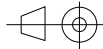




400/230 KV NORTHERN SITE INTERFACE S/S

Earthing System Detail drawings

D		M.N	1403/11	ISSUE FOR APPROVE	
C		M.N	1403/10	ISSUE FOR APPROVE	
B		M.N	1403/09	ISSUE FOR APPROVE	
A		M.N	1403/09	ISSUE FOR APPROVE	
Z		M.N	1403/08	ORIGINAL ISSUE	
REV.	VERIFIED	DRAWN	DATE	DESCRIPTION	
		DATE:	NAME:	SCALE: –	STANDARD:
DRAWN		1403/11	M.NOORI	SUBJECT: 400/230 KV NORTHERN SITE INTERFACE S/S Earthing System Detail drawings	
DESIGNED		1403/11	M.NOORI		
CHECKED		1403/11	M.NOORI		
APPROVED		1403/11	M.DANESHPOU		
CONTRACT NO:				DRAWING NO: 784301-TV-4-AS-2-KKK-3-EHV-017-1	
CONSULTANT:			CONTRACTOR:		CLIENT:
GHODS NIROO ENGINEERING COMPANY (G.N.E.C)			MOHAM SHARGH CO.		 P.G.M.I.S.E.Z
CONSU. REF:			CONT. REF:		CLIEN REF:

A

B

C

D

E

F

LIST OF CONTENTS

SHEET NO.	DESCRIPTION	REVISION				
		Z	A	B	C	D
1	INDEX	✓	✓	✓	✓	✓
2	CADWELD CONNECTION	✓	✓	✓	✓	✓
3	CADWELD CONNECTION	✓	✓	✓	✓	✓
4	JOINT & ACCESORIES	✓	✓	✓	✓	✓
5	JOINT & ACCESORIES	✓	✓	✓	✓	✓
6	JOINT & ACCESORIES	✓	✓	✓	✓	✓
7	JOINT & ACCESORIES	✓	✓	✓	✓	✓
8	JOINT & ACCESORIES	✓	✓	✓	✓	✓
9	JOINT & ACCESORIES	✓	✓	✓	✓	✓
10	JOINT & ACCESORIES	✓	✓	✓	✓	✓
11	LIGHTNING ARRESTER (400KV SIDE)	✓	✓	✓	✓	✓
12	CURRENT TRANSFORMER (400KV SIDE)	✓	✓	✓	✓	✓
13	CAPACITIVE VOLTAGE TRANSFORMER (400KV SIDE)	✓	✓	✓	✓	✓
14	CIRCUIT BREAKER (400KV SIDE)	✓	✓	✓	✓	✓
15	DISCONNECTOR SWITCH (400KV SIDE)	✓	✓	✓	✓	✓
16	DISCONNECTOR SWITCH WITH LEFT MOUNTED BARTHING SWITCH (400KV SIDE)	✓	✓	✓	✓	✓
17	DISCONNECTOR SWITCH WITH RIGHT MOUNTED BARTHING SWITCH (400KV SIDE)	✓	✓	✓	✓	✓
18	POST INSULATOR (400KV SIDE)	✓	✓	✓	✓	✓
19	GANTRY (400KV SIDE)	✓	✓	✓	✓	✓
20	POWER TRANSFORMER (SIDE VIEW)	✓	✓	✓	✓	✓
21	NEUTRAL CURRENT TRANSFORMER (FOR P.TR)	✓	✓	✓	✓	✓
22	AUXILIARY/EARTHING TRANSFORMER	✓	✓	✓	✓	✓
23	NCT (FOR PTR)	✓	✓	✓	✓	✓
24	LIGHTNING ARRESTER (230KV SIDE)	✓	✓	✓	✓	✓
25	CAPACITIVE VOLTAGE TRANSFORMER (230KV SIDE)	✓	✓	✓	✓	✓
26	DISCONNECTOR SWITCH (400KV SIDE)	✓	✓	✓	✓	✓
27	DISCONNECTOR SWITCH WITH EARTHING SWITCH (230KV SIDE)	✓	✓	✓	✓	✓
28	CURRENT TRANSFORMER (230KV SIDE)	✓	✓	✓	✓	✓
29	CIRCUIT BREAKER (230KV SIDE)	✓	✓	✓	✓	✓
30	CIRCUIT BREAKER (230KV SIDE)	✓	✓	✓	✓	✓
31	POST INSULATOR (230KV SIDE)	✓	✓	✓	✓	✓
32	GANTRY (230KV SIDE)	✓	✓	✓	✓	✓
33	NCT (FOR AUX/ER.TR)	✓	✓	✓	✓	✓
34	LIGHTING POLE	✓	✓	✓	✓	✓
35	CABLE SUPPORTER SYSTEM	✓	✓	✓	✓	✓
36	PANELS	✓	✓	✓	✓	✓
37	FENCE	✓	✓	✓	✓	✓
38	EARTH MAT	✓	✓	✓	✓	✓
39	EARTH PIT	✓	✓	✓	✓	✓
40	DOOR	✓	✓	✓	✓	✓
41	BATTERY SUPPORTER	✓	✓	✓	✓	✓
42	BUILDING STRUCTURE & PIPING	✓	✓	✓	✓	✓
43	DIESEL GENERATOR	✓	✓	✓	✓	✓
44	BUILDING(LIGHTNING PROTECTION)		✓	✓	✓	✓
45	PIPING				✓	✓

A

B

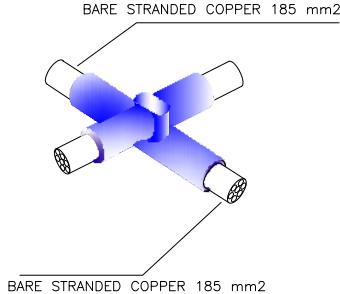
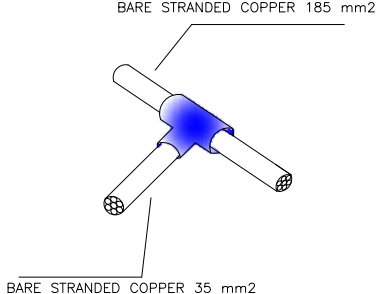
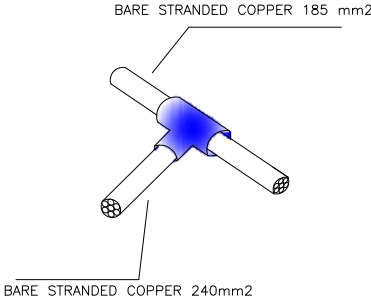
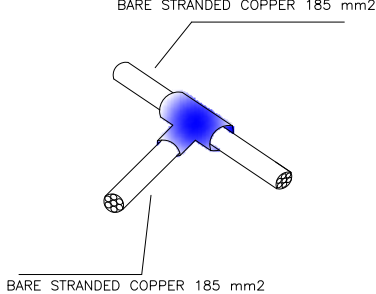
C

D

E

F

CADWELD CONNECTIONS

SYMBOL	A	FIGURE: 	SYMBOL	C	FIGURE: 												
TYPE: CROSS CONNECTION CADWELD CONNECTION OF 185 mm2 CONDUCTOR TO 185 mm2 CONDUCTOR			TYPE: TEE CONNECTION CADWELD CONNECTION OF 185 mm2 CONDUCTOR TO 35 mm2 CONDUCTOR														
<table><tr><td>type</td><td>catridge</td><td>handle clamp</td></tr><tr><td>CX-A</td><td>2*C-250</td><td>KM78S</td></tr></table>			type	catridge	handle clamp	CX-A	2*C-250	KM78S	<table><tr><td>type</td><td>catridge</td><td>handle clamp</td></tr><tr><td>CT-A</td><td>C-115</td><td>KM58</td></tr></table>			type	catridge	handle clamp	CT-A	C-115	KM58
type	catridge	handle clamp															
CX-A	2*C-250	KM78S															
type	catridge	handle clamp															
CT-A	C-115	KM58															
SYMBOL	B	FIGURE: 	SYMBOL	D	FIGURE: 												
TYPE: TEE CONNECTION CADWELD CONNECTION OF 185 mm2 CONDUCTOR TO 240 mm2 CONDUCTOR			TYPE: TEE CONNECTION CADWELD CONNECTION OF 185 mm2 CONDUCTOR TO 185 mm2 CONDUCTOR														
<table><tr><td>type</td><td>catridge</td><td>handle clamp</td></tr><tr><td>CT-A</td><td>C-150</td><td>KM58</td></tr></table>			type	catridge	handle clamp	CT-A	C-150	KM58	<table><tr><td>type</td><td>catridge</td><td>handle clamp</td></tr><tr><td>CT-A</td><td>C-200</td><td>KM58</td></tr></table>			type	catridge	handle clamp	CT-A	C-200	KM58
type	catridge	handle clamp															
CT-A	C-150	KM58															
type	catridge	handle clamp															
CT-A	C-200	KM58															

A

B

C

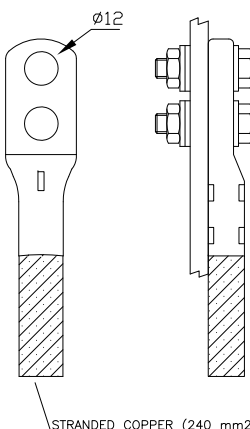
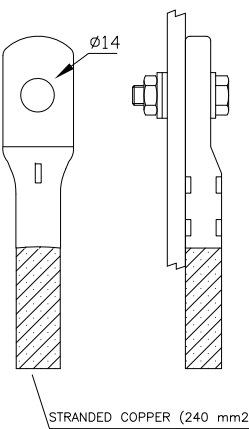
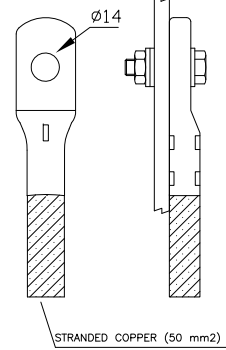
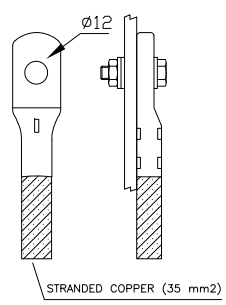
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



E

F

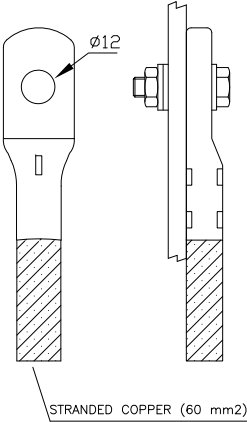
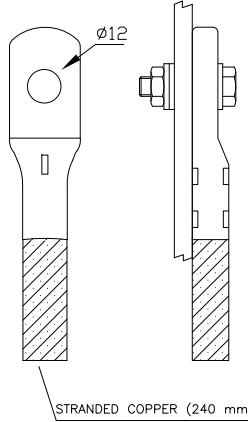
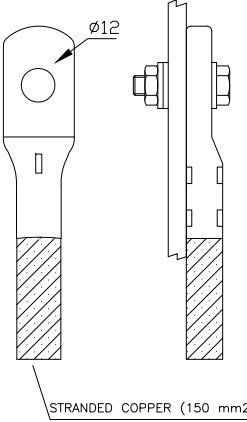
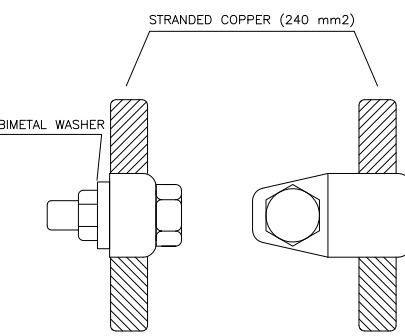
1	2	3	4	5	6	7	8												
CADWELD CONNECTIONS																			
SYMBOL <div>E</div>		FIGURE: <div><div>BARE STRANDED COPPER 240mm2</div><div>EARTHING ROD (L=1.5 m ,ø=3/4")</div><div>ROD CUPLER</div><div>EARTHING ROD (L=1.5 m ,ø=3/4")</div></div>		SYMBOL <div>G</div>		FIGURE: <div><div>BARE STRANDED COPPER 185 mm2</div><div>BARE STRANDED COPPER 150mm2</div></div>													
TYPE: TEE CONNECTION CADWELD CONNECTION OF 240 mm2 CONDUCTOR TO EARTHING ROD (EARTHING ROD: L=3 m ,ø=3/4") <table><tr><td>type</td><td>catridge</td><td>handle clamp</td></tr><tr><td>CR-T</td><td>C-250</td><td>KM58</td></tr></table>		type	catridge	handle clamp	CR-T	C-250	KM58			TYPE: TEE CONNECTION CADWELD CONNECTION OF 185 mm2 CONDUCTOR TO 150 mm2 CONDUCTOR <table><tr><td>type</td><td>catridge</td><td>handle clamp</td></tr><tr><td>CT-A</td><td>C-115</td><td>KM58</td></tr></table>		type	catridge	handle clamp	CT-A	C-115	KM58		
type	catridge	handle clamp																	
CR-T	C-250	KM58																	
type	catridge	handle clamp																	
CT-A	C-115	KM58																	
SYMBOL <div>F</div>		FIGURE: <div><div>BARE STRANDED COPPER 150mm2</div><div>EARTHING ROD (L=1.5 m ,ø=3/4")</div><div>ROD CUPLER</div><div>EARTHING ROD (L=1.5 m ,ø=3/4")</div></div>		SYMBOL <div>H</div>		FIGURE:													
TEE CONNECTION CADWELD CONNECTION OF 150 mm2 CONDUCTOR TO EARTHING ROD (EARTHING ROD: L=3 m ,ø=3/4") <table><tr><td>type</td><td>catridge</td><td>handle clamp</td></tr><tr><td>CR-T</td><td>C-250</td><td>KM58</td></tr></table>		type	catridge	handle clamp	CR-T	C-250	KM58												
type	catridge	handle clamp																	
CR-T	C-250	KM58																	

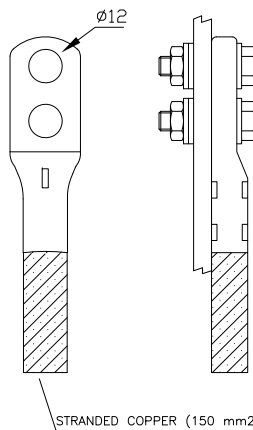
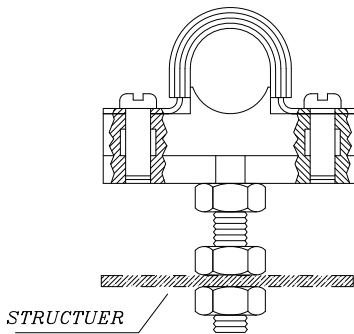
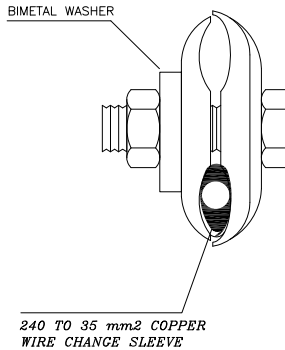
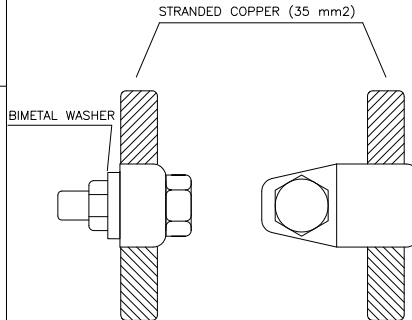
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C	ISSUE FOR APPROVE	03/10					M. NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09					M. NOORI	1403/11			Sheet: 3
A	ISSUE FOR APPROVE	03/09					M. DANESHPOU	1403/11			Total : 45
REV.	Description.	DATE	GHODS NIROO ENGINEERING COMPANY(G.N.E.C)	P.G.M.I.S.E.Z	MOHAM SHARGH GROUP				DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	





1	2	3	4	5	6	7	8
EARTH JOINTS AND ACCESSORIES							
SYMBOL	1	FIGURE: 	SYMBOL	2	FIGURE: 		
DESCRIPTION: CABLE LUG (TWO HOLE) SUITABLE FOR 240 mm2 CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE)			DESCRIPTION: CABLE LUG (ONE HOLE) SUITABLE FOR 240 mm2 CONDUCTOR HOLE DIAMETER : 14mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)				
SYMBOL	3	FIGURE: 	SYMBOL	4	FIGURE: 		
DESCRIPTION: CABLE LUG (ONE HOLE) SUITABLE FOR 50 mm2 CONDUCTOR HOLE DIAMETER : 14mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)			DESCRIPTION: CABLE LUG (ONE HOLE) SUITABLE FOR 35 mm2 CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)				

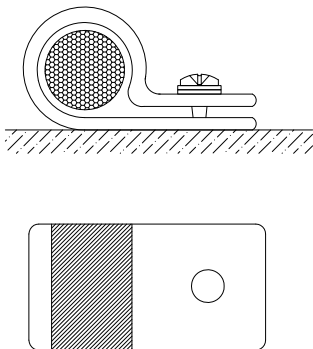
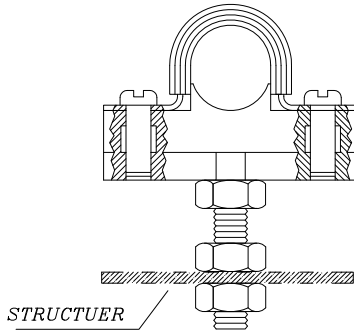
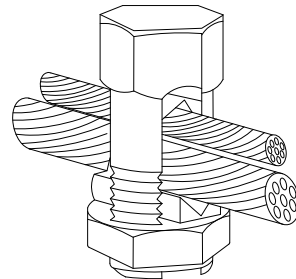
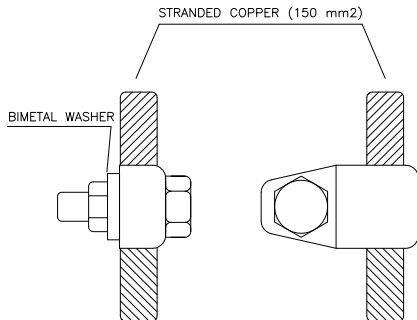
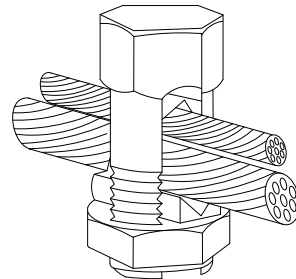
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C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4		
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11		Project No:	Sheet: 4		
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Contract No:	Total : 45	
REV.	Description.	DATE							APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	



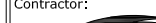

EARTH JOINTS AND ACCESSORIES

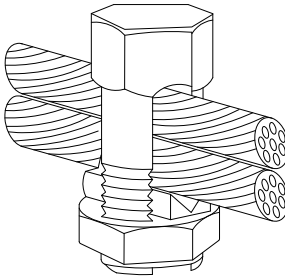
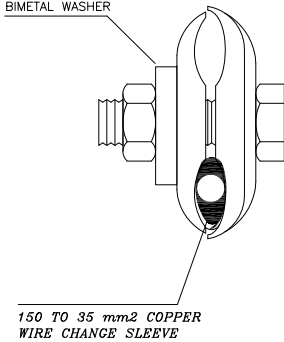
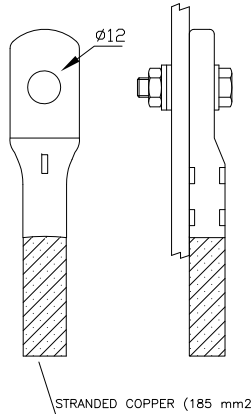
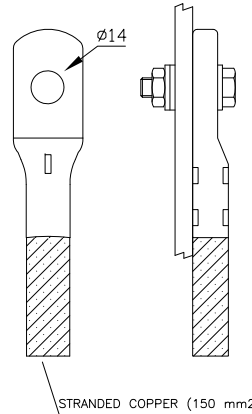
SYMBOL	5	FIGURE: 	SYMBOL	6	FIGURE: 
DESCRIPTION: CABLE LUG (ONE HOLE) SUITABLE FOR 60 mm² CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL) MATERIAL: CU-TIN PLATED			DESCRIPTION: CABLE LUG (ONE HOLE) SUITABLE FOR 240 mm² CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)		
SYMBOL	7	FIGURE: 	SYMBOL	8	FIGURE: 
DESCRIPTION: CABLE LUG (ONE HOLE) SUITABLE FOR 150 mm² CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)			DESCRIPTION: CABLE SUPPORT SUITABLE FOR 240 mm² CONDUCTOR (FOR FIXING CONDUCTOR ON STRUCTURE) CLAMP MATERIAL: BRASS CLAMP BOLT: M10*80 (HOT DIP GALVANIZED)		

1	2	3	4	5	6	7	8	
A	EARTH JOINTS AND ACCESSORIES							A
B	SYMBOL	9	FIGURE: 	SYMBOL	10	FIGURE: 	B	
C	DESCRIPTION: CABLE LUG (TWO HOLE) SUITABLE FOR 150 mm2 CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE)		DESCRIPTION: 1 WAY EARTHING CLAMP SUITABLE FOR 50 mm2 CABLE (FOR FIXING CABLE ON STRUCTURE) CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)		C			
D	SYMBOL	11	FIGURE: 	SYMBOL	12	FIGURE: 	D	
E	DESCRIPTION: GROUNDING WIRE CLAMP CONNECTION OF 240 mm2 CONDUCTOR TO 35 mm2 CONDUCTOR (FOR CONNECTING EARTHING CONDUCTOR ON STRUCTURE) CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)		DESCRIPTION: CABLE SUPPORT SUITABLE FOR 35 mm2 CONDUCTOR (FOR FIXING CONDUCTOR ON STRUCTURE) CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)		E			
F								F

D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: JOINT & ACCESORIES	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			Sheet: 6
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Total : 45
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11			DWG NO:764301-TV-4-AS-2-KKK-3-EHV-017-1

1	2	3	4	5	6	7	8		
A	EARTH JOINTS AND ACCESSORIES							A	
B	<div>SYMBOL</div> <div>13</div>		<div>FIGURE:</div> <div></div>		<div>SYMBOL</div> <div>14</div>		<div>FIGURE:</div> <div></div>		B
C	<div>DESCRIPTION:</div> <div>ONE HOLE CABLE CLIP SUITABLE FOR 240 mm2 CONDUCTOR</div>		<div>DESCRIPTION:</div> <div>1 WAY EARTHING CLAMP SUITABLE FOR 240 mm2 CABLE (FOR FIXING CABLE ON STRUCTURE)</div> <div>CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)</div>		<div>DESCRIPTION:</div> <div>CONNECTOR CLAMP (SUITABLE FOR CONNECTING OF 35mm2 CONDUCTOR TO 185mm2 CONDUCTOR)</div>		<div>FIGURE:</div> <div></div>		C
D	<div>SYMBOL</div> <div>15</div>		<div>FIGURE:</div> <div></div>		<div>SYMBOL</div> <div>16</div>		<div>FIGURE:</div> <div></div>		D
E	<div>DESCRIPTION:</div> <div>CABLE SUPPORT SUITABLE FOR 150 mm2 CONDUCTOR (FOR FIXING CONDUCTOR ON STRUCTURE)</div> <div>CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)</div>		<div>DESCRIPTION:</div> <div>CONNECTOR CLAMP (SUITABLE FOR CONNECTING OF 35mm2 CONDUCTOR TO 185mm2 CONDUCTOR)</div>		<div>DESCRIPTION:</div> <div>CONNECTOR CLAMP (SUITABLE FOR CONNECTING OF 35mm2 CONDUCTOR TO 185mm2 CONDUCTOR)</div>		<div>DESCRIPTION:</div> <div>CONNECTOR CLAMP (SUITABLE FOR CONNECTING OF 35mm2 CONDUCTOR TO 185mm2 CONDUCTOR)</div>		E
F								F	

D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: JOINT & ACCESORIES	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11		Project No:	Sheet: 7
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Contract No:
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1		

1	2	3	4	5	6	7	8		
A	EARTH JOINTS AND ACCESSORIES							A	
B	<div>SYMBOL</div> <div>17</div>		<div>FIGURE:</div> <div></div>		<div>SYMBOL</div> <div>18</div>		<div>FIGURE:</div> <div></div>		B
C	<div>DESCRIPTION:</div> <div>CONNECTOR CLAMP (SUITABLE FOR CONNECTING OF 150mm2 CONDUCTOR TO 185mm2 CONDUCTOR)</div>		<div>DESCRIPTION:</div> <div>GROUNDING WIRE CLAMP CONNECTION OF 150 mm2 CONDUCTOR TO 35 mm2 CONDUCTOR (FOR CONNECTING EARTHING CONDUCTOR ON STRUCTURE) CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)</div>		<div>DESCRIPTION:</div> <div>GROUNDING WIRE CLAMP CONNECTION OF 150 mm2 CONDUCTOR TO 35 mm2 CONDUCTOR (FOR CONNECTING EARTHING CONDUCTOR ON STRUCTURE) CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)</div>		<div>DESCRIPTION:</div> <div>GROUNDING WIRE CLAMP CONNECTION OF 150 mm2 CONDUCTOR TO 35 mm2 CONDUCTOR (FOR CONNECTING EARTHING CONDUCTOR ON STRUCTURE) CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)</div>		C
D	<div>SYMBOL</div> <div>19</div>		<div>FIGURE:</div> <div></div>		<div>SYMBOL</div> <div>20</div>		<div>FIGURE:</div> <div></div>		D
E	<div>DESCRIPTION:</div> <div>CABLE LUG (ONE HOLE) SUITABLE FOR 185 mm2 CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)</div>		<div>DESCRIPTION:</div> <div>CABLE LUG (ONE HOLE) SUITABLE FOR 150 mm2 CONDUCTOR HOLE DIAMETER : 14mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)</div>		<div>DESCRIPTION:</div> <div>CABLE LUG (ONE HOLE) SUITABLE FOR 150 mm2 CONDUCTOR HOLE DIAMETER : 14mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)</div>		<div>DESCRIPTION:</div> <div>CABLE LUG (ONE HOLE) SUITABLE FOR 150 mm2 CONDUCTOR HOLE DIAMETER : 14mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)</div>		E
F	<div>DESCRIPTION:</div> <div>CABLE LUG (ONE HOLE) SUITABLE FOR 185 mm2 CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)</div>		<div>DESCRIPTION:</div> <div>CABLE LUG (ONE HOLE) SUITABLE FOR 150 mm2 CONDUCTOR HOLE DIAMETER : 14mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)</div>		<div>DESCRIPTION:</div> <div>CABLE LUG (ONE HOLE) SUITABLE FOR 150 mm2 CONDUCTOR HOLE DIAMETER : 14mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)</div>		<div>DESCRIPTION:</div> <div>CABLE LUG (ONE HOLE) SUITABLE FOR 150 mm2 CONDUCTOR HOLE DIAMETER : 14mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)</div>		F

DESCRIPTION:

CONNECTOR CLAMP
(SUITABLE FOR CONNECTING OF 150mm² CONDUCTOR TO 185mm² CONDUCTOR)

DESCRIPTION:

GROUNDING WIRE CLAMP
CONNECTION OF 150 mm² CONDUCTOR TO 35 mm² CONDUCTOR
(FOR CONNECTING EARTHING CONDUCTOR ON STRUCTURE)





CLAMP MATERIAL: BRASS
CLAMP BOLT: M10*80 (HOT DIP GALVANIZED)

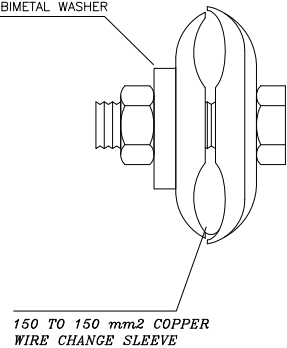
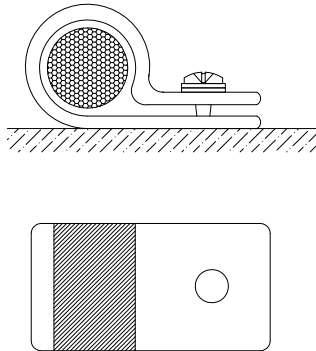
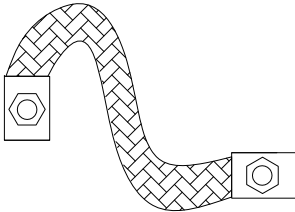
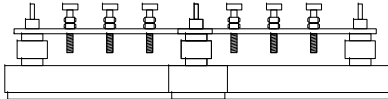
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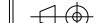
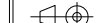
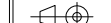

CABLE LUG (ONE HOLE)
SUITABLE FOR 185 mm² CONDUCTOR
HOLE DIAMETER : 12mm
(FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)

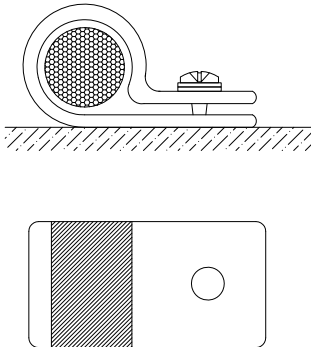
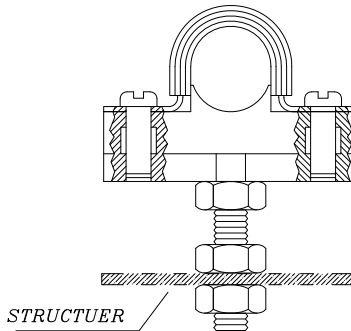
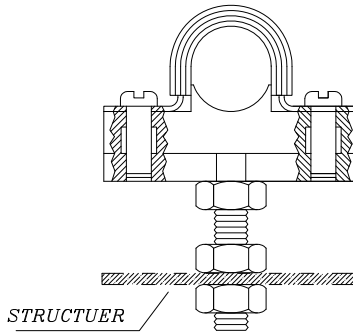
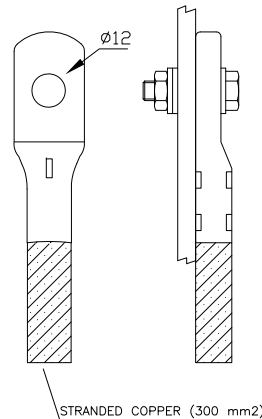
DESCRIPTION:





CABLE LUG (ONE HOLE)
SUITABLE FOR 150 mm² CONDUCTOR
HOLE DIAMETER : 14mm
(FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)

D	ISSUE FOR APPROVE	03/11	<div>Consultant:</div> <div></div> <div>GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:</div> <div></div> <div>P.G.M.I.S.E.Z</div>	<div>Contractor:</div> <div></div> <div>MOHAM SHARGH GROUP</div>		Name	Date	Title: JOINT & ACCESORIES	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			Sheet: 8
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Total : 45
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	

1	2	3	4	5	6	7	8
EARTH JOINTS AND ACCESSORIES							
SYMBOL	21	FIGURE: 	SYMBOL	22	FIGURE: 		
DESCRIPTION: GROUNDING WIRE CLAMP CONNECTION OF 150 mm² CONDUCTOR TO 150 mm² CONDUCTOR (FOR CONNECTING EARTHING CONDUCTOR ON STRUCTURE) CLAMP MATERIAL: BRASS CLAMP BOLT:M10*80 (HOT DIP GALVANIZED)			DESCRIPTION: ONE HOLE CABLE CLIP SUITABLE FOR 35 mm² CONDUCTOR				
SYMBOL	23	FIGURE: 	SYMBOL	24	FIGURE: 		
DESCRIPTION: FLEXIBLE COPPER EARTH BOND (MATERIAL: PURE COPPER WIRE BRAID) (SIZE: 400mm * 25mm * 3mm)			DESCRIPTION: EARTH TERMINAL 250*50*10mm (COPPER TAPE)				

D	ISSUE FOR APPROVE	03/11	<div>Consultant:</div> <div></div> <div>GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:</div> <div></div> <div>P.G.M.I.S.E.Z</div>	<div>Contractor:</div> <div></div> <div>MOHAM SHARGH GROUP</div>		Name	Date	Title: JOINT & ACCESORIES	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			Sheet: 9
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11		Project No:	Total : 45
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	

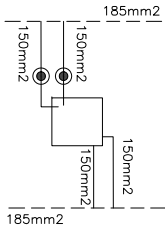
1	2	3	4	5	6	7	8
EARTH JOINTS AND ACCESSORIES							
SYMBOL		25	FIGURE:	SYMBOL		26	FIGURE:
DESCRIPTION:				DESCRIPTION:			STRUCTUER
ONE HOLE CABLE CLIP SUITABLE FOR 150 mm2 CONDUCTOR				1 WAY EARTHING CLAMP SUITABLE FOR 150 mm2 CABLE (FOR FIXING CABLE ON STRUCTURE)			
CLAMP MATERIAL: BRASS CLAMP BOLT: M10*80 (HOT DIP GALVANIZED)							
SYMBOL		27	FIGURE:	SYMBOL		28	FIGURE:
DESCRIPTION:				DESCRIPTION:			STRANDED COPPER (300 mm2)
1 WAY EARTHING CLAMP SUITABLE FOR 300 mm2 CABLE (FOR FIXING CABLE ON STRUCTURE)				CABLE LUG (ONE HOLE) SUITABLE FOR 300 mm2 CONDUCTOR HOLE DIAMETER : 12mm (FOR CONNECTING CONDUCTOR ON STRUCTURE & EARTH TERMINAL)			
CLAMP MATERIAL: BRASS CLAMP BOLT: M10*80 (HOT DIP GALVANIZED)							

D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: JOINT & ACCESSORIES	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11		Project No:	Sheet: 10
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11		DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:

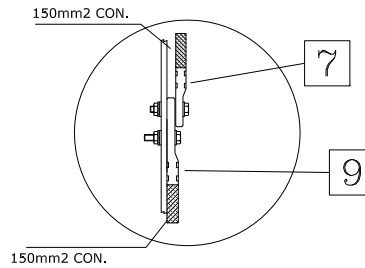
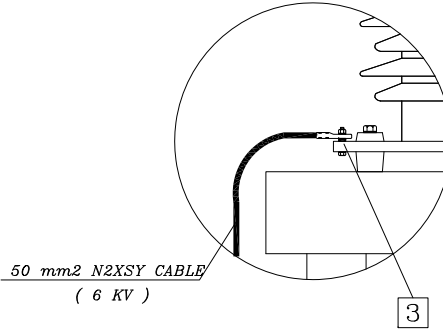
*EARTHING DETAIL FOR:
L.A-400KV*

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	240/50 mm2
B)STEEL STRUCTURE	2*150 mm2

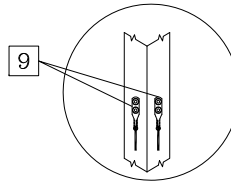
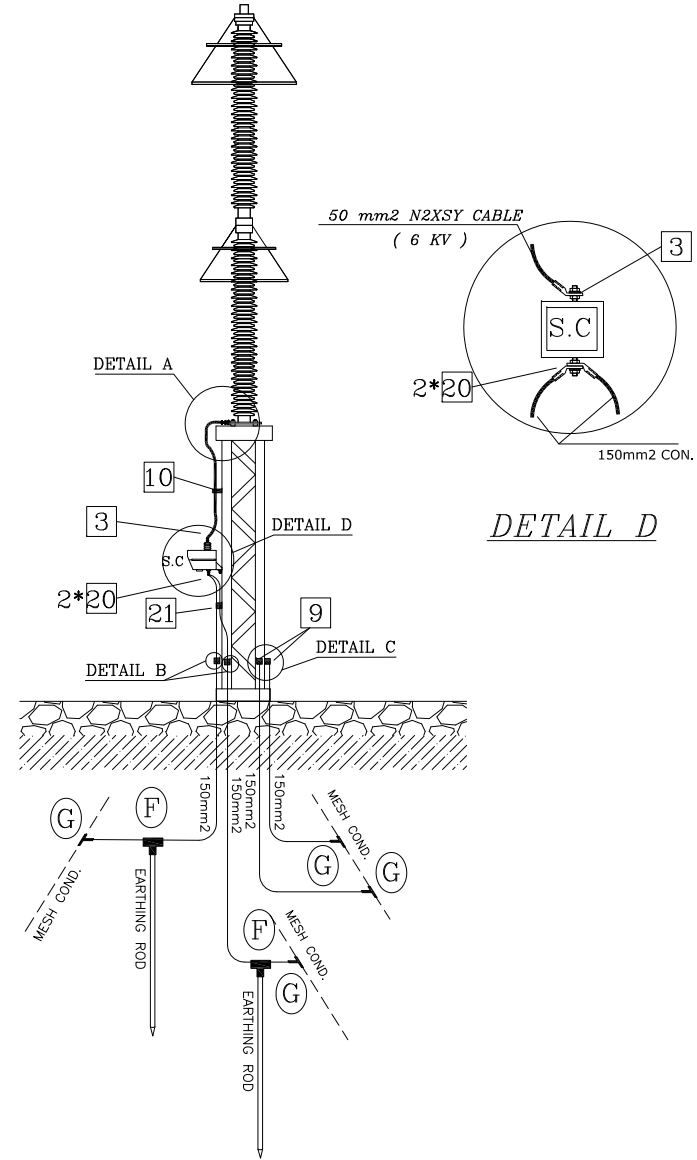
TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm ² TO 150mm ² CON.)	4
F	TEE CADWELD CONNECTION(150mm ² CON. TO EARTH ROD)	2
3	CABLE LUG (ONE HOLE) FOR 50mm ² CONDUCTOR ($\phi=14$)	2
7	CABLE LUG (ONE HOLE) FOR 150mm ² CONDUCTOR ($\phi=12$)	2
9	CABLE LUG (TWO HOLE) FOR 150mm ² CONDUCTOR ($\phi=12$)	2
10	ONE WAY EARTHING CLAMP FOR 50mm ² CABLE	1
20	CABLE LUG (ONE HOLE) FOR 150mm ² CONDUCTOR ($\phi=14$)	2
21	GROUNDING WIRE CLAMP (150mm ² TO 150mm ² CON.)	1







TOP VIEW

DETAIL A

DETAIL B

DETAIL C

D	ISSUE FOR APPROVE	03/11	<div>Consultant:</div> <div></div> <div>GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:</div> <div></div> <div>P.G.M.I.S.E.Z</div>	<div>Contractor:</div> <div></div> <div>MOHAM SHARGH GROUP</div>		Name	Date	Title: <i>LIGHTNING ARRESTER</i>	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:		
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11					Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11					
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11					Project No:
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	Total : 45		

A

EARTHING DETAIL FOR:
C.T-400KV

B

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	2*150 mm2
B)STEEL STRUCTURE	2*150 mm2

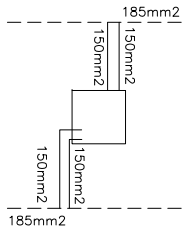
C

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm2 TO 150mm2 CON.)	4
9	CABLE LUG (TWO HOLE) FOR 150mm2 CONDUCTOR (ø=12)	2
20	CABLE LUG (ONE HOLE) FOR 150mm2 CONDUCTOR (ø=14)	2
21	GROUNDING WIRE CLAMP (150mm2 TO 150mm2 CON.)	3

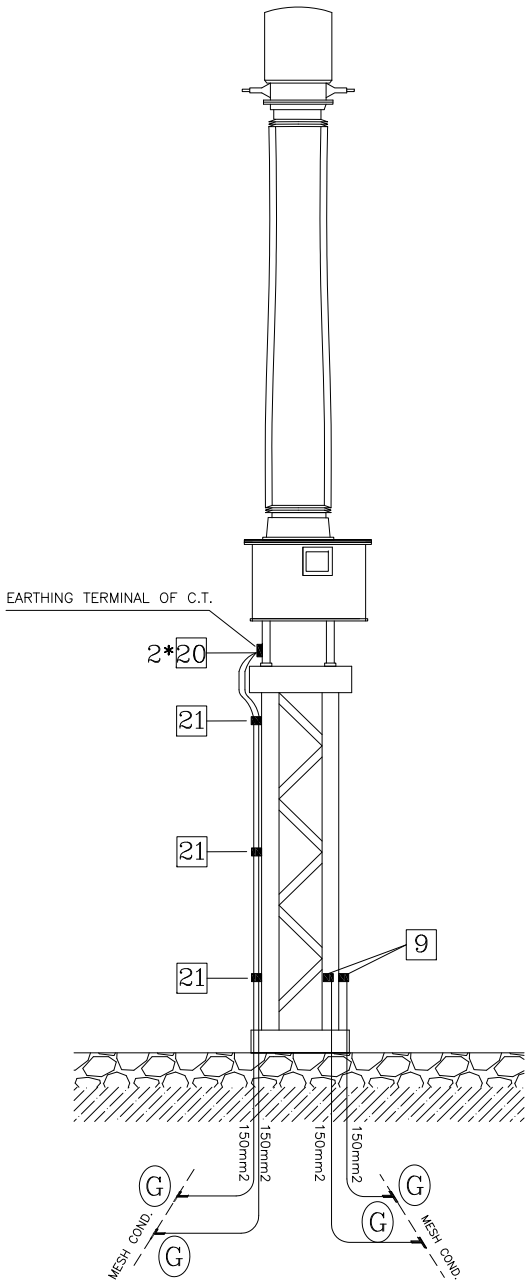
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



E

F



TOP VIEW



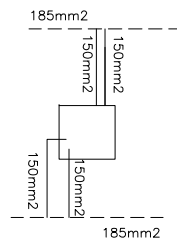
D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: CURRENT TRANSFORMER	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M. NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M. NOORI	1403/11		Project No:	Sheet: 12
A	ISSUE FOR APPROVE	03/09				CHECKED	M. NOORI	1403/11			Contract No:
REV.	Description.	DATE	APPROVED	M. DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1					

EARTHING DETAIL FOR: C.V.T-400KV

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm ²
RISER CONDUCTOR	
A)EARTHING TERMINAL	150/35 mm ²
B)STEEL STRUCTURE	2*150 mm ²

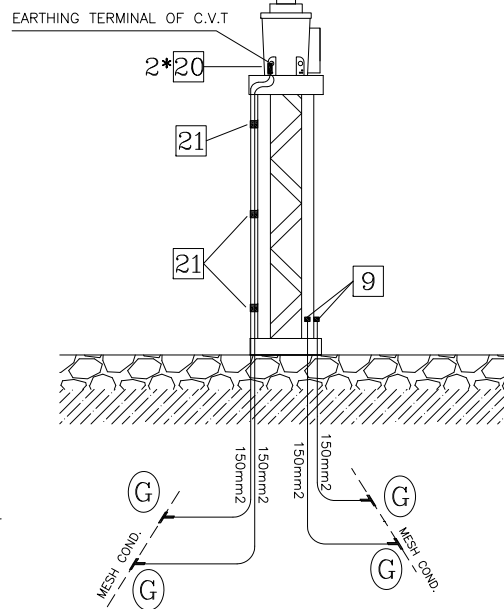
TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm ² TO 150mm ² CON.)	6
F	TEE CADWELD CONNECTION(150mm ² CON. TO EARTH ROD)	2
9	CABLE LUG (TWO HOLE) FOR 150mm ² CONDUCTOR (φ=12)	2
20	CABLE LUG (ONE HOLE) FOR 150mm ² CONDUCTOR (φ=14)	4
3	CABLE LUG (ONE HOLE) FOR 50mm ² CONDUCTOR (φ=14)	1
4	CABLE LUG (ONE HOLE) FOR 35mm ² CONDUCTOR (φ=12)	2
12	CABLE SUPPORT CLAMP FOR 35mm ² CONDUCTOR	1
10	ONE WAY EARTHING CLAMP FOR 50mm ² CABLE	1
21	GROUNDING WIRE CLAMP (150mm ² TO 150mm ² CON.)	5

NOTE : QANTITIES ARE FOR CVT WITH LMU.

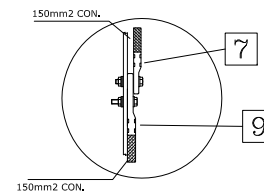


TOP VIEW

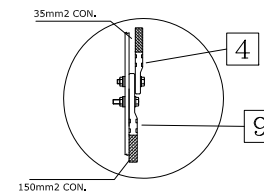
CVT



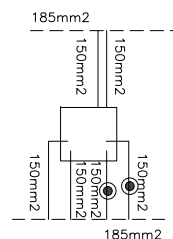
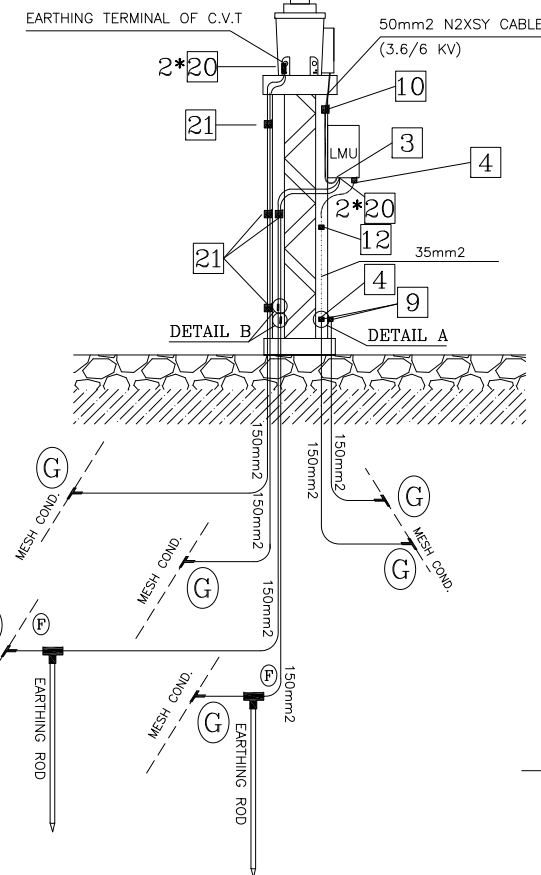
CVT WITH LMU



DETAIL B



DETAIL A

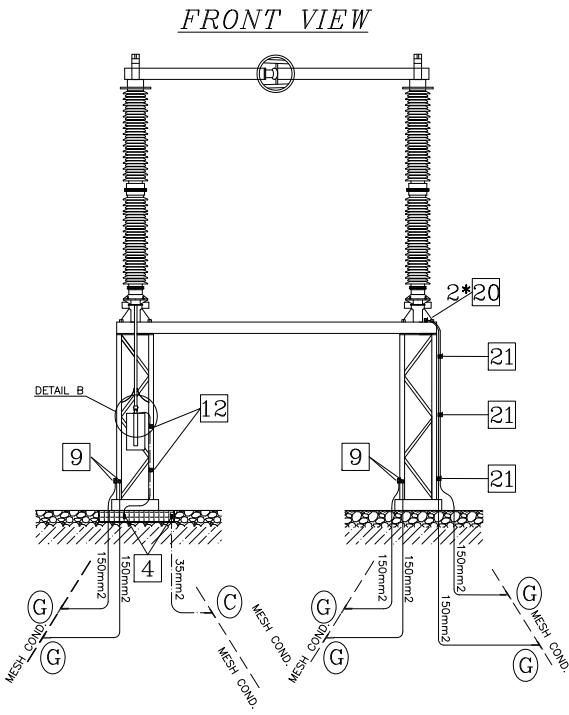
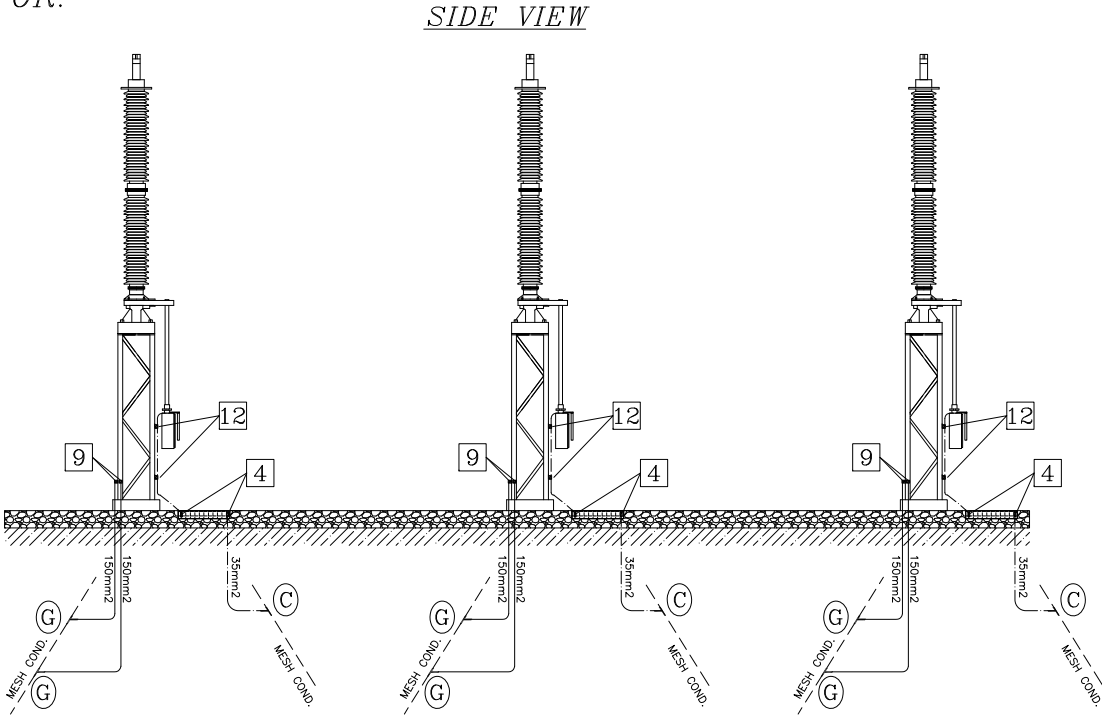


TOP VIEW

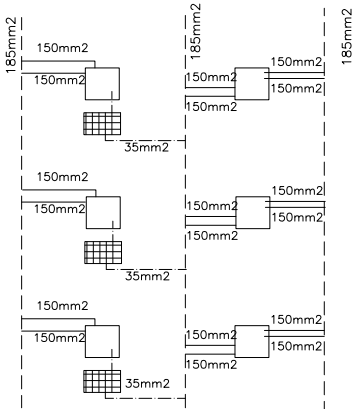
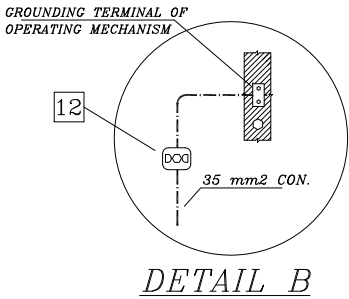
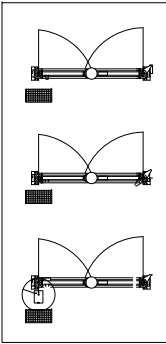
D	ISSUE FOR APPROVE	03/11	Consultant:	Employer:	Contractor:	Drawn	Name	Date	Title:	Project:	Scale:
C	ISSUE FOR APPROVE	03/10	GHODS NIROO ENGINEERING COMPANY(G.N.E.C)	P.G.M.I.S.E.Z	MOHAM SHARGH GROUP	DRAWN	M. NOORI	1403/11	CAPACITIVE VOLTAGE TRANSFORMER	400/230 KV NORTHERN SITE INTERFACE S/S	Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M. NOORI	1403/11			
A	ISSUE FOR APPROVE	03/09				CHECKED	M. NOORI	1403/11			
REV.	Description.	DATE				APPROVED	M. DANESHPOU	1403/11			
									DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	Total : 45

EARTHING DETAIL FOR:
DS-400KV

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	150/35 mm2
B)STEEL STRUCTURE	150 mm2



TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(150mm2 TO 240mm2 CON.)	18
C	TEE CADWELD CONNECTION(150mm2 TO 35mm2 CON.)	3
4	CABLE LUG (ONE HOLE) FOR 35mm2 CONDUCTOR (ø=12)	6
9	CABLE LUG (TWO HOLE) FOR 150mm2 CONDUCTOR (ø=12)	12
12	CABLE SUPPORT CLAMP FOR 35mm2 CONDUCTOR	6
20	CABLE LUG (ONE HOLE) FOR 150mm2 CONDUCTOR (ø=14)	6
21	GROUNDING WIRE CLAMP (150mm2 TO 150mm2 CON.)	9
-	EARTH MAT	3



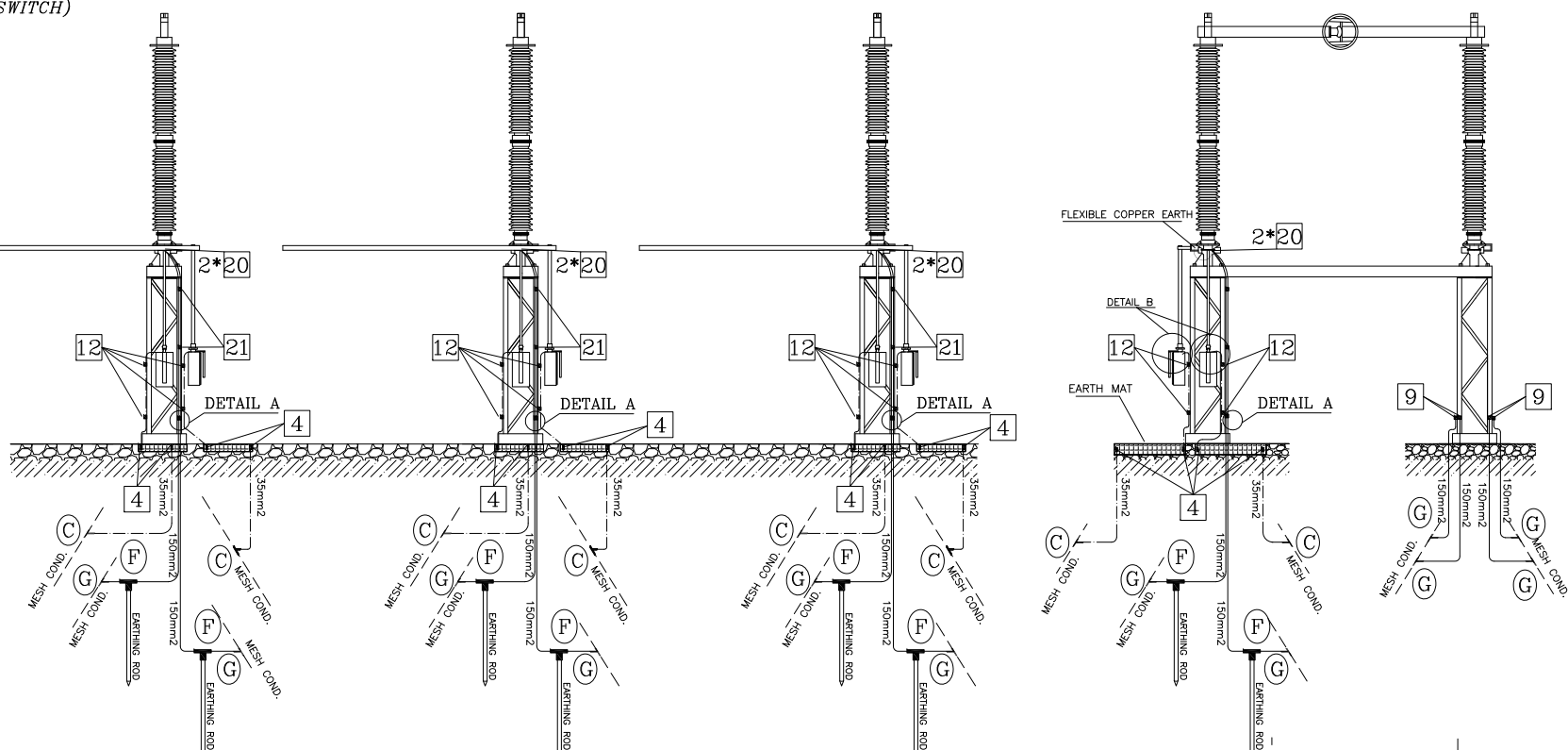
TOP VIEW

EARTHING DETAIL FOR:
DS/ES -400KV
(WITH LEFT MOUNTED EARTHING SWITCH)

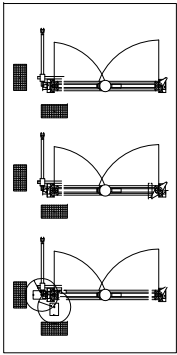
FRONT VIEW

SIDE VIEW

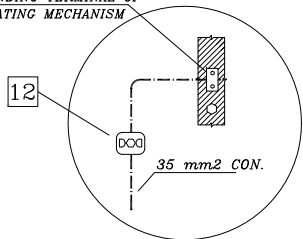
CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	150/35 mm2
B)STEEL STRUCTURE	150 mm2



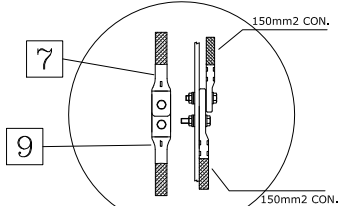
TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(150mm2 TO 240mm2 CON.)	18
C	TEE CADWELD CONNECTION(150mm2 TO 35mm2 CON.)	6
F	TEE CADWELD CONNECTION(150mm2 CON. TO EARTH ROD)	6
4	CABLE LUG (ONE HOLE) FOR 35mm2 CONDUCTOR (ø=12)	12
9	CABLE LUG (TWO HOLE) FOR 150mm2 CONDUCTOR (ø=12)	12
12	CABLE SUPPORT CLAMP FOR 35mm2 CONDUCTOR	12
20	CABLE LUG (ONE HOLE) FOR 150mm2 CONDUCTOR (ø=14)	6
21	GROUNDING WIRE CLAMP (150mm2 TO 150mm2 CON.)	9
-	EARTH MAT	6



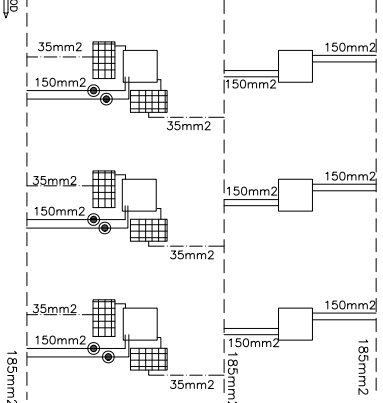
GROUNDING TERMINAL OF
OPERATING MECHANISM



DETAIL B



DETAIL A

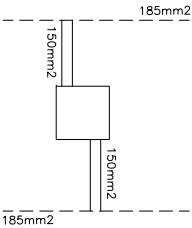


TOP VIEW

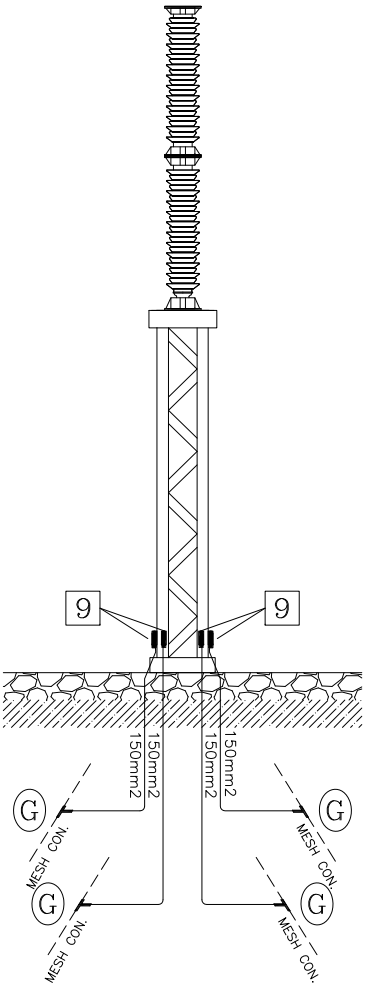
EARTHING DETAIL FOR:
PI-400KV

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
B)STEEL STRUCTURE	150 mm2

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm2 TO 150mm2 CON.)	4
9	CABLE LUG (TWO HOLE) FOR 150mm2 CONDUCTOR (ø=12)	4



TOP VIEW



A

B

C

D

E

F

A

B

C

D

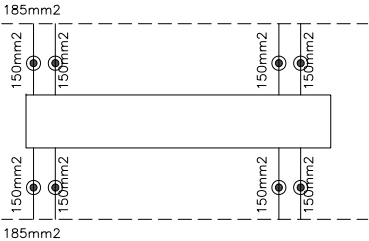
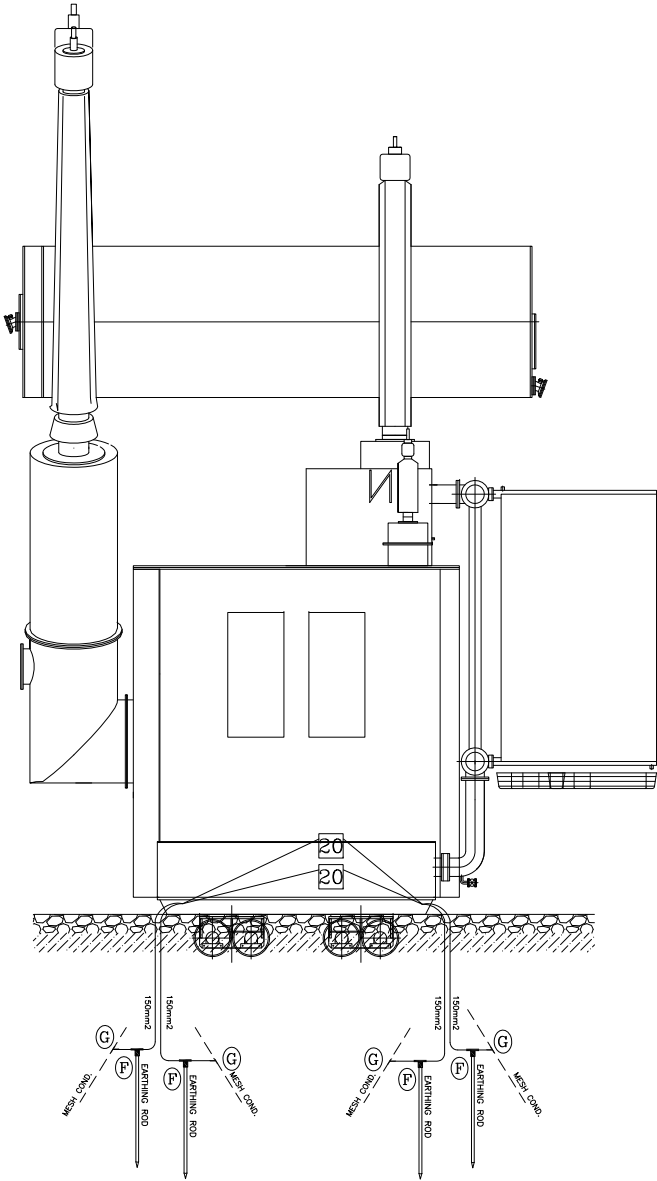
E

F

EARTHING DETAIL FOR:
P.TR-400KV/230KV

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	150 mm2
B)STEEL STRUCTURE	150 mm2

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm2 TO 150mm2 CON.)	8
F	TEE CADWELD CONNECTION(150mm2 CON. TO EARTH ROD)	8
20	CABLE LUG (ONE HOLE) FOR 185mm2 CONDUCTOR (ø=14)	8



TOP VIEW

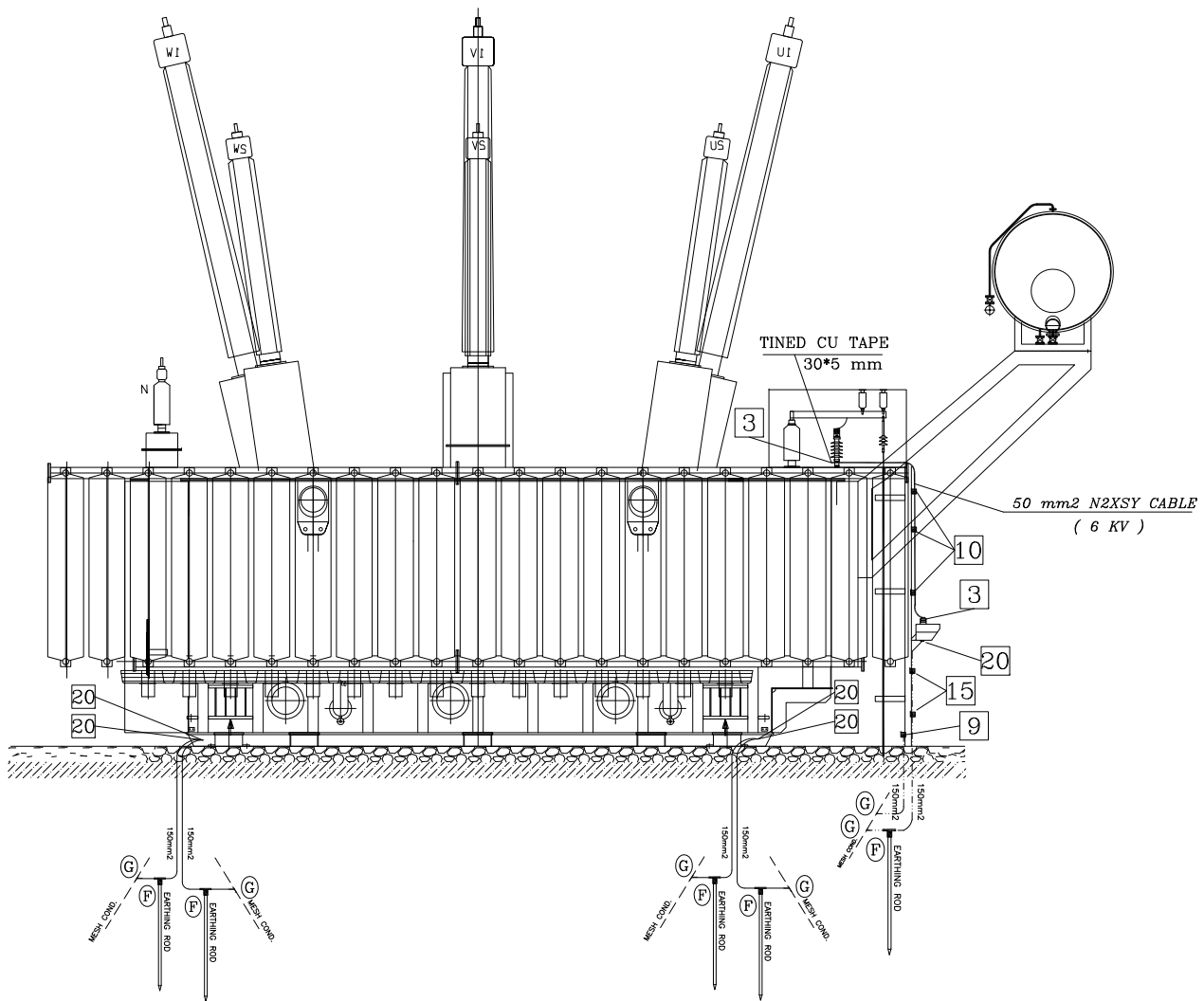
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12345678

EARTHING DETAIL FOR:
P.TR-LA 20KV

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	150 mm2
B)STEEL STRUCTURE	150 mm2

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm2 TO 150mm2 CON.)	11
F	TEE CADWELD CONNECTION(150mm2 CON. TO EARTH ROD)	9
9	CABLE LUG (TWO HOLE) FOR 150mm2 CONDUCTOR (ø=12)	2
20	CABLE LUG (ONE HOLE) FOR 150mm2 CONDUCTOR (ø=14)	1
3	CABLE LUG (ONE HOLE) FOR 50mm2 CONDUCTOR (ø=14)	2
15	CABLE SUPPORT CLAMP FOR 150mm2 CONDUCTOR	2
10	ONE WAY EARTHING CLAMP FOR 50mm2 CABLE	3

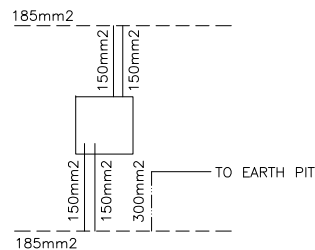


D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: LIGHTNING ARRESTER 20KV	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10					M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09					M.NOORI	1403/11			Sheet: 21
A	ISSUE FOR APPROVE	03/09					M.DANESHPOU	1403/11			Total : 45
REV.	Description.	DATE									

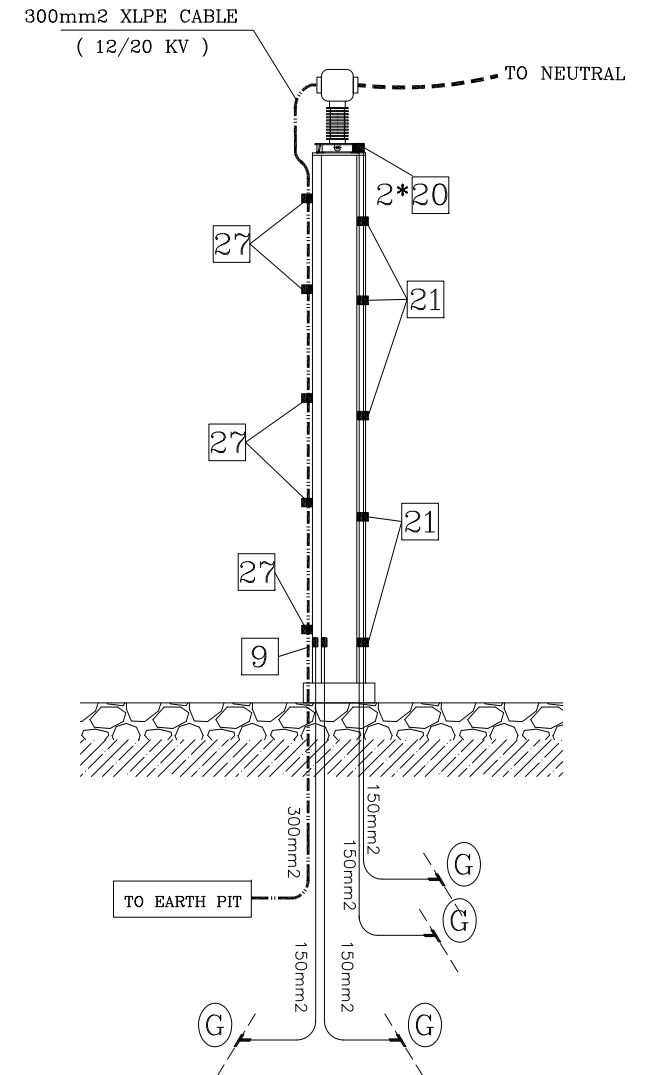
EARTHING DETAIL FOR: NCT (FOR P.TR)





CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm ²
RISER CONDUCTOR	
A)EARTHING TERMINAL	240 mm ²
B)STEEL STRUCTURE	150 mm ²

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm ² TO 150mm ² CON.)	4
9	CABLE LUG (TWO HOLE) FOR 150mm ² CONDUCTOR (ø=12)	2
20	CABLE LUG (ONE HOLE) FOR 150mm ² CONDUCTOR (ø=14)	2
21	GROUNDING WIRE CLAMP (150mm ² TO 150mm ² CON.)	5
27	ONE WAY EARTHING CLAMP FOR 300mm ² CABLE	5



TOP VIEW

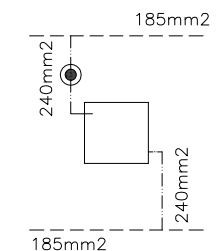


D	ISSUE FOR APPROVE	03/11	<div>Consultant: </div> <div>GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer: </div> <div>P.G.M.I.S.E.Z</div>	<div>Contractor: </div> <div>MOHAM SHARGH GROUP</div>		Name	Date	Title: <i>NEUTRAL CURRENT TRANSFORMER (FOR P.TR)</i>	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11		Project No:	Sheet: 22
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Contract No:
REV.	Description.	DATE								APPROVED	M.DANESHPOU

EARTHING DETAIL FOR: L.A-230KV

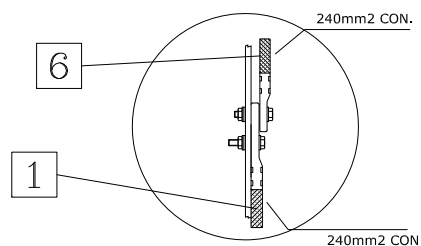
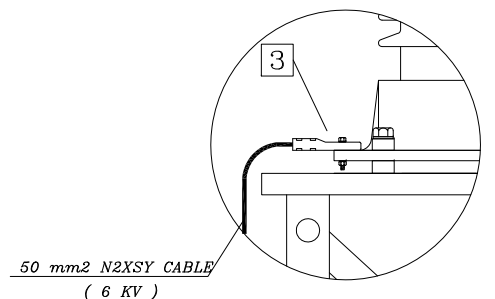
CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm ²
RISER CONDUCTOR	
A)EARTHING TERMINAL	240/50 mm ²
B)STEEL STRUCTURE	240 mm ²

TYPE	CONNECTION	Q'TY
B	TEE CADWELD CONNECTION(185mm ² TO 240mm ² CON.)	2
E	TEE CADWELD CONNECTION(240mm ² CON. TO EARTHING ROD)	1
1	CABLE LUG (TWO HOLE) FOR 240mm ² CONDUCTOR (ø=12)	2
2	CABLE LUG (ONE HOLE) FOR 240mm ² CONDUCTOR (ø=14)	1
3	CABLE LUG (ONE HOLE) FOR 50mm ² CONDUCTOR (ø=14)	2
6	CABLE LUG (ONE HOLE) FOR 240mm ² CONDUCTOR (ø=12)	1
8	CABLE SUPPORT CLAMP FOR 240mm ² CONDUCTOR	1
10	ONE WAY EARTHING CLAMP FOR 50mm ² CABLE	1

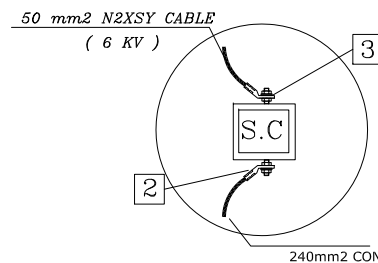


TOP VIEW

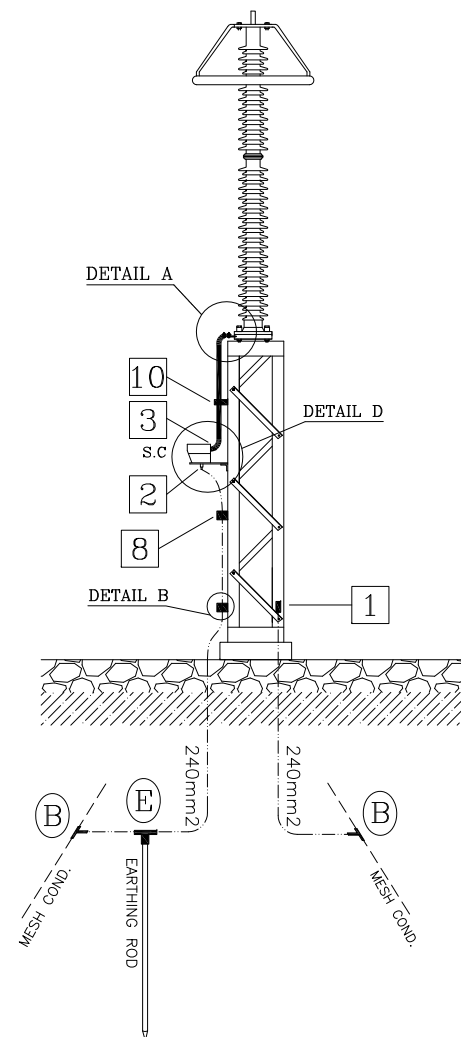
DETAIL A







DETAIL B



DETAIL D



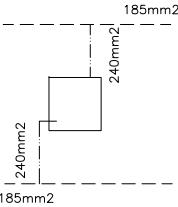
D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: <i>LIGHTNING ARRESTER</i>	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11		Project No:	Sheet: 23
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11	Contract No:		Total : 45
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11		DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	

EARTHING DETAIL FOR:
C.V.T-230KV

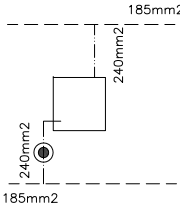
CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)STEEL STRUCTURE	240 mm2
B)EARTHING TERMINAL	240/50 mm2

TYPE	CONNECTION	Q'TY
B	TEE CADWELD CONNECTION (185 mm2 TO 240 mm2 CON.)	3
E	TEE CADWELD CONNECTION(240mm2 CON. TO EARTHING ROD)	1
1	CABLE LUG (TWO HOLE) FOR 240mm2 CONDUCTOR (ø=12)	1
2	CABLE LUG (ONE HOLE) FOR 240mm2 CONDUCTOR (ø=14)	2
3	CABLE LUG (ONE HOLE) FOR 50mm2 CONDUCTOR (ø=14)	1
4	CABLE LUG (ONE HOLE) FOR 35mm2 CONDUCTOR (ø=12)	2
6	CABLE LUG (ONE HOLE) FOR 240mm2 CONDUCTOR (ø=12)	1
10	ONE WAY EARTHING CLAMP FOR 50mm2 CABLE	1
8	CABLE SUPPORT CLAMP FOR 240mm2 CONDUCTOR	5
12	CABLE SUPPORT CLAMP FOR 35mm2 CONDUCTOR	1

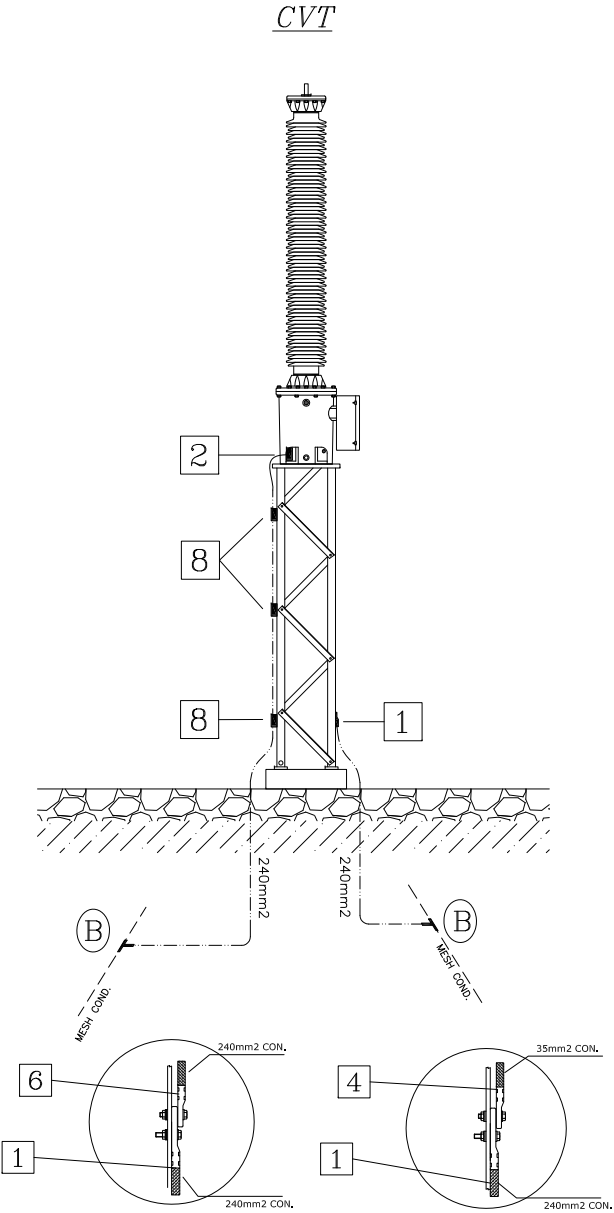
NOTE : QANTITIES ARE FOR CVT WITH LMU.



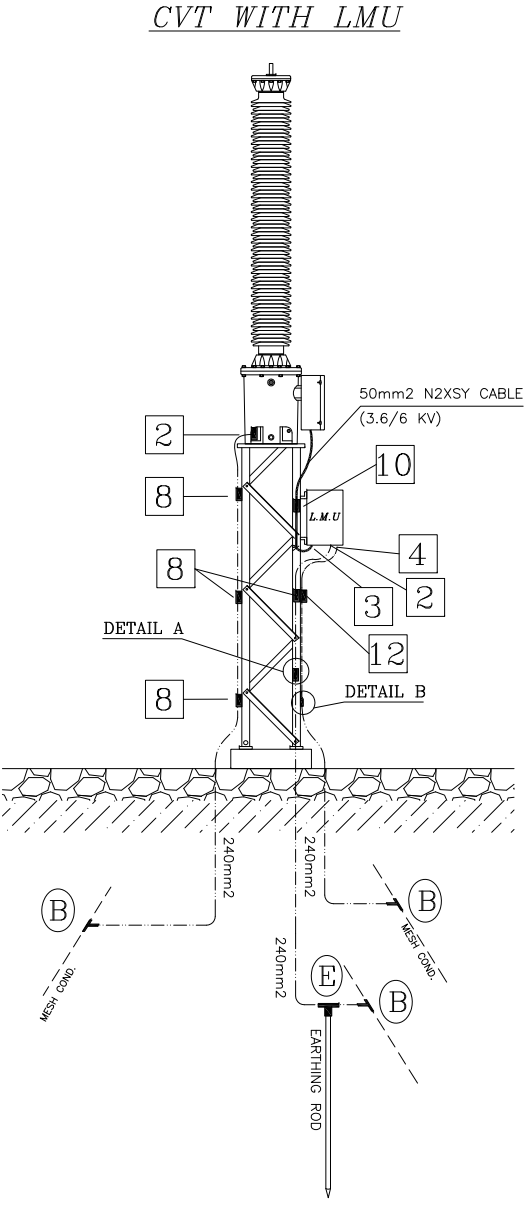
TOP VIEW







TOP VIEW

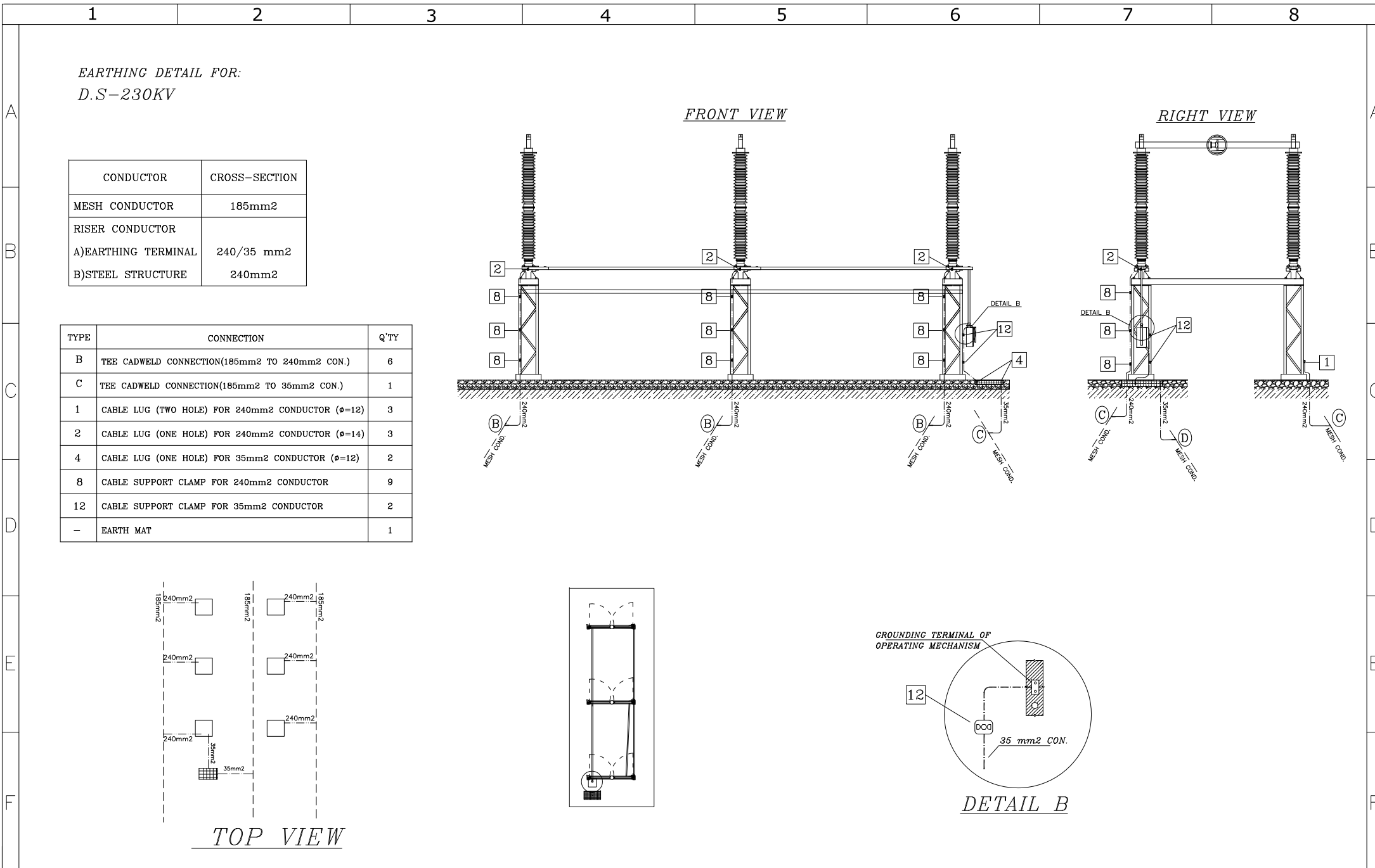






DETAIL A



DETAIL B

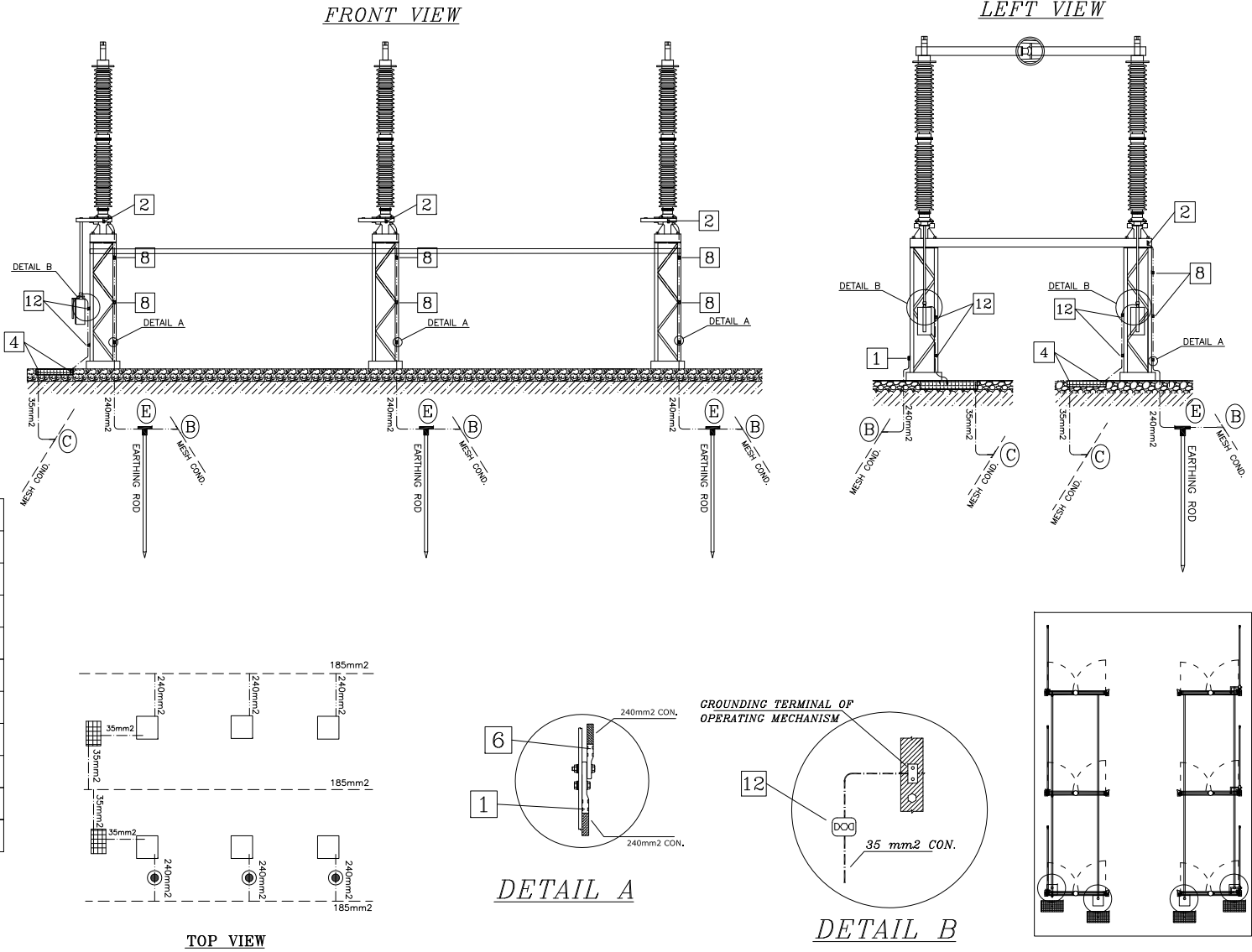
D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: CAPACITIVE VOLTAGE TRANSFORMER 230KV	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11		Project No:	Sheet: 24
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Contract No:
REV.	Description.	DATE							APPROVED	M.DANESHPOU	1403/11



D	ISSUE FOR APPROVE	03/11	Consultant:  GHODS NIROY ENGINEERING COMPANY(G.N.E.C)	Employer:  P.G.M.I.S.E.Z	Contractor:  MOHAM SHARGH GROUP		Name	Date	Title: DISCONNECTOR SWITCH 230KV DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Project: 400/230 KV NORTHERN SITE INTERFACE S/S Project No: Contract No:	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			Sheet: 25
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Total : 45
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11			

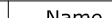



EARTHING DETAIL FOR:
D.S/E.S-230KV

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	240/35 mm2
B)STEEL STRUCTURE	240mm2



TYPE	CONNECTION	Q'TY
B	TEE CADWELD CONNECTION(185mm2 TO 240mm2 CON.)	6
C	TEE CADWELD CONNECTION(185mm2 TO 35mm2 CON.)	2
E	TEE CADWELD CONNECTION(240mm2 CON. TO EARTHING ROD)	3
1	CABLE LUG (TWO HOLE) FOR 240mm2 CONDUCTOR (ø=12)	3
2	CABLE LUG (ONE HOLE) FOR 240mm2 CONDUCTOR (ø=12)	3
4	CABLE LUG (ONE HOLE) FOR 35mm2 CONDUCTOR (ø=12)	4
6	CABLE LUG (ONE HOLE) FOR 240mm2 CONDUCTOR (ø=12)	3
8	CABLE SUPPORT CLAMP FOR 240mm2 CONDUCTOR	6
12	CABLE SUPPORT CLAMP FOR 35mm2 CONDUCTOR	4
-	EARTH MAT	2

*سیم ارت ۳۵ سایز جهت اتصال به ارت مت و مکانیزم بریکر و سکسیونر می بایست مستقیم از سیم مشی گرفته شود.

D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: <i>DISCONNECTOR SWITCH WITH EARTHING SWITCH 230KV</i>	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	Total : 45

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EARTHING DETAIL FOR:

C.T-230KV

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	240 mm2
B)STEEL STRUCTURE	240 mm2

TYPE	CONNECTION	Q'TY
B	TEE CADWELD CONNECTION(185mm2 TO 240mm2 CON.)	2
1	CABLE LUG (TWO HOLE) FOR 240mm2 CONDUCTOR (ø=12)	1
2	CABLE LUG (ONE HOLE) FOR 240mm2 CONDUCTOR (ø=14)	1
8	CABLE SUPPORT CLAMP FOR 240mm2 CONDUCTOR	3

185mm2

240mm2

240mm2

185mm2

TOP VIEW

EARTHING TERMINAL OF C.T.

2

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
1

240mm2

240mm2

MESH COND

MESH COND

D	ISSUE FOR APPROVE	03/11	<div>Consultant:</div> <div></div> <div>GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:</div> <div></div> <div>P.G.M.I.S.E.Z</div>	<div>Contractor:</div> <div></div> <div>MOHAM SHARGH GROUP</div>		Name	Date	Title: CURRENT TRANSFORMER 230KV	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			Sheet: 27
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11		Project No:	
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	Total : 45

A

BC

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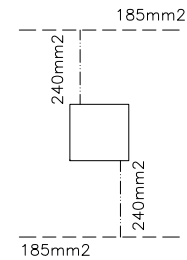
E

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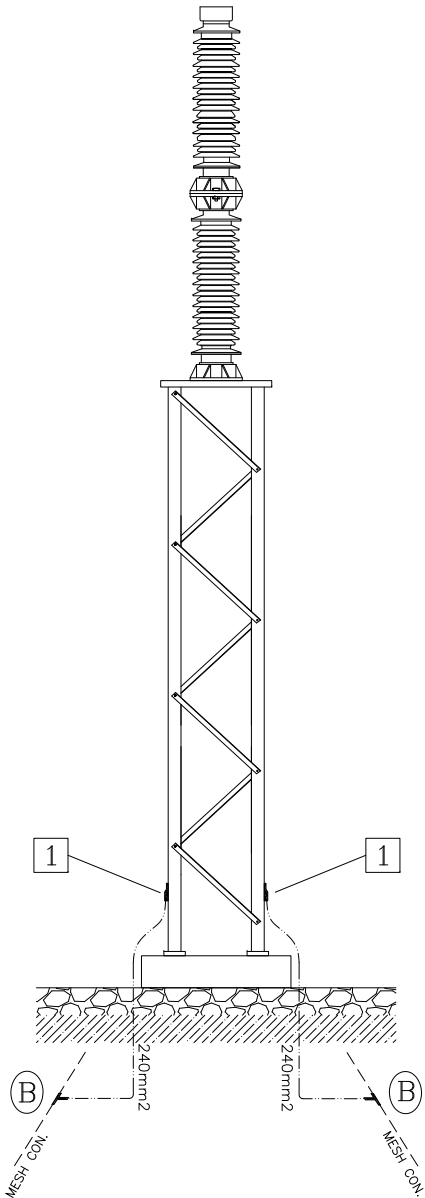
EARTHING DETAIL FOR:
PI-230KV





CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
B)STEEL STRUCTURE	240 mm2

TYPE	CONNECTION	Q'TY
B	TEE CADWELD CONNECTION(185mm2 TO 240mm2 CON.)	2
1	CABLE LUG (TWO HOLE) FOR 240mm2 CONDUCTOR (ø=12)	2



TOP VIEW



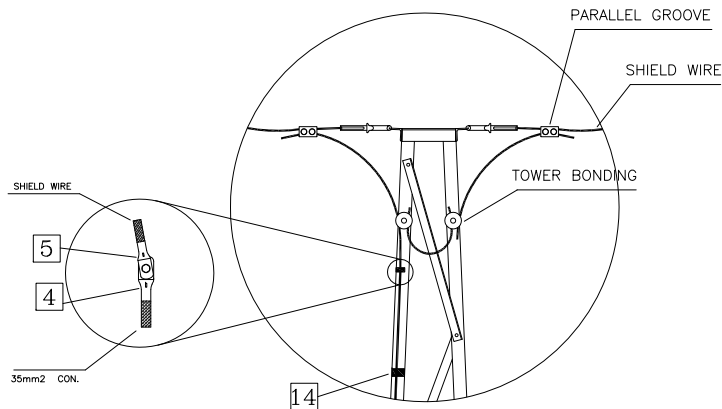
D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: POST INSULATION 230KV	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11		Project No:	Sheet: 30
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	Total : 45

EARTHING DETAIL FOR: GANTRY-230KV

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm ²
RISER CONDUCTOR	
B)STEEL STRUCTURE	240/35 mm ²

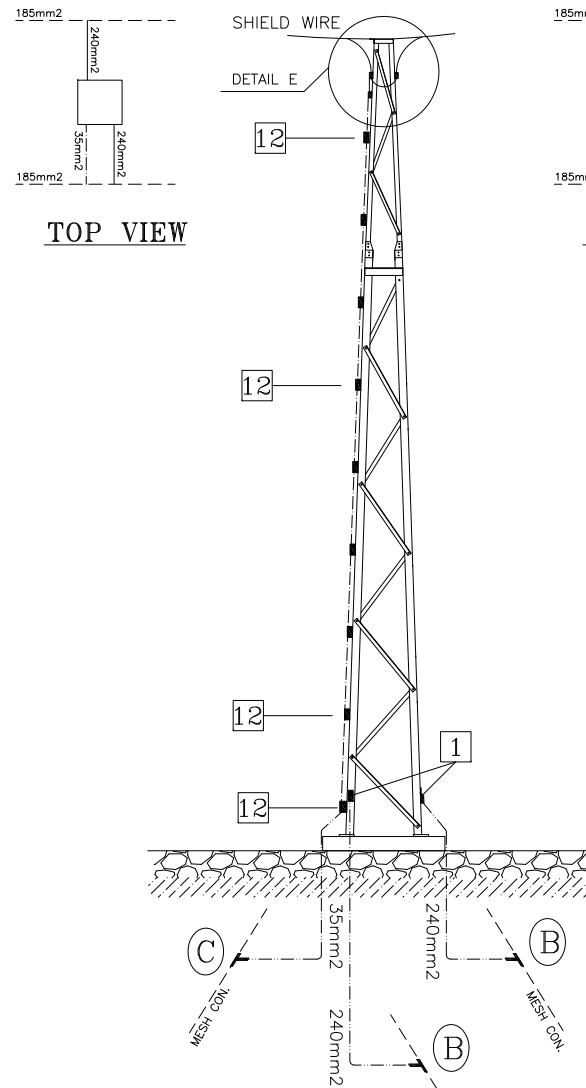
TYPE	CONNECTION	Q'TY
B	TEE CADWELD CONNECTION(185mm ² TO 240mm ² CON.)	2
C	TEE CADWELD CONNECTION(185mm ² TO 35mm ² CON.)	1
1	CABLE LUG (TWO HOLE) FOR 240mm ² CONDUCTOR (ø=12)	2
5	CABLE LUG (ONE HOLE) FOR 60mm ² CONDUCTOR (ø=12)	1
4	CABLE LUG (ONE HOLE) FOR 35mm ² CONDUCTOR (ø=12)	1
12	CABLE SUPPORT CLAMP FOR 35mm ² CONDUCTOR	23

NOTE: QUANTITIES ARE FOR INCOMING GANTRY.



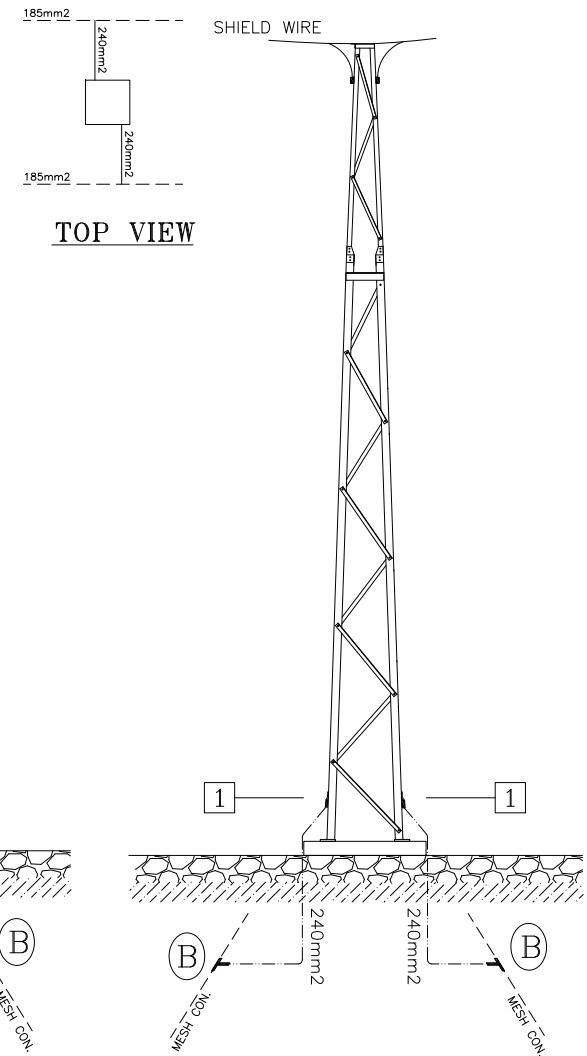
DETAIL E

INCOMING GANTRY







TOP VIEW

SITE GANTRY



TOP VIEW

D	ISSUE FOR APPROVE	03/11	<div>Consultant: </div> <div>GHODS NIROY ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer: </div> <div>P.G.M.I.S.E.Z</div>	<div>Contractor: </div> <div>MOHAM SHARGH GROUP</div>		Name	Date	Title: <i>CANTRY</i>	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:	
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4	
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			Project No:	Sheet: 31
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11				Contract No:
REV.	Description.	DATE	APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-BHV-017-1						

A

B

C

D

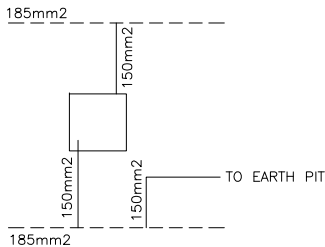
E

F

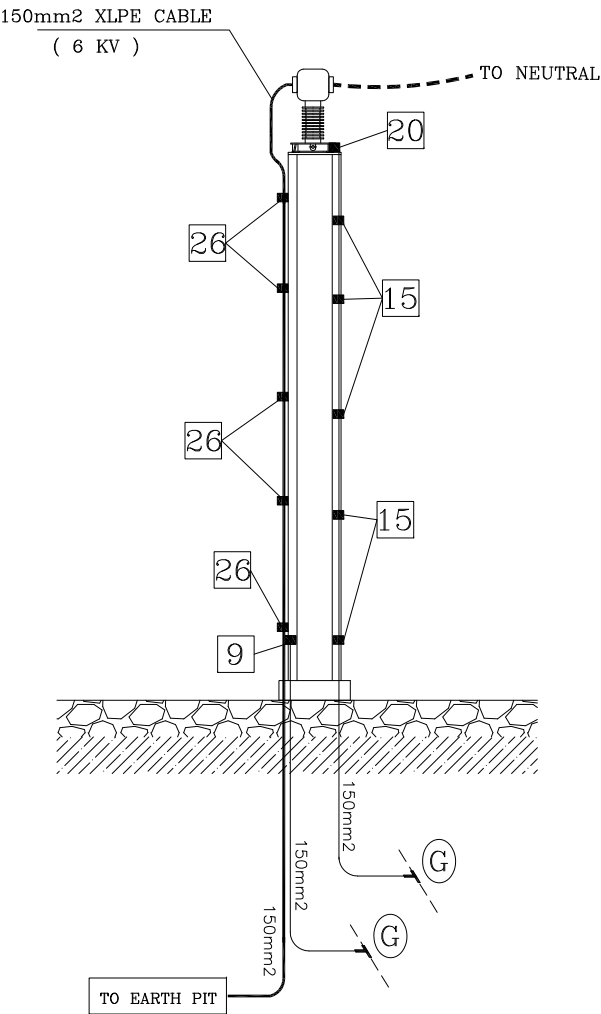
EARTHING DETAIL FOR:
NCT (FOR AUX/ER.TR)

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	150 mm2
B)STEEL STRUCTURE	150 mm2

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm2 TO 150mm2 CON.)	2
9	CABLE LUG (TWO HOLE) FOR 150mm2 CONDUCTOR (ø=12)	1
20	CABLE LUG (ONE HOLE) FOR 150mm2 CONDUCTOR (ø=14)	1
15	CABLE SUPPORT CLAMP FOR 150mm2 CONDUCTOR	5
26	ONE WAY EARTHING CLAMP FOR 150mm2 CABLE	5



TOP VIEW



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B

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BC

F

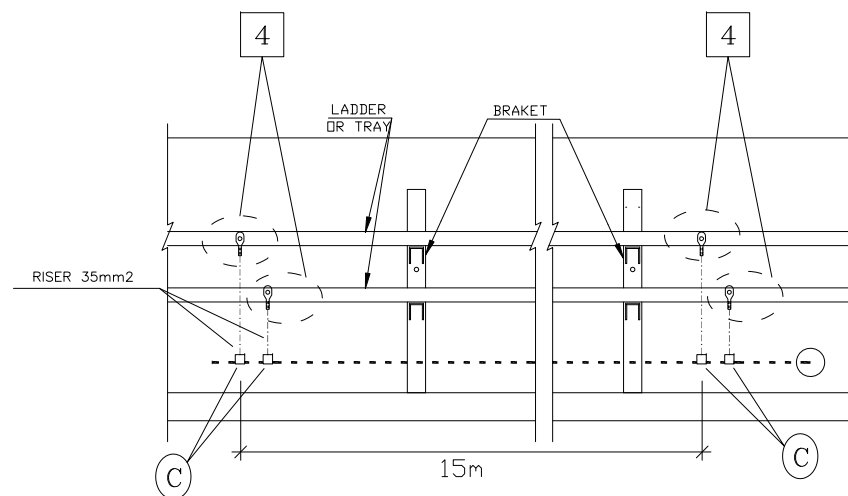
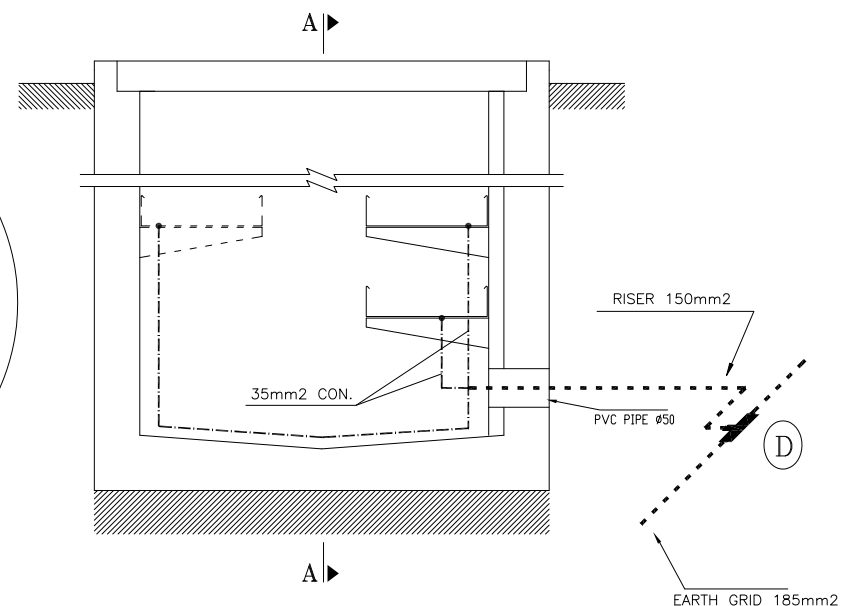
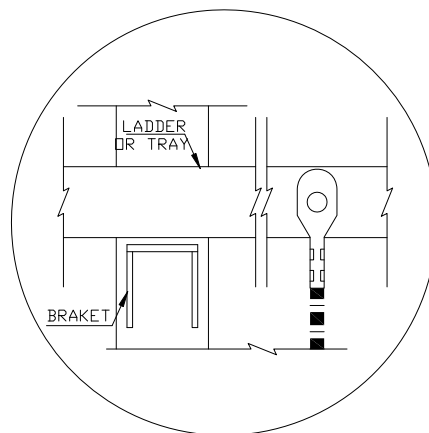


D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: <i>LIGHTING POLE</i>	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:		
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11					Sheet: 34
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11		Total : 45			
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11					








EARTHING DETAIL FOR: CABLE SUPPORTER SYSTEM

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm ²
RISER CONDUCTOR	
A)EARTHING TERMINAL	185/35 mm ²

TYPE	CONNECTION	Q'TY
D	TEE CADWELD CONNECTION(185mm ² TO 185mm ² CON.)	-
C	TEE CADWELD CONNECTION(185mm ² TO 35mm ² CON.)	-
4	CABLE LUG (ONE HOLE) FOR 35mm ² CONDUCTOR (ø=12)	-



SECTION A-A

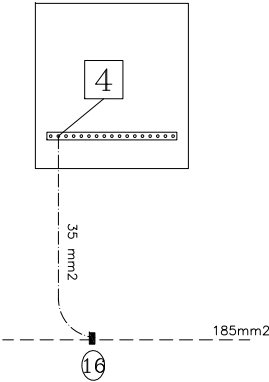
D	ISSUE FOR APPROVE	03/11	<div>Consultant: </div> <div>GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer: </div> <div>P.G.M.I.S.E.Z</div>	<div>Contractor: </div> <div>MOHAM SHARGH GROUP</div>		Name	Date	Title: CABLE SUPPORTER SYSTEM	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10					M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09					M.NOORI	1403/11		Project No:	Sheet: 35
A	ISSUE FOR APPROVE	03/09					M.DANESHPOU	1403/11			Contract No:
REV.	Description.	DATE									

EARTHING DETAIL FOR:
PANELS

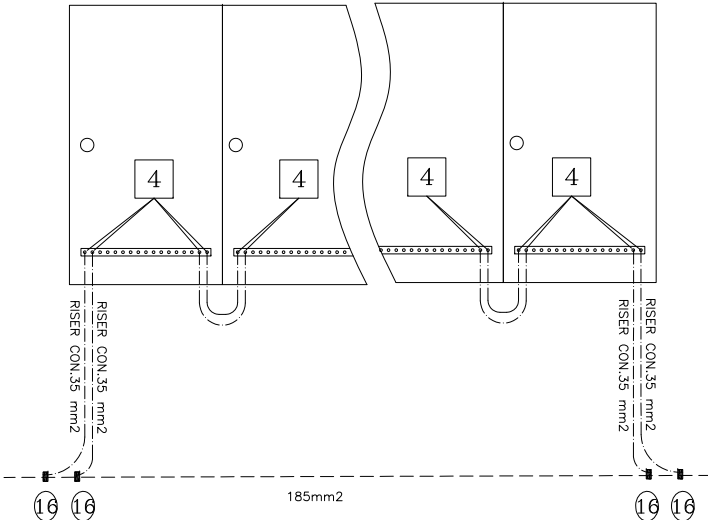
CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	150/35 mm2
B)STEEL STRUCTURE	150 mm2

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm2 TO 150mm2 CON.)	-
C	TEE CADWELD CONNECTION(150mm2 TO 35mm2 CON.)	-
4	CABLE LUG (ONE HOLE) FOR 35mm2 CONDUCTOR (ø=12)	-
7	CABLE LUG (ONE HOLE) FOR 150mm2 CONDUCTOR (ø=12)	-
12	CABLE SUPPORT CLAMP FOR 35mm2 CONDUCTOR	-
15	CABLE SUPPORT CLAMP FOR 150mm2 CONDUCTOR	-
16	CONNECTOR CLAMP (185mm2 TO 35mm2 CON.)	-
17	CONNECTOR CLAMP (185mm2 TO 150mm2 CON.)	-

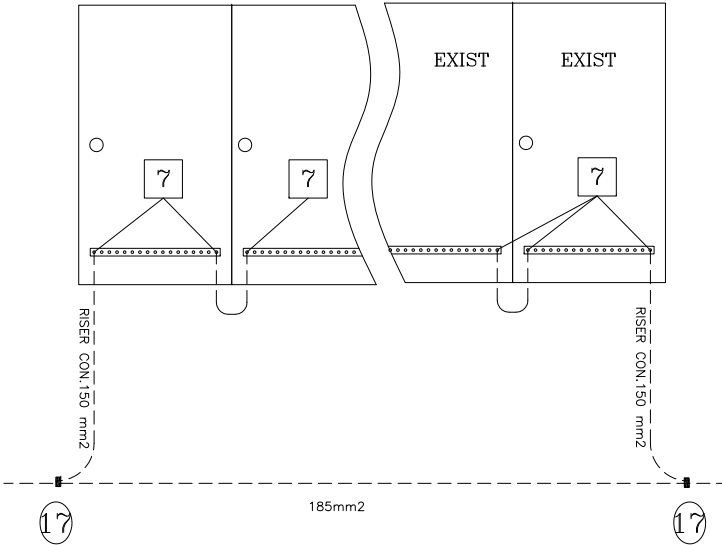
WALL MOUNTED PANELS



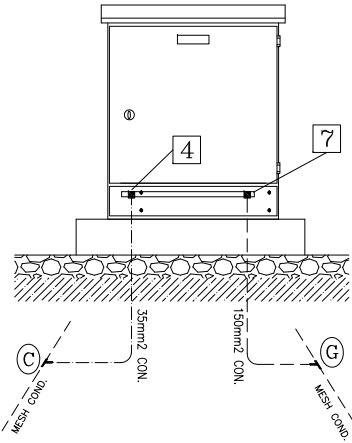
LV PANELS (CONTROL , PROTECTION , ...)



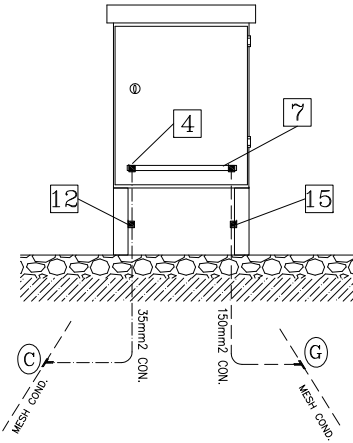
AC/DC PANELS



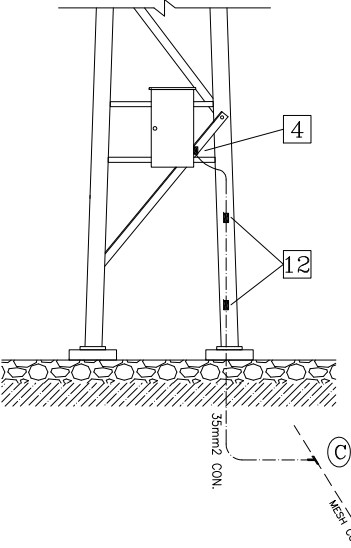
MARSHALING/OIL TREATMENT/AC OUTDOOR PANEL



CENTRAL BOX OF D.S



JUNCTION BOX



Title:

PANELS

DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1

Project:

400/230 KV NORTHERN SITE
INTERFACE S/S

Project No:

Contract No:

Scale:

Size: A4

Sheet: 36

Total : 45

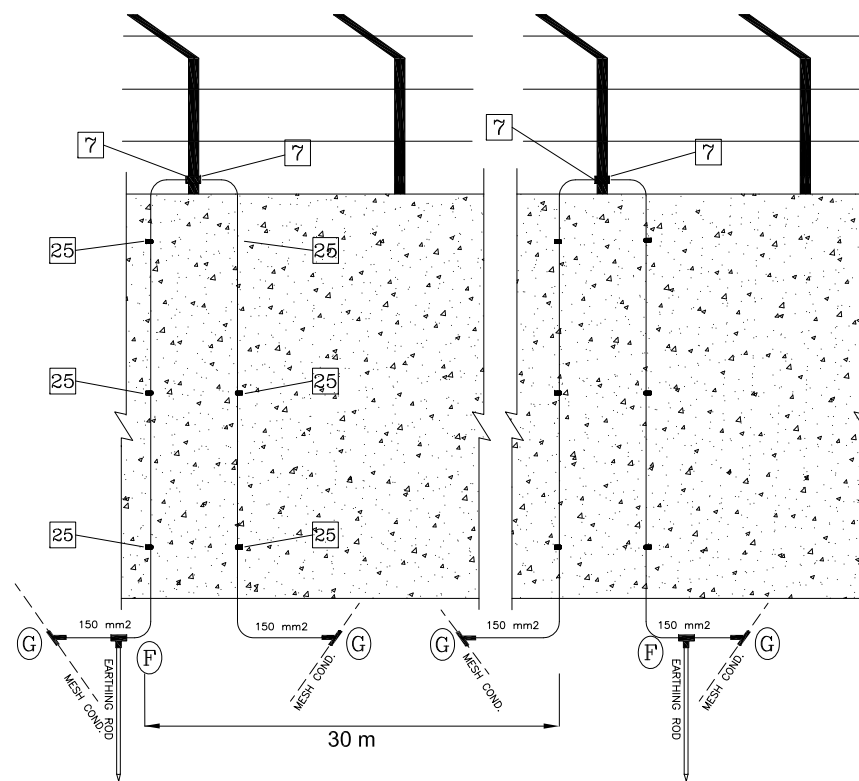
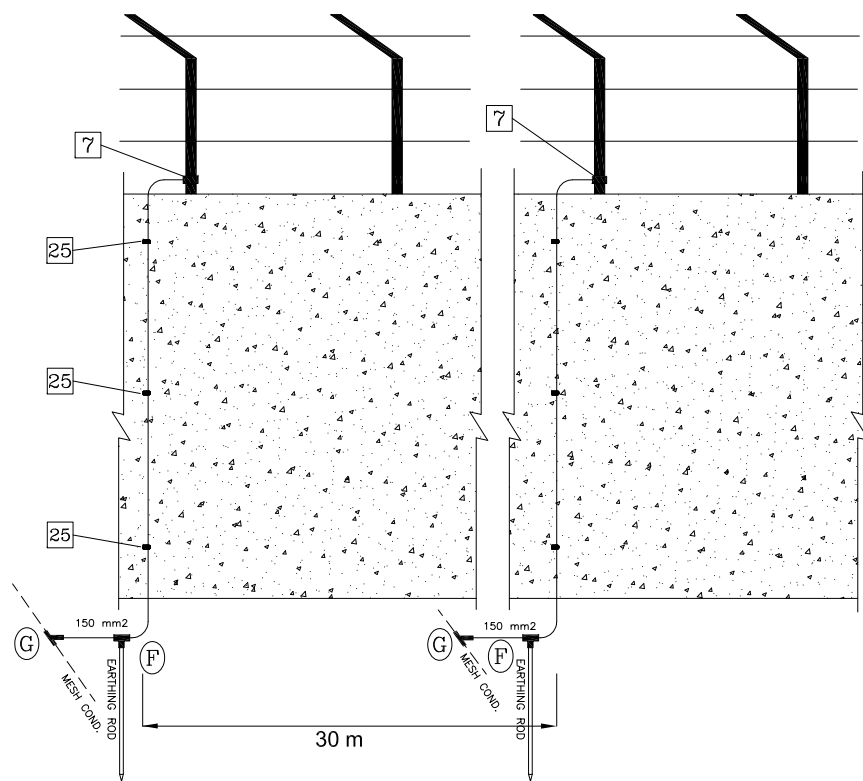
EARTHING DETAIL FOR: FENCE

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm ²
RISER CONDUCTOR	
B)STEEL STRUCTURE	150 mm ²

TYPE	CONNECTION	Q'TY
F	TEE CADWELD CONNECTION(150mm ² CON. TO EARTH ROD)	1
G	TEE CADWELD CONNECTION(150mm ² TO 150mm ² CON.)	1
7	CABLE LUG (ONE HOLE) FOR 150mm ² CONDUCTOR (ø=12)	1
25	ONE HOLE CABLE CLIP FOR 150mm ² CONDUCTOR	3

NOTE1 : QUANTITIES ARE FOR PER 30m.

UNDER THE HIGHT VOLTAGE LINE



وايزرهای بالا رونده به جهت عايق شدن از داخل ترموفيت عبور داده شود.

D	ISSUE FOR APPROVE	03/11	Consultant:	Employer:	Contractor:	⊕	Name	Date	Title:	Project:	Scale:
C	ISSUE FOR APPROVE	03/10	GHODS NIROO ENGINEERING COMPANY(G.N.E.C)	P.G.M.I.S.E.Z	MOHAM SHARGH GROUP	DRAWN	M.NOORI	1403/11	FENCE	400/230 KV NORTHERN SITE INTERFACE S/S	Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			Sheet: 37
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Total : 45
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:	

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EARTHING DETAIL FOR:

EARTH MAT

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR B)STEEL STRUCTURE	35 mm2

TYPE	CONNECTION	Q'TY
C	TEE CADWELD CONNECTION(185mm2 TO 35mm2 CON.)	1
4	CABLE LUG (ONE HOLE) FOR 35mm2 CONDUCTOR (ø=12)	2

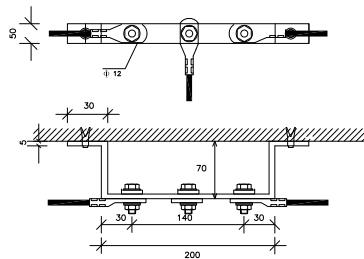
TO EARTHING TERMINAL OF OPERATING
MECHANISM OF D.S

D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	<div>Title: <i>EARTH MAT</i></div>	<div>Project: 400/230 KV NORTHERN SITE INTERFACE S/S</div>	Scale:				
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4				
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11		Project No:			Sheet: 38		
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11		Contract No:			Total : 45		
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1						

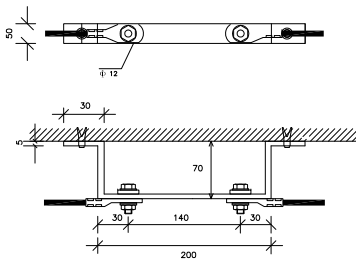
EARTHING DETAIL FOR: EARTH PIT

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm ²
RISER CONDUCTOR	
A)EARTHING TERMINAL	185 mm ²

TYPE	CONNECTION	Q'TY
E	TEE CADWELD CONNECTION(150mm ² CON. TO EARTH ROD)	—
F	TEE CADWELD CONNECTION(150mm ² CON. TO EARTH ROD)	—
07	CABLE LUG (ONE HOLE) FOR 150mm ² CONDUCTOR (ϕ=12)	—
19	CABLE LUG (ONE HOLE) FOR 185mm ² CONDUCTOR (ϕ=12)	—
28	CABLE LUG (ONE HOLE) FOR 300mm ² CONDUCTOR (ϕ=12)	—

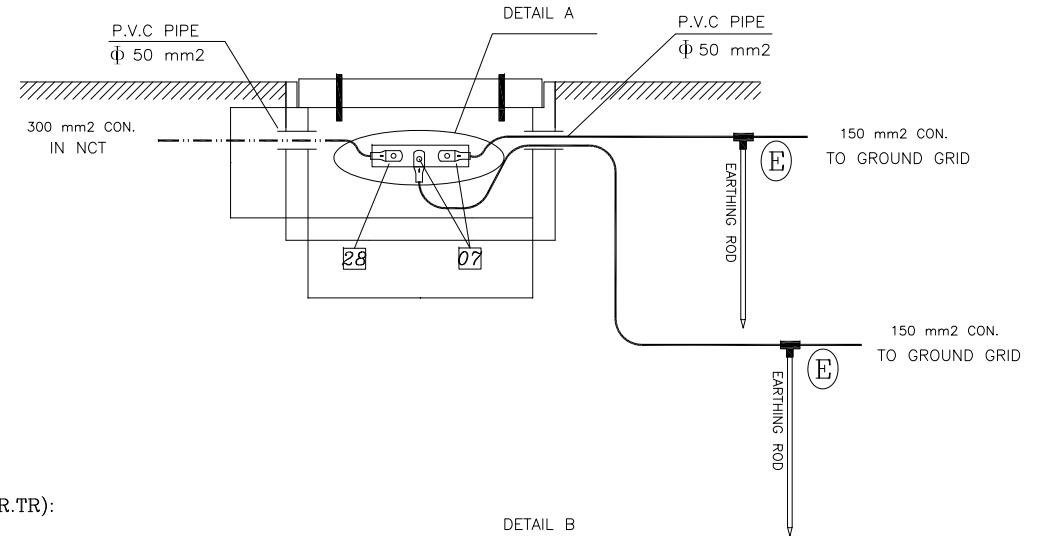


DETAIL A

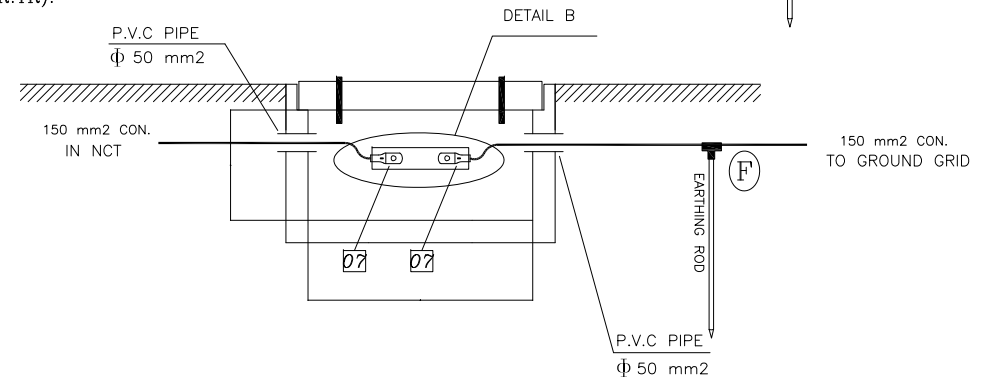


DETAIL B

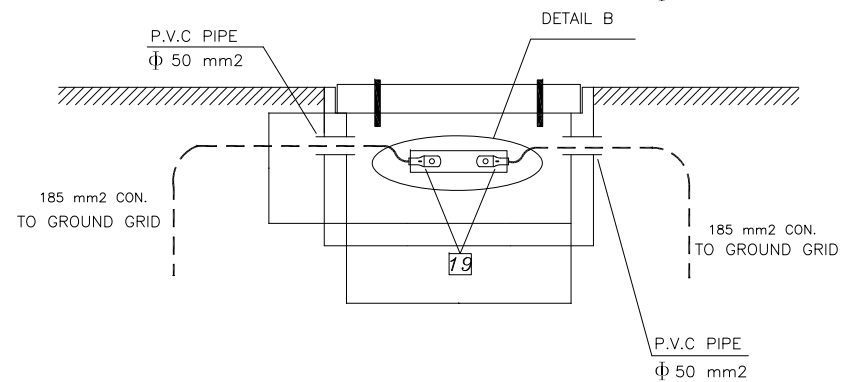
FOR NCT(P.TR):







FOR NCT(AUX/ER.TR):



FOR LINE:



D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: <i>EARTH PIT</i>	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11			
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Sheet: 39
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11			Total : 45
DWG NO:764301-TV-4-AS-2-KKK-3-EHV-017-1									Contract No:		

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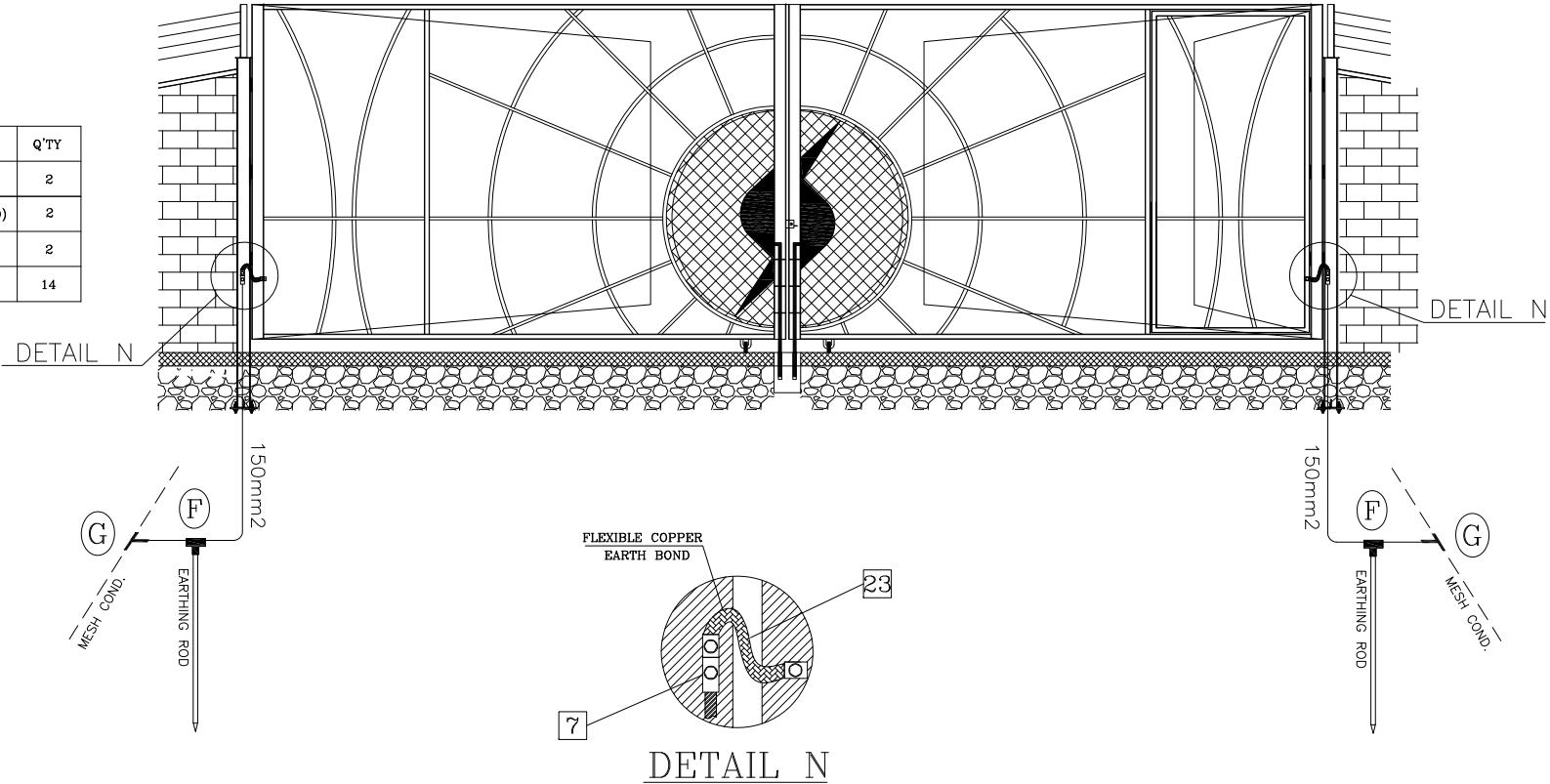
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
F

EARTHING DETAIL FOR:
DOOR

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
A)EARTHING TERMINAL	150 mm2

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION(185mm2 TO 150mm2 CON.)	2
F	TEE CADWELD CONNECTION(150mm2 CON. TO EARTH ROD)	2
7	CABLE LUG (ONE HOLE) FOR 150mm2 CONDUCTOR (ø=12)	2
23	FLEXIBLE COPPER EARTH BOND	14



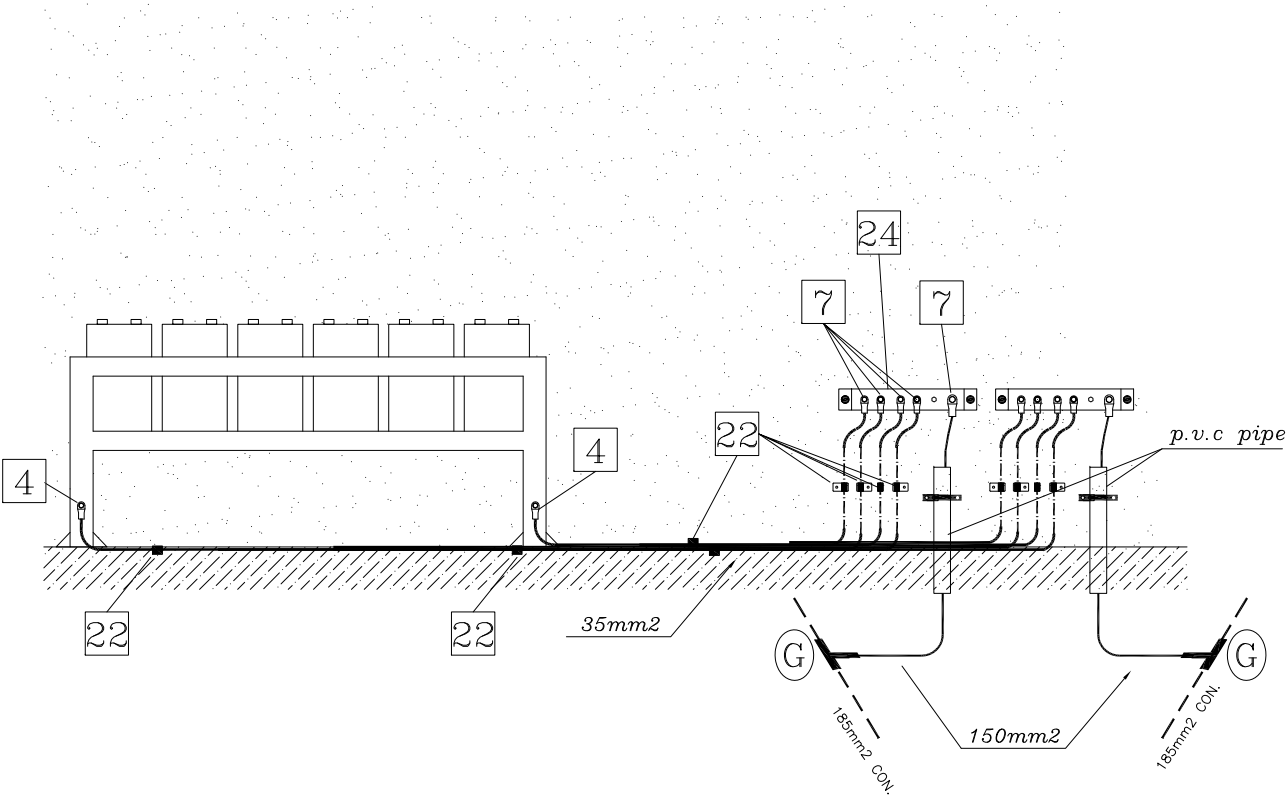
D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: DOOR	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:	
C	ISSUE FOR APPROVE	03/10				DRAWN	M.NOORI	1403/11			Size: A4	
B	ISSUE FOR APPROVE	03/09				DESIGNED	M.NOORI	1403/11		Project No:	Sheet:	40
A	ISSUE FOR APPROVE	03/09				CHECKED	M.NOORI	1403/11			Total :	45
REV.	Description.	DATE				APPROVED	M.DANESHPOU	1403/11	DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:		








EARTHING DETAIL FOR:
BATTERY SUPPORTER EARTHING

CONDUCTOR	CROSS-SECTION
MESH CONDUCTOR	185 mm2
RISER CONDUCTOR	
B)EARTHING TERMINAL	150/35 mm2

TYPE	CONNECTION	Q'TY
G	TEE CADWELD CONNECTION (185 mm2 TO 150 mm2 CON.)	2
7	ONE HOLE CABLE LUG (FOR 150 mm2 CONDUCTOR)ø=12mm	2
4	CABLE LUG (ONE HOLE) FOR 35mm2 CONDUCTOR (ø=12)	16
22	ONE HOLE CABLE CLIP FOR 35mm2 CONDUCTOR	AS REQUEST
24	EARTH TERMINAL	2

NOTE: BATTERIES METALLIC SUPPORTER MUST BE CONNECTED TO
COPPER BAR BY 35mm2 RISER CONDUCTOR



D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	Title: BATTERY SUPPORTER	Project: 400/230 KV NORTHERN SITE INTERFACE S/S	Scale:
C	ISSUE FOR APPROVE	03/10					M. NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09					M. NOORI	1403/11		Project No:	
A	ISSUE FOR APPROVE	03/09					M. DANESHPOU	1403/11		DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1	Contract No:
REV.	Description.	DATE									

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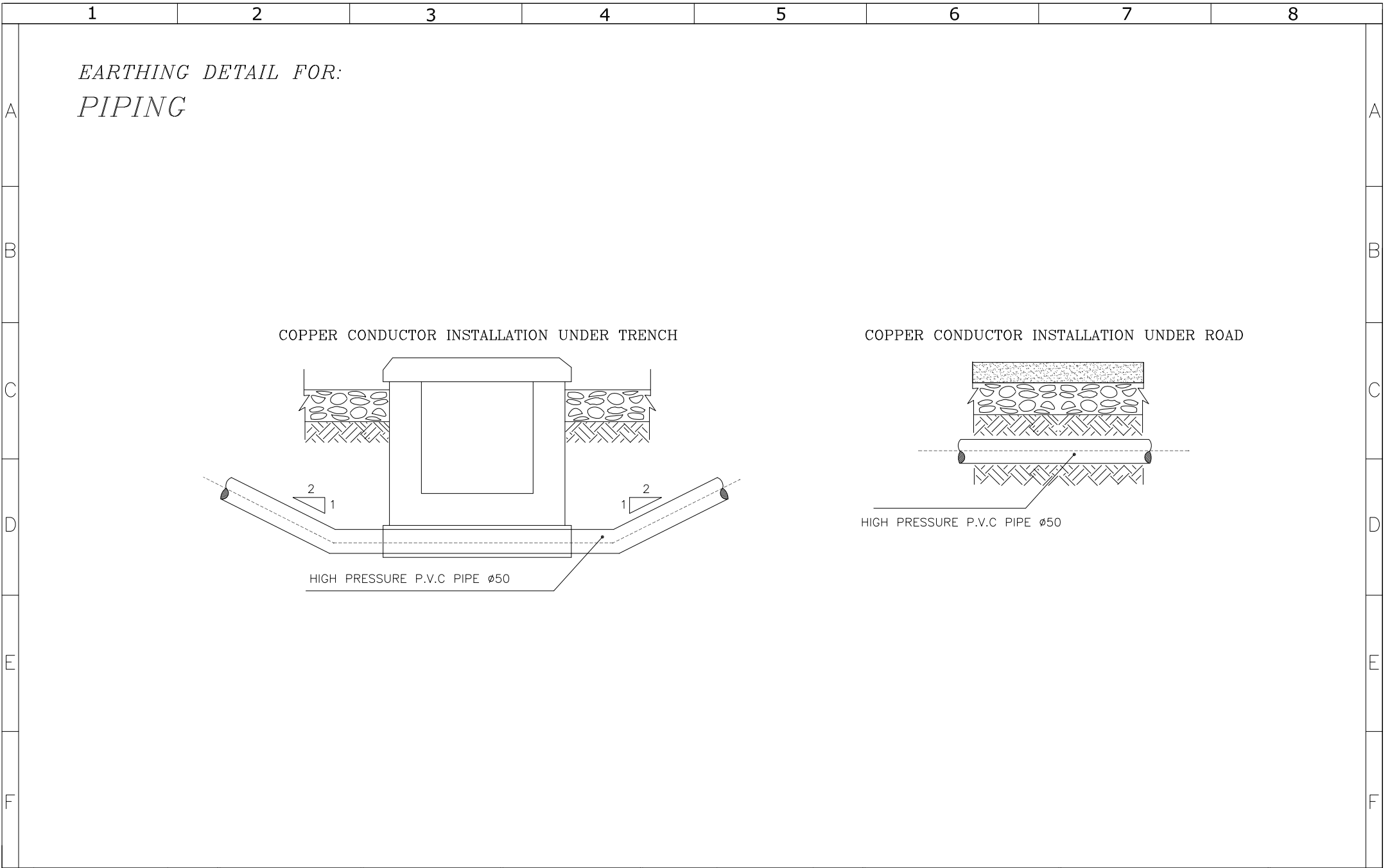
BCF








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D	ISSUE FOR APPROVE	03/11	<div>Consultant:  GHODS NIROO ENGINEERING COMPANY(G.N.E.C)</div>	<div>Employer:  P.G.M.I.S.E.Z</div>	<div>Contractor:  MOHAM SHARGH GROUP</div>		Name	Date	<div>Title: PIPING</div>	<div>Project: 400/230 KV NORTHERN SITE INTERFACE S/S</div>	Scale:
C	ISSUE FOR APPROVE	03/10					M.NOORI	1403/11			Size: A4
B	ISSUE FOR APPROVE	03/09					M.NOORI	1403/11		<div>Project No:</div>	Sheet: 45
A	ISSUE FOR APPROVE	03/09					M.DANESHPOU	1403/11			<div>Contract No:</div>
REV.	Description.	DATE				<div>DWG NO:784301-TV-4-AS-2-KKK-3-EHV-017-1</div>					