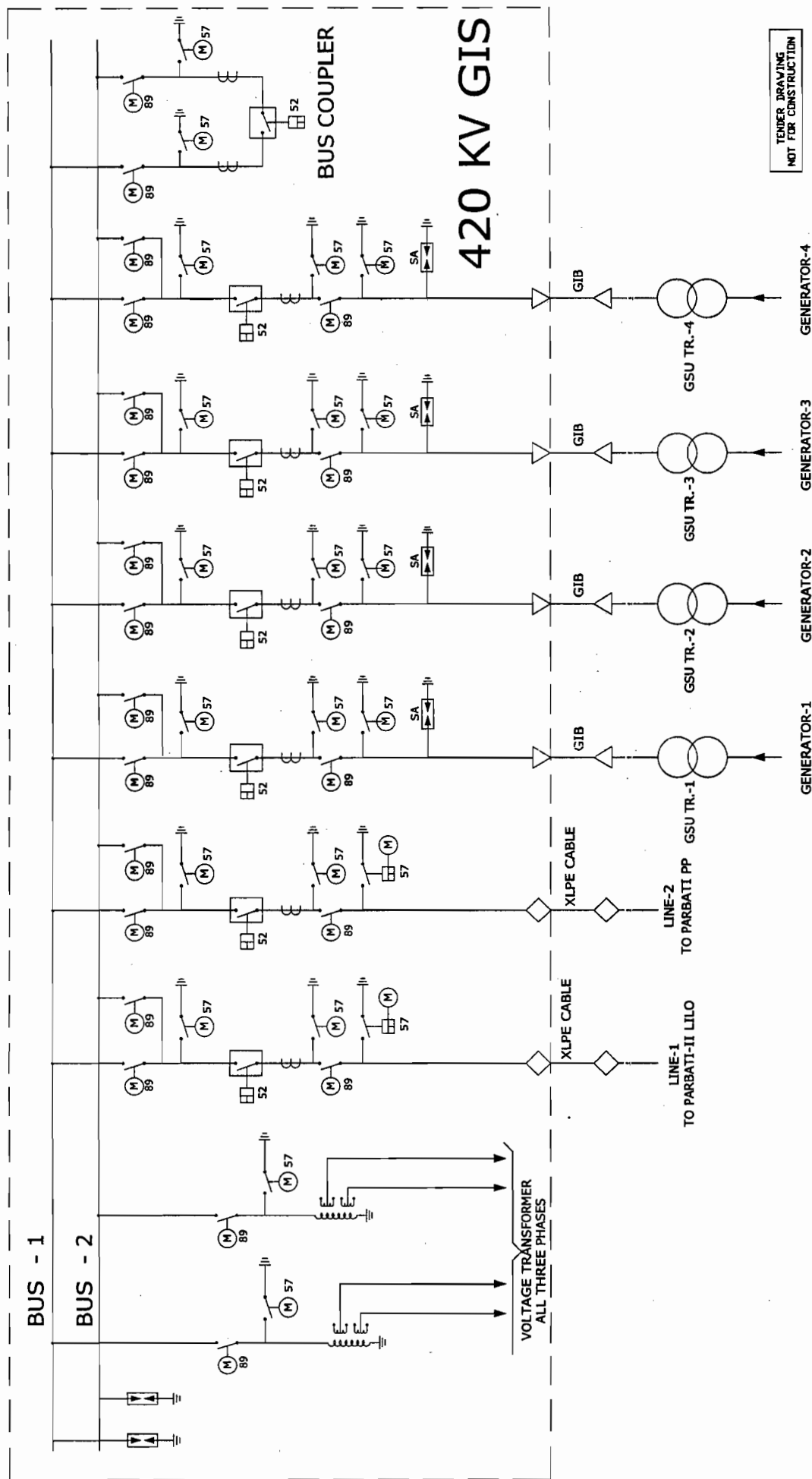




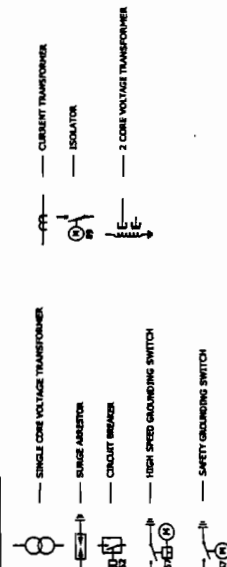
नैशनल हाइड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लि.  
NATIONAL HYDROELECTRIC POWER CORPORATION LTD.  
पार्वती जलविद्युत परियोजना चरण - ३ (हि.प्र.)  
PARBATTI HYDROELECTRIC PROJECT STAGE-III (H.P.)

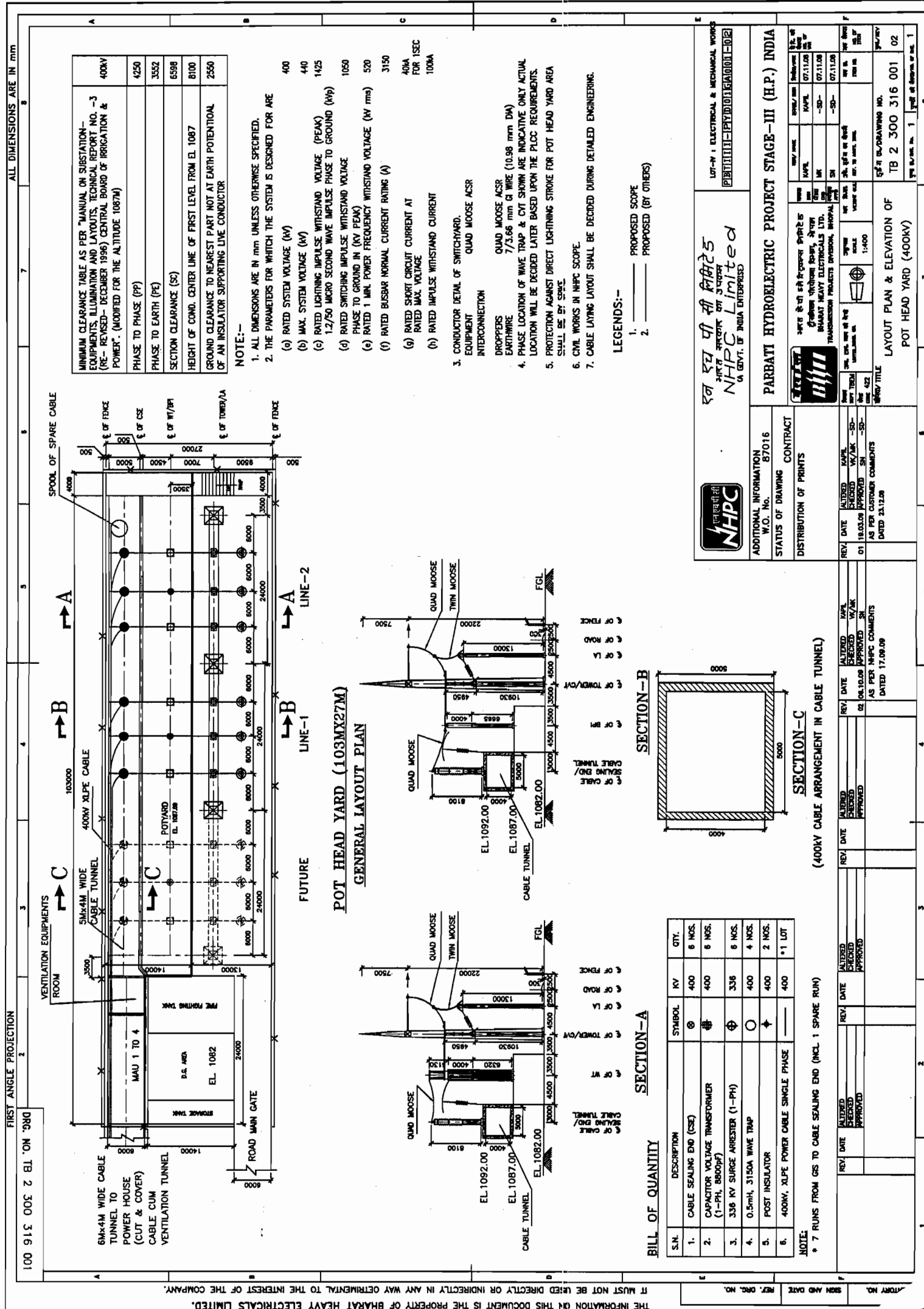
SINGLE LINE DIAGRAM FOR GIS

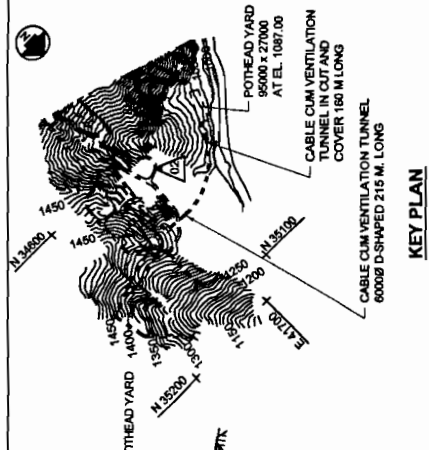
DATE	SUBMITTED	DESIGNED	CHECKED	APPROVED
20.08.2008	C.S. SHARMA	V.D. SARMA	S.K. MISRA	ANANTHA
DWG. NO.	REV.	REV.	REV.	REV.
NH/DEM/PBT-III/CP/03	00			



LEGEND:-







**KEY PLAN**

**NOTES**

1. ALL DIMENSION ARE IN MILLIMETRES AND LEVELS IN METRE.
2. THIS DRAWING IS BASED ON AVAILABLE TOPOGRAPHICAL & GEOLOGICAL SURVEY & THE LAYOUT, ALIGNMENT GRADES & ROCK SUPPORT MEASURES AS WELL AS QUANTITIES ARE LIABLE TO CHANGE AS PER FIELD CONDITIONS.
3. FOR ROCK SUPPORT DETAILS REFER RELEVANT DRAWING.
4. SUPPORT IN THE FORM OF 3 TO 8 M LONG ROCK ANCHORS & 90-100 TH. SHOTCRET WITH OR WITHOUT WIRE MESH MAY BE REQUIRED IN PORTAL CUT FACE AS DETERMINED BY ENGINEER-IN-CHARGE.
5. CONCRETE GRADE M-20 SHALL BE USED FOR INVERT OF ADIT.

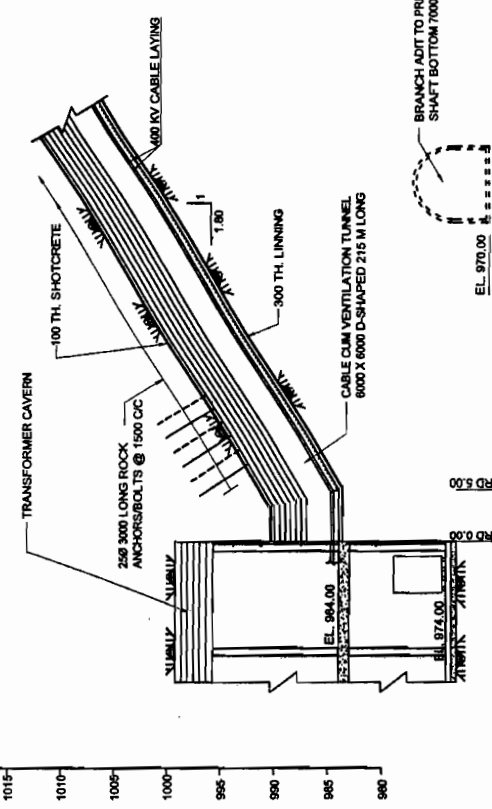
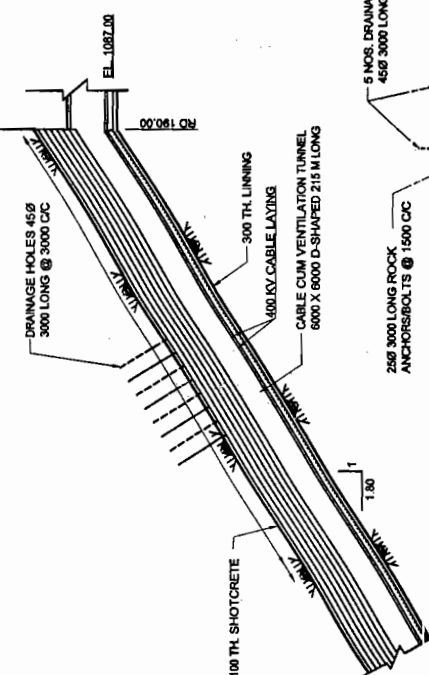
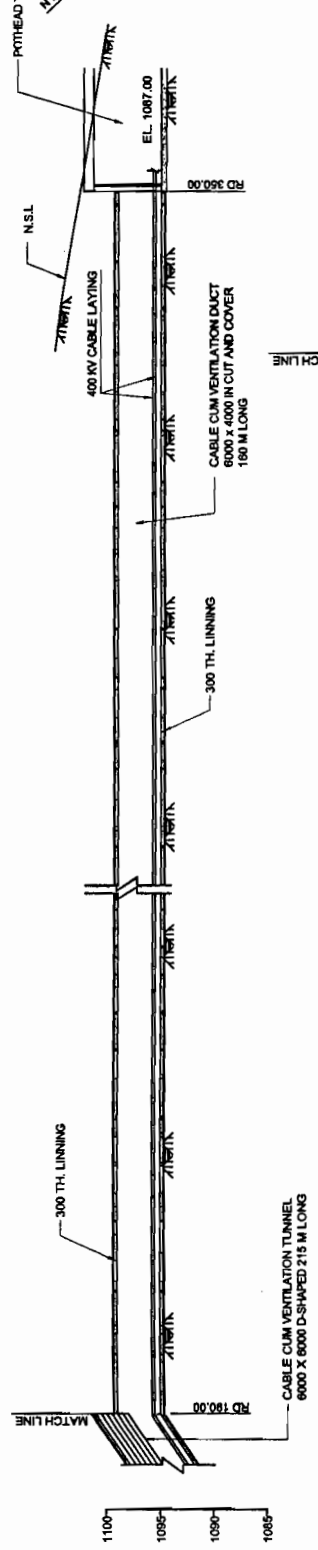
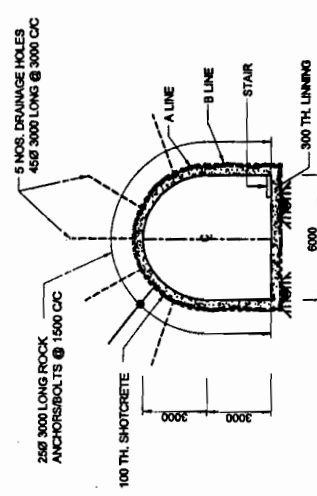
**REFERENCE DRAWING**

1. POWER HOUSE GENERAL ARRANGEMENT CABLE CUM VENTILATION TUNNEL NFPB III - 4CT2-41-GA-026

**TENDER DRAWING  
NOT FOR CONSTRUCTION**



**TYPICAL CROSS SECTION  
(CABLE CUM VENTILATION TUNNEL)**



**POWER HOUSE  
EQUIPMENT ARRANGEMENT  
CABLE CUM VENTILATION TUNNEL**

<p>पारबती हाइड्रोइलेक्ट्रिक पावर कॉर्पोरेशन लि. NATIONAL HYDROELECTRIC POWER CORPORATION LTD. पारबती जलविद्युत परियोजना चरण -3 (हि.स.) PARBATI HYDROELECTRIC PROJECT STAGE-III (H.P.)</p>		APPROVED PROJECT	IN CHARGE
DATE	NOV.-2006	DRG. NO.	HYD/ENR/PST-H/PPH/01
BY	...	...	...



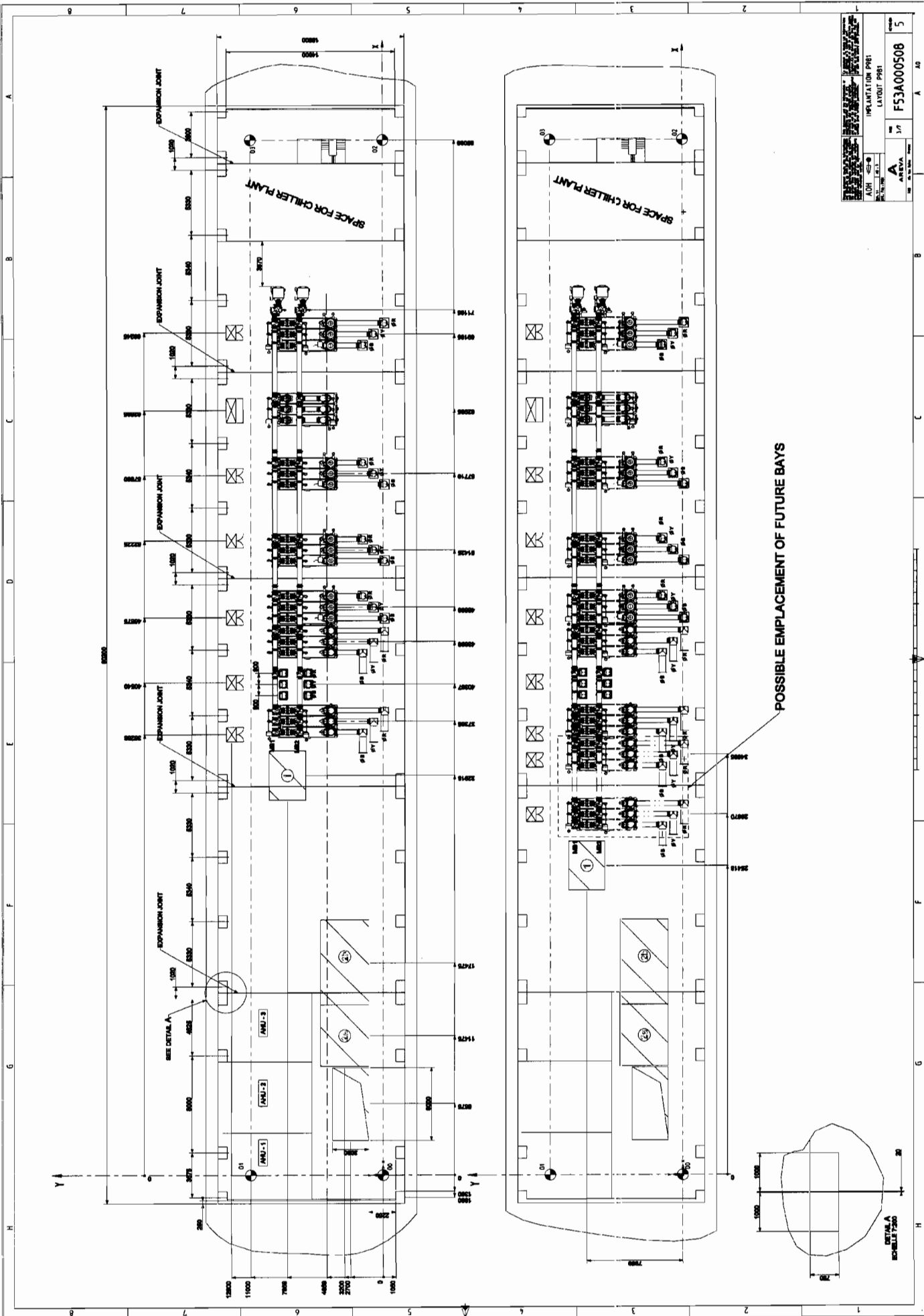


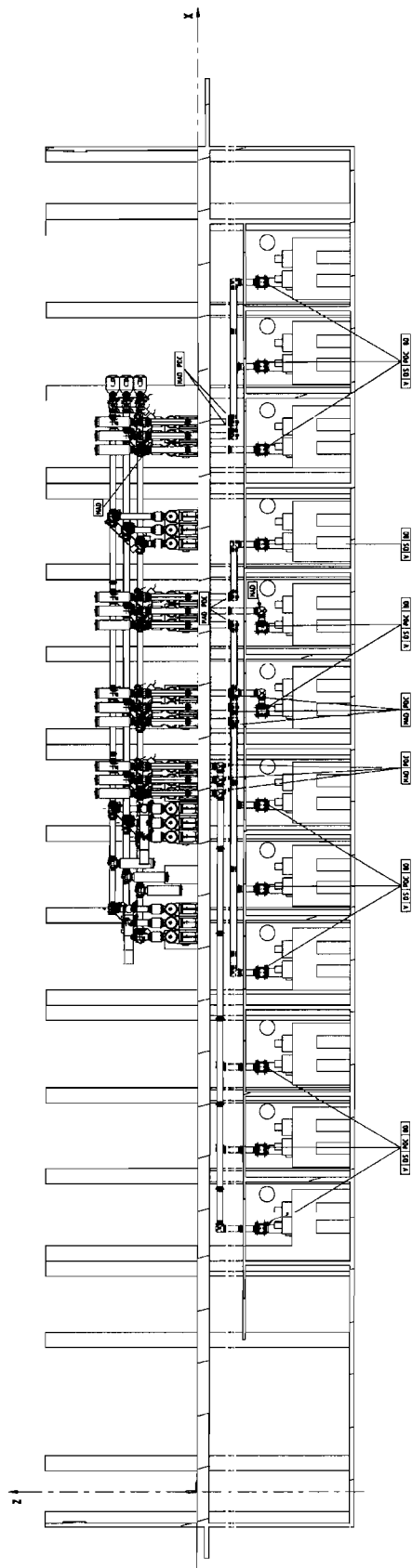
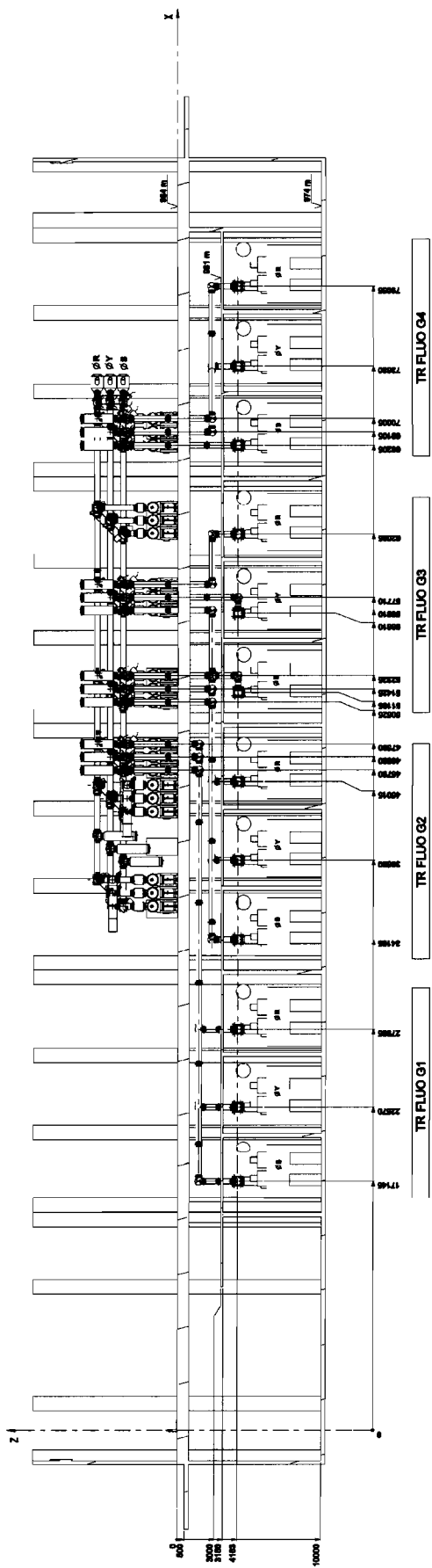




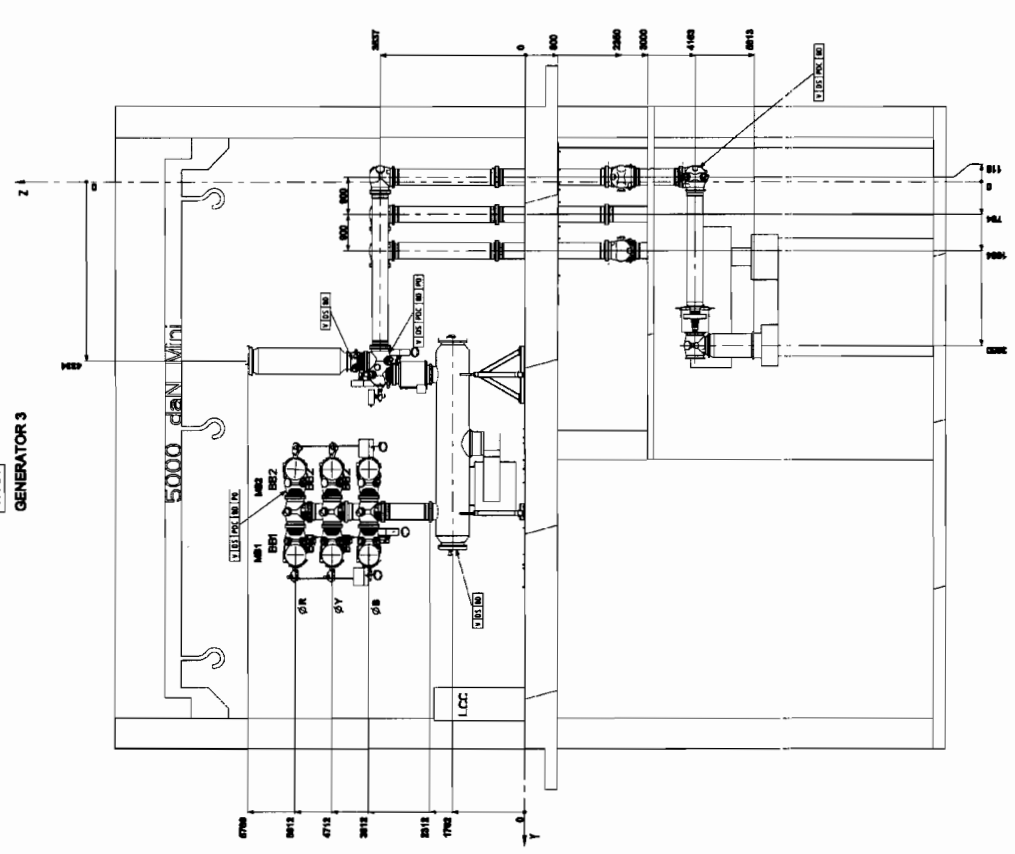


IMPLANTATION PREL		LAYOUT PREL		F53A000508	
A.O.H. 45-0		A		5	
A		1/1		1/1	
A		1/1		1/1	



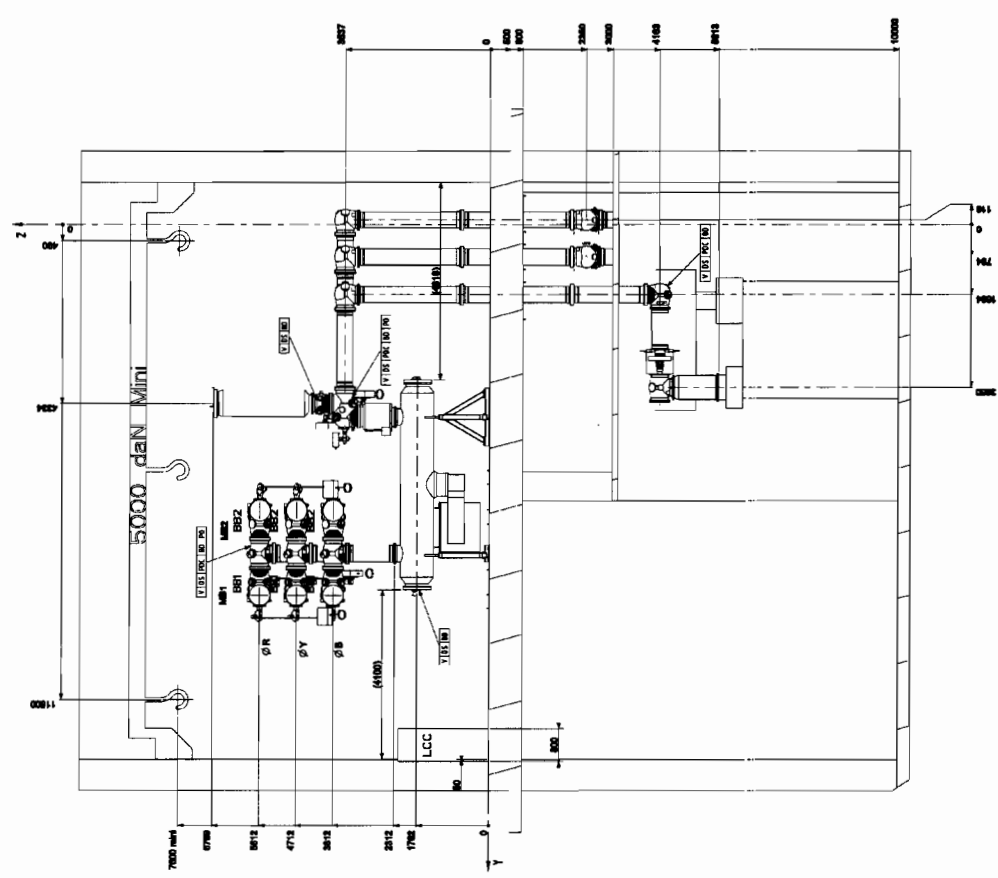


TR 04  
GENERATOR 3



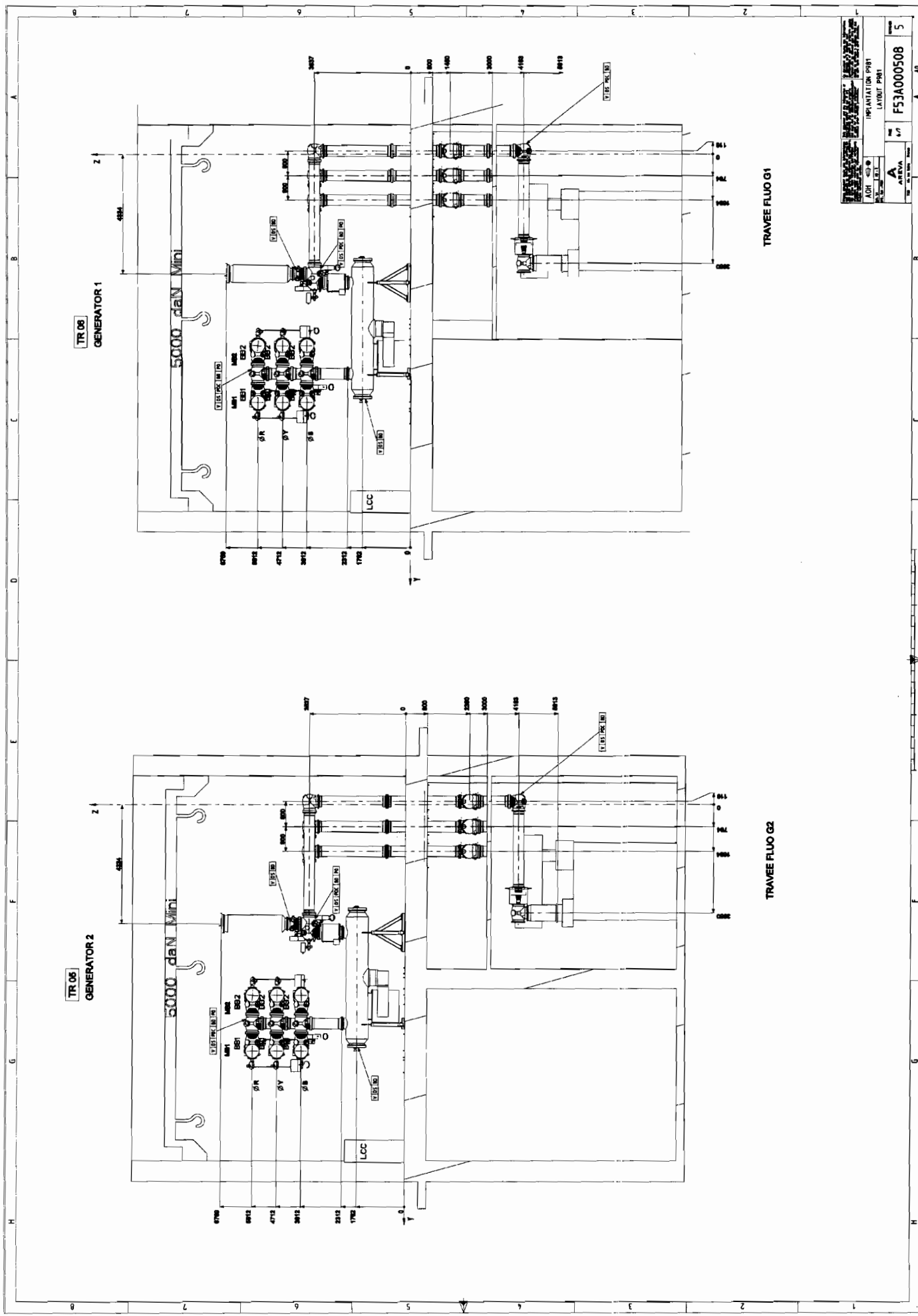
TRAVEE FLUO G3

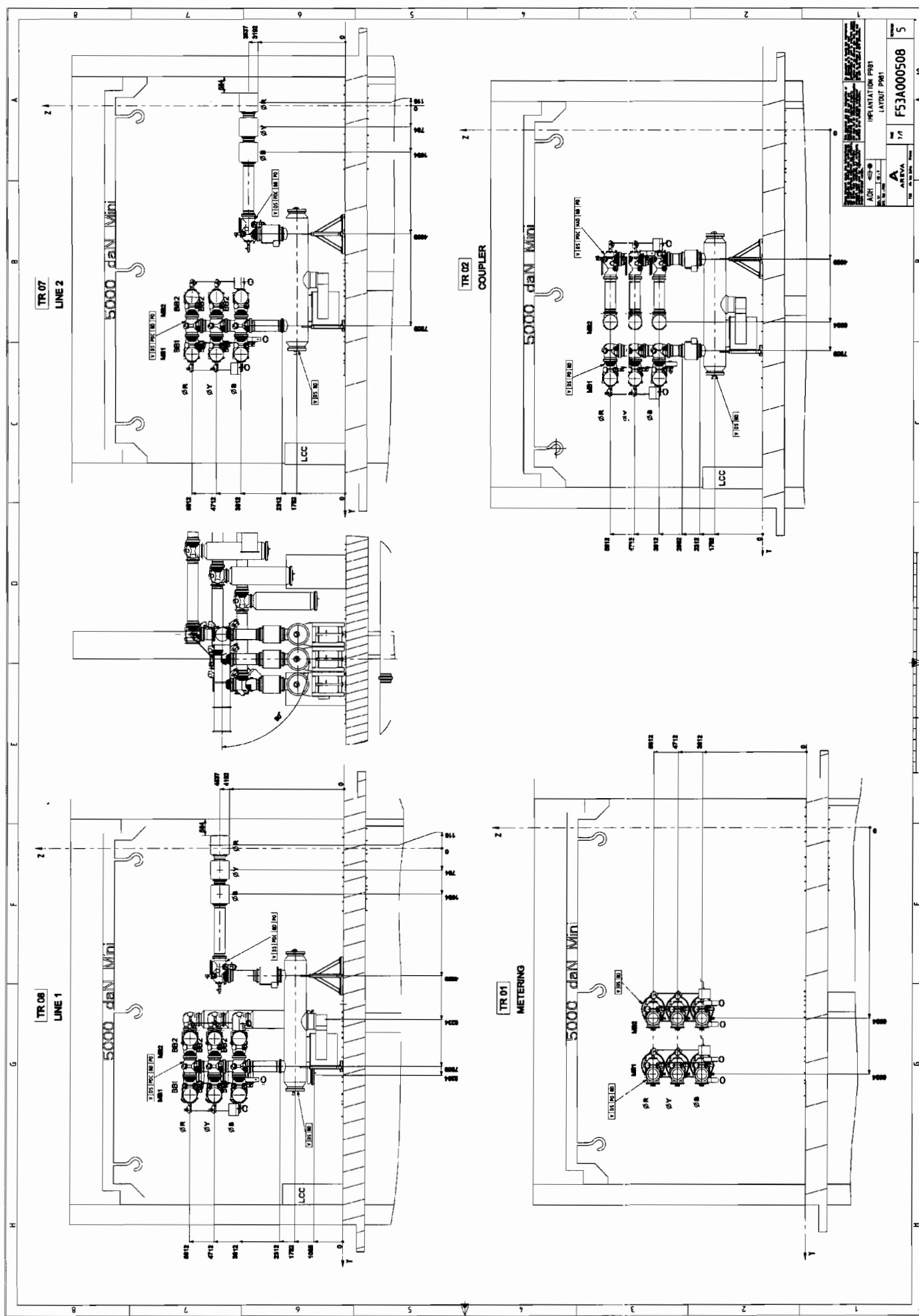
TR 02  
GENERATOR 4

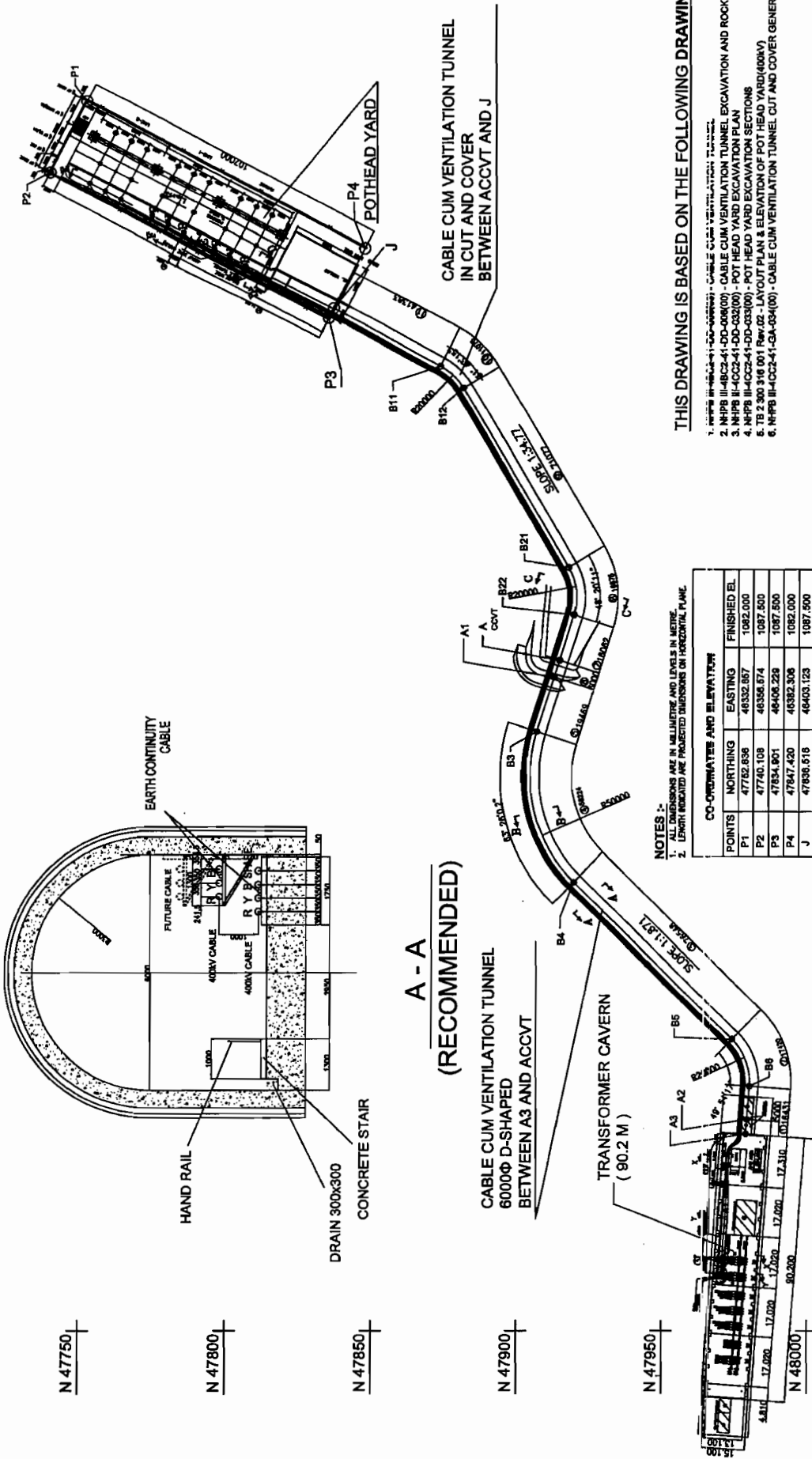


TRAVEE FLUO G4

PROJEKSI  
LAYOUT  
F53A000508  
5

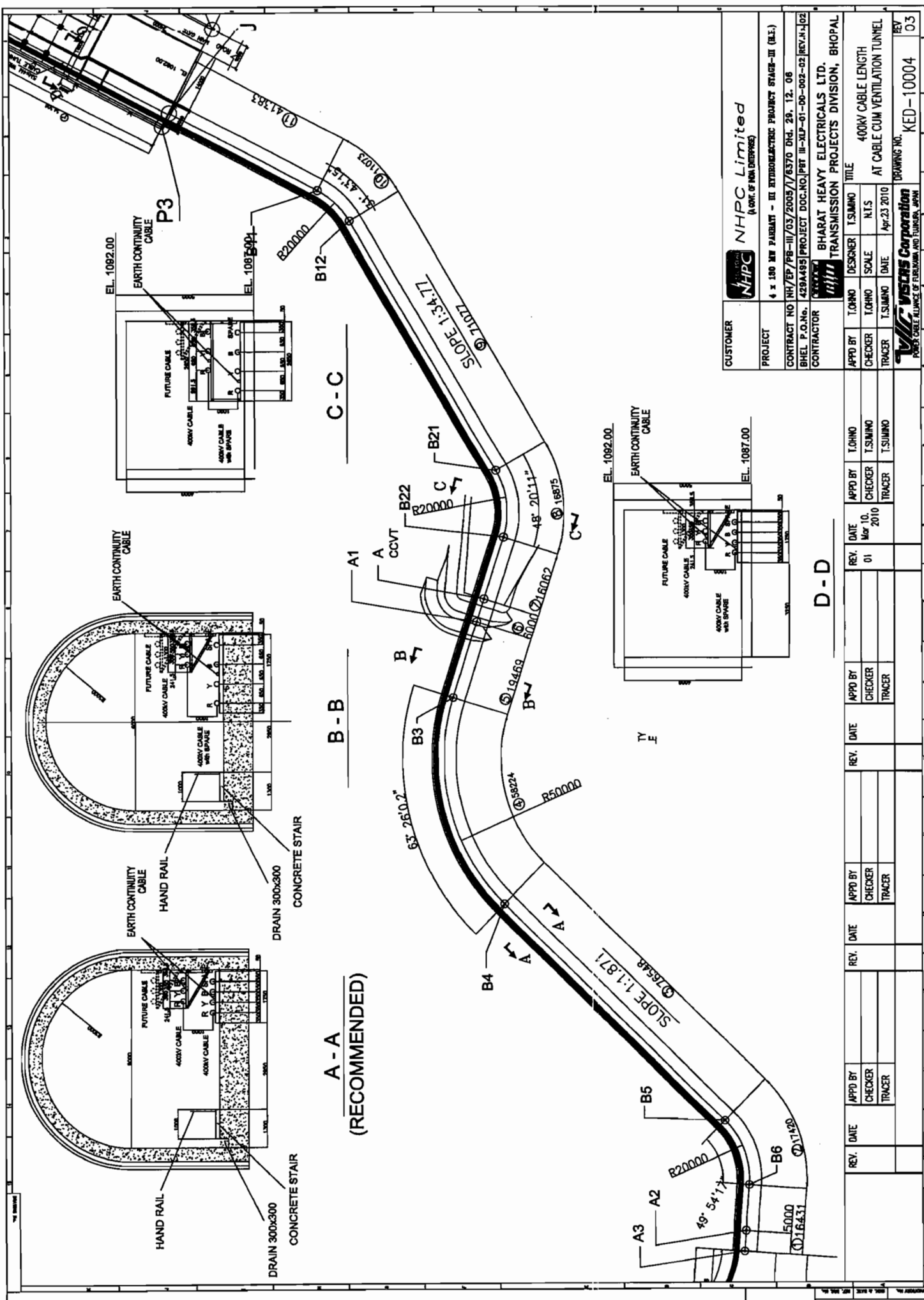









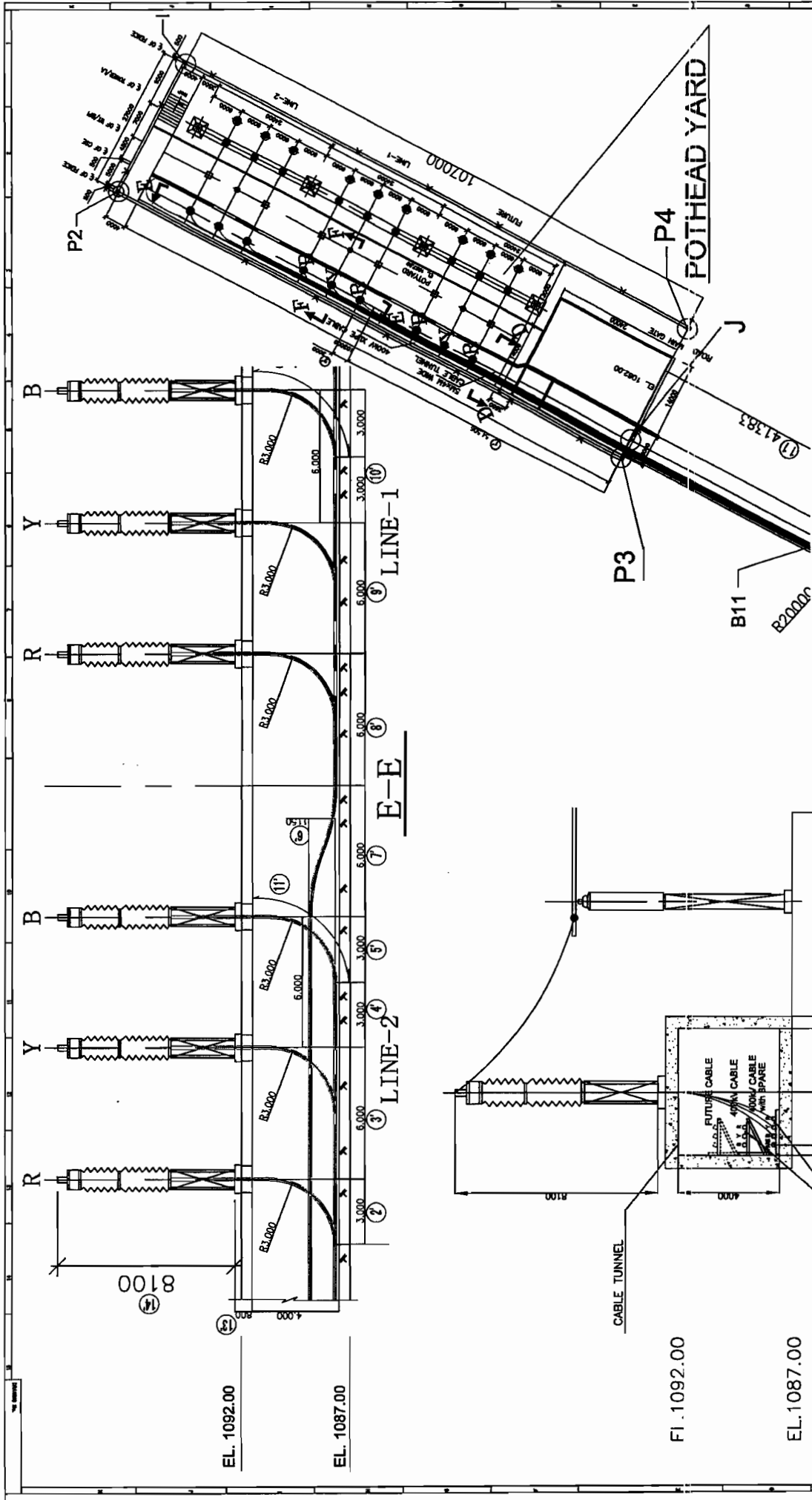
CUSTOMER		NHPC Limited (A CORP. OF INDIA ENTERPRISE)	
PROJECT		4 x 130 KV PARVATI - III HYDROELECTRIC PROJECT STAGE-III (E.P.)	
CONTRACT NO		NH/EP/PB-III/03/2005/1/6370 Dtd. 29. 12. 06	
SHEL P.O.No.		428A495/PROJECT DOC.NO./PBT III-XLP-01-00-001-03 REV.03	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL	
APPD BY	T.OHNO	DESIGNER	T.SUMINO
CHECKER	T.OHNO	SCALE	N.T.S
TRACER	T.SUMINO	DATE	Apr-23 2010
OVERALL ALIGNMENT OF 400KV CABLE		DRAWING NO. KED-10003	
REV		04	

REV.	DATE	APPD BY	T.OHNO	REV.	DATE	APPD BY	T.OHNO
02	Mar 18, 2010	CHECKER	T.SUMINO	01	Mar 18, 2010	CHECKER	T.SUMINO
		TRACER	T.SUMINO			TRACER	T.SUMINO
DATE/INITIAL OF AREVA DRAWING		DATE/INITIAL OF AREVA DRAWING		DATE/INITIAL OF AREVA DRAWING		DATE/INITIAL OF AREVA DRAWING	
F53A000508		F53A000508		F53A000508		F53A000508	



CUSTOMER	 <b>NHPC Limited</b> (A CORP. OF INDIA ENTERPRISES)	
	4 x 130 MW FACILITY - III HYDROELECTRIC PROJECT STAGE-III (ILL.)	
PROJECT	CONTRACT NO	WH/EP/PB-III/03/2008/1/6370 Dtd. 29. 12. 06
	BHEL P.O.No. CONTRACTOR	429A9495 PROJECT DOC.NO.PET III-XUP-01-00-0002-02 BHARAT HEAVY ELECTRICALS LTD.  BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL
	APPRO BY	T.S.MANO
	CHECKER	T.OHNO
	SCALE	N.T.S
	DATE	Apr-23 2010
	TRACER	T.S.MANO
400KV CABLE LENGTH AT CABLE CUM VENTILATION TUNNEL		TITLE DRAWING NO.
		KEY 0.5 KED-10004
 <b>Vishas Corporation</b> POWER CABLE ALLIANCE OF PUNJAB AND TAMILNADU, PUNJAB		

D-D										
	REV.	DATE	APPO BY CHECKER	REV.	DATE	APPO BY CHECKER	REV.	DATE Mar 10, 2010	APPO BY CHECKER	T.OHNO
			TRACER			TRACER			TRACER	T.SUMINO



<div><div>EARTH CONTINUITY CABLE</div><div><div><div>2102</div><div>(12)</div></div><div>R-F</div></div></div>										<div>EL.1082.00</div>																													
CUSTOMER										NHPC Limited (A CONT. OF NHPC ENTERPRISES)																													
PROJECT										4 x 130 KV PANDIT - III HYDROELECTRIC PROJECT STAGE-III (E.P.)																													
CONTRACT NO										NH/EP/PB-III/03/2005/1/8370 Dtd. 28. 12. 08																													
BHPL P.O.No.										429A495/PROJECT DOC.NO/PRT III-XLP-01-DD-003-02/REV.No.02																													
CONTRACTOR										BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL																													
APPROVED BY					T.SUNINGO					DESIGNER					T.SUNINGO					TITLE																			
CHECKER					T.SUNINGO					CHECKER					T.SUNINGO					SCALE					N.T.S														
TRACER					T.SUNINGO					TRACER					T.SUNINGO					DATE					Feb.05 2010														
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									
REV.										DATE										REV.										DATE									
CHECKER										TRACER										CHECKER										TRACER									
TRACER										TRACER										TRACER										TRACER									







VISCAS Corporation  
4-13-14, Higashi-Shinagawa, Shinagawa-Ku,  
Tokyo 140-0002 Japan  
TEL.+81-3-5783-1864 FAX.+81-3-5783-1885




DATE: Oct 15, 2010  
Ref. No.: KET-10086 (03)

## TECHNICAL DATA

TITLE : CABLE AND END TERMINALS  
SUPPORTING ARRANGEMENT  
[ FOR PROPOSAL ]

T.SUMINO  
Person in Charge

T.OHNO  
Manager of  
Engineering Department  
Overseas Engineering Division

CUSTOMER	 NHPC Ltd.				
PROJECT	4 x 130 MW Parbati - III Hydroelectric Project (H.P.)				
CONTRACT NO	NH/EP/PB-III/03/2005/I/6370 Dtd. 29.12.06				
BHEL P.O. No.	429A495 dtd.24.01.10	PROJ. DOC. No.	PBT III-XLP-03-TD-017-03	REV. No.	03
CONTRACTOR	 BHARAT HEAVY ELECTRICALS LIMITED				
TITLE	CABLE AND END TERMINALS SUPPORTING ARRANGEMENT [ FOR PROPOSAL ]				
					

## CONTENTS

TITLE	PROJECT DOC NO.	DRAWING NO.
1. Cable fixing cleat		
TypeA (Without striation type)	PBT III-XLP-03-DD-014-01	KED-10023A
TypeB (With striation type)	PBT III-XLP-03-DD-033-00	KED-10052
2. Supporting Structure for 400kV Outdoor Sealing End		
	PBT III-XLP-03-DD-018-02	KED-10025C
3. Cable support structure on floor		
For Line-2 350 pitch without cleat	PBT III-XLP-03-DD-020-02	KED-10027C
For Line-2 650 pitch without cleat	PBT III-XLP-03-DD-034-01	KED-10053B
For Line-2 350 pitch with cleat	PBT III-XLP-03-DD-022-02	KED-10029C
For Line-2 350 pitch with cleat at snake end		
	PBT III-XLP-03-DD-035-01	KED-10068B
For Line-2 650 pitch with cleat		
	PBT III-XLP-03-DD-036-02	KED-10054C
For Line-2 650 pitch with cleat at snake end		
	PBT III-XLP-03-DD-037-01	KED-10069B
4. Angle Support	PBT III-XLP-03-DD-019-01	KED-10026B
5. Supporting tray for cable cleat at snake end		
For Line-1 350 pitch	PBT III-XLP-03-DD-030-02	KED-10043C
For Line-2 350 pitch	PBT III-XLP-03-DD-038-01	KED-10071B
For Line-2 650 pitch	PBT III-XLP-03-DD-039-01	KED-10066B
6. Cable support structure		
For Line-1 350 pitch with cleat	PBT III-XLP-03-DD-016-02	KED-10020C
For Line-1 350 pitch without cleat	PBT III-XLP-03-DD-044-01	KED-10056B
For Line-1 350 pitch with cleat at snake end		
	PBT III-XLP-03-DD-017-02	KED-10021C
7. Pole		
L=2500	PBT III-XLP-03-DD-023-01	KED-10030B
L=3500	PBT III-XLP-03-DD-040-01	KED-10070B
L=4500	PBT III-XLP-03-DD-041-01	KED-10075B
8. Support for Pole	PBT III-XLP-03-DD-029-02	KED-10036C
9. Porcelain Insulator	PBT III-XLP-03-DD-024-00	KED-10031
10. Cable support structure at GIS sealing end		
L=4300	PBT III-XLP-03-DD-021-02	KED-10028C
L=3300	PBT III-XLP-03-DD-042-01	KED-10055B
11. Support for Link Box	PBT III-XLP-03-DD-025-00	KED-10032A

12.Reinforced cable support structure	PBT III-XLP-03-DD-043-01	KED-10073B
13.Cable support for parallel earth continuity conductor		
For Line-1	PBT III-XLP-03-DD-058-00	KED-10077
For Line-2	PBT III-XLP-03-DD-045-01	KED-10057B
14.Overall alignment of 400kV cable	PBT III-PYD-01-DD-001-06	KED-10003(06)
15. Cable route arrangement 1 (At GIS Room)	PBT III-XLP-03-DD-046-01	KED-10058B
16. Cable route arrangement 2 (A3-B5)	PBT III-XLP-03-DD-047-01	KED-10059B
17. Cable route arrangement 3 (B5-B5')	PBT III-XLP-03-DD-048-01	KED-10060B
18. Cable route arrangement 4 (B5'-B4)	PBT III-XLP-03-DD-049-01	KED-10061B
19. Cable route arrangement 5 (B4-B3)	PBT III-XLP-03-DD-050-01	KED-10062B
20. Cable route arrangement 6 (B3-A1)	PBT III-XLP-03-DD-051-01	KED-10063B
21. Cable route arrangement 7 (A1-B21)	PBT III-XLP-03-DD-052-01	KED-10064B
22. Cable route arrangement 8 (B21-B21')	PBT III-XLP-03-DD-053-01	KED-10065B
23. Cable route arrangement 9 (B21'-B12)	PBT III-XLP-03-DD-054-01	KED-10067B
24. Cable route arrangement 10 (B12-P3)	PBT III-XLP-03-DD-055-01	KED-10072B
25. Cable route arrangement 11 (At Pot Head Yard P3-P3')	PBT III-XLP-03-DD-056-01	KED-10074B
26. Cable route arrangement 12 (At Pot Head Yard P3'-)	PBT III-XLP-03-DD-060-01	KED-10079B

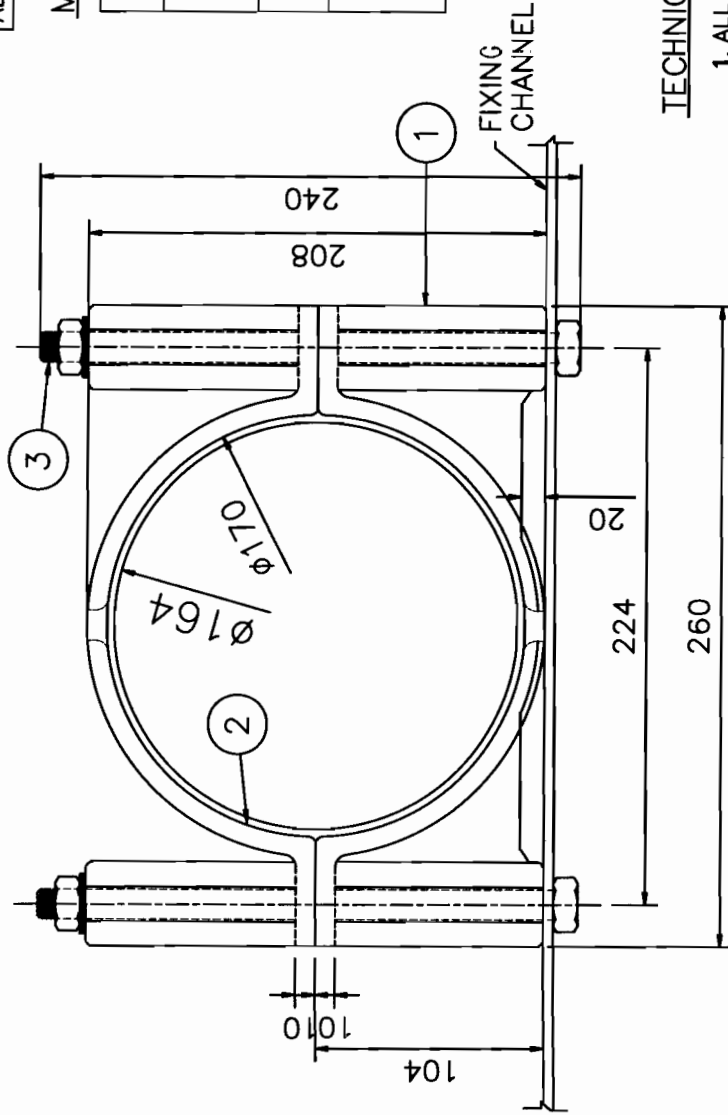
Note:Except item 1(cable fixing cleat,provided by VISCAS),all supporting structure shall be provided and installed by BHEL/NHPC.

			Cable Route Arrangement														1~12	+α
			1	2	3	4	5	6	7	8	9	10	11	12				
KED-10023A	cable fixing cleat type A	A-1	6	0	0	0	0	0	138	59	62	147	80	71	563	24	587	
KED-10052	Cable fixing cleat typeB	A-2	0	217	126	119	280	112	70	35	35	35	40	47	1116	30	1146	
KED-10025C	Supporting structure for 400kV Outdoor Sealing End	B	0	0	0	0	0	0	0	0	0	0	0	6	6	6	6	
KED-10026B	Angle support	C	0	29	27	26	40	15	31	24	24	39	32	29	316	10	326	
KED-10027C	Cable support structure on floor	D-1	0	4	12	12	0	5	6	11	11	24	4	0	89	4	93	
KED-10053B	Cable support structure on floor	D-2	0	0	0	0	0	0	0	0	0	0	11	2	13	13	13	
KED-10029C	Cable support structure on floor	D-3a	0	21	13	12	40	6	21	11	11	13	5	16	169	6	175	
KED-10068B	Cable support structure on floor	D-3b	0	4	2	2	0	4	4	2	2	2	2	0	24	3	27	
KED-10054C	Cable support structure on floor	D-4a	0	0	0	0	0	0	0	0	0	0	9	10	19	3	22	
KED-10069B	Cable support structure on floor	D-4b	0	0	0	0	0	0	0	0	0	0	2	2	4	4	4	
KED-10056B	Cable support structure(350pich)	SA-1	0	4	12	12	0	5	0	0	0	0	0	0	33	3	36	
KED-10020C	Cable support structure(350pich)	SA-2a	0	21	13	12	40	6	18	5	6	17	8	3	149	6	155	
KED-10021C	Cable support structure(350pich)	SA-2b	0	4	2	2	0	4	4	2	2	2	0	2	24	3	27	
KED-10028C	Cable support structure at GIS sealing end	E-1	3	0	0	0	0	0	0	0	0	0	0	0	3	3	3	
KED-10055B	Cable support structure at GIS sealing end	E-2	3	0	0	0	0	0	0	0	0	0	0	0	3	3	3	
KED-10030B	Pole(L=2,500)	F-1	64	0	0	0	0	0	0	0	0	0	0	21	85	4	89	
KED-10070B	Pole(L=4,000)	F-2	11	0	0	0	0	0	0	0	0	0	0	0	11	1	12	
KED-10075B	Pole(L=5,000)	F-3	6	0	0	0	0	0	0	0	0	0	0	0	6	1	7	
KED-10031	Porcelain Insulator	G	196	0	0	0	0	0	0	0	0	0	0	21	217	12	229	
KED-10032A	Support for Link box	H	2	0	0	0	0	0	0	0	0	0	0	2	4	4	4	
KED-10036C	Support for Pole	I	196	0	0	0	0	0	0	0	0	0	0	21	217	12	229	
KED-10043C	Supporting tray for cable cleat at snake end(L1 350pich)	J-1	0	2	1	1	0	2	2	1	1	1	0	1	12	12	12	
KED-10071B	Supporting tray for cable cleat at snake end(L2 350pich)	J-2	0	2	1	1	0	2	2	1	1	1	1	0	12	12	12	
KED-10066B	Supporting tray for cable cleat at snake end(L2 650pich)	J-3	0	0	0	0	0	0	0	0	0	0	1	1	2	2	2	
KED-10073B	Reinforced cable support	K	0	2	1	1	0	2	2	1	1	1	0	1	12	12	12	
KED-10077	Support for earth continuity cable(Line-1)	L	57	29	27	26	40	15	31	24	24	39	32	18	362	30	392	
KED-10057B	Support for earth continuity cable(Line-2)	M	0	29	27	26	40	15	31	24	24	39	33	30	318	30	348	



## MATERIAL LIST

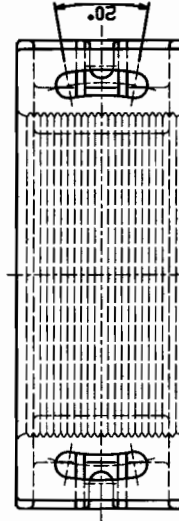
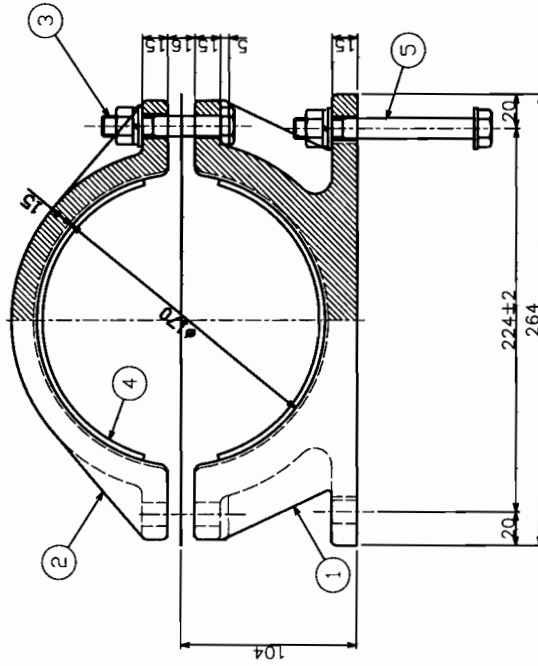
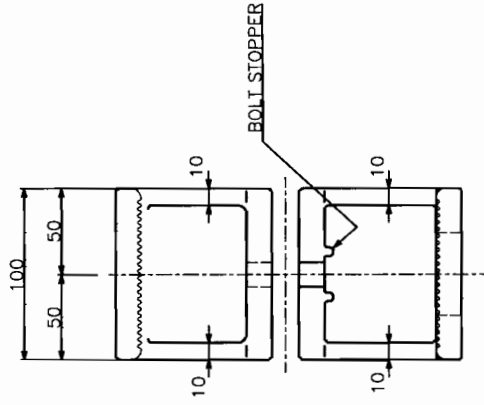
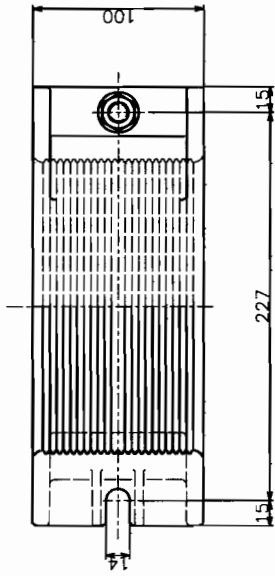
REF. No.	DESCRIPTION	MATERIAL	QTY
1.	CONNECTOR BODY	CAST ALUMINIUM ALLOY TO BS1490:1968 LM6	2
2.	3MM THICK RUBBER WITH 120MM LENGTH 540MM	NEOPRANE RUBBER	1
3.	M12X240 BOLT AND NUT WITH ONE PLAIN AND ONE SPRING WASHER	STAINLESS STEEL SUS304	2

1. ALL DIMENSIONS ARE IN MM
2. ALL THE SHARP CORNERS ARE ROUNDED OFF SMOOTHLY
- 3 MANUFACTURING TOLERANCE :  $\pm 3\text{MM}$
- 4 SHORT CIRCUIT CURRENT RATING 50 KA FOR 1 SEC

[illegible]

A

CUSTOMER	 <b>NHPC Limited</b> (A GOVT. OF INDIA ENTERPRISE)			
PROJECT	4 x 150 MW PARBATS - III INTERMEDIATE PROJECT STAGE-III (ILP-I)			
CONTRACT NO	NH/EP/PB-III/03/2008/7/8370 Dtd. 28. 12. 08			
BHEL P.O.NG.	428A498/PROJECT DOC.NO./PBT II-XLP-03-00-014-01 REV.NO.01			
CONTRACTOR	BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL			
APPD BY	TDND	DESIGNER	T.SUMING	TITLE
CHECKER	TDND	SCALE	N.T.S	CABLE FIXING CLEAT type A
TRACER	T.SUMING	DATE	Apr-23 2010	(without strlation type)
 <b>VGC Western Corporation</b> POWER CABLE ALLIANCE OF TAIWAN AND FLORIDA, USA				DRAWING NO. KED-10023 REV A



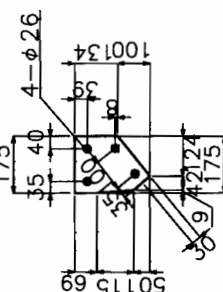
A-2

No.	DISCRIPTION	MATERIAL	Q'ty	REMARKS
5	HEXAGON HEAD BOLT	SUS304	2	M12x90L,N,W,SW
4	RUBBER SPACER (BOND TO CLEAT)	Neoprene	1	110x450x4 t
3	BOLT M12x70	SUS304	2	with W,SW,N
2	MAIN B	Aluminum Alloy	1	
1	MAIN A	Aluminum Alloy	1	

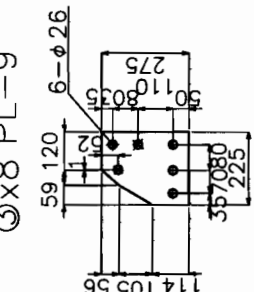
CUSTOMER		<b>NHPC Limited</b> A DIV. OF NH&P	
PROJECT	4 x 110 kV FURNACE - III EXTENDING PROJECT STAGE-III (L.P.)		
CONTRACT NO	NH/EP/PB-III/03/2008/7/6370 Dtd. 28. 12. 08		
BHEL P.O.No.	429A485/PROJECT DOC.NO./PMT III-XLP-03-00-033-00/REV.NO.-00		
CONTRACTOR	BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL		
APPD BY	DESIGNER	T.SUMIND	TITLE
CHECKER	SCALE	NTS	CABLE FIXING CLEAT type B
TRACER	DATE	July 7, 2008	(with striation type)
DRAWING NO.			REV
KED-10052			

**NHPC** **Power Cables Corporation**  
POWER CABLE ALLIANCE OF FUKUYAMA AND FUJIKAWA, JAPAN

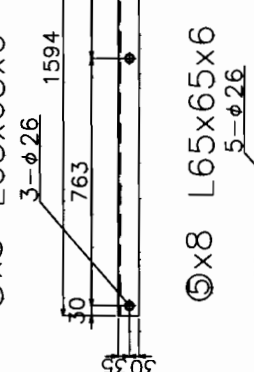
2x8 PL-9



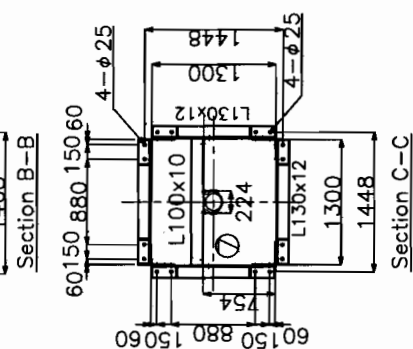
Hole size : 6 -  $\Phi$ 35



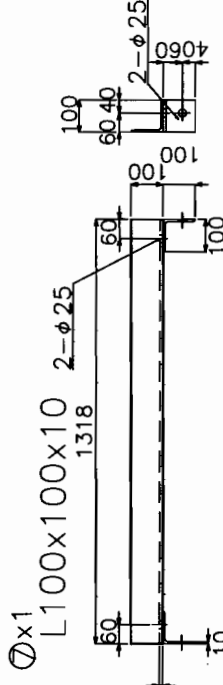
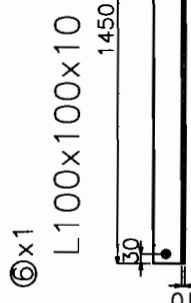
Copyright © 2000 by John Wiley & Sons, Inc.



3--026



⑨x17

 $\mathbb{D}^{\times 1}$ 

BOLT M20 with W,N,N,SW

ALL MATERIALS ARE IS2026(E250)  
HOT DIP GALVANIZED  
UNLESS OTHERWISE SPECIFIED


400KV  
XLPE CABLE

UNLESS OTHERWISE SPECIFIED

No.		DISCRIPTION	MATERIAL	Q'ty	REMARKS
3					
2					
1					

REV.	DATE	APPD BY	REV.	DATE	APPD BY
		CHECKER			CHECKER
		TRACER			TRACER

APPD BY	DESIGNER	TJ:IND	T.SUMIND	TITLE
CHECKER		SCALE	N.T.S	Supporting Structure for
TRACER		DATE	Oct 15/2010	400kV Outdoor Sealing End



**TVP Inc.**  
POWER CABLE ALLIANCE OF CANADA

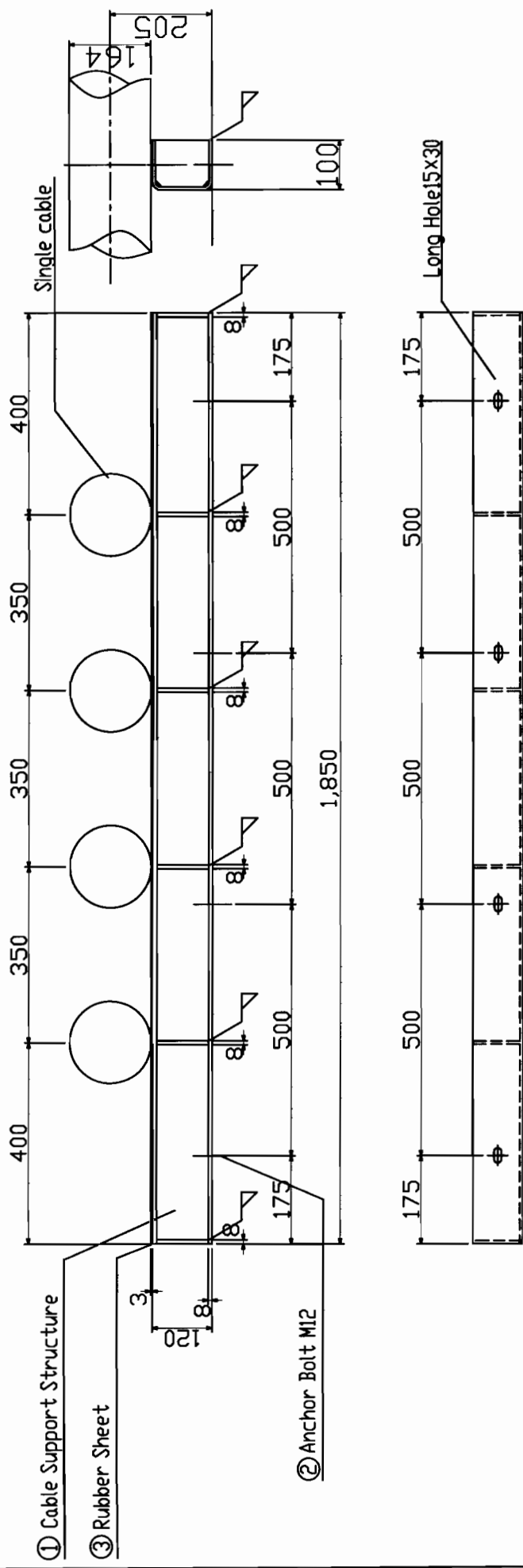
DRAWING NO.	KED-10025	REV	C
-------------	-----------	-----	---



IS 2062 (E250) with Hot galvanized steel

1,850

100



IS2062(E250) with Hot galvanized steel

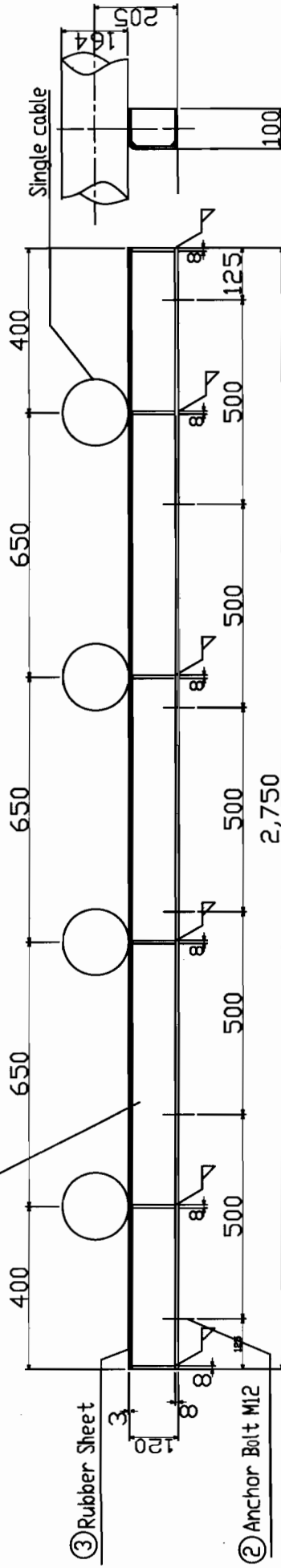
D-1

CUSTOMER		NHPC Limited		A UNIT, 6th FLOOR, 100/100	
PROJECT		4 x 130 MW PAUNATHI - III HYDROELECTRIC PROJECT PHASE-III (B.P.)			
CONTRACT NO		NH/EP/PB-II/03/2005/1/6370 Dtd. 29. 12. 08			
BHEL P.O.No.		4394485/PROJECT DOC.NO/PT II-XII-03-05-02-03/REV.A/03			
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD.			
DESIGNER		T.SUMIND		TITLE	
CHECKER		T.SUMIND		SCALE	
TRACER		T.SUMIND		DATE	
REV.		DATE		REV.	
1		t=3 bonding to support structure		Cable support structure on floor	
2		IS2062(E250)		M12	
3		IS2062(E250)		t=8	
DISCUSSION		REMARKS			
MATERIAL		Q'ty			
No.					
				DRAWING NO.	
				KED-10027	
				REV	
				C	

2,750



① Cable Support Structure






③ Rubber Sheet

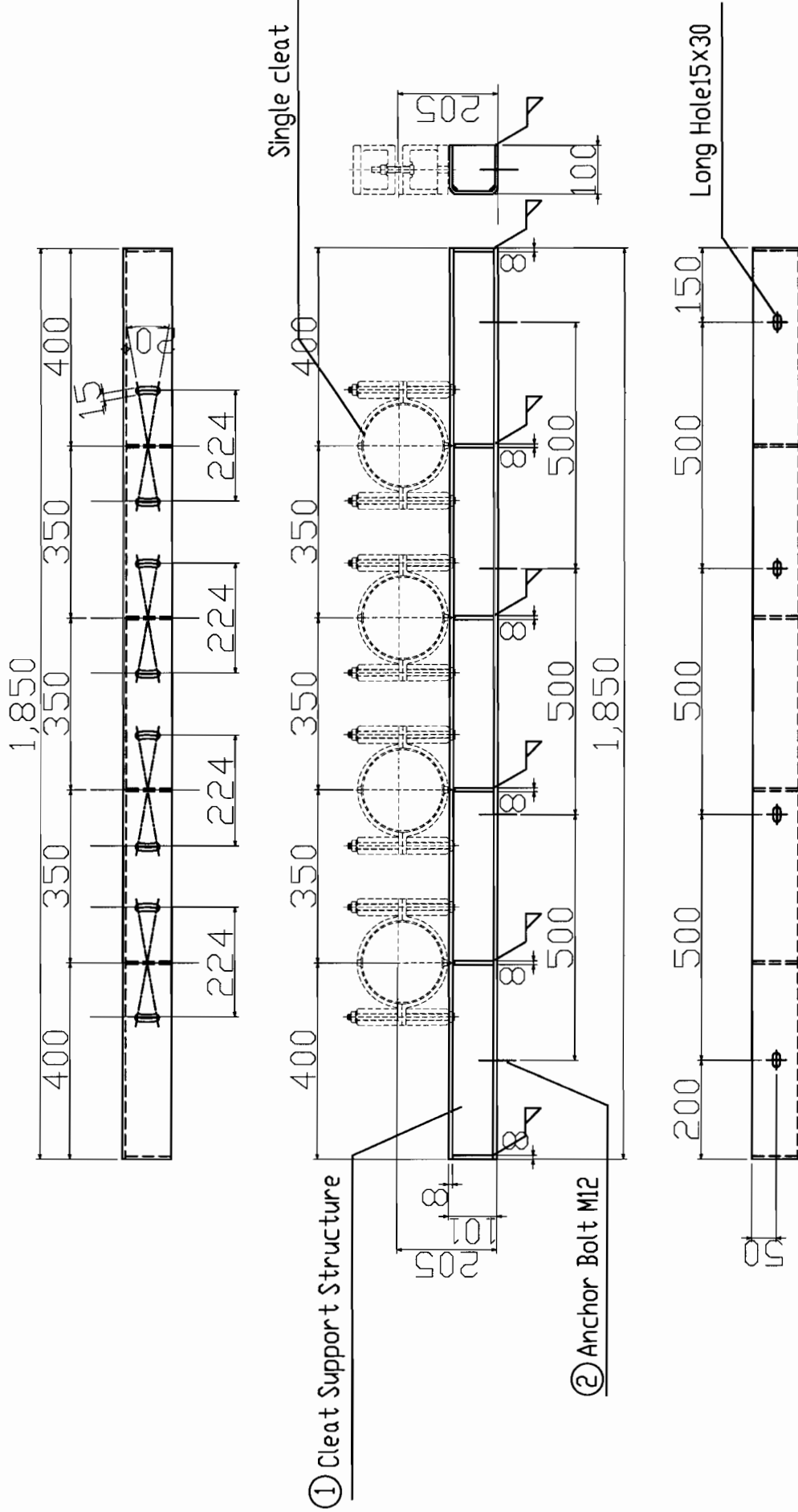
② Anchor Bolt M12

IS2062(E250) with Hot galvanized steel

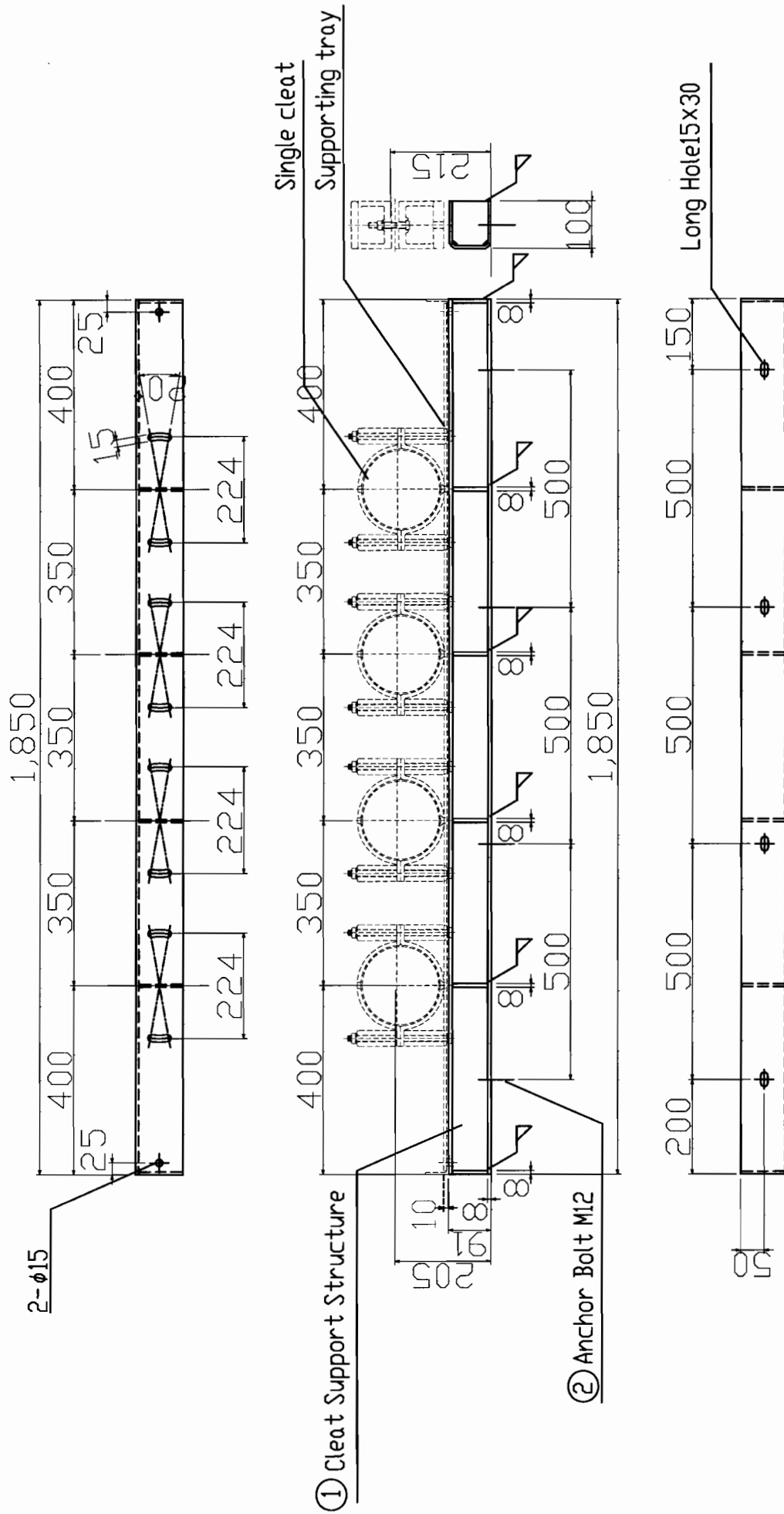
D-2

No.	DISCUSSION	MATERIAL	Q'ty	REMARKS
3	RUBBER SHEET	RUBBER	1	t=3 bonding to support structure
2	Anchor Bolt	IS2062(E250)	4	M12
1	Cleat Support structure	IS2062(E250)	1	t=8

CUSTOMER	 <b>NHPC Limited</b> (A UNIT OF NHPC LIMITED)			
PROJECT	4 x 130 KV PABHATI - III HYDROELECTRIC PROJECT STAGE-III (B.P.)			
CONTRACT NO	NH/EP/PB-III/03/2008/1/4370 Dtd. 28. 12. 08			
BHEL P.O.No.	423A485/PROJECT DOC.NO./PBT III-2EP-03-30-034-02 REV.No.02			
CONTRACTOR	 <b>BHARAT HEAVY ELECTRICALS LTD.</b> TRANSMISSION PROJECTS DIVISION, BHOPAL			
APPD BY	TDND	DESIGNER	T.SUMIND	TITLE
CHECKER	TDND	SCALE	M:1.5	Cable support structure on floor
TRACER	T.SUMIND	DATE	Oct 15, 2008	(for LINE-2 650pitch without cleat)
 <b>TVC</b> <i>Viscont Corporation</i>				REV
POWER CABLE ALLIANCE OF THERAKANA AND FULIDHARA, JODHPUR				B
				DRAWING NO. KED-10053

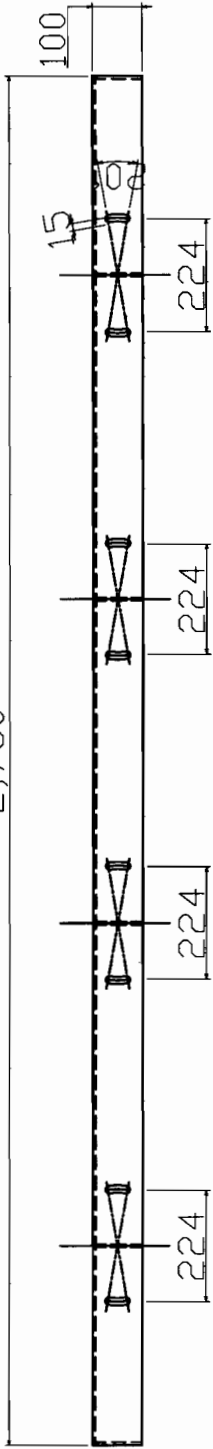


--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



CUSTOMER		NHPCL Limited	
PROJECT		4 x 150 MW PAKISTAN - III HYDROELECTRIC PROJECT STAGE-III (H.P.)	
CONTRACT NO		NH/EP/PB-III/03/2005/1/370 Dtd. 28. 12. 08	
INVEL P.O.No.		4294485/PROJECT DOC.NO/PT III-2LP-03-00-038-02 REV.02	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD.	
APPROVED BY		DESIGNER	
CHECKER		SCALE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	
REV.		DATE	
APPROVED BY		DATE	
CHECKER		DATE	
TRACER		DATE	

2,750



① Cable Support Structure

400

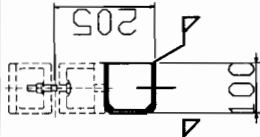
650

650

650

400

Single cleat



② Anchor Bolt M12

125

500

500

500

500

500

125

8

125

Long Hole 15x30

125

500

500

500

500

500

125

8

125

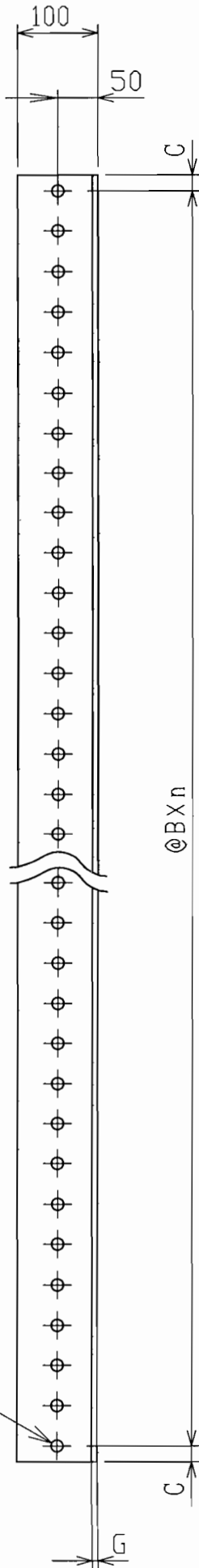
IS2062(E250) with Hot galvanized steel

D-4a

IS2062(E250) with Hot galvanized steel									
D-4a									
CUSTOMER		NHPCL Limited (SHELF OF INDIA CORPORATION)							
PROJECT		4 x 138 MW PAKISTAN - III HYDROELECTRIC PROJECT STAGE-III (S.P.)							
CONTRACT NO.		NH/EP/PB-III/03/2003/1/370 Dtd. 28. 12. 08							
BHEL P.O.No.		423A/05/PROJECT DOC.NO/INT III-SEP-05-00-038-03 REV/M2/05							
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL							
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE		APPD BY		CHECKER		TRACER	
REV.		DATE</							

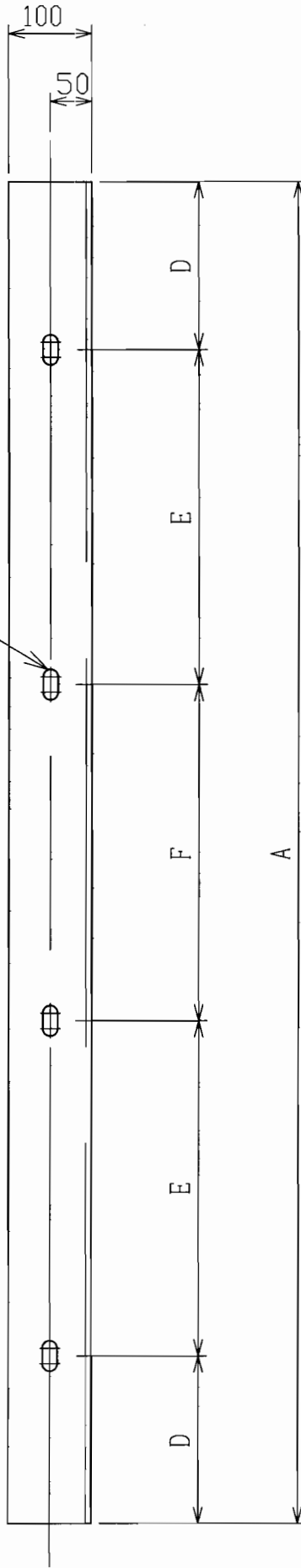


Ø15



@B X n

18x36



DIMENSION TABLE

	A	B	C	D	E	F	G	n
2700	2700	50	25	120	820	820	7	53

L100x100x7t  
IS2062(E250)Hot-Dip Galvanized Steel  
Anchor Bolt M16x4pcs

C

CUSTOMER	NHPC Limited NORTH INDIA DIVISION		
PROJECT	4 x 130 MW PARVATI - III HYDROELECTRIC PROJECT STAGE-III (H.P.)		
CONTRACT NO	NH/EP/PB-III/03/2005/7/4370 Dtd. 28.12.08		
BHEL P.O.No.	429A4851/PROJECT DOC.NO/INT H-2LP-03-00-019-02 REV/No.02		
CONTRACTOR	BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL		
APPD BY	T.D.HQ	DESIGNER	T.SUMIND
CHECKER	T.D.HQ	SCALE	NTS
TRACER	T.SUMIND	DATE	Dec-15-2010
REV.	DATE	REV.	DATE
APPD BY	CHECKER	APPD BY	CHECKER
CHECKER	TRACER	CHECKER	TRACER
TRACER		TRACER	
TITLE Angle Support			
DRAWING NO. KED-10026			
REV. B			

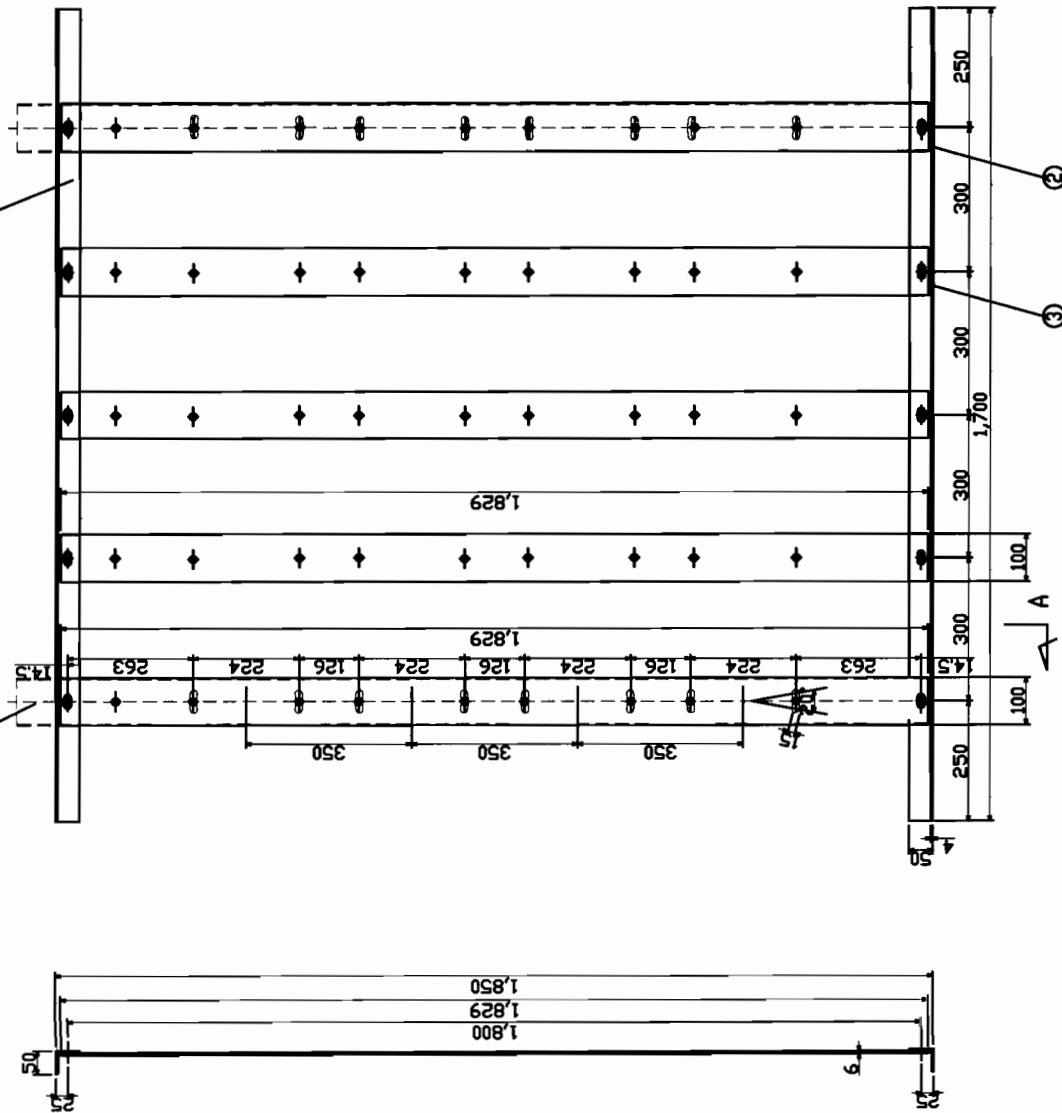




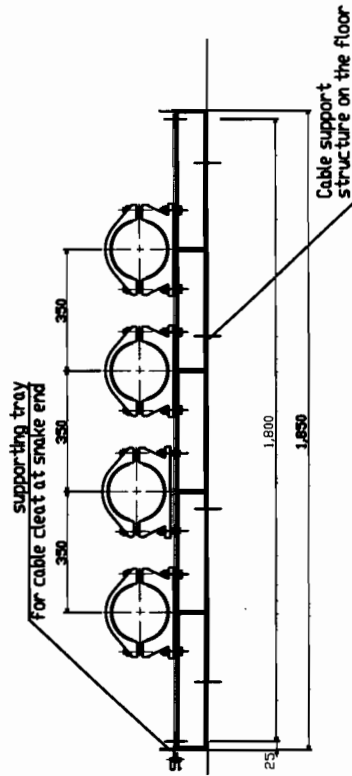
1,200

① Cable Ladder

Cable support structure on the floor



supporting tray  
for cable cleat at snake end

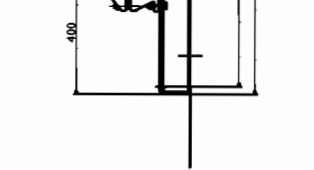
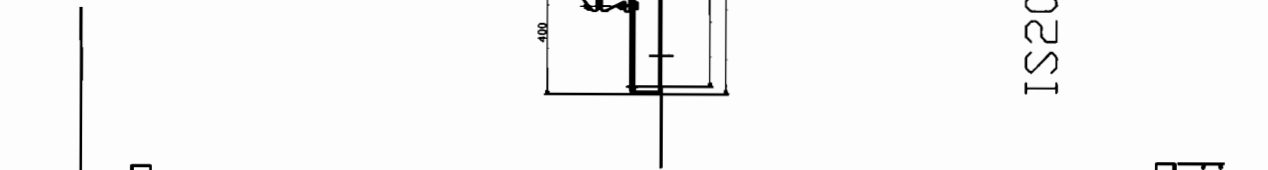


AA Section

IS2062(E250) With hot dip galvanized

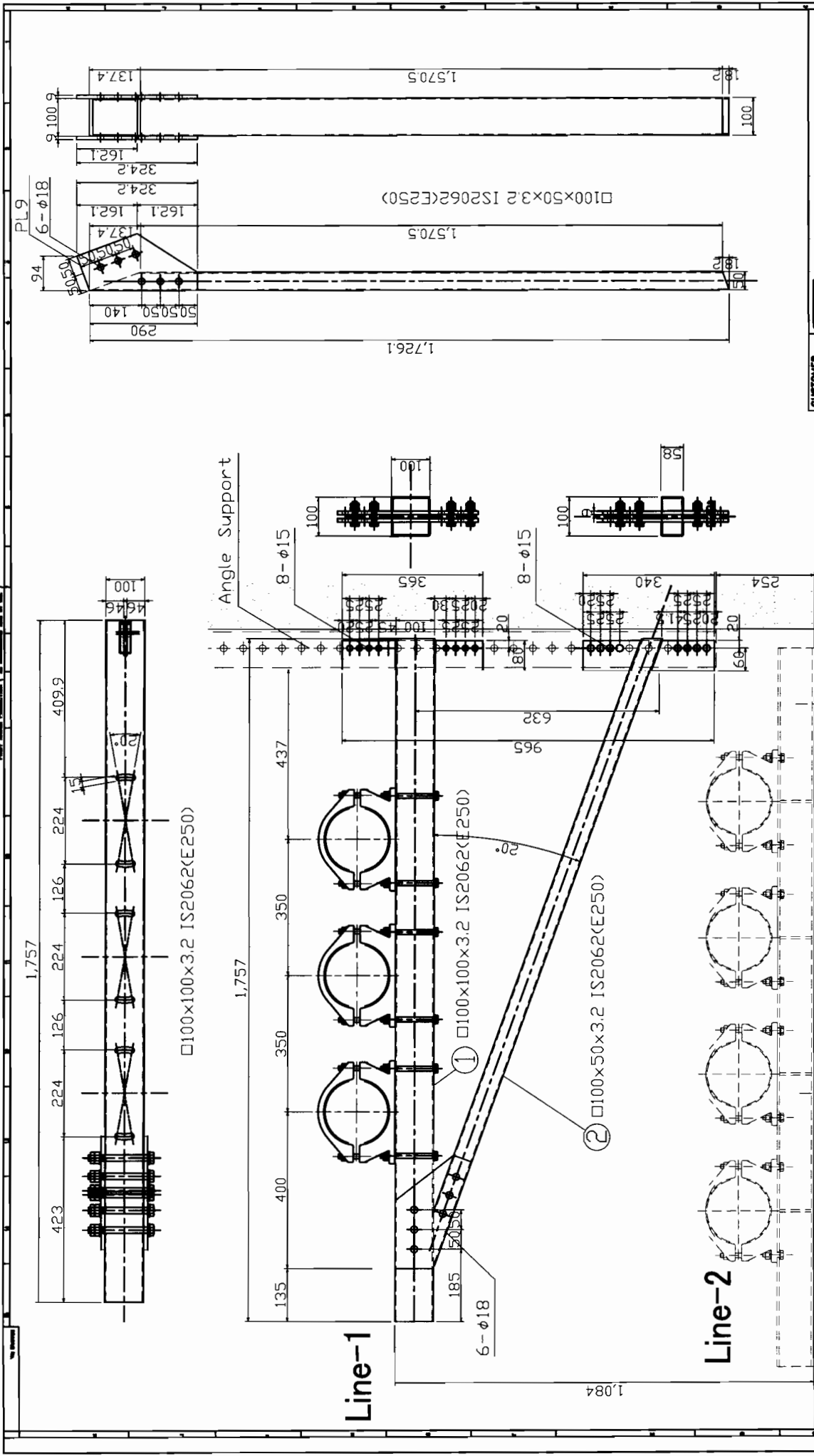
J-2

<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>									
--	--	--	--	--	--	--	--	--	--



021

[illegible]



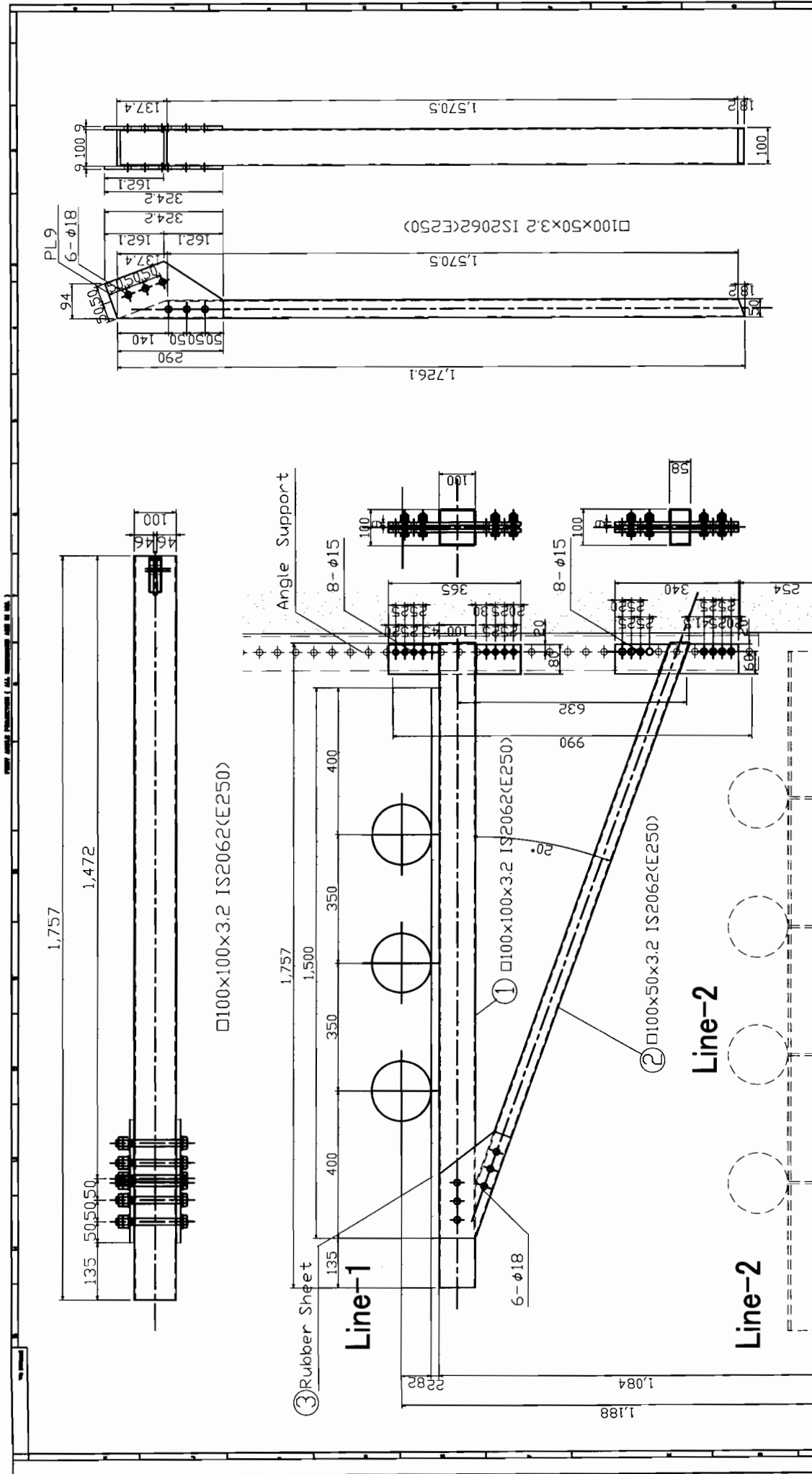
Cable support structure on floor

**SA-2a**

IS2062(E250)  
Hot dip galvanized

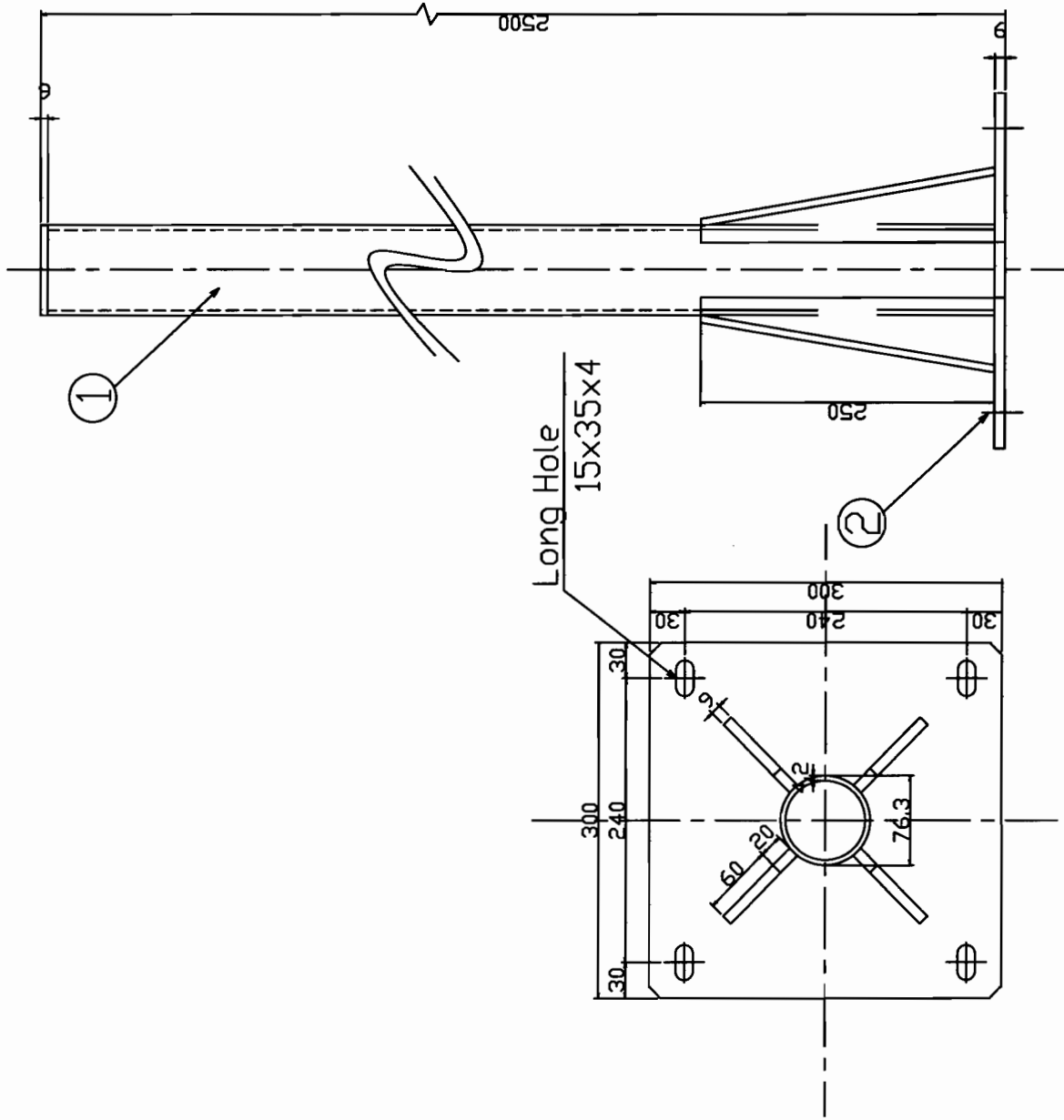
No.	DISCRIPTION	MATERIAL	Q'ty	REMARKS
4	Bolt	IS2062(E250)	6	M16
3	Bolt	IS2062(E250)	8	M12×55 N.C.N.P.W2
2	Supporting Structure	IS2062(E250)	1	□100×50×3.0
1	Supporting Structure	IS2062(E250)	1	□100×100×3.0

CUSTOMER		NHPC Limited	
PROJECT		4 x 138 MW PROJECT - III HYDROELECTRIC PROJECT BHARAT-III (H.P.)	
CONTRACT NO.		NH/EP/PB-III/03/2005/7/4370 DNL. 29. 12. 04	
BHEL P.O.No.		4284485 PROJECT DOC.NO.PBT III-XLP-03-00-016-03 REV.A4.03	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL	
APP'D BY	TD/MD	DESIGNER	T.SUMIND
CHECKER	TD/MD	SCALE	N.T.S
TRACER	T.SUMIND	DATE	1 Oct 15, 2010
DRAWING NO.		KED-10020	
REV		C	



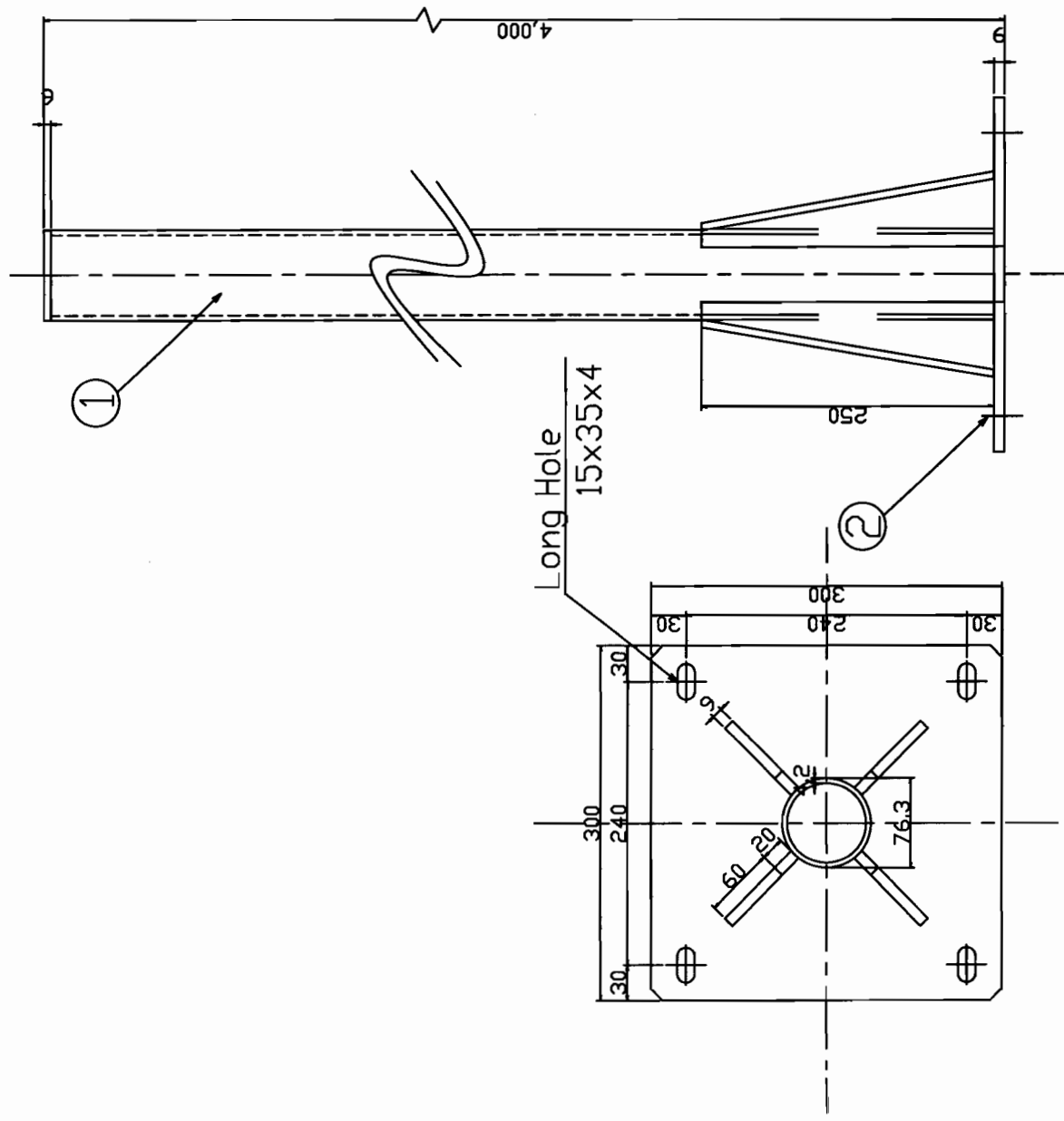
CUSTOMER		NHPC Limited		NHPC Limited	
PROJECT		4 x 138 MW PUMPSET - III RECONSTRUCTION PROJECT STAGE-III (N.P.)		CONTRACT NO. NH/EP/PS-III/03/2008/17370 Dtd. 28.12.08	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD.		BHARAT HEAVY ELECTRICALS LTD.	
CONTRACTOR		TRANSMISSION PROJECTS DIVISION, BHOPAL		BHARAT HEAVY ELECTRICALS LTD.	
APPROVED BY		DESIGNER		TITLE	
CHECKER		SCALE		N.T.S.	
TRACER		DATE		Dec 15, 2010	
APPROVED BY		CHECKER		TRACER	
REMARKS		Cable support structure		(For Line-1 350 pitch snake portion w/o cleat)	
DISCUSSION		MATERIAL		Q'ty	
No.		DESCRIPTION		REMARKS	
5	Bolt	IS2062(E250)	6	M16	
4	Bolt	IS2062(E250)	8	M12x55 N,CN,PW2	
3	Rubber Sheet	RUBBER	1	t=22 bonding to supporting structure	
2	Supporting Structure	IS2062(E250)	1	100x50x3.2	
1	Supporting Structure	IS2062(E250)	1	100x100x3.2	
DRAWING NO.		KED-10056		REV	
PROJECT		SA-1		SA-1	
CONTRACT NO.		IS2062(E250)		Hot dip galvanized	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD.		TRANSMISSION PROJECTS DIVISION, BHOPAL	





F-1

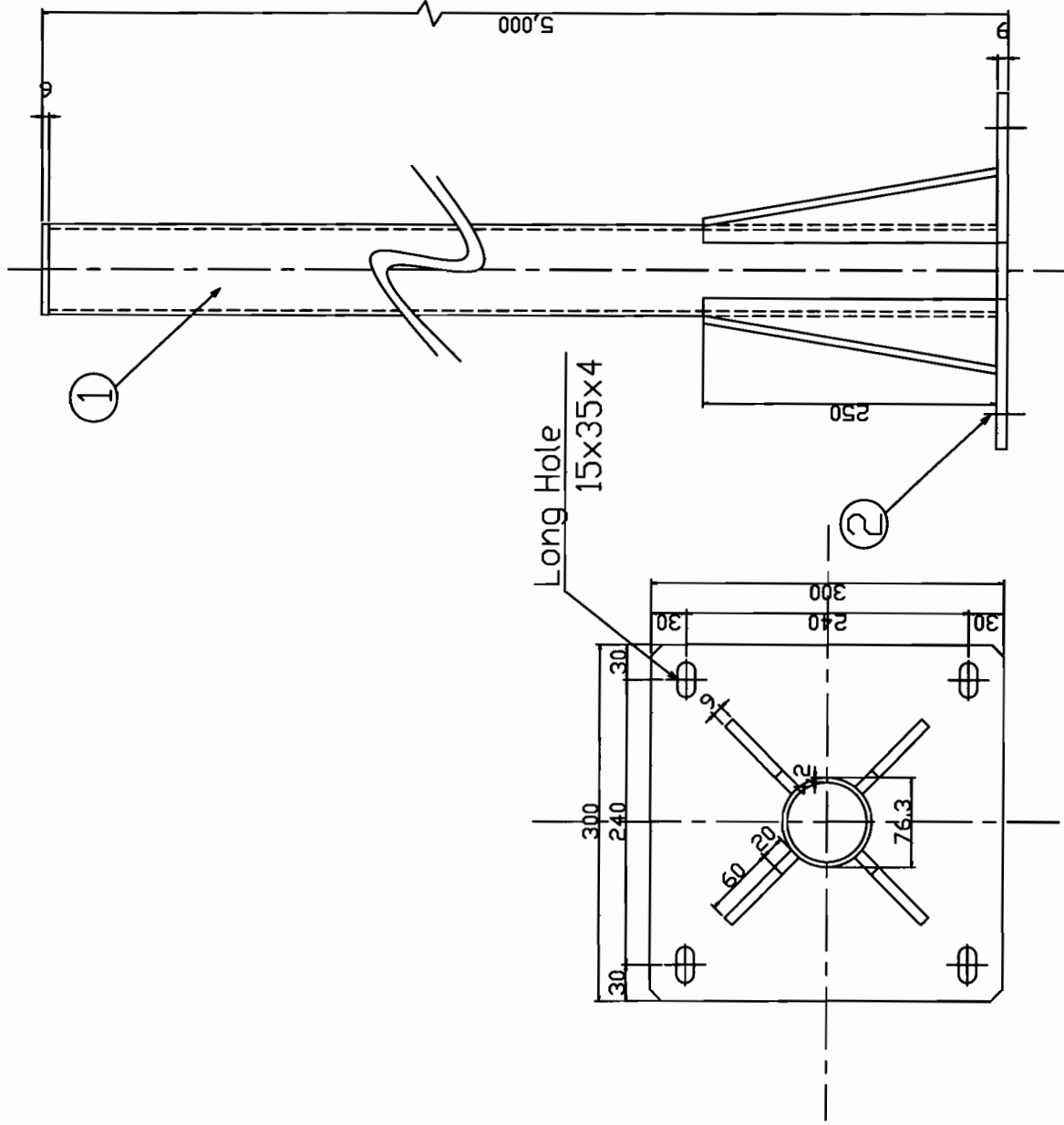
CUSTOMER		<b>NHPC</b> <i>NHPC Limited</i> (GOVT. OF INDIA EMPLOYEES)	
PROJECT		4 x 132 KV FEEDER - III HYDROELECTRIC PROJECT STAGE-III (I.P.)	
CONTRACT NO		NH/EP/PB-III/03/2005/1/6370 DNL 29. 12. 08	
BHNL P.O.No.		429A495/PROJECT DOC.NO/PT III-ILP-03-00-03-02	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL	
APPD BY	DESIGNER	T.SUMIND	TITLE
CHECKER	SCALE	NTS	
TRACER	DATE	DEC 15 2010	
REV.	DATE	APPD BY	REV.
		CHECKER	
		TRACER	
No.		DISCRIPTION	MATERIAL
2	ANCHOR BOL T	IS2062(E250)	4
1	POLE	IS2062(E250)	1
REMARKS			
Pole(L=2,500)			
DRAWING NO.		KED-10030	
REV.		B	



F-2

CUSTOMER		NHPC Limited A UNIT OF NHPC (GOVT. OF INDIA ENTERPRISE)	
PROJECT		4 x 130 MW PAKISTANI - III HYDROELECTRIC PROJECT STAGE-III (I.L.P.)	
CONTRACT NO.		NH/EP/PB-III/03/2005/1/0370 Dtd. 28. 12. 08	
BHEL P.O.No.		439A485/PROJECT DOC.NO./PMT III-XLP-03-00-040-02	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL	
APPD BY	T.SUMINO	DESIGNER	T.SUMINO
CHECKER	T.SUMINO	SCALE	N.T.S
TRACER	T.SUMINO	DATE	Oct 15, 2010
TITLE		Pole(L=4,000)	
DRAWING NO.		KED-10070	
REV		B	

No.	DISCRIPTION	MATERIAL	Q'ty	REMARKS
2	ANCHOR BOLT	IS2062(E250)	4	M12
1	POLE	IS2062(E250)	1	

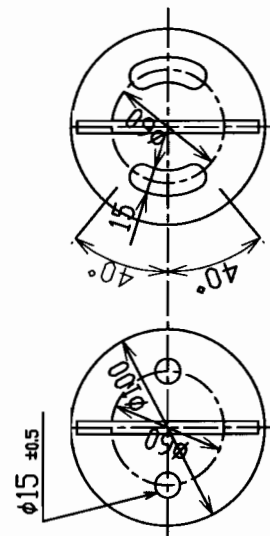


F-3

CUSTOMER	NHPC Limited A UNIT OF NHPC LIMITED		
PROJECT	4 x 132 MW PABHATI - III HYDROELECTRIC PROJECT STAGE-III (ILP.)		
CONTRACT NO.	NH/EP/PB-III/03/2008/4370	DATE	29.12.08
BHEL P.O.No.	428AA485	PROJECT DOC.NO.	PWT III-SLP-03-00-041-02
CONTRACTOR	BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL		
APPRD BY	T.DND	DESIGNER	T.SUMIND
CHECKER	T.DND	SCALE	NTS
TRACER	T.SUMIND	DATE	04.15.2010
TITLE		Pole(L=5,000)	
DRAWING NO.		KED-10075	
REV		B	

No.	DISCRIPTION	MATERIAL	Q'ty	REMARKS
2	ANCHOR BOLT	IS2062(E250)	4	M12
1	POLE	IS2062(E250)	1	



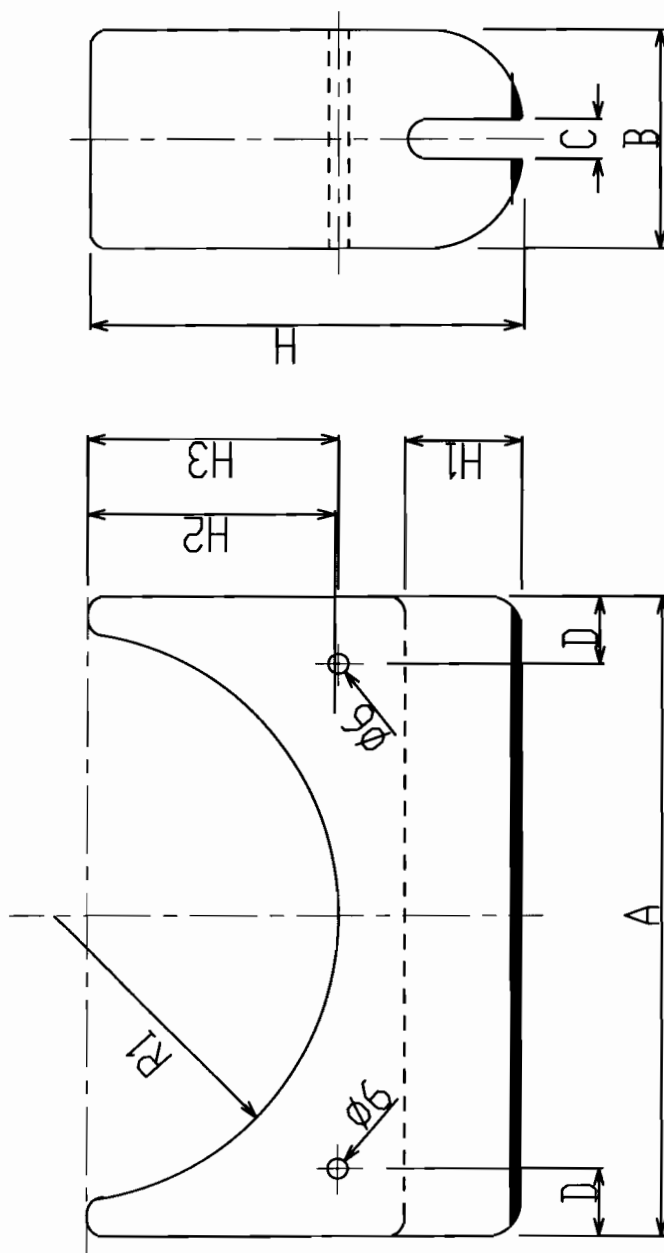


A-A-B-B

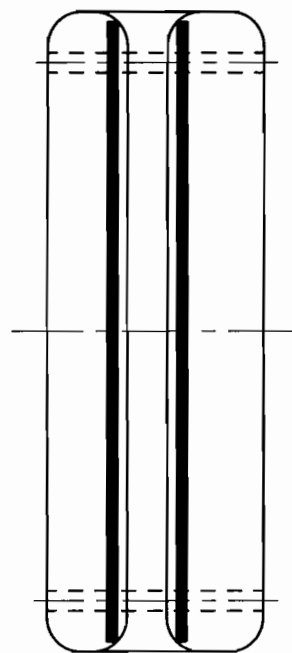
**VLC** *Wires Corporation*  
POWER CABLE ALLIANCE OF FUKUKAWA AND FUKUOKA, JAPAN

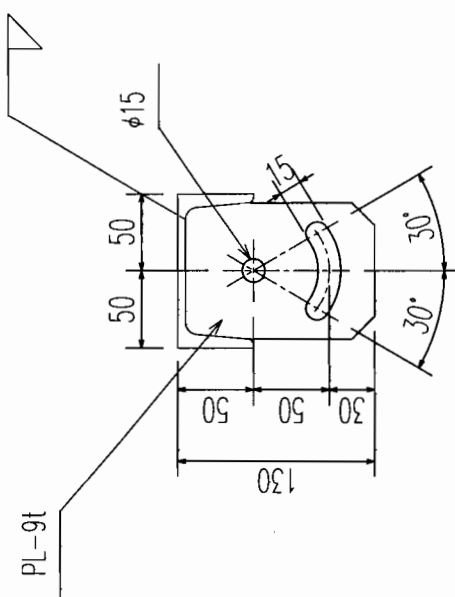
DRAWING NO. KED-10036

REV. C



TYPE	A	B	C	D	H	H1	H2	H3	R1
R50	120	65	12	15	90	30	40	40	50
R65	150	65	12	20	110	35	55	55	65
R75	170	65	12	20	120	35	65	65	75
R85	190	65	12	20	130	35	75	75	85
R95	220	80	12	25	150	40	85	85	95
R110	260	80	13	30	170	40	100	100	110
R135	330	80	13	35	195	40	125	115	135

[illegible]



GIS termination weight load : Approx. 450kgs

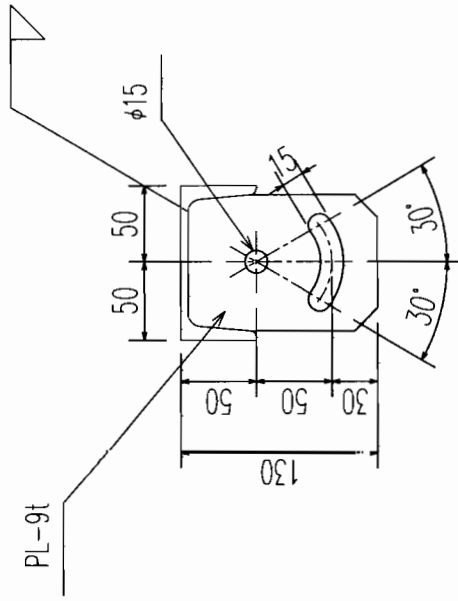
A 99

**ALL MATERIALS ARE IS2062(E250)  
WITH HOT DIP GALVANIZED**

三

<div><div>E-1</div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>&lt;/</div></div></div></div></div></div>									
--	--	--	--	--	--	--	--	--	--

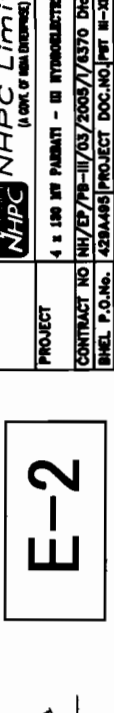
**ALL MATERIALS ARE IS2062(E250)  
WITH HOT DIP GALVANIZED**



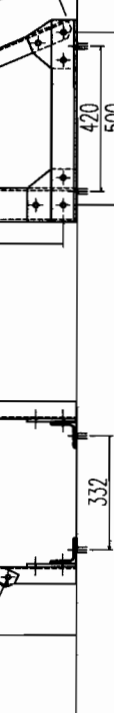
66 A 99

**E-2**

# E-2



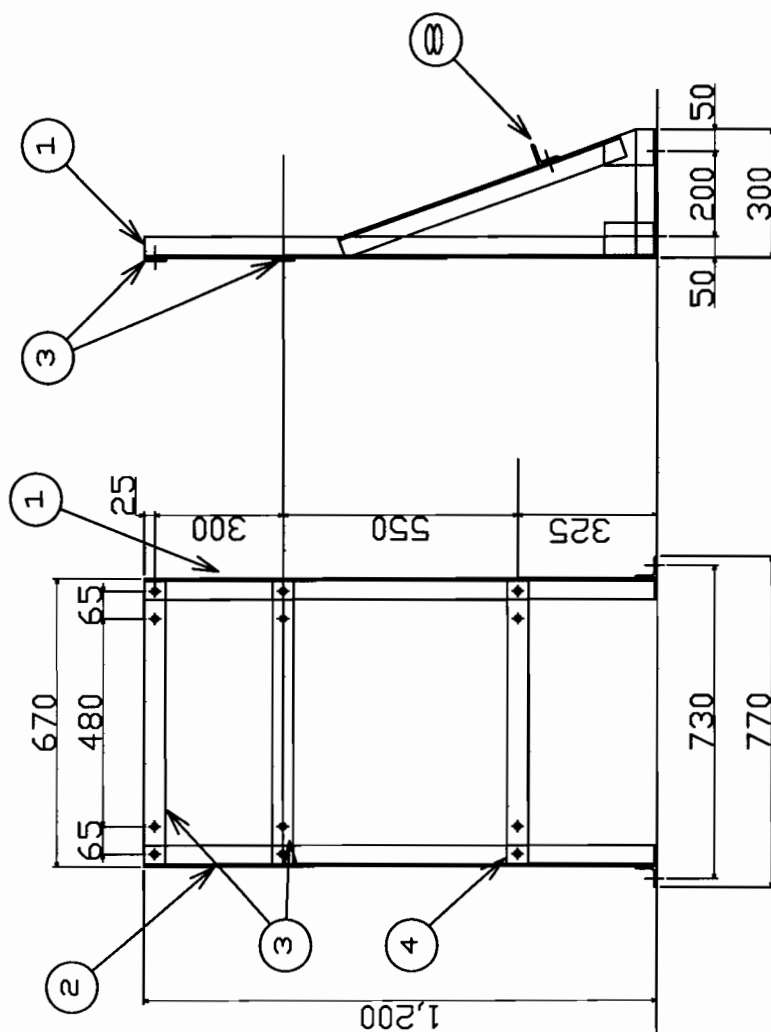
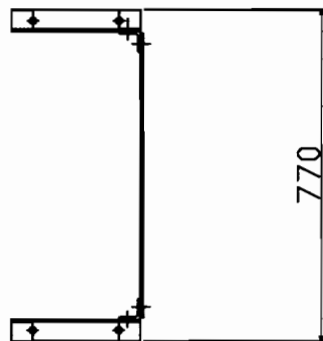
<b>NHPC Limited</b> <small>(A GOVT. OF INDIA ENTERPRISE)</small>		<b>CUSTOMER</b>	
<b>PROJECT</b>		<b>PROJECT</b>	
4 x 150 MM <sup>2</sup> PAPERBURY - III HYDROELECTRIC PROJECT STAGE-III (N.L.P.)		CONTRACT NO. NH/EP/PB-III/03/2008/1/0370 Dtd. 29. 12. 08 BHEL P.O.NG. 428A485[PROJECT DOC.NO]PBT III-512-03-00-02-02[REV.M6.02] <b>CONTRACTOR</b>	
<b>BHARAT HEAVY ELECTRICALS LTD.</b> <b>TRANSMISSION PROJECTS DIVISION, BHOPAL</b>		<b>CONTRACTOR</b>	
APPROD BY	T.O.NO	DESIGNER	T.SUMINO
CHECKER	T.O.NO	SCALE	N.T.S
TRACER	T.SUMINO	DATE	Oct 15,2010
Cable support structure at GIS sealing end(L=3,800)		DRAWING NO. KED-10055 REV. B	





REV.	DATE	APPROD BY	REV.	DATE	APPROD BY	REV.	DATE
		CHECKER			CHECKER		
		TRACER			TRACER		

[illegible]

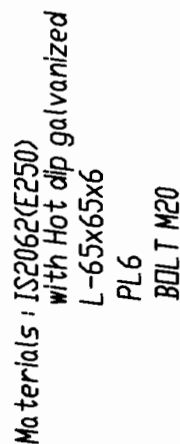
8	L50 x 50 x 6		IS2062(E250)	1					
7	Anchor Bolts		IS2062(E250)	4	M12,S.V,P,W				
6	Bolts for Link Box		IS2062(E250)	4	M12xL65,N,S,V,P,W,X2				
5	Bolts & Nuts		IS2062(E250)	8	M12xL40,N,S,V,P,W,X2				
4	F.B(Flat Bar) 6t		IS2062(E250)	1					
3	F.B(Flat Bar) 6 t		IS2062(E250)	2					
2	L50 x 50 x 6		IS2062(E250)	1	Opposite side of No1				
1	L50 x 50 x 6		IS2062(E250)	1					
No.	DESCRIPTION		MATERIAL	Q'ty	REMARKS				

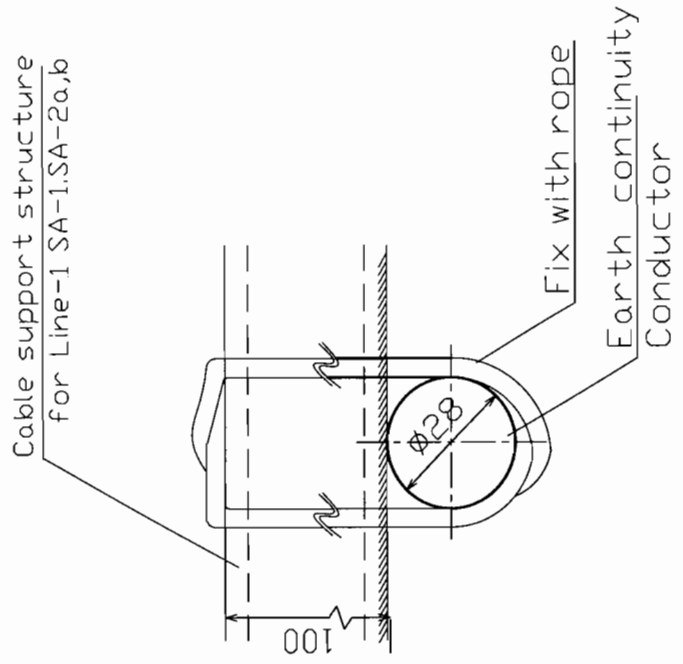
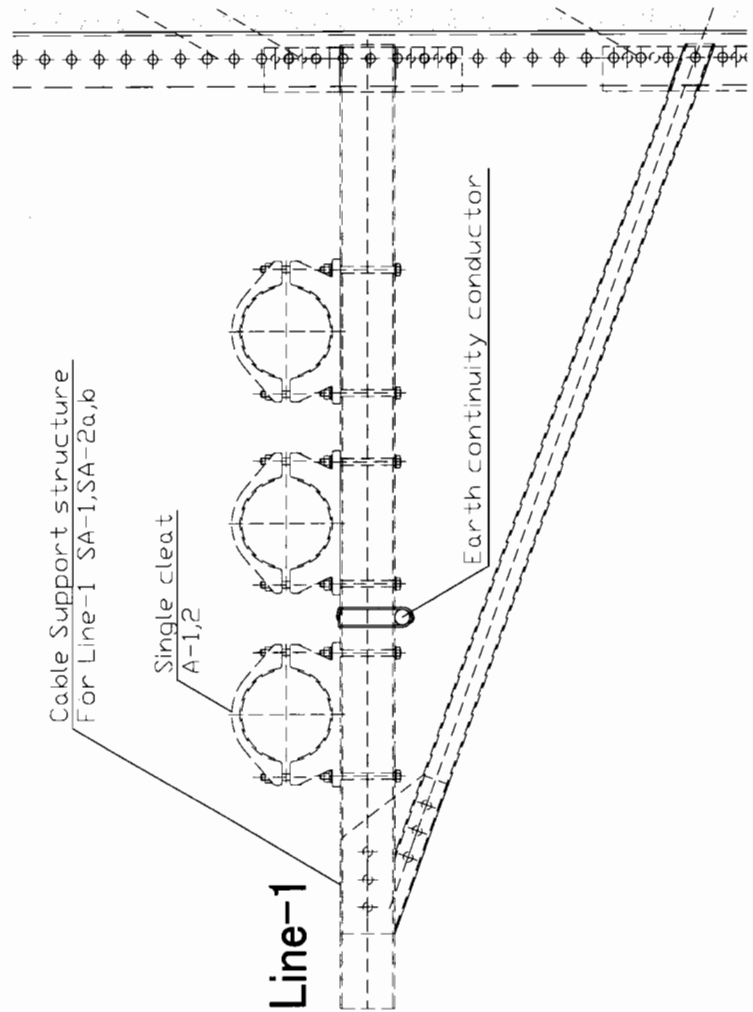


I

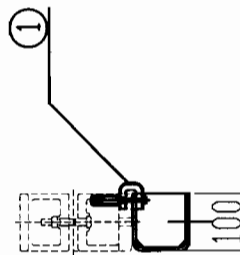
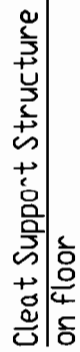
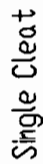
CUSTOMER	 <b>NHPC Limited</b> (GOVT. OF INDIA ENTERPRISE)									
	4 x 130 MW PAWRAT - III HYDROELECTRIC PROJECT STAGE-III (B.P.)									
PROJECT	CONTRACT NO	NH/EP/796-III/03/2005/1/4370 Dtd. 28. 12. 06								
	BHEL P.O.No.	429A495/PROJ-ECT DOC.NO/PT III-XLP-03-00-028-01 REV.No. 01								
CONTRACTOR	 <b>SHARAT HEAVY ELECTRICALS LTD.</b> TRANSMISSION PROJECTS DIVISION, BHOPAL									
<table><tr><th colspan="2">TITLE</th></tr><tr><td>APPRO BY</td><td>TJ.DND DESIGNER T.SUNIND</td></tr><tr><td>CHECKER</td><td>TJ.DND SCALE N.T.S</td></tr><tr><td>TRACER</td><td>DATE Dct 15/2010</td></tr></table>			TITLE		APPRO BY	TJ.DND DESIGNER T.SUNIND	CHECKER	TJ.DND SCALE N.T.S	TRACER	DATE Dct 15/2010
TITLE										
APPRO BY	TJ.DND DESIGNER T.SUNIND									
CHECKER	TJ.DND SCALE N.T.S									
TRACER	DATE Dct 15/2010									
Support for Link Box		REV KED-10032 A								

[illegible]

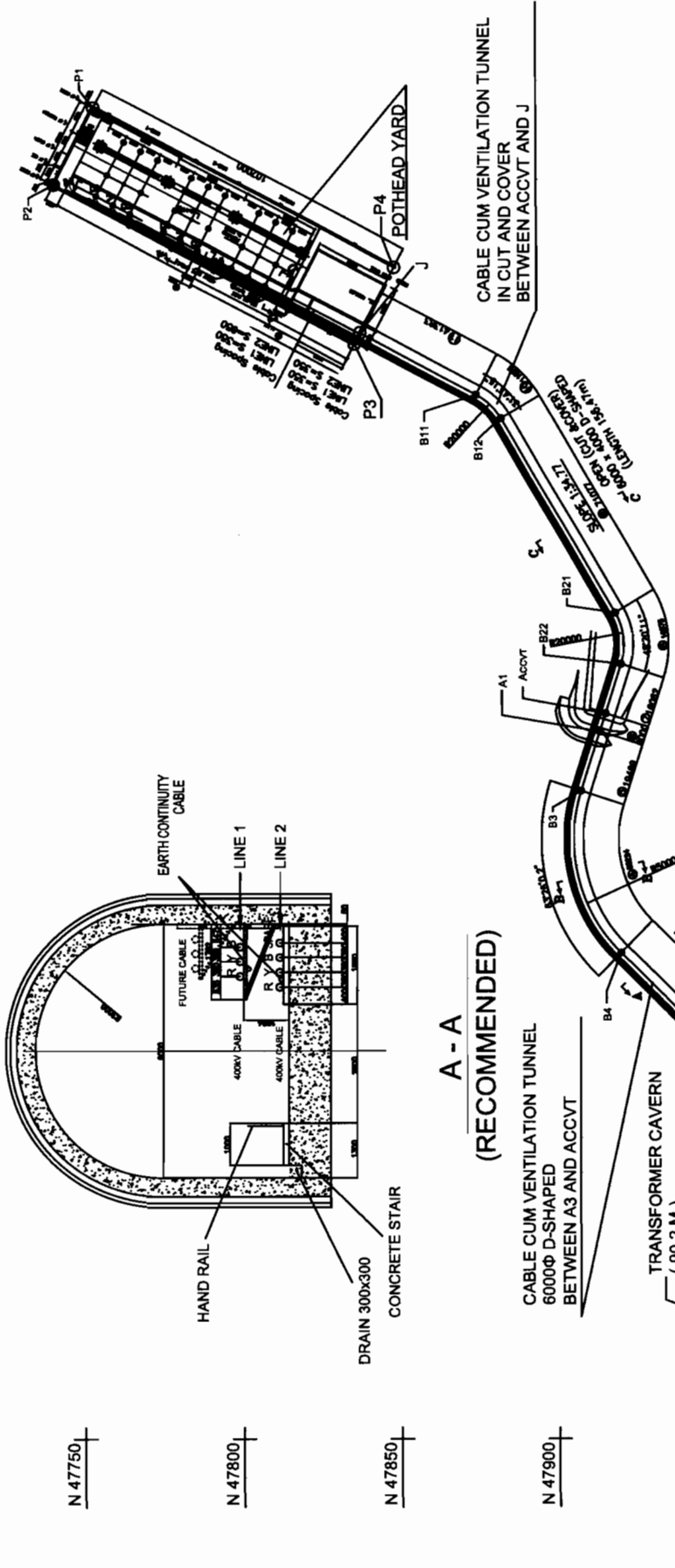
[illegible]



CUSTOMER		NHPC Limited		NHPC		NHPC Limited		4 x 150 MW PAKISTAN - III INTERNATIONAL PROJECT STAGE-III (I.P.)	
PROJECT		L		PROJECT		CONTRACT NO NH/EP/PB-W/03/2009/I/AS70 Dtd. 29. 12. 04		CONTRACT NO NH/EP/PB-W/03/2009/I/AS70 Dtd. 29. 12. 04	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. BHOPAL		CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. BHOPAL		CONTRACTOR	
APPROVED BY		T.S.MIND		DESIGNER		T.S.MIND		TITLE	
CHECKER		T.S.MIND		SCALE		N.T.S		Cable support for parallel earth continuity conductor (for Line-1)	
TRACER		T.S.MIND		DATE		Jun-20 2010		DRAWING NO	
REV.		DATE		REV.		DATE		REV	
2								KED-10077	
1									
No.		DISCRIPTION		MATERIAL		Q'ty		REMARKS	

[illegible]





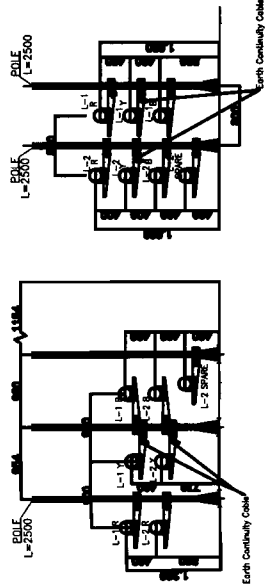
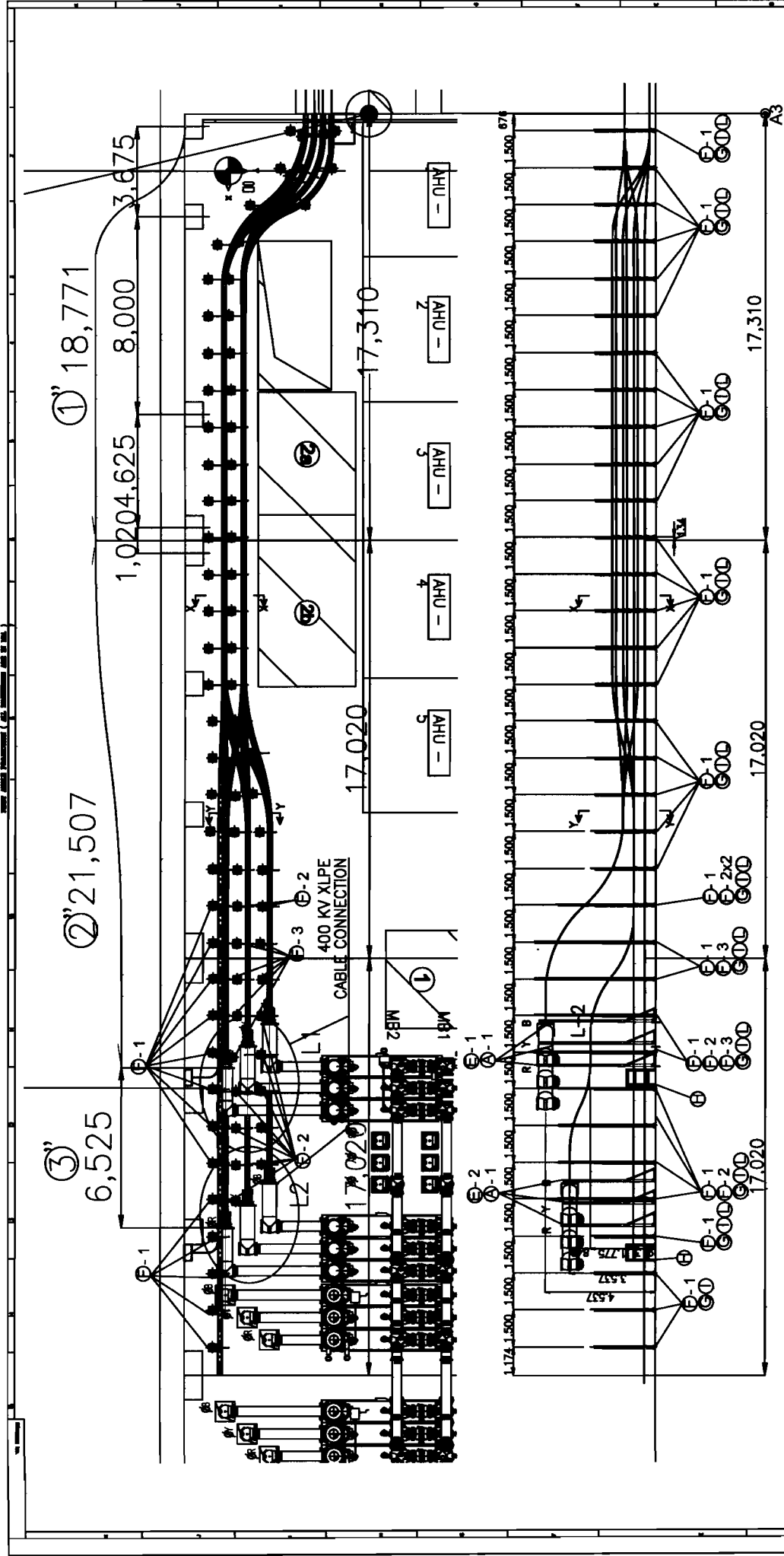
THIS DRAWING IS BASED ON THE FOLLOWING DRAWINGS:-

1. NHPC II-4B2341-DD-006(03) - CABLE CUM VENTILATION TUNNEL
2. NHPC II-4B2341-DD-006(00) - CABLE CUM VENTILATION TUNNEL EXCAVATION AND ROCK SUPPORT SECTIONS
3. NHPC II-4B2341-DD-033(00) - POT HEAD YARD EXCAVATION PLAN
4. NHPC II-4B2341-DD-033(00) - POT HEAD YARD EXCAVATION SECTIONS
5. TB 2 300 318 001 Rev. 02 - LAYOUT PLAN & ELEVATION OF POT HEAD YARD(400KV)
6. NHPC II-4B2341-GA-034(00) - CABLE CUM VENTILATION TUNNEL CUT AND COVER GENERAL LAYOUT PLAN

NOTES :-  
1. ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRE.  
2. LEVELS SHOWN ARE PROJECTED INDICATIONS ON HORIZONTAL PLANE.

CO-ORDINATES AND ELEVATION			
POINTS	NORTHING	EASTING	FINISHED EL
P1	47732.636	46332.667	1082.000
P2	47740.108	46358.574	1087.500
P3	47834.901	46408.228	1087.500
P4	47847.420	46382.306	1082.000
J	47836.516	46403.123	1087.500
B11	47873.174	46422.326	1086.310
B12	47881.102	46429.851	1085.991
B21	47917.318	46491.006	1085.947
B22	47918.161	46507.284	1083.462
ACCVT	47914.276	46522.595	1083.000
A1	47912.450	46528.301	1083.000
B3	47908.527	46546.848	1072.594
B4	47919.251	46597.857	1043.007
B5	47974.057	46661.298	1002.093
B6	47960.041	46667.076	982.762
A2	47979.207	46678.476	986.873
A3	47978.843	46683.463	984.000

<b>CUSTOMER</b>		<b>NHPC Limited</b> (A CORP. OF INDIA COMPANY)	
<b>PROJECT</b>		4 x 130 KV PARVATI - III HYDROELECTRIC PROJECT STAGE-III (H.P.)	
<b>CONTRACT NO</b>		NH/EP/PB-III/03/2005/1/4370 DNL. 28. 12. 06	
<b>BHEL P.O.No.</b>		439A499[PROJECT DOC.NO.]PBT III-PYD-01-00-001-06[REV.No.]06	
<b>CONTRACTOR</b>		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL	
<b>APPD BY</b>	<b>T.OHNO</b>	<b>DESIGNER</b>	<b>T.SUMINO</b>
<b>CHECKER</b>	<b>T.OHNO</b>	<b>SCALE</b>	<b>N.T.S</b>
<b>TRACER</b>	<b>DATE</b>	<b>DATE</b>	<b>DATE</b>
			06.06.2010
<b>OVERALL ALIGNMENT OF 400KV CABLE</b>			
<b>DRAWING NO. KED-10003</b>			
<b>REV 06</b>			



No.	Item	Drawing No.	Qty.	Item	Drawing No.	Qty.
A-1	Cable (unarmoured type) (without stranding type)	KED-10032A	6	E-2	Cable Support Structure A (GS Section End (L=3,000))	3
A-2	Cable (unarmoured type) (with stranding type)	KED-10032B	0	F-1	Pole (L=7,500)	64
B	Supporting structure for 400KV Outdoor Section End	KED-10025C	0	F-2	Pole (L=1,000)	11
C	Angle Support	KED-10025B	0	F-3	Pole (L=3,000)	6
D-1	Cable Support Structure on the tower for Line-2 (50kV)	KED-10027C	0	G	Porcelain Insulator	196
D-2	Detail for Line-2 (50kV) (without steel)	KED-10031B	0	H	Support For Pole	2
D-3	Detail for Line-2 (50kV) (with steel)	KED-10031C	0	I	Support For Pole	2
D-4	Detail for Line-2 (50kV) (with steel) (at ends and mid)	KED-10031D	0	J-1	Support For Pole	196
D-5	Detail for Line-2 (50kV) (with steel) (at ends and mid)	KED-10031E	0	J-2	Support For Pole	196
D-6	Detail for Line-2 (50kV) (with steel) (at ends and mid)	KED-10031F	0	J-3	Support For Pole	196
D-7	Cable support structure (50kV) (with steel) (at ends and mid)	KED-10031G	0	K	Reinforced cable support structure of ends and mid	0
D-8	Detail for Line-2 (50kV) (with steel) (at ends and mid)	KED-10031H	0	L	Cable Support for parallel with existing cable (Line-1)	57
D-9	Detail for Line-2 (50kV) (with steel) (at ends and mid)	KED-10031I	0	M	Cable Support for parallel with existing cable (Line-2)	0
E-1	Cable Support Structure A (GS Section End (L=3,000))	KED-10026C	3			

REV.	DATE	APPD BY	CHECKER	TRACER	REV.	DATE	APPD BY	CHECKER	TRACER

**NHPC Limited**  
 (A GOVT. OF INDIA ENTERPRISE)

**CUSTOMER**  
 4 = 110 KV PROJECT - III HYDRO-ELECTRIC PROJECT STAGE-III (H.E.P.)

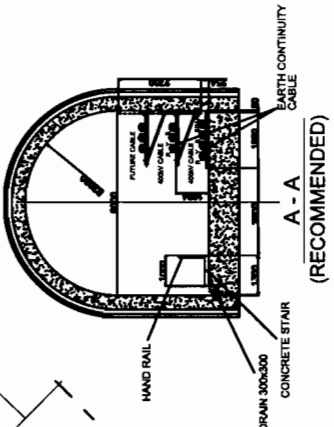
**PROJECT**  
 CONTRACT NO NH/EP/PB-II/03/2005/7/6370 Dtd. 29. 12. 08  
 CONTRACT DOC. NO NH-RP-03-00-048-02 REV. No. 02  
 BHHEL P.O. No. 4294485 PROJECT DOC. NO NH-RP-03-00-048-02 REV. No. 02  
**CONTRACTOR**  
**TRANSMISSION PROJECTS DIVISION, BHOPAL**

**APPD BY** T.O.HNO **DESIGNER** T.SUNIMO **TITLE**  
 Cable Route Arrangement 1

**CHECKER** T.O.HNO **SCALE** N.T.S. **DATE** Oct 15, 2010

**TRACER** T.SUNIMO **DRAWING NO.** KED-10058 **REV.** B

**POWER CABLE ALLIANCE OF INDIA AND FLORIDA, U.S.A.**



No	Item	Drawing No	Qty
A-1	Cable (framed type) (without striction type)	KED-10023A	0
A-2	Cable (framed type) (with striction type)	KED-10023B	217
B	Supporting structure for 400W Outdoor Sealing End	KED-10025C	0
C	Anode Support	KED-10025D	29
D-1	Cable Support Structure On The Roof (for Line-1) (2.50kV)	KED-10027C	4
D-2	Cable Support Structure On The Roof (for Line-2) (2.50kV)	KED-10027D	4
D-3	Cable Support Structure On The Roof (for Line-3) (2.50kV with without client)	KED-10028C	21
D-4	Cable Support Structure On The Roof (for Line-3) (2.50kV with client)	KED-10028D	21
D-5	Cable Support Structure On The Roof (for Line-4) (2.50kV with client)	KED-10029C	0
D-6	Cable Support Structure On The Roof (for Line-4) (2.50kV with client)	KED-10029D	0
D-7	Cable Support Structure On The Roof (for Line-5) (2.50kV with client)	KED-10030C	4
D-8	Cable Support Structure On The Roof (for Line-5) (2.50kV with client)	KED-10030D	4
D-9	Cable Support Structure On The Roof (for Line-6) (2.50kV with client)	KED-10031C	0
D-10	Cable Support Structure On The Roof (for Line-6) (2.50kV with client)	KED-10031D	0
D-11	Cable Support Structure On The Roof (for Line-7) (2.50kV with client)	KED-10032C	0
D-12	Cable Support Structure On The Roof (for Line-7) (2.50kV with client)	KED-10032D	0
D-13	Cable Support Structure On The Roof (for Line-8) (2.50kV with client)	KED-10033C	29
D-14	Cable Support Structure On The Roof (for Line-8) (2.50kV with client)	KED-10033D	29
D-15	Cable Support Structure On The Roof (for Line-9) (2.50kV with client)	KED-10034C	2
D-16	Cable Support Structure On The Roof (for Line-9) (2.50kV with client)	KED-10034D	2
D-17	Cable Support Structure On The Roof (for Line-10) (2.50kV)	KED-10035C	0
D-18	Cable Support Structure On The Roof (for Line-10) (2.50kV)	KED-10035D	0
D-19	Cable Support Structure On The Roof (for Line-11) (2.50kV)	KED-10036C	0
D-20	Cable Support Structure On The Roof (for Line-11) (2.50kV)	KED-10036D	0
D-21	Cable Support Structure On The Roof (for Line-12) (2.50kV)	KED-10037C	29
D-22	Cable Support Structure On The Roof (for Line-12) (2.50kV)	KED-10037D	29
D-23	Cable Support Structure On The Roof (for Line-13) (2.50kV)	KED-10038C	29
D-24	Cable Support Structure On The Roof (for Line-13) (2.50kV)	KED-10038D	29
D-25	Cable Support Structure On The Roof (for Line-14) (2.50kV)	KED-10039C	29
D-26	Cable Support Structure On The Roof (for Line-14) (2.50kV)	KED-10039D	29
D-27	Cable Support Structure On The Roof (for Line-15) (2.50kV)	KED-10040C	29
D-28	Cable Support Structure On The Roof (for Line-15) (2.50kV)	KED-10040D	29
D-29	Cable Support Structure On The Roof (for Line-16) (2.50kV)	KED-10041C	29
D-30	Cable Support Structure On The Roof (for Line-16) (2.50kV)	KED-10041D	29
D-31	Cable Support Structure On The Roof (for Line-17) (2.50kV)	KED-10042C	29
D-32	Cable Support Structure On The Roof (for Line-17) (2.50kV)	KED-10042D	29
D-33	Cable Support Structure On The Roof (for Line-18) (2.50kV)	KED-10043C	29
D-34	Cable Support Structure On The Roof (for Line-18) (2.50kV)	KED-10043D	29
D-35	Cable Support Structure On The Roof (for Line-19) (2.50kV)	KED-10044C	29
D-36	Cable Support Structure On The Roof (for Line-19) (2.50kV)	KED-10044D	29
D-37	Cable Support Structure On The Roof (for Line-20) (2.50kV)	KED-10045C	29
D-38	Cable Support Structure On The Roof (for Line-20) (2.50kV)	KED-10045D	29
D-39	Cable Support Structure On The Roof (for Line-21) (2.50kV)	KED-10046C	29
D-40	Cable Support Structure On The Roof (for Line-21) (2.50kV)	KED-10046D	29
D-41	Cable Support Structure On The Roof (for Line-22) (2.50kV)	KED-10047C	29
D-42	Cable Support Structure On The Roof (for Line-22) (2.50kV)	KED-10047D	29
D-43	Cable Support Structure On The Roof (for Line-23) (2.50kV)	KED-10048C	29
D-44	Cable Support Structure On The Roof (for Line-23) (2.50kV)	KED-10048D	29
D-45	Cable Support Structure On The Roof (for Line-24) (2.50kV)	KED-10049C	29
D-46	Cable Support Structure On The Roof (for Line-24) (2.50kV)	KED-10049D	29
D-47	Cable Support Structure On The Roof (for Line-25) (2.50kV)	KED-10050C	29
D-48	Cable Support Structure On The Roof (for Line-25) (2.50kV)	KED-10050D	29
D-49	Cable Support Structure On The Roof (for Line-26) (2.50kV)	KED-10051C	29
D-50	Cable Support Structure On The Roof (for Line-26) (2.50kV)	KED-10051D	29
D-51	Cable Support Structure On The Roof (for Line-27) (2.50kV)	KED-10052C	29
D-52	Cable Support Structure On The Roof (for Line-27) (2.50kV)	KED-10052D	29
D-53	Cable Support Structure On The Roof (for Line-28) (2.50kV)	KED-10053C	29
D-54	Cable Support Structure On The Roof (for Line-28) (2.50kV)	KED-10053D	29
D-55	Cable Support Structure On The Roof (for Line-29) (2.50kV)	KED-10054C	29
D-56	Cable Support Structure On The Roof (for Line-29) (2.50kV)	KED-10054D	29
D-57	Cable Support Structure On The Roof (for Line-30) (2.50kV)	KED-10055C	29
D-58	Cable Support Structure On The Roof (for Line-30) (2.50kV)	KED-10055D	29
D-59	Cable Support Structure On The Roof (for Line-31) (2.50kV)	KED-10056C	29
D-60	Cable Support Structure On The Roof (for Line-31) (2.50kV)	KED-10056D	29
D-61	Cable Support Structure On The Roof (for Line-32) (2.50kV)	KED-10057C	29
D-62	Cable Support Structure On The Roof (for Line-32) (2.50kV)	KED-10057D	29
D-63	Cable Support Structure On The Roof (for Line-33) (2.50kV)	KED-10058C	29
D-64	Cable Support Structure On The Roof (for Line-33) (2.50kV)	KED-10058D	29
D-65	Cable Support Structure On The Roof (for Line-34) (2.50kV)	KED-10059C	29
D-66	Cable Support Structure On The Roof (for Line-34) (2.50kV)	KED-10059D	29
D-67	Cable Support Structure On The Roof (for Line-35) (2.50kV)	KED-10060C	29
D-68	Cable Support Structure On The Roof (for Line-35) (2.50kV)	KED-10060D	29
D-69	Cable Support Structure On The Roof (for Line-36) (2.50kV)	KED-10061C	29
D-70	Cable Support Structure On The Roof (for Line-36) (2.50kV)	KED-10061D	29
D-71	Cable Support Structure On The Roof (for Line-37) (2.50kV)	KED-10062C	29
D-72	Cable Support Structure On The Roof (for Line-37) (2.50kV)	KED-10062D	29
D-73	Cable Support Structure On The Roof (for Line-38) (2.50kV)	KED-10063C	29
D-74	Cable Support Structure On The Roof (for Line-38) (2.50kV)	KED-10063D	29
D-75	Cable Support Structure On The Roof (for Line-39) (2.50kV)	KED-10064C	29
D-76	Cable Support Structure On The Roof (for Line-39) (2.50kV)	KED-10064D	29
D-77	Cable Support Structure On The Roof (for Line-40) (2.50kV)	KED-10065C	29
D-78	Cable Support Structure On The Roof (for Line-40) (2.50kV)	KED-10065D	29
D-79	Cable Support Structure On The Roof (for Line-41) (2.50kV)	KED-10066C	29
D-80	Cable Support Structure On The Roof (for Line-41) (2.50kV)	KED-10066D	29
D-81	Cable Support Structure On The Roof (for Line-42) (2.50kV)	KED-10067C	29
D-82	Cable Support Structure On The Roof (for Line-42) (2.50kV)	KED-10067D	29
D-83	Cable Support Structure On The Roof (for Line-43) (2.50kV)	KED-10068C	29
D-84	Cable Support Structure On The Roof (for Line-43) (2.50kV)	KED-10068D	29
D-85	Cable Support Structure On The Roof (for Line-44) (2.50kV)	KED-10069C	29
D-86	Cable Support Structure On The Roof (for Line-44) (2.50kV)	KED-10069D	29
D-87	Cable Support Structure On The Roof (for Line-45) (2.50kV)	KED-10070C	29
D-88	Cable Support Structure On The Roof (for Line-45) (2.50kV)	KED-10070D	29
D-89	Cable Support Structure On The Roof (for Line-46) (2.50kV)	KED-10071C	29
D-90	Cable Support Structure On The Roof (for Line-46) (2.50kV)	KED-10071D	29
D-91	Cable Support Structure On The Roof (for Line-47) (2.50kV)	KED-10072C	29
D-92	Cable Support Structure On The Roof (for Line-47) (2.50kV)	KED-10072D	29
D-93	Cable Support Structure On The Roof (for Line-48) (2.50kV)	KED-10073C	29
D-94	Cable Support Structure On The Roof (for Line-48) (2.50kV)	KED-10073D	29
D-95	Cable Support Structure On The Roof (for Line-49) (2.50kV)	KED-10074C	29
D-96	Cable Support Structure On The Roof (for Line-49) (2.50kV)	KED-10074D	29
D-97	Cable Support Structure On The Roof (for Line-50) (2.50kV)	KED-10075C	29
D-98	Cable Support Structure On The Roof (for Line-50) (2.50kV)	KED-10075D	29
D-99	Cable Support Structure On The Roof (for Line-51) (2.50kV)	KED-10076C	29
D-100	Cable Support Structure On The Roof (for Line-51) (2.50kV)	KED-10076D	29
D-101	Cable Support Structure On The Roof (for Line-52) (2.50kV)	KED-10077C	29
D-102	Cable Support Structure On The Roof (for Line-52) (2.50kV)	KED-10077D	29
D-103	Cable Support Structure On The Roof (for Line-53) (2.50kV)	KED-10078C	29
D-104	Cable Support Structure On The Roof (for Line-53) (2.50kV)	KED-10078D	29
D-105	Cable Support Structure On The Roof (for Line-54) (2.50kV)	KED-10079C	29
D-106	Cable Support Structure On The Roof (for Line-54) (2.50kV)	KED-10079D	29
D-107	Cable Support Structure On The Roof (for Line-55) (2.50kV)	KED-10080C	29
D-108	Cable Support Structure On The Roof (for Line-55) (2.50kV)	KED-10080D	29
D-109	Cable Support Structure On The Roof (for Line-56) (2.50kV)	KED-10081C	29
D-110	Cable Support Structure On The Roof (for Line-56) (2.50kV)	KED-10081D	29
D-111	Cable Support Structure On The Roof (for Line-57) (2.50kV)	KED-10082C	29
D-112	Cable Support Structure On The Roof (for Line-57) (2.50kV)	KED-10082D	29
D-113	Cable Support Structure On The Roof (for Line-58) (2.50kV)	KED-10083C	29
D-114	Cable Support Structure On The Roof (for Line-58) (2.50kV)	KED-10083D	29
D-115	Cable Support Structure On The Roof (for Line-59) (2.50kV)	KED-10084C	29
D-116	Cable Support Structure On The Roof (for Line-59) (2.50kV)	KED-10084D	29
D-117	Cable Support Structure On The Roof (for Line-60) (2.50kV)	KED-10085C	29
D-118	Cable Support Structure On The Roof (for Line-60) (2.50kV)	KED-10085D	29
D-119	Cable Support Structure On The Roof (for Line-61) (2.50kV)	KED-10086C	29
D-120	Cable Support Structure On The Roof (for Line-61) (2.50kV)	KED-10086D	29
D-121	Cable Support Structure On The Roof (for Line-62) (2.50kV)	KED-10087C	29
D-122	Cable Support Structure On The Roof (for Line-62) (2.50kV)	KED-10087D	29
D-123	Cable Support Structure On The Roof (for Line-63) (2.50kV)	KED-10088C	29
D-124	Cable Support Structure On The Roof (for Line-63) (2.50kV)	KED-10088D	29
D-125	Cable Support Structure On The Roof (for Line-64) (2.50kV)	KED-10089C	29
D-126	Cable Support Structure On The Roof (for Line-64) (2.50kV)	KED-10089D	29
D-127	Cable Support Structure On The Roof (for Line-65) (2.50kV)	KED-10090C	29
D-128	Cable Support Structure On The Roof (for Line-65) (2.50kV)	KED-10090D	29
D-129	Cable Support Structure On The Roof (for Line-66) (2.50kV)	KED-10091C	29
D-130	Cable Support Structure On The Roof (for Line-66) (2.50kV)	KED-10091D	29
D-131	Cable Support Structure On The Roof (for Line-67) (2.50kV)	KED-10092C	29
D-132	Cable Support Structure On The Roof (for Line-67) (2.50kV)	KED-10092D	29
D-133	Cable Support Structure On The Roof (for Line-68) (2.50kV)	KED-10093C	29
D-134	Cable Support Structure On The Roof (for Line-68) (2.50kV)	KED-10093D	29
D-135	Cable Support Structure On The Roof (for Line-69) (2.50kV)	KED-10094C	29
D-136	Cable Support Structure On The Roof (for Line-69) (2.50kV)	KED-10094D	29
D-137	Cable Support Structure On The Roof (for Line-70) (2.50kV)	KED-10095C	29
D-138	Cable Support Structure On The Roof (for Line-70) (2.50kV)	KED-10095D	29
D-139	Cable Support Structure On The Roof (for Line-71) (2.50kV)	KED-10096C	29
D-140	Cable Support Structure On The Roof (for Line-71) (2.50kV)	KED-10096D	29
D-141	Cable Support Structure On The Roof (for Line-72) (2.50kV)	KED-10097C	29
D-142	Cable Support Structure On The Roof (for Line-72) (2.50kV)	KED-10097D	29
D-143	Cable Support Structure On The Roof (for Line-73) (2.50kV)	KED-10098C	29
D-144	Cable Support Structure On The Roof (for Line-73) (2.50kV)	KED-10098D	29
D-145	Cable Support Structure On The Roof (for Line-74) (2.50kV)	KED-10099C	29
D-146	Cable Support Structure On The Roof (for Line-74) (2.50kV)	KED-10099D	29
D-147	Cable Support Structure On The Roof (for Line-75) (2.50kV)	KED-10100C	29
D-148	Cable Support Structure On The Roof (for Line-75) (2.50kV)	KED-10100D	29
D-149	Cable Support Structure On The Roof (for Line-76) (2.50kV)	KED-10101C	29
D-150	Cable Support Structure On The Roof (for Line-76) (2.50kV)	KED-10101D	29
D-151	Cable Support Structure On The Roof (for Line-77) (2.50kV)	KED-10102C	29
D-152	Cable Support Structure On The Roof (for Line-77) (2.50kV)	KED-10102D	29
D-153	Cable Support Structure On The Roof (for Line-78) (2.50kV)	KED-10103C	29
D-154	Cable Support Structure On The Roof (for Line-78) (2.50kV)	KED-10103D	29
D-155	Cable Support Structure On The Roof (for Line-79) (2.50kV)	KED-10104C	29
D-156	Cable Support Structure On The Roof (for Line-79) (2.50kV)	KED-10104D	29
D-157	Cable Support Structure On The Roof (for Line-80) (2.50kV)	KED-10105C	29
D-158	Cable Support Structure On The Roof (for Line-80) (2.50kV)	KED-10105D	29
D-159	Cable Support Structure On The Roof (for Line-81) (2.50kV)	KED-10106C	29
D-160	Cable Support Structure On The Roof (for Line-81) (2.50kV)	KED-10106D	29
D-161	Cable Support Structure On The Roof (for Line-82) (2.50kV)	KED-10107C	29
D-162	Cable Support Structure On The Roof (for Line-82) (2.50kV)	KED-10107D	29
D-163	Cable Support Structure On The Roof (for Line-83) (2.50kV)	KED-10108C	29
D-164	Cable Support Structure On The Roof (for Line-83) (2.50kV)	KED-10108D	29
D-165	Cable Support Structure On The Roof (for Line-84) (2.50kV)	KED-10109C	29
D-166	Cable Support Structure On The Roof (for Line-84) (2.50kV)	KED-10109D	29
D-167	Cable Support Structure On The Roof (for Line-85) (2.50kV)	KED-10110C	29
D-168	Cable Support Structure On The Roof (for Line-85) (2.50kV)	KED-10110D	29
D-169	Cable Support Structure On The Roof (for Line-86) (2.50kV)	KED-10111C	29
D-170	Cable Support Structure On The Roof (for Line-86) (2.50kV)	KED-10111D	29
D-171	Cable Support Structure On The Roof (for Line-87) (2.50kV)	KED-10112C	29
D-172	Cable Support Structure On The Roof (for Line-87) (2.50kV)	KED-10112D	29
D-173	Cable Support Structure On The Roof (for Line-88) (2.50kV)	KED-10113C	29
D-174	Cable Support Structure On The Roof (for Line-88) (2.50kV)	KED-10113D	29
D-175	Cable Support Structure On The Roof (for Line-89) (2.50kV)	KED-10114C	29
D-176	Cable Support Structure On The Roof (for Line-89) (2.50kV)	KED-10114D	29
D-177	Cable Support Structure On The Roof (for Line-90) (2.50kV)	KED-10115C	29
D-178	Cable Support Structure On The Roof (for Line-90) (2.50kV)	KED-10115D	29
D-179	Cable Support Structure On The Roof (for Line-91) (2.50kV)	KED-10116C	29
D-180	Cable Support Structure On The Roof (for Line-91) (2.50kV)	KED-10116D	29
D-181	Cable Support Structure On The Roof (for Line-92) (2.50kV)	KED-10117C	29
D-182	Cable Support Structure On The Roof (for Line-92) (2.50kV)	KED-10117D	29
D-183	Cable Support Structure On The Roof (for Line-93) (2.50kV)	KED-10118C	29
D-184	Cable Support Structure On The Roof (for Line-93) (2.50kV)	KED-10118D	29
D-185	Cable Support Structure On The Roof (for Line-94) (2.50kV)	KED-10119C	29
D-186	Cable Support Structure On The Roof (for Line-94) (2.50kV)	KED-10119D	29
D-187	Cable Support Structure On The Roof (for Line-95) (2.50kV)	KED-10120C	29
D-188	Cable Support Structure On The Roof (for Line-95) (2.50kV)	KED-10120D	29
D-189	Cable Support Structure On The Roof (for Line-96) (2.50kV)	KED-10121C	29
D-190	Cable Support Structure On The Roof (for Line-96) (2.50kV)	KED-10121D	29
D-191	Cable Support Structure On The Roof (for Line-97) (2.50kV)	KED-10122C	29
D-192	Cable Support Structure On The Roof (for Line-97) (2.50kV)	KED-10122D	29
D-193	Cable Support Structure On The Roof (for Line-98) (2.50kV)	KED-10123C	29
D-194	Cable Support Structure On The Roof (for Line-98) (2.50kV)	KED-10123D	29
D-195	Cable Support Structure On The Roof (for Line-99) (2.50kV)	KED-10124C	29
D-196	Cable Support Structure On The Roof (for Line-99) (2.50kV)	KED-10124D	29
D-197	Cable Support Structure On The Roof (for Line-100) (2.50kV)	KED-10125C	29
D-198	Cable Support Structure On The Roof (for Line-100) (2.50kV)	KED-10125D	29
D-199	Cable Support Structure On The Roof (for Line-101) (2.50kV)	KED-10126C	29
D-200	Cable Support Structure On The Roof (for Line-101) (2.50kV)	KED-10126D	29
D-201	Cable Support Structure On The Roof (for Line-102) (2.50kV)	KED-10127C	29
D-202	Cable Support Structure On The Roof (for Line-102) (2.50kV)	KED-10127D	29
D-203	Cable Support Structure On The Roof (for Line-103) (2.50kV)	KED-10128C	29
D-204	Cable Support Structure On The Roof (for Line-103) (2.50kV)	KED-10128D	29
D-205	Cable Support Structure On The Roof (for Line-104) (2.50kV)	KED-10129C	29
D-206	Cable Support Structure On The Roof (for Line-104) (2.50kV)	KED-10129D	29
D-207	Cable Support Structure On The Roof (for Line-105) (2.50kV)	KED-10130C	29
D-208	Cable Support Structure On The Roof (for Line-105) (2.50kV)	KED-10130D	29
D-209	Cable Support Structure On The Roof (for Line-106) (2.50kV)	KED-10131C	29
D-210	Cable Support Structure On The Roof (for Line-106) (2.50kV)	KED-10131D	29
D-211	Cable Support Structure On The Roof (for Line-107) (2.50kV)	KED-10132C	29
D-212	Cable Support Structure On The Roof (for Line-107) (2.50kV)		

**NHPC Limited**  
(A COE. OF NHPC LIMITED)

PROJECT	4 X 120 MW PARBATI - II HYDROELECTRIC PROJECT STAGE-III (H.P.)

CONTRACT NO	NH/EP/PB-M/03/2005/1/6370 Dtd. 29. 12. 06
-------------	---

SHIEL P.O.No.	429A485	PROJECT DOC.NO.	PBT IN-XLP-03-DD-047-02	REV.No.	02
---------------	---------	-----------------	-------------------------	---------	----

**CONTRACTOR**

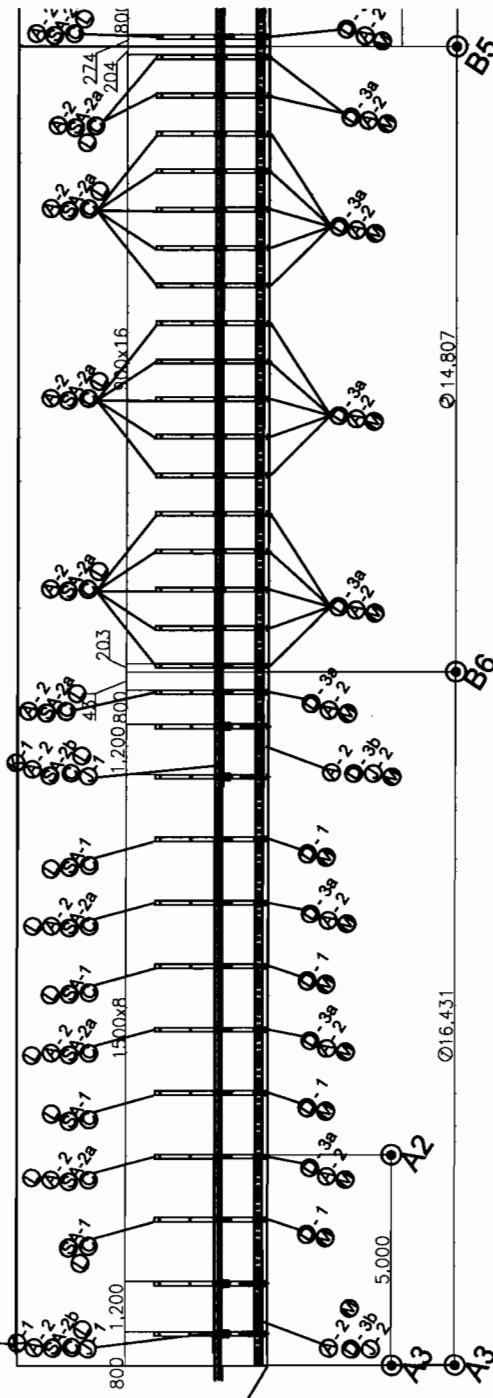
ADDN. PW	T. AMOUNT	RECEIVED	T. FINANCING	TITLE
TRANSMISSION PROJECTS DIVISION, BHOPAL				

APPROVED BY	DESIGNER	SCALE	NTS
1.0440	1.0440	1.0440	1.0440

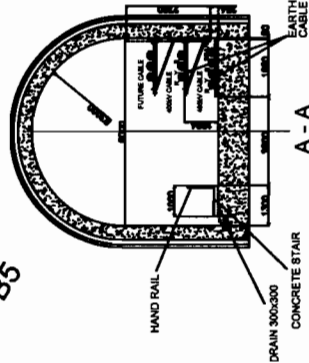
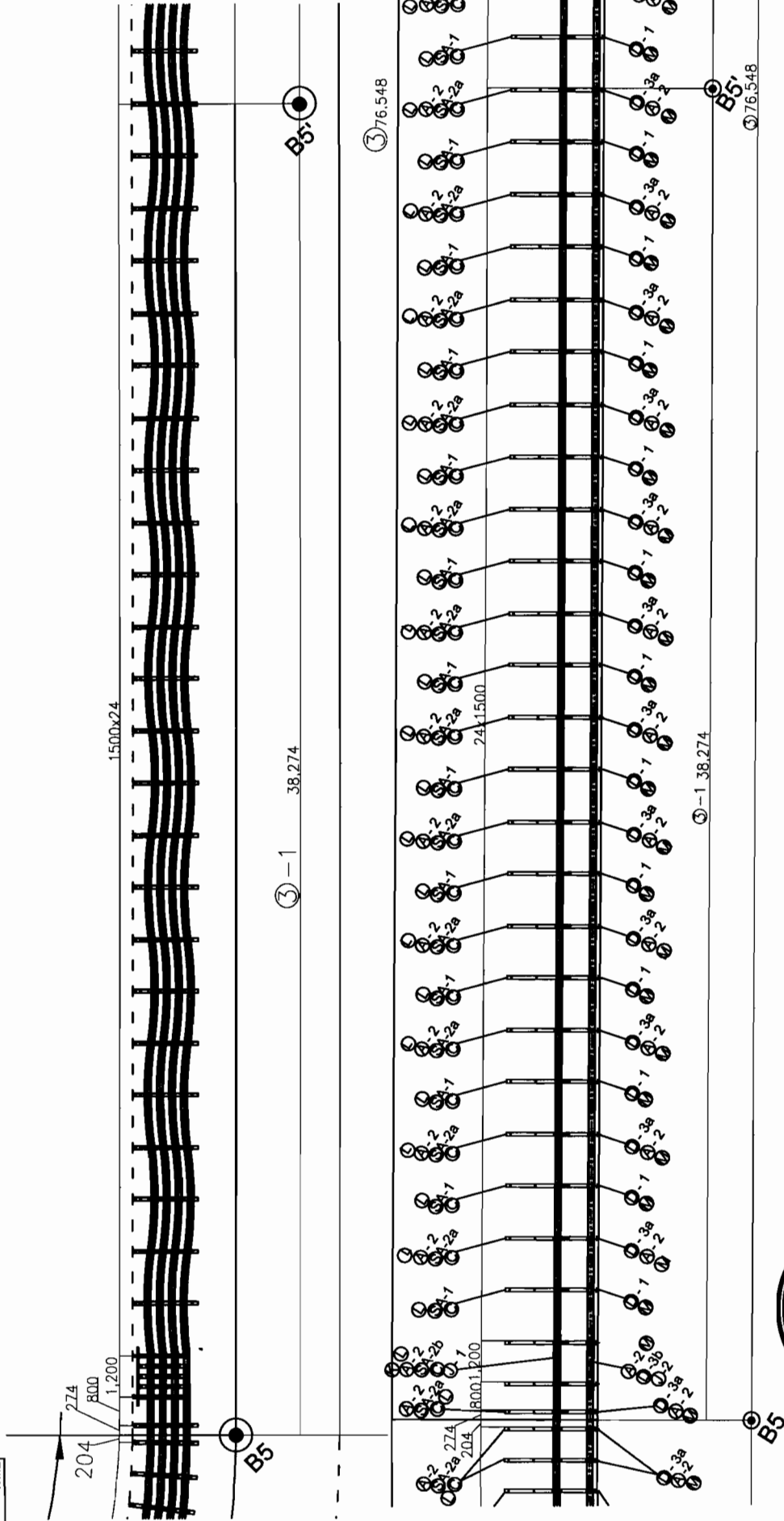
CHECKER	T.SUMINO	DATE	Oct 15 2010
TRACER	T.SUMINO	DATE	Oct 15 2010

REVISION	DATE	BY	REV
DRAWING NO.			

**POWER CABLE ALLIANCE OF FUKUKIWA AND FUKUKURA, JAPAN**  
**KED-10059**



TOSHINO TOSHIKAWA ENGINEERING, INCORPORATED														
TITLE Cable Route Arrangement 2 A3-B5														
REV.			DATE			APPRO BY CHECKER			TRACER			REV.		



No.	Item	Drawing No.	Qty	Unit	Item	Drawing No.	Qty	Unit
A-1	Cable (unspliced, type without strain type)	KED-10023A	0	F-1	Post (L=2500)	KED-10030B	0	
A-2	Cable (unspliced, type with strain type)	KED-10023B	178	F-2	Post (L=1000)	KED-10070B	0	
B	Supporting structure for 40KV Outdoor Switch End	KED-10075C	0	F-3	Post (L=3000)	KED-10075B	0	
C	Angle Support	KED-10075D	27	G	Porcelain Insulator	KED-10031	0	
D-1	Cable Support Structure in the Span (for Line-1)	KED-10027C	12	H	Support For Linkbox	KED-10032A	0	
D-2	Drill (for Line-2, 650pitch, without client)	KED-10053B	0	I	Support For Pole	KED-10033C	0	
D-3	Drill (for Line-2, 650pitch, with client)	KED-10028C	13	J-1	Spanning line for cable (at 1.5m pitch)	KED-10043C	0	
D-4	Drill (for Line-2, 650pitch, with client)	KED-10068B	2	J-2	Spanning line for cable (at 1.5m pitch)	KED-10071B	0	
D-5	Drill (for Line-2, 650pitch, with client)	KED-10054C	0	J-3	Spanning line for cable (at 1.5m pitch)	KED-10068B	0	
D-6	Drill (for Line-2, 650pitch, with client)	KED-10068B	0	K	Spanning line for cable (at 1.5m pitch)	KED-10073B	0	
SA-1	Cable support structure (for Line-1, 650pitch, with client)	KED-10056B	12	L	Support for earth continuity cable (for Line-1)	KED-10077	27	
SA-2	Drill (for Line-1, 650pitch, with client)	KED-10020C	13	M	Support for earth continuity cable (for Line-2)	KED-10057B	27	
SA-3	Drill (for Line-1, 650pitch, with client)	KED-10021C	2					
E-1	Cable Support Structure at GS Station End (L=1200)	KED-10028C	0					
E-2	Cable Support Structure at GS Station End (L=1200)	KED-10055B	0					

**NHPC** **NHPC Limited**  
(A CORP. OF INDIA (GOVERNMENT))

4 x 150 MVA PULSANT - III HYDROELECTRIC PROJECT STAGE-III (H.P.)

CONTRACT NO. NH/EP/PB-III/03/2005/1/4370 Dtd. 29. 12. 08  
BHHEL P.O.No. 4294485 PROJECT DOC.NO. IIT II-RP-03-00-048-02 REV. No. 02

CONTRACTOR  
**SHARAT HEAVY ELECTRICALS LTD.**  
TRANSMISSION PROJECTS DIVISION, BHOPAL

APPROVED BY: T.O.HNO. DESIGNER: T.SUMINO  
CHECKER: T.O.HNO. SCALE: N.T.S.  
TRACER: T.SUMINO DATE: Oct 15, 2010

DRAWING NO. KED-10060  
REV. B

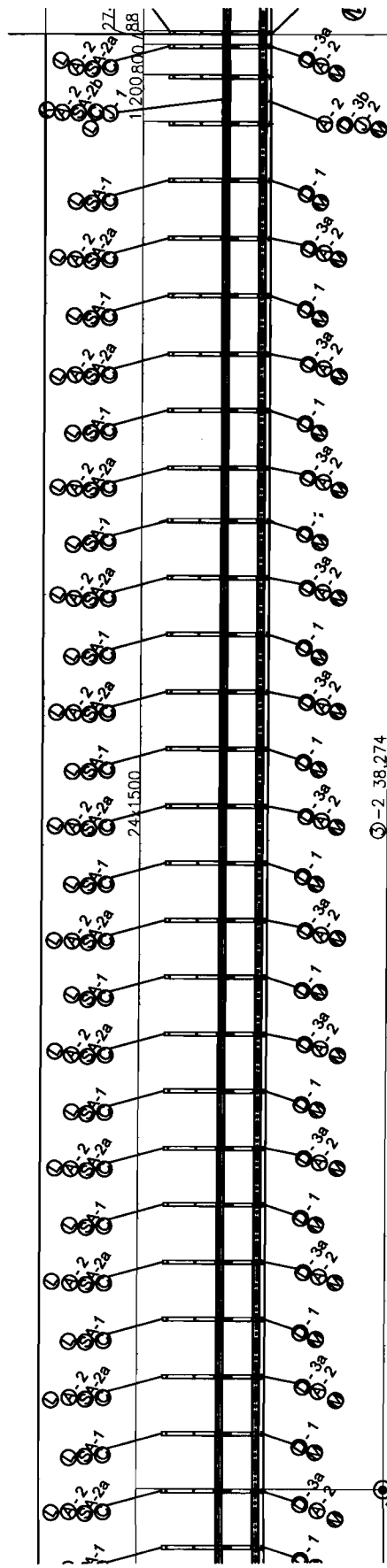


1500x24

③-2 38.274

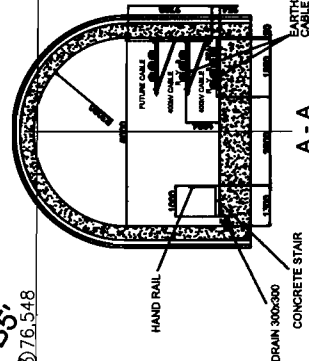
BS

③ 76.548



③-2 38.274

BS



A - A  
(RECOMMENDED)

No	Item	Q'ty	No	Item	Q'ty	Drawing No	Q'ty
A-1	Cable function type (without straining type)	0	E-2	Cable Support Structure at (S) Span End (L=3,000)	0	KED-100558	0
A-2	Cable function type (with straining type)	0	F-1	Pole (L=2,500)	0	KED-100558	0
B	Supporting structure for 400V Outdoor Switch End	0	F-2	Pole (L=4,000)	0	KED-100708	0
C	Angle Support	0	F-3	Pole (L=5,000)	0	KED-100758	0
D-1	Cable Support Structure on the tower for Line-2 (50kV)	12	G	Porcelain insulator	0	KED-100310	0
D-2	Pin (for Line-2, 50kV) (with steel)	12	H	Support for Pin	0	KED-100320	0
D-3	Pin (for Line-2, 50kV) (with steel)	12	I	Support for Pin	0	KED-100330	0
D-4	Pin (for Line-2, 50kV) (with steel)	12	J-1	Supporting line for Cable End at Span End (L=1,500)	0	KED-100450	0
D-5	Pin (for Line-2, 50kV) (with steel)	12	J-2	Supporting line for Cable End at Span End (L=1,500)	0	KED-100450	0
D-6	Pin (for Line-2, 50kV) (with steel)	12	J-3	Supporting line for Cable End at Span End (L=1,500)	0	KED-100450	0
D-7	Pin (for Line-2, 50kV) (with steel)	12	J-4	Supporting line for Cable End at Span End (L=1,500)	0	KED-100450	0
SA-1	Cable support structure for Line-1 (50kV) (with steel)	12	K	Reinforced cable support structure of steel end	0	KED-100738	0
SA-2	Cable support structure for Line-1 (50kV) (with steel)	12	L	Support for earth continuity cable (see Line-2)	26	KED-100778	26
SA-3	Cable support structure for Line-1 (50kV) (with steel)	12	M	Support for earth continuity cable (see Line-2)	26	KED-100578	26
F-1	Cable Support Structure at (S) Span End (L=4,000)	0					

NHPC Limited  
(A DIV. OF NHPC)

4 x 150 MVA PUMP - III HYDROELECTRIC PROJECT STAGE-III (L.P.)

CONTRACT NO NH/EP/78-11/03/2005/1/8370 Dtd. 28. 12. 08

BHEL P.O.No. 4294485 PROJECT DOC.No. NH-XUP-03-00-048-02 REV.No.02

CONTRACTOR BHARAT HEAVY ELECTRICALS LTD.

TRANSMISSION PROJECTS DIVISION, BHOPAL

APPRO BY T.OHNO DESIGNER T.SUMINO TITLE Cable Route Arrangement 4

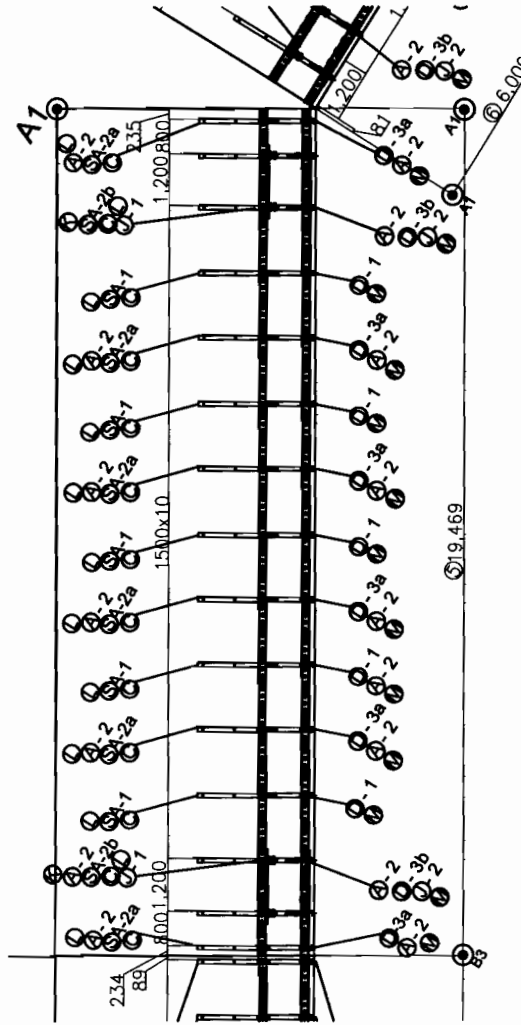
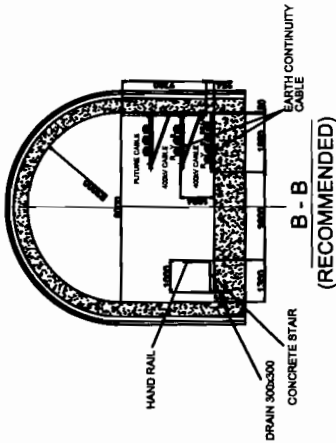
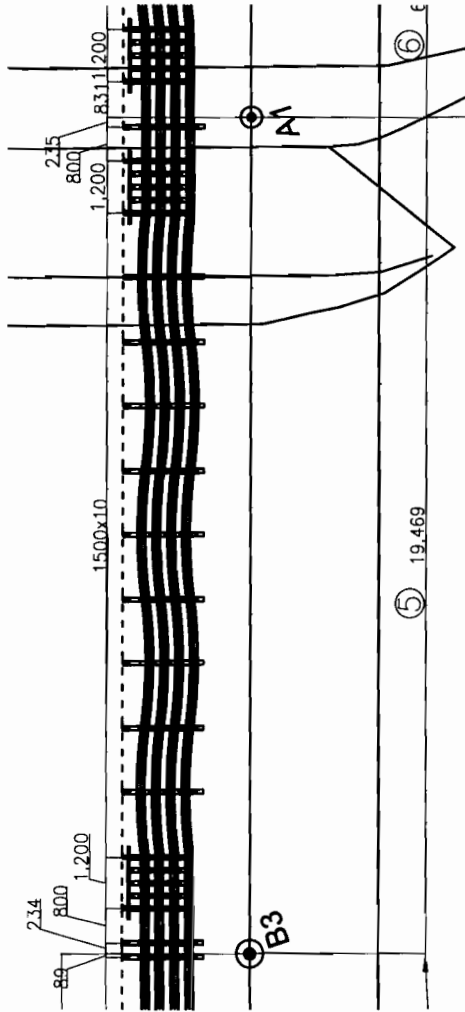
CHECKER T.OHNO SCALE N.T.S

TRACER T.SUMINO DATE Oct 15,2010

DRAWING NO. KED-10061 REV. B

POWER CABLE ALLIANCE OF FUJIKAWA AND FUJIKAWA, JAPAN



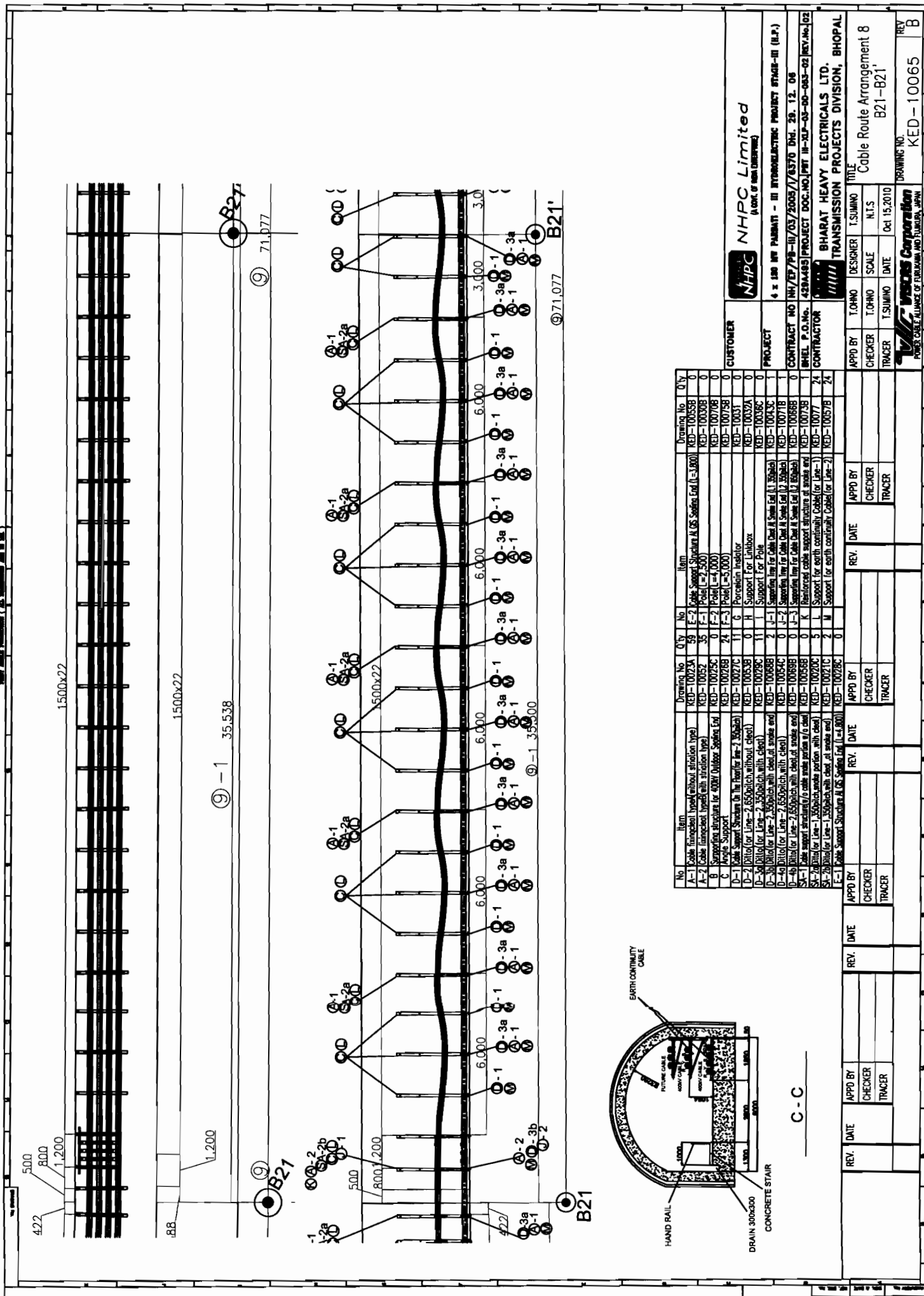


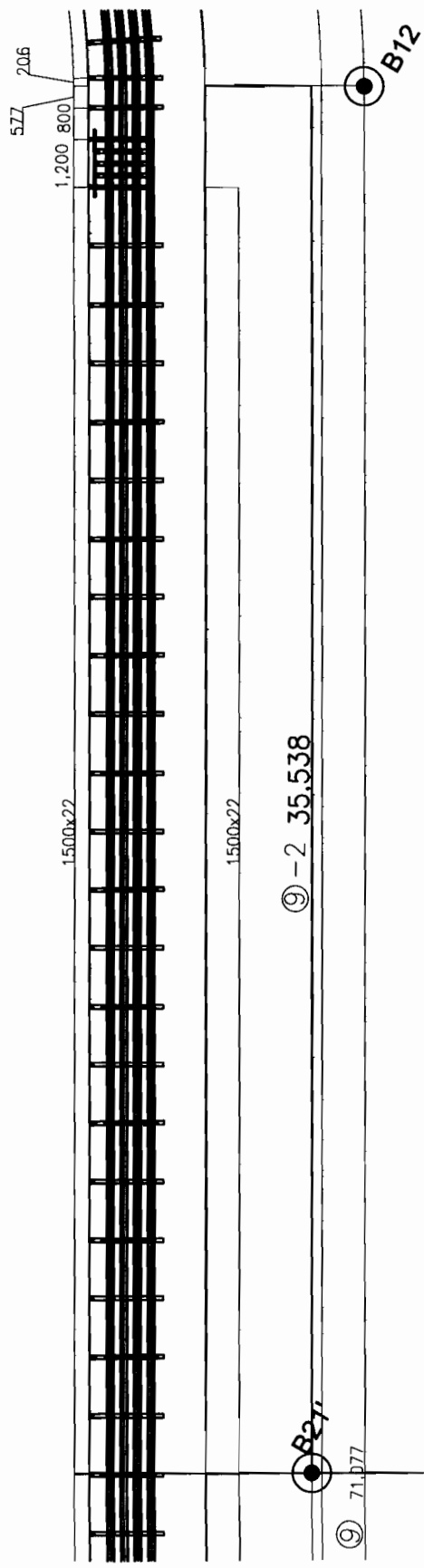
No	Item	Drawing No	Qty
A-1	Cable (transposed type) without striding type	KED-10023A	0
A-2	Cable (transposed type) with striding type	KED-10052	112
B	Supporting structure for 40KV Outdoor Scaffolding	KED-10025C	0
C	Angle Support	KED-10026B	15
D-1	Cable Support Structure On The Roof for Line-2, 250kV	KED-10027C	5
D-2	Bitto for Line-2, 650kV with steel	KED-10053B	0
D-3	Bitto for Line-2, 350kV with steel	KED-10028B	6
D-4	Bitto for Line-2, 350kV with steel at smoke end	KED-10068B	4
D-5	Bitto for Line-2, 650kV with steel	KED-10054C	0
D-6	Bitto for Line-2, 650kV with steel at smoke end	KED-10069B	0
SA-1	Cable support structure for Line-1, 350kV (a/c)	KED-10029C	5
SA-2	Bitto for Line-1, 350kV with steel	KED-10027C	4
E-1	Cable Support Structure At 65 Scaffolding (a/c)	KED-10028C	0
E-2	Cable Support Structure At 65 Scaffolding (a/c)	KED-10055B	0
F-1	Pole (L=7.500)	KED-10030B	0
F-2	Pole (L=4.000)	KED-10070B	0
F-3	Pole (L=5.000)	KED-10071B	0
G	Porcelain Insulator	KED-10031	0
H	Support For Linkbox	KED-10032A	0
I	Support For Pole	KED-10032B	0
J-1	Supporting Line for Cable Dead End (11.350kV)	KED-10043C	2
J-2	Supporting Line for Cable Dead End (12.350kV)	KED-10071B	2
J-3	Supporting Line for Cable Dead End (12.350kV)	KED-10068B	0
K	Reinforced cable support structure at smoke end	KED-10073B	2
L	Support for earth continuity cable (for Line-1)	KED-10077	15
M	Support for earth continuity cable (for Line-2)	KED-10057B	15

CUSTOMER		NHPC Limited (a corp. of India)	
PROJECT		A x 180 MW PUMPED - III HYDROELECTRIC PROJECT STAGE-III (H.P.)	
CONTRACT NO		NH/EP/PB-III/03/2005/1/4370 Dtd. 28. 12. 08	
SHEL P.O.No.		428A485 (PROJECT DOC.NO.)/H-III-EP-03-00-001-02 REV.No.02	
CONTRACTOR		BHARAT HEAVY ELECTRICALS LTD. TRANSMISSION PROJECTS DIVISION, BHOPAL	
APPD BY	T.O.NO	DESIGNER	T.SUNNO
CHECKER	T.O.NO	SCALE	N.T.S
TRACER	T.SUNNO	DATE	Oct 15, 2010
Cable Route Arrangement 6		B3-A1	
DRAWING NO.		KED-10063	
REV		B	

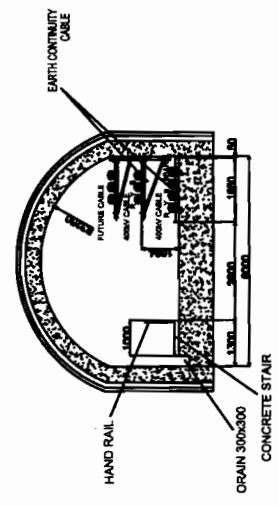
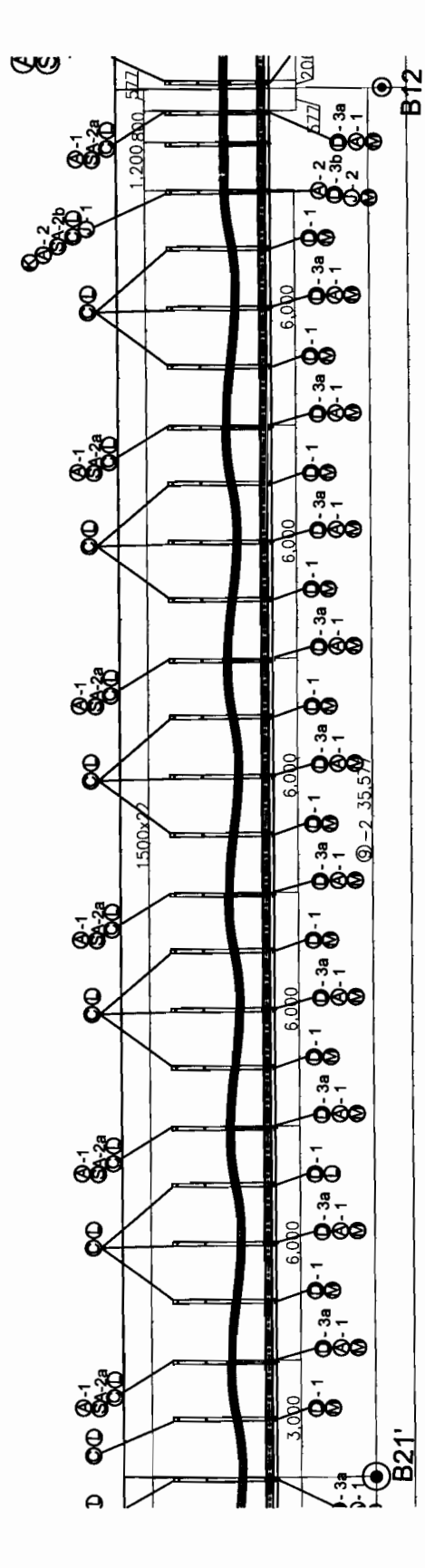








⑨ - 2 35.538

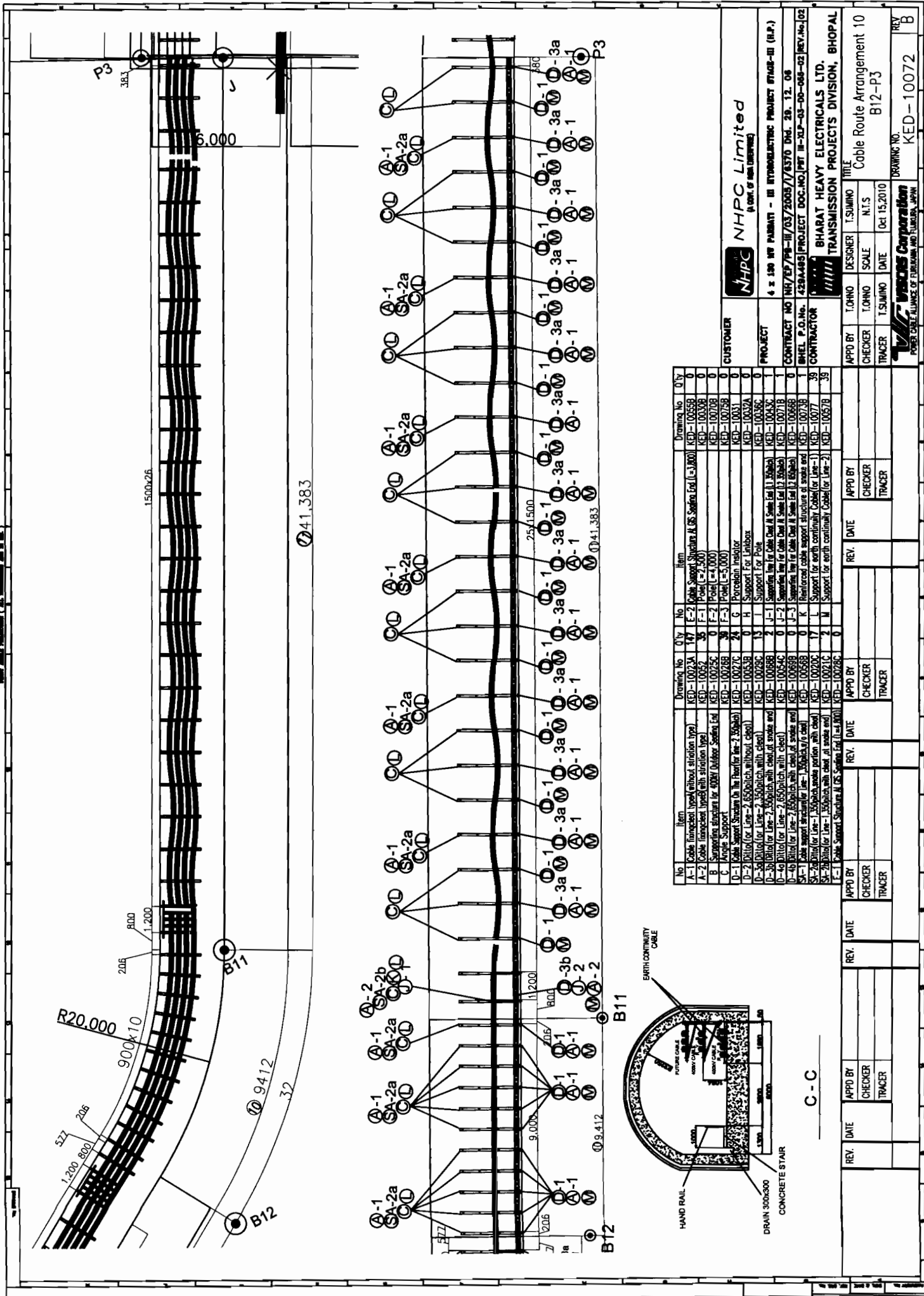


No.	Item	Drawing No.	Q'ty	No.	Item	Drawing No.	Q'ty
A-1	Cable (insulated type) without straining type	KED-1002A	0	E-2	Cable Support Structure II (CS) Section End (L=1,200)	KED-1005B	0
A-2	Cable (insulated type) with straining type	KED-1002B	0	F-1	Pole (H=2,500)	KED-1002B	0
B	Straining structure for cable support	KED-1002C	0	F-2	Pole (H=2,500)	KED-1002B	0
C	Straining structure for cable support	KED-1002D	0	F-3	Pole (H=2,500)	KED-1002B	0
D-1	Cable Support Structure (CS) Section End (L=1,200)	KED-1002E	0	G	Porcelain Insulator	KED-1003A	0
D-2	Pin for Line-2 (500kV) without cleat	KED-1002F	0	H	Support For Pole	KED-1003A	0
D-3	Pin for Line-2 (500kV) with cleat	KED-1002G	0	I	Support For Pole	KED-1003A	0
D-4	Pin for Line-2 (500kV) with cleat	KED-1002H	0	J-1	Straining Line for Cable End (L=1,200)	KED-1003C	0
D-5	Pin for Line-2 (500kV) with cleat	KED-1002I	0	J-2	Straining Line for Cable End (L=1,200)	KED-1003C	0
D-6	Pin for Line-2 (500kV) with cleat	KED-1002J	0	J-3	Straining Line for Cable End (L=1,200)	KED-1003C	0
D-7	Pin for Line-2 (500kV) with cleat	KED-1002K	0	K	Reinforced cable support structure at end of line	KED-1003D	0
D-8	Pin for Line-2 (500kV) with cleat	KED-1002L	0	L	Support for earth continuity cable (for Line-1)	KED-1007A	24
D-9	Pin for Line-2 (500kV) with cleat	KED-1002M	0	M	Support for earth continuity cable (for Line-2)	KED-1007B	24
D-10	Pin for Line-2 (500kV) with cleat	KED-1002N	0				

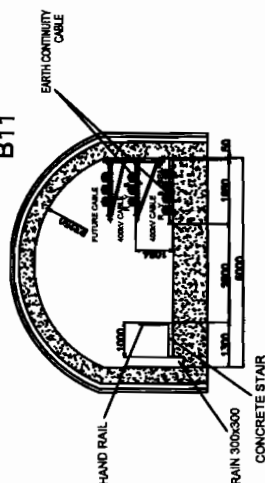
**NHPC Limited**  
(A CORP. OF INDIA)

**CUSTOMER**  
PROJECT  
4 x 130 MW PABHANI - III HYDROELECTRIC PROJECT STAGE-III (H.P.)  
CONTRACT NO. NH/EP/PB-III/03/2005/7/6370 Dtd. 29. 12. 06  
BHEL P.O. No. 4284483 PROJECT DOC. NO. PBT II-NP-03-00-084-02 REV. No. 02  
**CONTRACTOR**  
BHARAT HEAVY ELECTRICALS LTD.  
TRANSMISSION PROJECTS DIVISION, BHOPAL

**APPROVED BY**  
T.O.MO. DESIGNER T.SUNING  
CHECKER T.O.MO. SCALE N.T.S.  
TRACER T.SUNING DATE Oct 15, 2010  
TITLE  
Cable Route Arrangement 9  
B21'-B12  
DRAWING NO. KED-10067  
REV. B



No	Item	Drawing No	Q'ty	No	Item	Drawing No	Q'ty
A-1	Cable (insulated type) without strain type	KED-10023A	147	E-2	Pole Support Structure (1.6S Series) (x=100)	KED-10035B	0
B-1	Cable (insulated type) with strain type	KED-10025E	35	F-1	Pole (=2.5M)	KED-10030B	0
A-2	Sampling structure for AQMS Outdoor Station [rd]	KED-10029SE	0	F-2	Pole (=1.0M)	KED-10030B	0
C	Antenna Support	KED-10028B	24	F-3	Pole (=3.0M)	KED-10075B	0
D-1	Cable Support Structure On The Tower (for Line-2.5M) [rd]	KED-10027C	8	G	Porcelain Insulator	KED-10031	0
D-2	Ditto (or Line-2.5M) without cleat	KED-10053B	0	H	Support For Linobase	KED-10032A	0
D-3	Ditto (or Line-2.5M) with cleat	KED-10029C	13	I	Support For Pole	KED-10036C	0
D-4	Ditto (or Line-2.5M) with cleat at node and end	KED-10088B	2	J-1	Spanning Wire Cable Steel (S Series) (1.5 M) [rd]	KED-10043C	0
D-5	Ditto (or Line-2.5M) with cleat	KED-10054C	0	J-2	Spanning Wire Cable Steel (S Series) (1.5 M) [rd]	KED-10071B	1
D-6	Ditto (or Line-2.5M) with cleat at node and end	KED-10069B	0	K	Spanning Wire Cable Steel (S Series) (1.5 M) [rd]	KED-10068B	0
E-1	Cable support insulator (Line-1.5M) (x=6 clat)	KED-10056B	0	L	Reinforced cable support structure at node and end	KED-10073B	1
G-1	Ditto (or Line-1.5M) same as item L	KED-10020C	17	M	Support for earth continuity cable (or Line-1)	KED-10077	39
G-2	Ditto (or Line-1.5M) with cleat at node and end	KED-10021C	2	N	Support for earth continuity cable (or Line-2)	KED-10057B	39

[illegible][illegible][illegible]

۷۰


**NHPC Limited**

CO-11117  
A COPY OF NEW [REDACTED]

4 x 130 MW PARBATI - III HYDROELECTRIC PROJECT STAGE-III (H.P.)

11/4/EP/P8-III/03/2005/17570	DD	29.12.06
------------------------------	----	----------

4429A495 PROJECT DOC. NO. PBT III-XLP-03-DO-065-02 REV. No. 02

**BHABAT HEAVY ELECTRICALS LTD**

//////  
BHARAT HEAVY ELECTRICALS LTD.  
TRANSMISSION PROJECTS DIVISION, BHOPAL

NO	DESIGNER	T SILINGO	TITLE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

NO.	DESIGNER	1.50 MIN
NO.	SCALE	N.T.S.

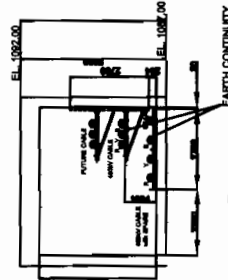
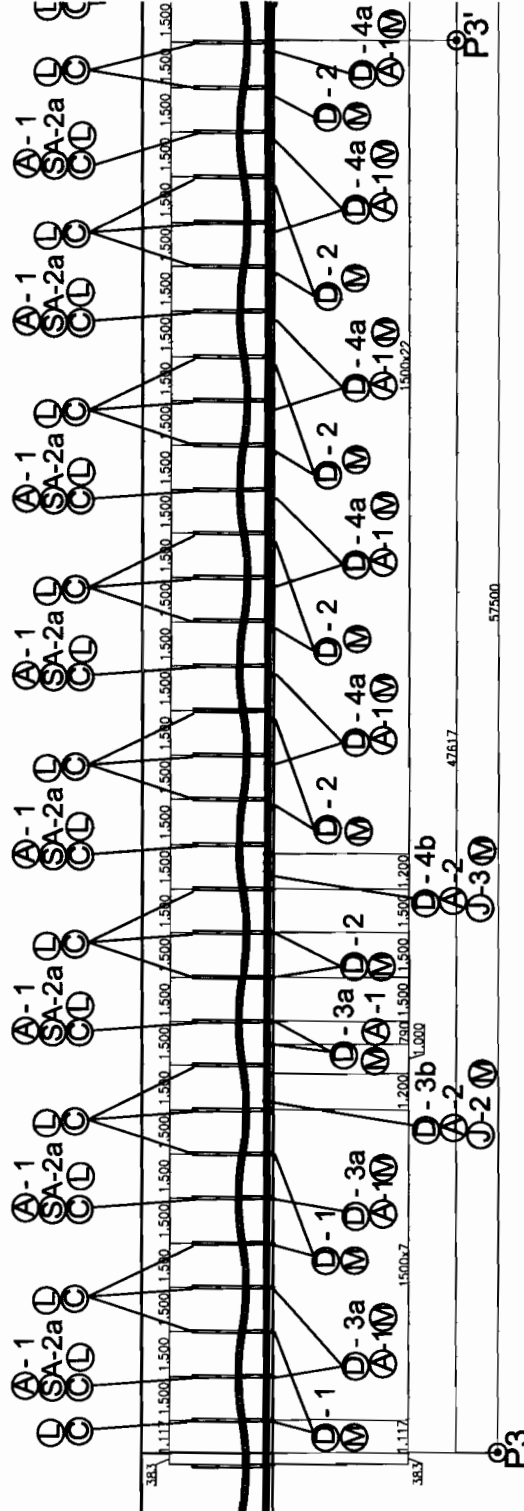
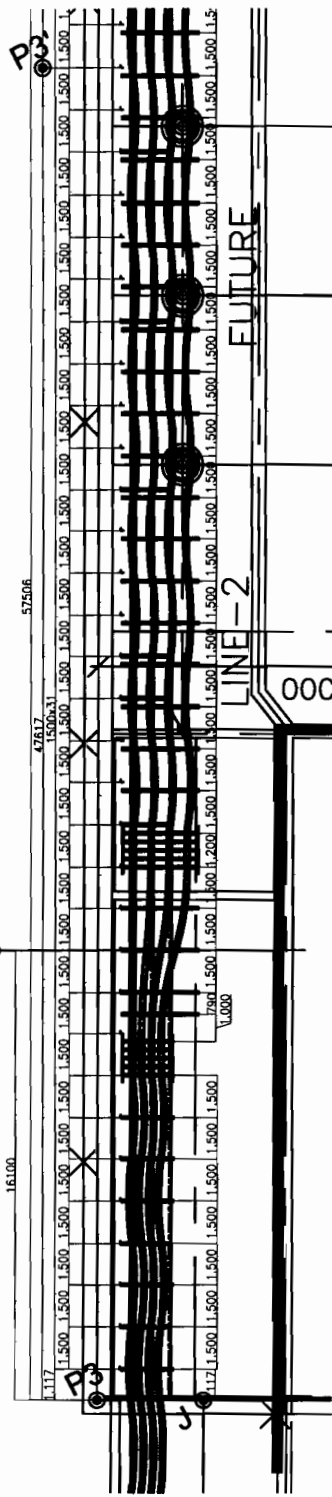
NO	SCALE	N.I.S
1	1:1	0.1 45 0010

INNO	DATE	DEL 15,2010	PROVVISIO	PROV
------	------	-------------	-----------	------

**TRSCS Corporation**  
DRAWING NO. KED-10072  
REV B

INSTITUTE OF FUKUKIYAMA AND FUKUKIYAMA, JAPAN

Cable Spacing  
LINE1 S=350  
LINE2 S=850



No	Item	Drawing No	Q'ty	No	Item	Drawing No	Q'ty
A-1	Cable (insulated type) without aircon type	KED-10023A	80	E-2	Cable Support Structure At GS Station End (L=3,000)	KED-10055B	0
A-2	Cable (insulated type) with aircon type	KED-10052	40	F-1	Pole (L=2,500)	KED-10030A	0
B	Supporting structure for 400V Outdoor Switch End	KED-10025C	0	F-2	Pole (L=1,000)	KED-10070B	0
C	Anchor Support	KED-10025B	32	F-3	Pole (L=5,000)	KED-10075B	0
D-1	Cable Support Structure On the tower for line-2 (50kV)	KED-10027C	4	G	Porcelain insulator	KED-10075A	0
D-2	Splitter for Line-2 (50kV) with aircon	KED-10027C	1	H	Support For Pole	KED-10075A	0
D-3a	Splitter for Line-2 (50kV) without aircon	KED-10028B	5	I	Support For Pole	KED-10075A	0
D-3b	Splitter for Line-2 (50kV) with aircon	KED-10028B	2	J-1	Supporting structure for cable end at station end	KED-10043C	0
D-4a	Splitter for Line-2 (50kV) with aircon	KED-10028B	2	J-2	Supporting structure for cable end at station end	KED-10071B	0
D-4b	Splitter for Line-2 (50kV) without aircon	KED-10028B	2	J-3	Supporting structure for cable end at station end	KED-10068B	0
SA-1	Cable support structure for line-1 (50kV) with aircon	KED-10055B	0	K	Reinforced cable support structure at station end	KED-10075B	32
SA-2	Cable support structure for line-1 (50kV) without aircon	KED-10055B	0	L	Support for earth continuity cable for line-1	KED-10075B	32
SA-3	Splitter for Line-1 (50kV) with aircon	KED-10027C	0	M	Support for earth continuity cable for line-2	KED-10057B	32
E-1	Cable Support Structure At GS Station End (L=3,000)	KED-10028B	0				

**NHPC Limited**  
(A CORP. OF INDIA)

PROJECT 4 x 100 MW PAUNAGI - III HYDROELECTRIC PROJECT STAGE-III (N.P.)

CONTRACT NO NH/EP/PS-III/03/2005/1/6370 Dtd. 28. 12. 06

SMEL P.O.No. 429A485/PROJECT DOC.NO./PMT III-NLP-03-00-068-02 REV.02

CONTRACTOR BHARAT HEAVY ELECTRICALS LTD.

TRANSMISSION PROJECTS DIVISION, BHOPAL

APPROVED BY T.O.HNO DESIGNER T.SUMNO TITLE

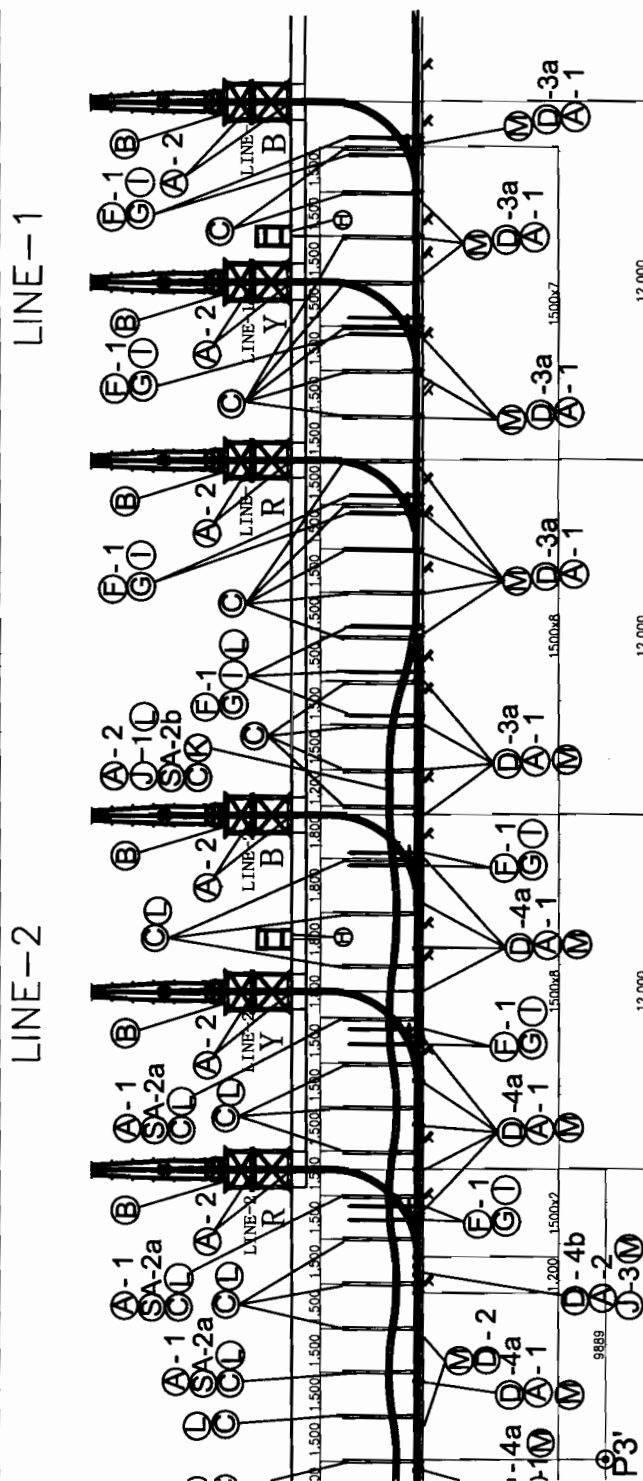
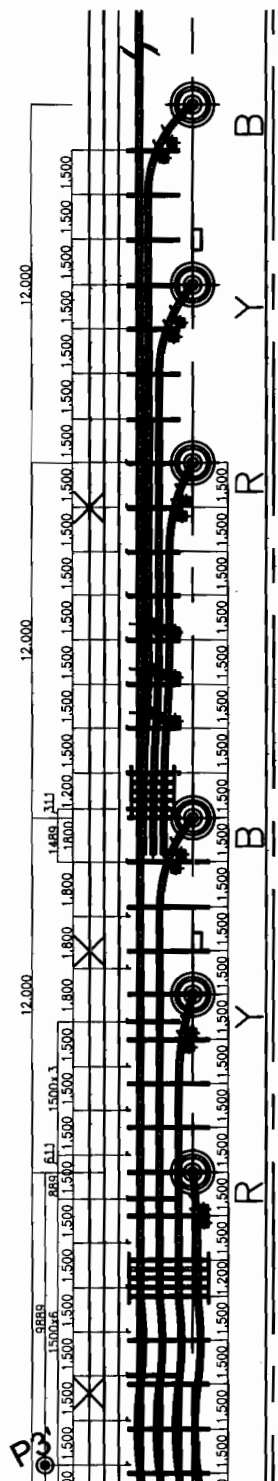
Cable Route Arrangement 11

AT POHEAD YARD P3-P3'


DATE 15.10.2010

REVISION NO. KED-10074

REV B



No	Item	Drawing No	Qty	No	Item	Drawing No	Qty
A-1	Cable (without joint)(without striction type)	KED-10023A	71	E-2	Cable Support Structure (at 500' Spacing (at 1-2000))	KED-100055B	0
A-2	Cable (without joint)(with striction type)	KED-100252	4	F-1	Plate (Size = 2x6)	KED-10030B	21
B	Supporting structure for 400W Outdoor Sealing (see Fig. 1)	KED-100256	6	F-2	Plate (Size = 2x6)	KED-100708	0
C	Antenna Support	KED-100268	29	F-3	Plate (Size = 3'x300)	KED-100758	0
D-1	Cable Support Structure (in the Frontier (see-2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000)	KED-10027C	0	G	Porcelain Insulator	KED-100301	21
D-2	Plate (for Line-2, 250kV, without client)	KED-100538	2	H	Support for Limbair	KED-10032A	0
D-3	Plate (for Line-2, 250kV, with client)	KED-100296	16	I	Support for Pole	KED-100366C	21
D-4	Plate (for Line-2, 250kV, with client)	KED-100368	0	J-1	Sealing ring for cable (at 1/2 Spacing)	KED-10043C	1
D-4a	Plate (for Line-2, 250kV, with client)	KED-100542	10	J-2	Sealing ring for cable (at 1/2 Spacing)	KED-100718	0
D-4b	Plate (for Line-2, 250kV, with client)	KED-100368	2	J-3	Sealing ring for cable (at 1/2 Spacing)	KED-100368	1
D-4c	Plate (for Line-2, 250kV, with client)	KED-100538	0	K	Reinforced concrete structure of steele and	KED-100738	1
D-5	Plate (for Line-1, 250kV, same portion with client)	KED-100202	3	L	Support for earth continuity (Cable for Line-1)	KED-10077	18
D-6	Plate (for Line-1, 250kV, with client)	KED-100216	2	M	Support for earth continuity (Cable for Line-2)	KED-10057B	30
E-1	Plate (for Line-1, 250kV, with client)	KED-100266	0				

TITLE	Cable Route Arrangement 12 AT POTHEAD YARD P3'
DRAWING NO.	KED-10079
REV	B
DESIGNER	T.SUMINO
CHECKER	N.T.S.
DATE	Oct 15, 2010
 <b>VFC</b> <i>Welding Corporation</i> POWER CABLE ALLIANCE OF FUJIKAWA AND TSUBARA, JAPAN	
APPRO BY	TOHNO
TRACER	T.SUMINO
SCALE	TOHNO

BY	DATE	APPROVED BY	DATE	APPROVED BY	DATE
CHECKER		CHECKER		CHECKER	
TRACER		TRACER		TRACER	

[illegible]