ARRIG. = WALL/STRUCTURE MOUNTING

3.00 CABLE ENTRY = TOP & BOTTOM

4.00 DEGREE OF PROTECTION = IP:54 (ENCLOSURE ONLY) FOR INDOOR TYPE & IP:55 TO OUT DOOR INSTALLATION

5.00 FABRICATION (ENCLOSURE) = 2.0mm THK. SS SHEET

6.00 TYPE OF DOOR = HINGED TYPE FRONT DOOR OPENING

7.00 TYPE OF CABLE GLAND PLATE = 3.0mm THK. SS SHEET

8.00 INTERNAL WIRING = 2.5 mm² SINGLE CORE, STRANDED, BLACK PVC INSULATED APPEAR CONDUCTOR.

9.00 COMPONENT = START / STOP / EM STOP / ALL TYPE OF PUSH BUTTON SHALL HAVE 2 NO.2NC ELEMENT OF CONTACT RATING 10 AMP

10.00 TERMINAL BLOCK = CAPABLE TO TERMINATE WIRE OF 2.500 MM² COLOURS OF TBS FOR DIFFERENT VOLTAGE SHALL BE DIFFERENT. 230 V AC CONTROL SUPPLY USED FOR OPERATION & 24 V AC USED FOR PLC INPUT SIGNALS.

11.00 SIZE OF LCS = AS PER DETAIL ENGINEERING. PLEASE NOTE LCS SHALL ACT AS FIELD JB & SHALL HAVE FACILITY FOR TERMINATION OF MINIMUM 50S 19 CORE X 2.500MM² CABLE SIZE GIVEN ON LCS ARE TENTATIVE

12.00 PAINTING = AS PER SPECIFICATION.

13.00 PAINT TYPE = EPOXY BASED

14.00 PAINT SHADE (ENCL) = RAL-7035

15.00 NAME PLATE = WILL BE OF ANODISED ALUMINUM WITH WHITE LETTERS ENGRAVED ON BLACK BACKGROUND IN ENGLISH LANGUAGE

16.00 E - EARTHING STUDS AT BOTH END SHALL BE PROVIDED

17.00 LCS SIZE GIVEN ARE BEEN TENTATIVE

*THIS DRAWING IS FOR REFERENCE ONLY. DIMENSIONS ARE TENTATIVE ONLY
LCS TYPE - H
(RDOL)

1. 30% spare terminal shall be provided.