

FROM SUPPORT
1200

G L

300

1500

450

600

350

REFILLED EARTH

CHARCOAL OR COKE
AND SALT IN ALTERNATE
LAYERS OF 300

SPIRAL EARTH WIRE
8 S.W.G G.I

2.5M
APP.

NO. 8 S.W.G. G.I
WIRE, CLOSELY
WOUND 115 TURNS.

50

EARTHING SPIRAL

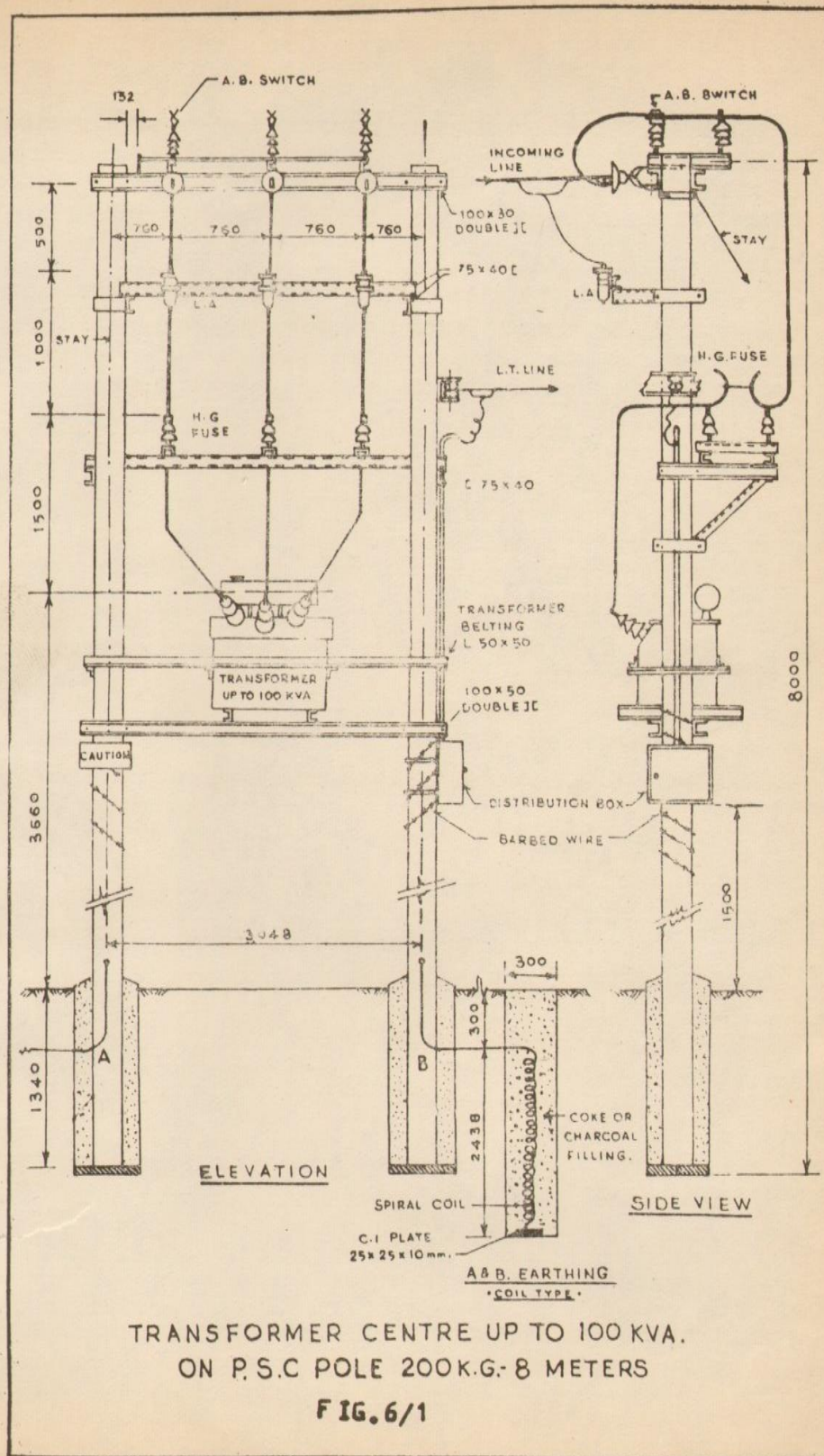
FOR PIPE EARTHING REFER CONSTRUCTION STANDARDS J-2.

कुंडली भू-सम्पर्कन

COIL EARTHING

Page 80 | 92

Arrangement of Transformer



Date:
Sign & Stamp of the Bidder

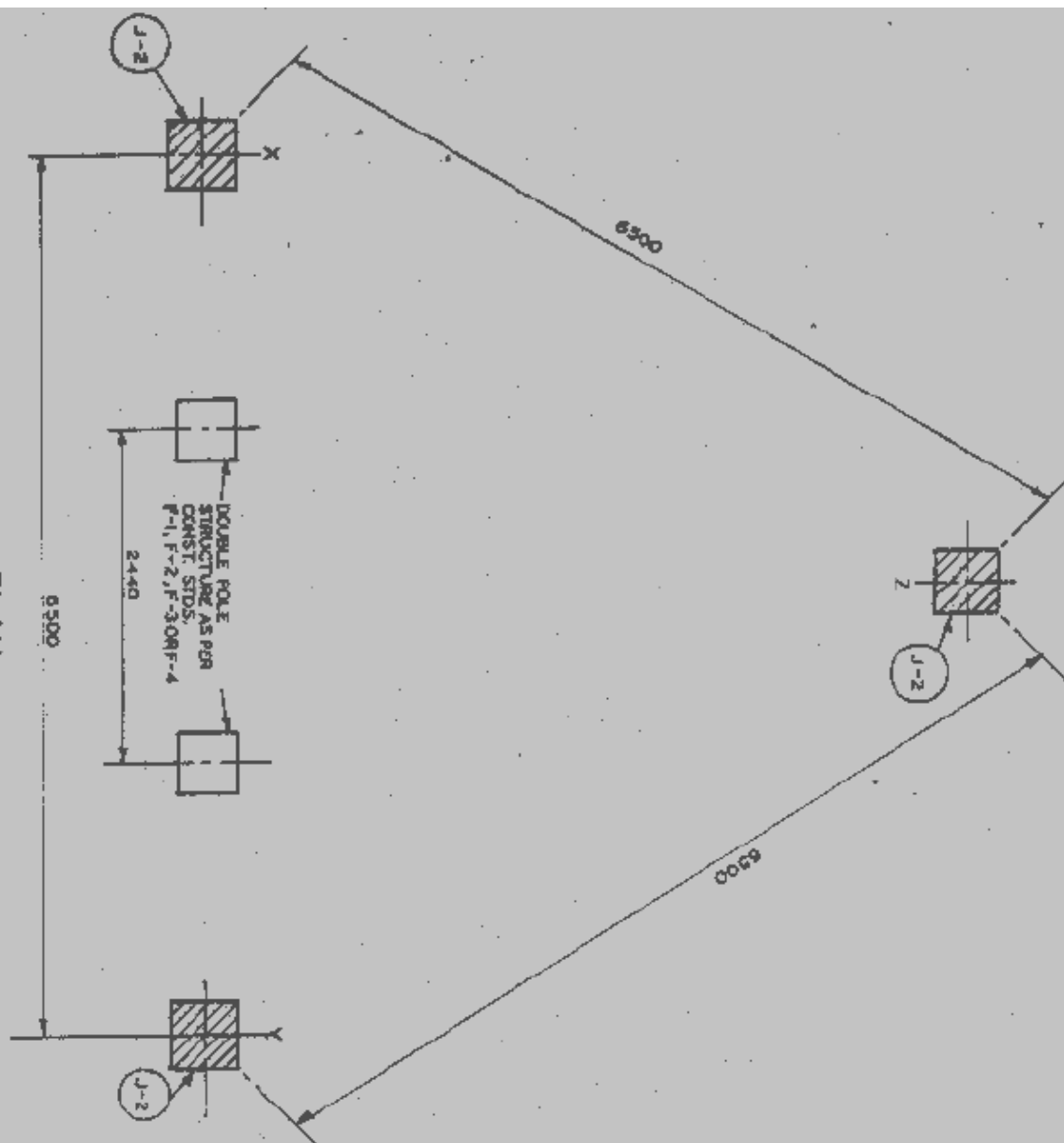
Earthing Arrangement for Transformer Centre

REC CONSTRUCTION STANDARD F-5

NOTES:-

1. THE CONNECTIONS TO THE THREE - EARTH ELECTRODES SHOULD BE AS FOLLOWS:-
 - (a) TO ONE OF THE EARTH ELECTRODES ON EITHER SIDE OF DOUBLE POLE STRUCTURE (X OR Y).
 - (i) ONE DIRECT CONNECTION FROM THESE 11KV LIGHTNING ARRESTERS.
 - (ii) ANOTHER DIRECT CONNECTION FROM THE L.T. LIGHTNING ARRESTERS, IF PROVIDED.
 - (b) TO EACH OF THE REMAINING TWO EARTH - ELECTRODES.
 - (i) ONE SEPARATE CONNECTION FROM THE NEUTRAL (ON THE MEDIUM VOLTAGE SIDE) OF THE TRANSFORMER.
 - (ii) ONE SEPARATE CONNECTION FROM THE TRANSFORMER BODY AND THE HANDLE OF THE 11KV. AIR SWITCH.
 - (iii) ONE SEPARATE CONNECTION FROM THE EARTHING TERMINAL OF THE POLES.
 2. 4 mm (0.5 W.G.) GALVNE SHOULD BE USED FOR EARTH LEADS.

PLAN



ALL DIMENSIONS ARE IN MM.

११ क. व. / ४३३-२५० वी.ए.

द्विपोल संरचना-12एन-1
जोड़ने के लिये दो
कनेक्शन के समान

11 KV/433-250V

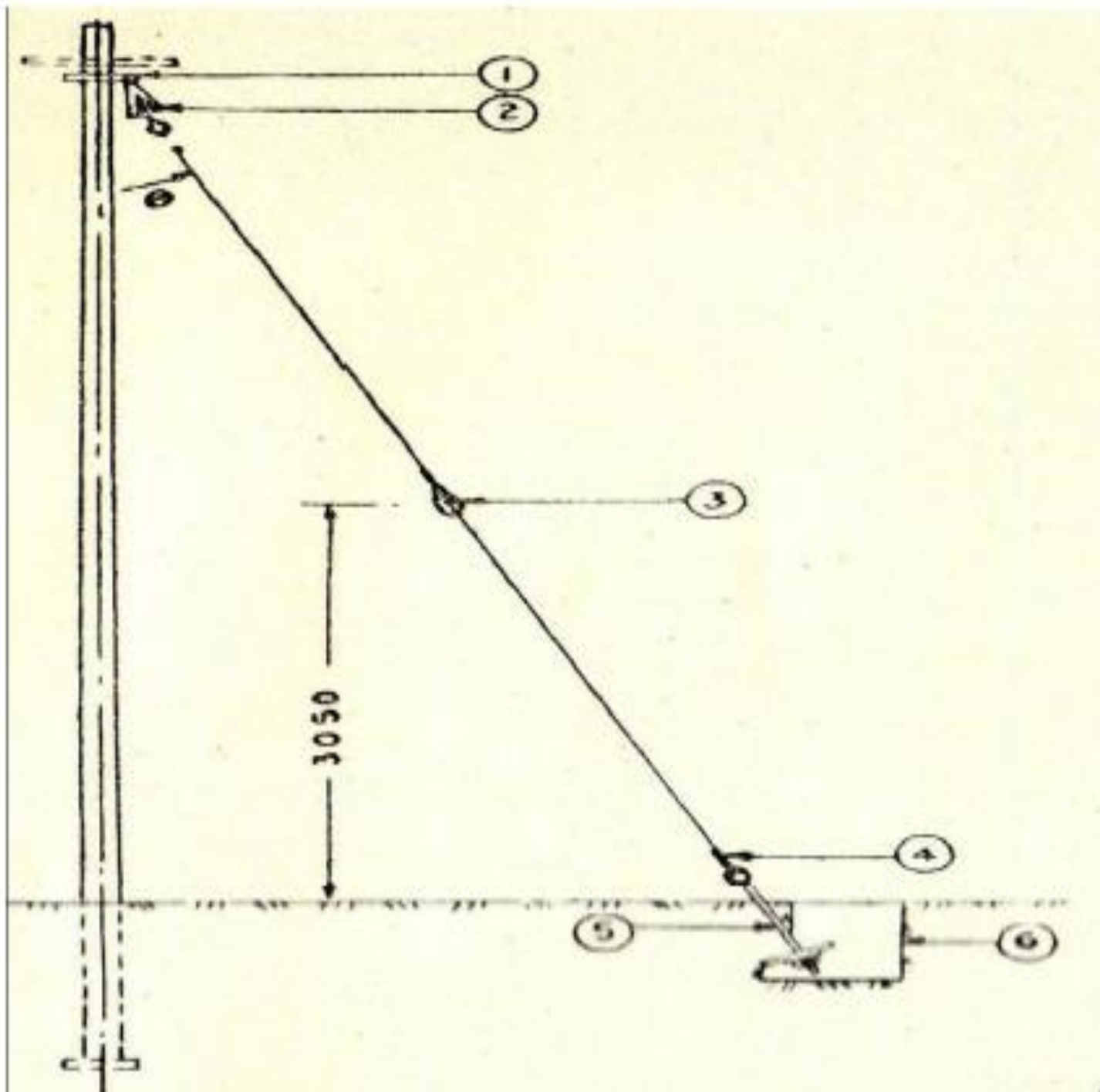
DISTRIBUTION SUB-STATION
LOCATION OF EARTH PITS
AND CONNECTIONS

R-2

SCALE : N.T.S. | 1993 / JAN. - 1993

Date:
Sign & Stamp of the Bidder

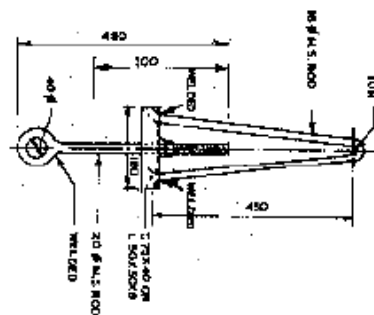
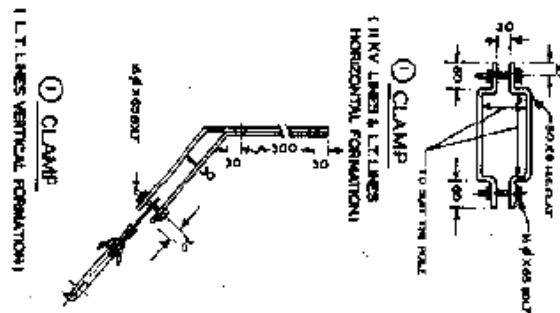
Arrangements of Guy



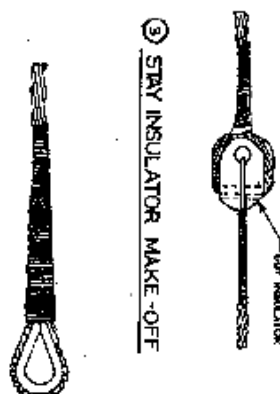
- | | | |
|---------------------------|-----------------------------|----------------------------|
| 1. Guy Clamp | 2. Turn Buckle and Eye Bolt | 3. Guy Insulator |
| 4. Guy Wire | 5. Guy Rod | 6. Guy Pit (2 X 2 X 5 ft.) |
| 7. θ 30 to 40 Deg. | | |

Date:
Sign & Stamp of the Bidder

The diagram shows a horizontal crane boom of length 3000 units, pivoted at the left end. A cable is attached to the right end of the boom and extends diagonally down to a fixed support on the left. The cable is labeled with a weight of 100 units. The boom is labeled with a weight of 200 units. A vertical line segment of length 1000 units is shown below the boom, with a weight of 100 units hanging from it. The boom is supported by a vertical post on the right, which is labeled with a weight of 100 units. The boom is also supported by a cable that runs horizontally from the right end to a fixed support on the left, labeled with a weight of 100 units.

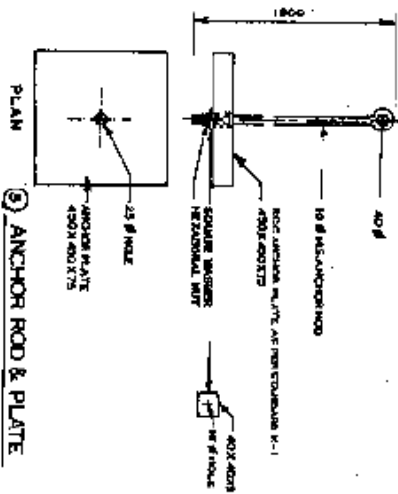
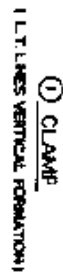


② TURN BUCKLE

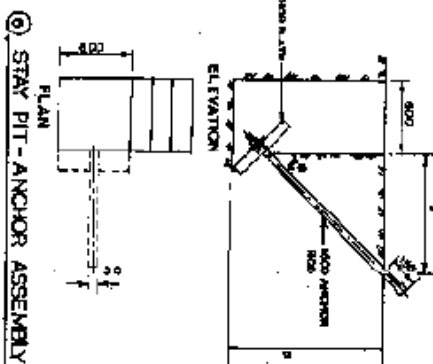


③ STAY INSULATOR MAKE-OFF

REC
CONSTRUCTION STANDARD
G-1



⑤ ANCHOR ROD & PLATE



⑥ STAY PIT-ANCHOR ASSEMBLY

6	30°	45°
A	750	1100
B	1500	1300

ALL DIMENSIONS ARE IN MM.

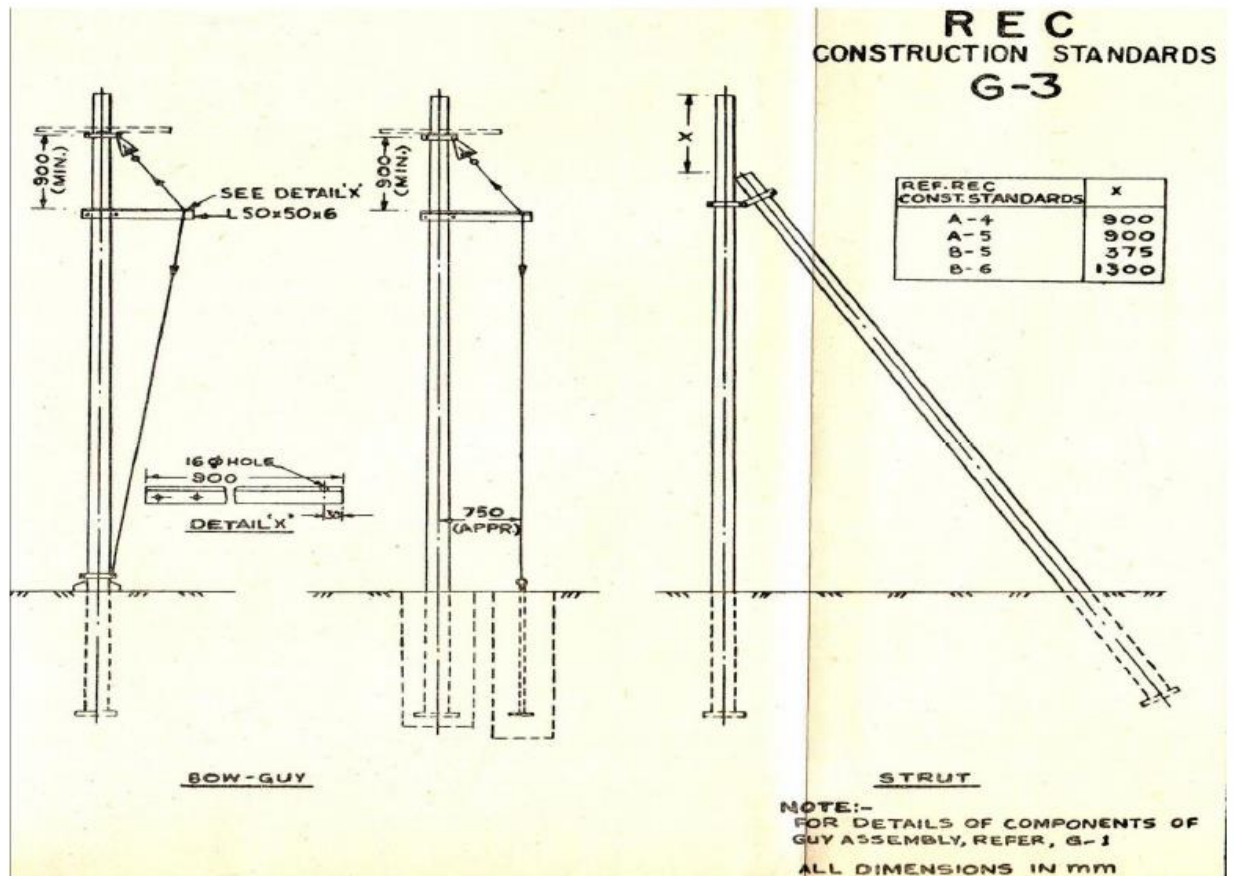
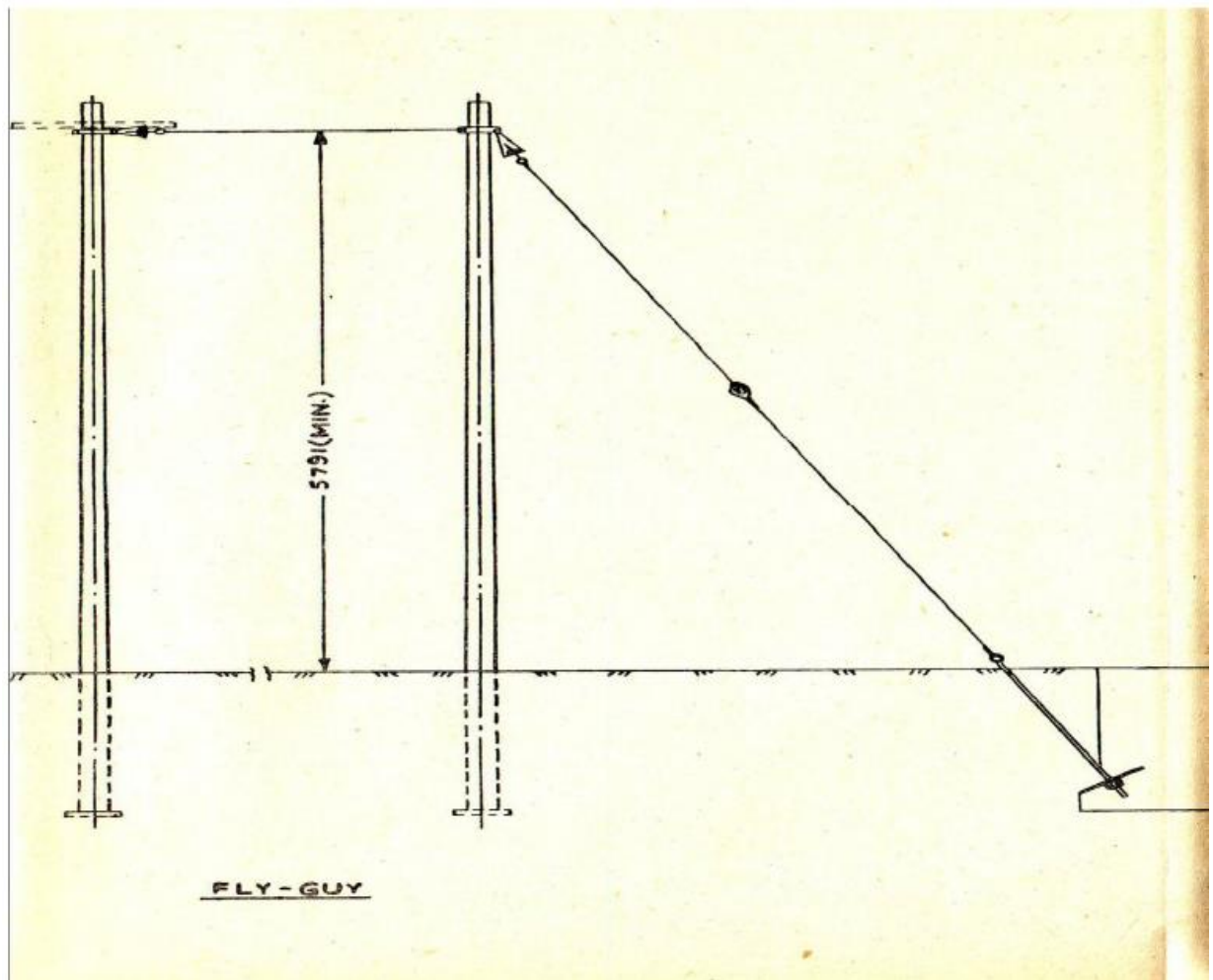
दीर्घा राशी प्रत्यक्षीकरण
(सर्व क्षेत्रात)
GUY ASSEMBLY
CONVENTIONAL ARRANGEMENT

NOTES:-

1. ANCHOR ROD WITH WASHER & NUT SHOULD BE PREFERABLY GALVANIZED.
2. WHEN CONTINUOUS EARTH WIRE IS USED, GUY INSULATION MAY NOT BE USED.

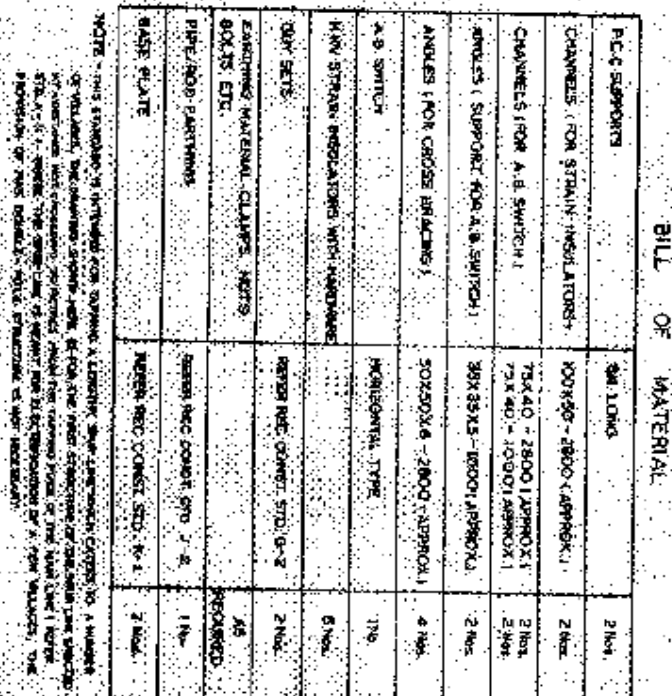
1 REFER - 1E - RULE 901

Date:
Sign & Stamp of the Bidder



Date:
Sign & Stamp of the Bidder

REC
CONSTRUCTION STANDARD
A-12



ALL INFORMATION ARE IN THE
 IN A. L. 1964
 FIRST EDITION
 OF THE FIRST EDITION
 SIX LINES
 TAPPING ARRANGEMENT
 FIRST STRUCTURE OF LENGTHY
 SPUR LINE

Page 86 | 92

REC
ACTION
A-1

NOTES

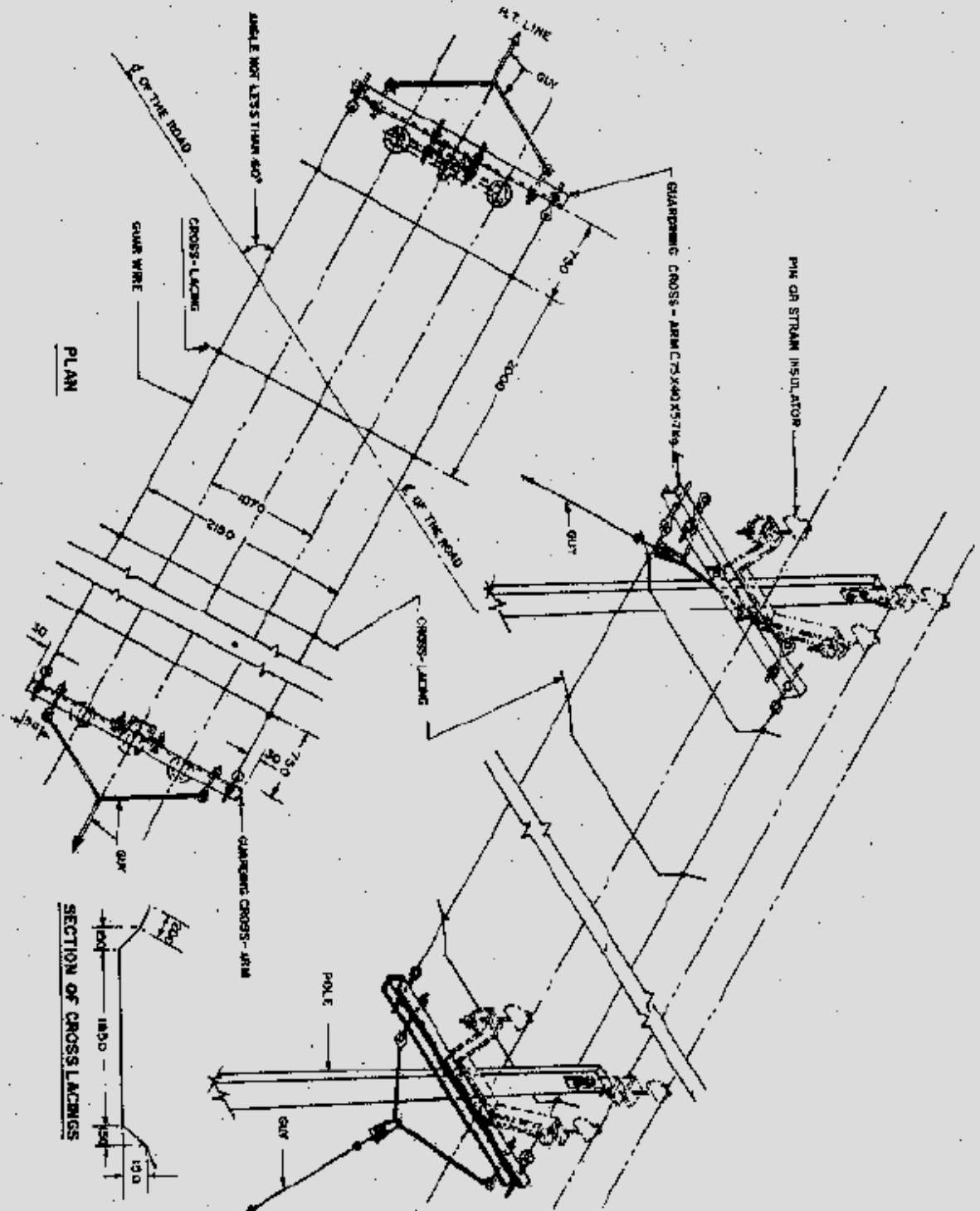
1. NO CROSS LAMINAE TO PUT THE REINFORCEMENTS; CROSS LAMINAE BE PROVIDED FOR THE WIDTH OF THE ROAD PLUS ONE EACH NEAR THE SUPPORT.
2. FOR CROSS LAMINAE AND JOINT COMPILER FOR FROM STIFF ELEMENTS OR 3/16 IN GAUWRE CAN BE USED.
3. AS PER IE RULE B3(13) THE BARRED WIRE SHOULD HAVE THE BREAKING STRONGH NOT LESS THAN ASSAY EITHER 4mm or 5mm DIAMETER WITH MINIMUM 50 N/mm² TENSILE STRENGTH QUALITY OF STEEL WIRE OF BREAKING STRONGH 480 N/mm² OR 50% OF QUALITY OF STEEL WIRE OF BREAKING STRONGH 480 N/mm².
4. SPECIAL SUPPORTS MAY BE NEEDED TO ALLOW MINIMUM CLEARANCE FROM GROUND AS PER I.E. RULE NO. 77A SPECIFICALLY & TO TAKE CARE OF ADDITIONAL WIND LOAD DUE TO CURVED WINDERS.
5. STRUCTURES ON EITHER SIDE OF THE ROAD TO BE EARTHED.
6. CROSSING ANGLE SHOULD NOT BE LESS THAN 90°.

BILL OF MATERIALS	
GLASSING DRESS-ING	2
V-GLASS	2
BLACK GLASS	2
ETX BOLTS-16mm #	8
GRAND WINGS	AS REQD.
EXHAUSTING COMPLETE	2
BOLTS 16mm #	4

ALL DONATIONS ARE IN...

1600
11KV LINES
PROTECTIVE GUARDING
ACROSS THE ROAD

SCALE - M.T.S	3074 - 1072
---------------	-------------



Date:
Sign & Stamp of the Bidder

Guarding under LT Line

REC
CTHO
B-1

PROCESS LANDING & SHOOT (HSLA) TOWNS	AS REQD.
LANDFILLING (CONCRETE)	2

PROCESS (ACTION) & SPECIAL INSTRUCTIONS	AS REQD.
LABORATORY CRIMINALS	2

1. MANAGER OF CHINA WANTS TO PUT THE FOLLOWING:
-REPORT AND WORK LOGS TO BE PROVIDED FOR THE
-WORTH OF THE ROAD PLUS ONE EACH WITH THE
-SUPPORT.

3. STRUCTURAL CHARACTERISTICS OF THE ROAD TO BE
EARTHED.
4. THE SHOE MANAGEMENT CAN BE MADE IN POPULATED
AND LOCALITIES WHEREVER NECESSARY.
5. AN OBSTRUCTION IS DEMO LISHED BY SHAVING WOOD,
CUTTING AND 7/2 IN. OR ALONG 7/2 INCHES
BEFORE THE WOODS OF ADEQUATE SIZE TO SATISFY
THE ROAD (BUSH).
6. CROSSING ANGLE SHOULD NOT BE LESS THAN 60°
7. SPECIAL PREPARATIONS MAY BE REQUIRED TO ALLOW
THE SHOE MANAGEMENT TO BE MADE IN THE
FIELD NO. 710 200 METERS



५४५१/२४०६६-११११११

RECEIVED

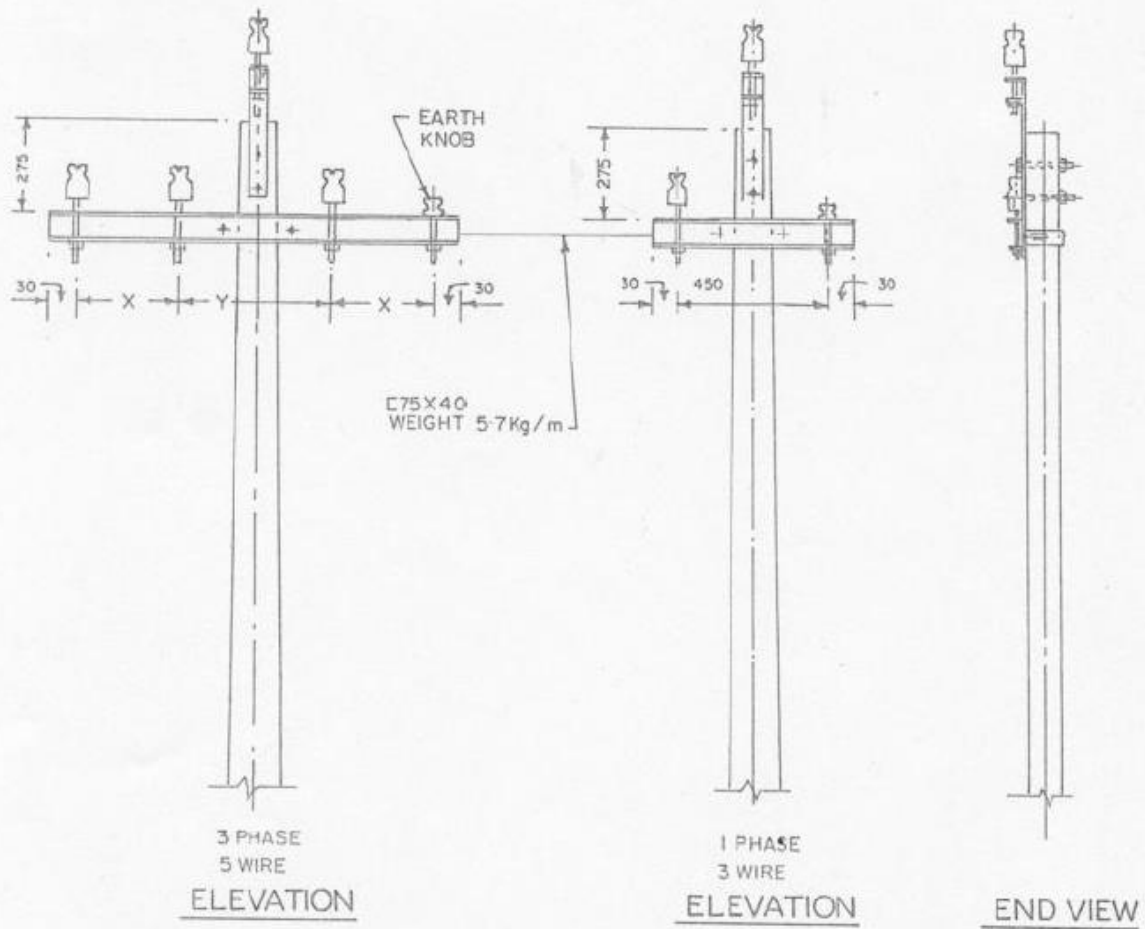
40/240V LINES OBJECTIVE GUARDING

ACROSS THE ROAD HORIZONTAL FORMATION

SCALE:- N.T.5	SEPT. - 1072
---------------	--------------

Page 88 | 92

REC
CONSTRUCTION STANDARD
B-3



TANGENT LOCATION
MAXIMUM SPAN - 67 METRES

SAGS	HORIZONTAL SPACING	
	X	Y
UP TO 750	300	450
750 TO 1200	450	450

ALL DIMENSIONS ARE IN mm

४१५/२४० वी. लाईन
कंडक्टर रचना व अंतराल
समस्तर रचना
415/240V LINES
CONDUCTOR FORMATION AND
CLEARANCES
HORIZONTAL FORMATION

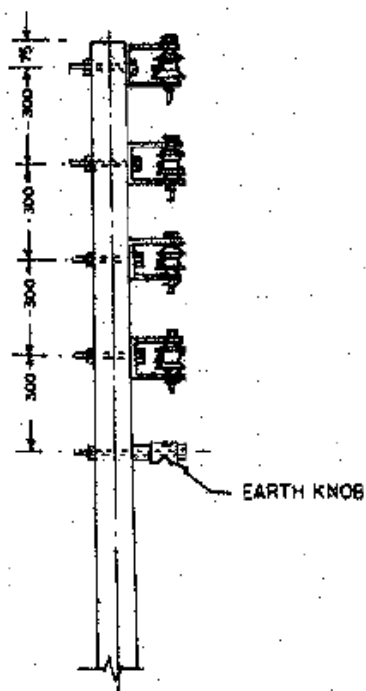
SCALE :- N.T.S

SEPT. - 1972

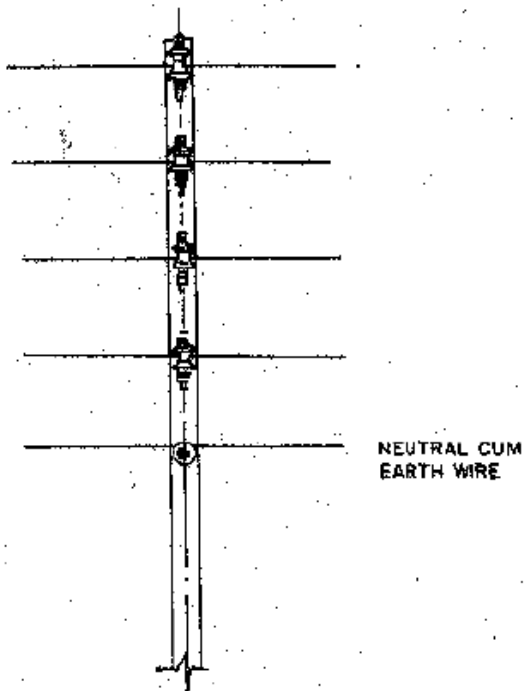
Date:
Sign & Stamp of the Bidder

LT Line Vertical Formation and Clearances (415 V)

REC CONSTRUCTION STANDARD B-4



ELEVATION



END VIEW

TANGENT- LOCATION
MAXIMUM SPAN -- 67 METRES

ALL DIMENSIONS ARE IN mm.

४१५/२४० वी. लाईन
कन्डक्टर रचना व अंतराल
बढ़ी रचना

415/240V LINES
CONDUCTOR FORMATION AND
CLEARANCES
VERTICAL FORMATION

SCALE: N.T.S

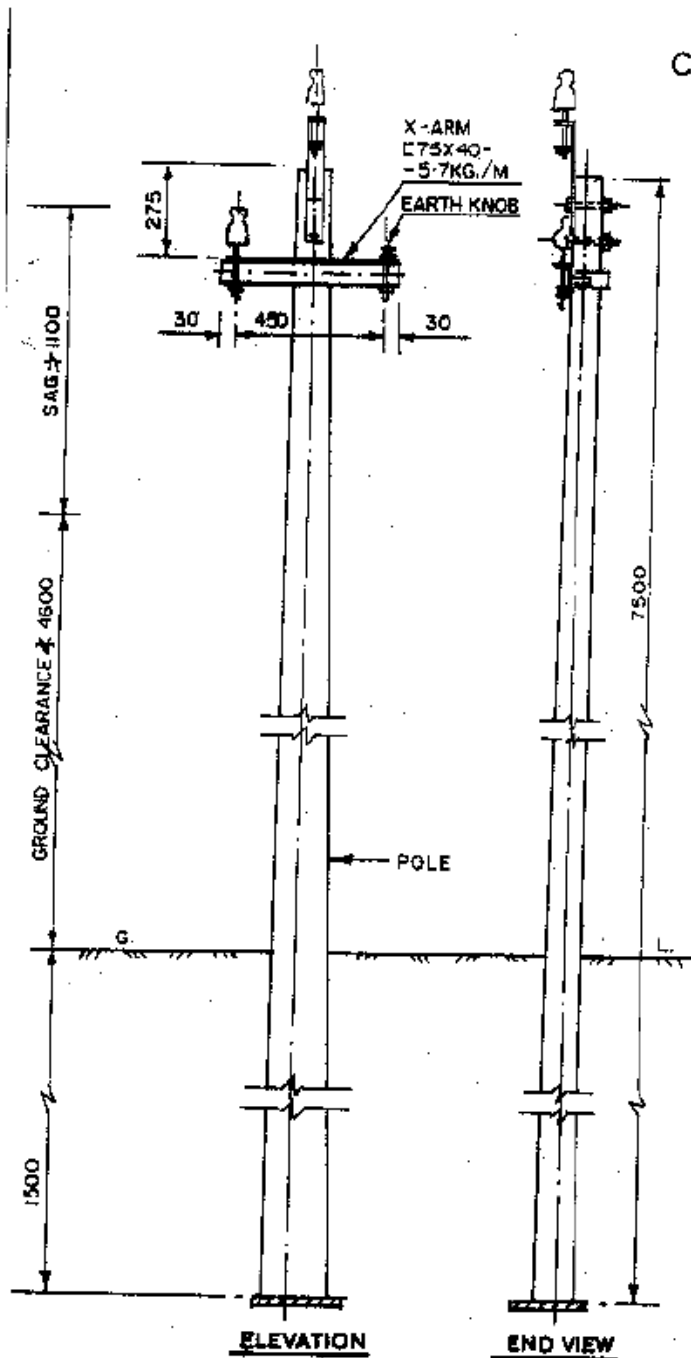
SEPT.-1972

Date:

Sign & Stamp of the Bidder

LT Line Horizontal Formation and Clearances (230 V)

REC
CONSTRUCTION STANDARD
B-14



BILL OF MATERIAL

7.5M SUPPORT	1
CROSS-ARM	1
BACK CLAMP	1
L.T. PIN INSULATORS	2
L.T. PINS	2
EARTH KNOB	1
POLE TOP BRACKET	1
BOLTS 16 Ø WITH NUTS	4

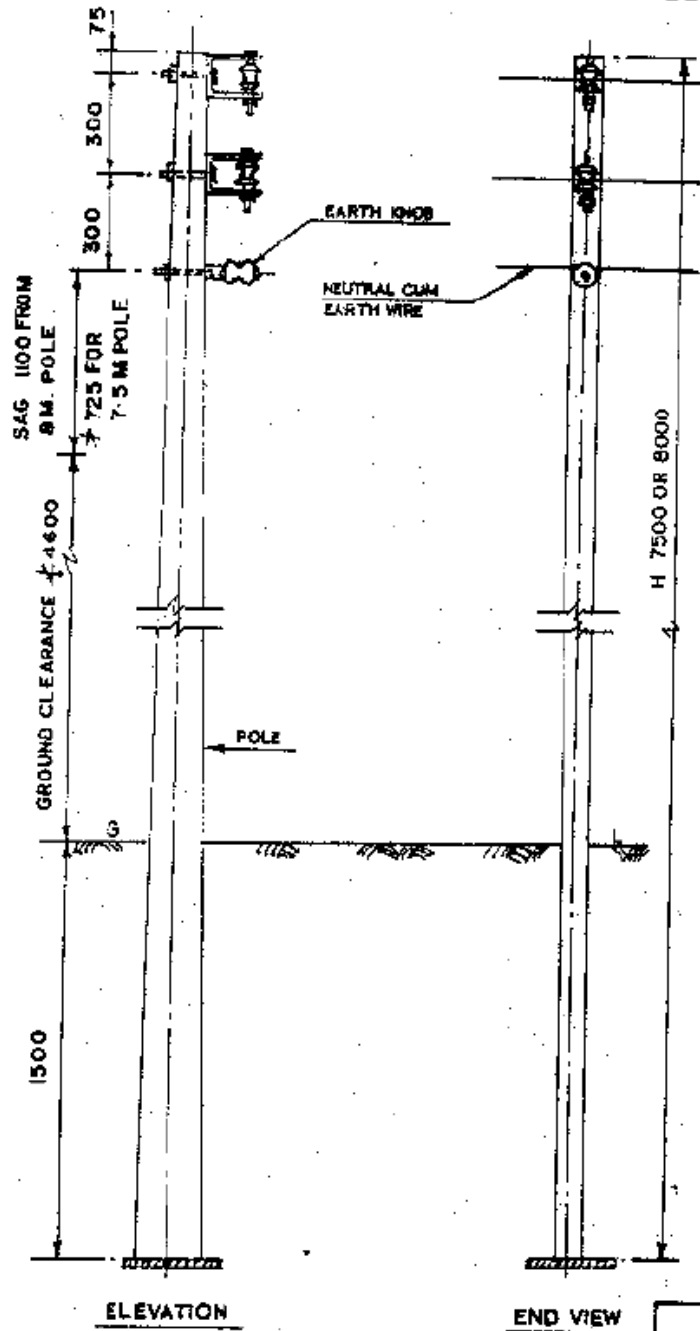
ALL DIMENSIONS ARE IN mm.

२४० वी. लाईन
कन्डक्टर रचना एवं अंतराल
१०-३ तार (समस्त रचना)
240V LINES
CONDUCTOR FORMATION AND
CLEARANCES
10.3-W (HORIZONTAL FORMATION)
SCALE: N.T.S. APRIL, 1981.

Date:
Sign & Stamp of the Bidder

LT Line Vertical Formation and Clearances (230 V)

REC
CONSTRUCTION STANDARD
B-15



BILL OF MATERIAL

SUPPORT 7.5M OR 8.0M	1
U-CLAMP	2
SHACKLE INSULATORS	2
EARTH KNOB	1
BOLTS 16 Ø WITH NUTS	3

ALL DIMENSIONS ARE IN mm

२४० वी. लाईने
कन्सट्रक्शन स्टैंडर्ड
१-Ø-३ तार (खडी रचना)
240V LINES
CONDUCTOR FORMATION AND
CLEARANCES
(1Ø, 3-W VERTICAL FORMATION)
SCALE: R.T.S. APRIL, 1981

Date:

Sign & Stamp of the Bidder