

Cat-I
 1. 400/220kV, 500MVA, 3PH AUTO TRANSFORMER-1
 2. 400/220kV, 500MVA, 3PH AUTO TRANSFORMER-2
 3. 125MVAR BUS REACTOR-1
 4. 400/220kV, 500MVA, 3PH AUTO TRANSFORMER-3
 5. 400/220kV, 500MVA, 3PH AUTO TRANSFORMER-4
 6. 125MVAR BUS REACTOR-2

BAY DESIGNATION	403	406	411	414	417
BAY DESCRIPTION	BANASKANTHA (PG)-1	BANASKANTHA (PG)-2	LINE-3 L/R-1 (FUTURE)	LINE-4 L/R-2 (FUTURE)	LINE-5 L/R-3 (FUTURE)

CT DATA

DEVICE NO.	SPEC.	CT1			CT2			CT3		
		3000/1	2000/1	500/1	3000/1	2000/1	500/1	3000/1	2000/1	500/1
FOR 401, 402, 403, 404, 405, 406, 407, 408	Ratio(A/A) Burden(VA) V _{pk} (V) I _m (mA) at V _k R _c (Ohm)	>3000 <20 <15	>2000 <30 <10	>500 <120 <2.5	>3000 <20 <15	>2000 <30 <10	>500 <120 <2.5	-	-	-
Accuracy Class	TPS	TPS	TPS	TPS	TPS	TPS	TPS	0.2S		
APPLICATION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	METERING			

VT DATA

SPECIFICATION	2'DRY 1			2'DRY 2			2'DRY 3		
	3000/1	2000/1	500/1	3000/1	2000/1	500/1	3000/1	2000/1	500/1
PRIMARY VOLTAGE(V)	3000	2000	500	3000	2000	500	3000	2000	500
SECONDARY VOLTAGE(V)	110/√3	110/√3	110/√3	110/√3	110/√3	110/√3	110/√3	110/√3	110/√3
ACCURACY	3P	3P	3P	3P	3P	3P	3P	3P	3P
MIN. BURDEN(VA)	50	50	50	50	50	50	50	50	50
APPLICATION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	METERING		

PGCIL REFERENCE DRAWINGS
 1. 400/220KV SINGLE LINE DIAGRAM. DRG. No. C/ENGS/WR/BANASKANTHA/GIS/SLD/01.
 2. HYOSUNG REFERENCE DRAWINGS
 LAYOUT: SINGLE LINE DIAGRAM WITH CT & VT DATA: PGCIL-10101275-A01-01
 LAYOUT FOR GIS (OVERALL): PGCIL-10101275-A02-01
 LAYOUT FOR GIS (INSIDE GIS BUILDING): PGCIL-10101275-A02-02
 FOUNDATION: FOUNDATION FOR GIS (INSIDE GIS BUILDING): PGCIL-10101275-A03-01
 FOUNDATION FOR BUS DUCT (GDB): PGCIL-10101275-A03-02
 GAS SYSTEM: GAS SYSTEM DIAGRAM: PGCIL-10101275-A06-01

VT DATA

SPECIFICATION	2'DRY 1	2'DRY 2	2'DRY 3
PRIMARY VOLTAGE(V)	3000	2000	500
SECONDARY VOLTAGE(V)	110/√3	110/√3	110/√3
ACCURACY	3P	3P	3P
MIN. BURDEN(VA)	50	50	50
APPLICATION	PROTECTION	PROTECTION	METERING

LIST OF OUTDOOR EQUIPMENTS-400KV

SL. NO.	EQUIPMENT DESCRIPTION	LEGENDS	SCOPE OF SUPPLY	QUANTITY (Nos.)
1.	420KV, 4400pF CAPACITIVE TRANSFORMER (1-PHASE)	⊕	KEC	6
2.	336KV SURGE ARRESTER (1-PHASE)	⚡	KEC	15
3.	400KV, 3150A, 0.5mH, 50KA WAVE TRAP	⊕	KEC	2
4.	500MVA, 400/220/33KV (3-PHASE) AUTO TRANSFORMER	⊕	KEC	1
5.	125MVAR, 420KV, (3-PHASE) BUS REACTOR	⊕	KEC	1
6.	5F6/AIR BUSHING GIS MODULE	⊕	HYOSUNG	15

CT DATA

DEVICE NO.	SPEC.	CT1			CT2			CT3		
		3000/1	2000/1	500/1	3000/1	2000/1	500/1	3000/1	2000/1	500/1
FOR 401, 403, 404, 406, 407, 408	Ratio(A/A) Burden(VA) V _{pk} (V) I _m (mA) at V _k R _c (Ohm)	>3000 <20 <15	>2000 <30 <10	>500 <120 <2.5	>3000 <20 <15	>2000 <30 <10	>500 <120 <2.5	-	-	-
Accuracy Class	TPS	TPS	TPS	TPS	TPS	TPS	TPS	0.2S		
APPLICATION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	PROTECTION	METERING			

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4.	500MVA, 400/220/33KV (3-PHASE) AUTO TRANSFORMER	⊕	KEC	1
5.	125MVAR, 420KV, (3-PHASE) BUS REACTOR	⊕	KEC	1
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SECONDARY VOLTAGE(V)	110/√3	110/√3	110/√3
ACCURACY	3P	3P	3P
MIN. BURDEN(VA)	50	50	50
APPLICATION	PROTECTION	PROTECTION	METERING

LIST OF OUTDOOR EQUIPMENTS-400KV

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4.	500MVA, 400/220/33KV (3-PHASE) AUTO TRANSFORMER	⊕	KEC	1
5.	125MVAR, 420KV, (3-PHASE) BUS REACTOR	⊕	KEC	1
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CT DATA

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Accuracy Class	TPS	TPS	TPS	TPS	TPS	TPS	TPS	0.2S		
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SECONDARY VOLTAGE(V)	110/√3	110/√3	110/√3
ACCURACY	3P	3P	3P
MIN. BURDEN(VA)	50	50	50
APPLICATION	PROTECTION	PROTECTION	METERING

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3.	400KV, 3150A, 0.5mH, 50KA WAVE TRAP	⊕	KEC	2
4.	500MVA, 400/220/33KV (3-PHASE) AUTO TRANSFORMER	⊕	KEC	1
5.	125MVAR, 420KV, (3-PHASE) BUS REACTOR	⊕	KEC	1
6.	5F6/AIR BUSHING GIS MODULE	⊕	HYOSUNG	15

BILL OF EQUIPMENTS-400KV

SL. NO.	EQUIPMENT DESCRIPTION	SCOPE OF SUPPLY	QUANTITY (Nos.)
1.	500MVA, 400/220/33KV (3-PHASE) AUTO TRANSFORMER	KEC	2 Nos.
2.	125MVAR, 420KV, (3-PHASE) BUS REACTOR	KEC	1 No.
3.	420KV, 4400pF CAPACITIVE VOLTAGE TRANSFORMER (1-PHASE)	KEC	6 Nos.
4.	336KV SURGE ARRESTER (1-PHASE)	KEC	15 Nos.
5.	420KV, 3150A, 0.5mH, 50KA WAVE TRAP	KEC	4 Nos.
6.	420KV, 4000A, 50KA, SF6 GIS BUS BAR MODULE	HYOSUNG	2 SETS
7.	420KV, 3150A, 50KA, SF6 GIS LINE FEEDER BAY MODULE(WITHOUT PIR)	HYOSUNG	2 SETS
8.	420KV, 3150A, 50KA, SF6 GIS ICT FEEDER BAY MODULE	HYOSUNG	2 SETS
9.	A) CB WITHOUT PIR & WITH CSD 420KV, 3150A, 50KA, SF6 GIS BUS REACTOR BAY MODULE	HYOSUNG	2 Nos. 1 SET
10.	A) CB WITHOUT PIR & WITH CSD 420KV, 3150A, 50KA, SF6 GIS TIE BAY MODULE(WITHOUT PIR)	HYOSUNG	1 No. 3 SETS
11.	A) CB WITHOUT PIR & WITH CSD 420KV, 3150A, 50KA, SF6 GIS LINE FEEDER BAY MODULE(WITHOUT PIR)	HYOSUNG	3 Nos.
12.	CONTROLLED SWITCHING DEVICE(CSD) FOR 420KV, 3PH CIRCUIT BREAKER	HYOSUNG	15 Nos. 6 SETS

LEGEND

SYMBOL	DEVICE NO.	DESCRIPTION	OPERATION TYPE
⊕	4** -52	CIRCUIT BREAKER WITHOUT PIR & CONTROLLED SWITCHING DEVICE	HYDRAULIC, MANUAL
⊕	4** -52	CIRCUIT BREAKER WITHOUT PIR & WITH CONTROLLED SWITCHING DEVICE	HYDRAULIC, MANUAL
⊕	4** -89A, 89B, 89T, 89L, 89R	DISCONNECTING SWITCH	MOTOR DRIVEN, MANUAL
⊕	4** -89A, 89B, 89T, 89L, 89R	MAINTENANCE EARTHING SWITCH	MOTOR DRIVEN, MANUAL
⊕	4** -89L	HIGH-SPEED EARTHING SWITCH	MOTOR DRIVE SPRING CHARGED, MANUAL
⊕	CT1, CT2, CT3	CURRENT TRANSFORMER	RING TYPE
⊕	400-VTA, VTB	VOLTAGE TRANSFORMER	GAS INSULATED INDUCTIVE (WITH ISOLATING DEVICE)
⊕	Z1	GAS TO AIR BUSHING WITH BUS DUCT	

NOTE
 1. THE DESCRIBED EQUIPMENTS ARE 400(420)KV RATINGS.
 2. THE DOTTED LINE (- - -) MEANS FUTURE SCOPE.
 3. INSULATION LEVEL & CONTINUOUS VOLTAGE RATING OF INSULATING LINK OF ES : 10KV, 1000A

CUSTOMER POWER GRID CORPORATION OF INDIA LTD.

MAIN CONTRACTOR HYOSUNG CORPORATION

ASSOCIATE CONTRACTOR KEC KEC INTERNATIONAL LTD.
 8th FLOOR, BUILDING No. 5A, DEF CYBER CITY, PHASE II, GURGAON (HARYANA) - 122002

NOA-I : HYOSUNG ON-SHORE SUPPLY CC-CS/801-WR2/GIS-3662/3/G7/NOA-I/7544 DATED 13.12.2017
 NOA-II : KEC ON-SHORE SUPPLY CC-CS/801-WR2/GIS-3662/3/G7/NOA-II/7545 DATED 13.12.2017
 NOA-III : KEC ON-SHORE SERVICE CC-CS/801-WR2/GIS-3662/3/G7/NOA-III/7546 DATED 13.12.2017

PROJECT SUBSTATION PACKAGE SS04 FOR 400/220KV BANASKANTHA (RADHANESDA)(NEW) GIS POOLING STATION ALONG WITH 2X500MVA, 400/220KV TRANSFORMERS AND 1X 125 MVAR, 420KV BUS REACTOR SUPPLEMENTARY TRANSMISSION SYSTEM FOR ULTRA MEGA SOLAR POWER PARK (700MW) AT BANASKANTHA

SUBSTATION 400/220KV BANASKANTHA (RADHANESDA)(NEW) GIS POOLING STATION

DRG. TITLE 400KV GIS SUBSTATION SINGLE LINE DIAGRAM WITH CT & VT DATA

DRG. NO.: PGCIL-10101275-A01-01

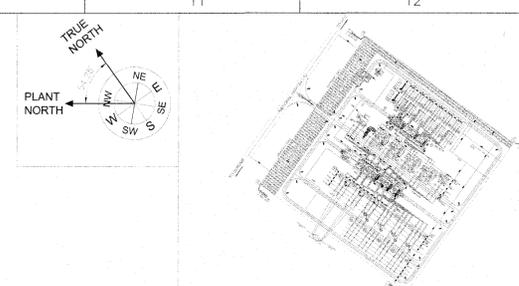
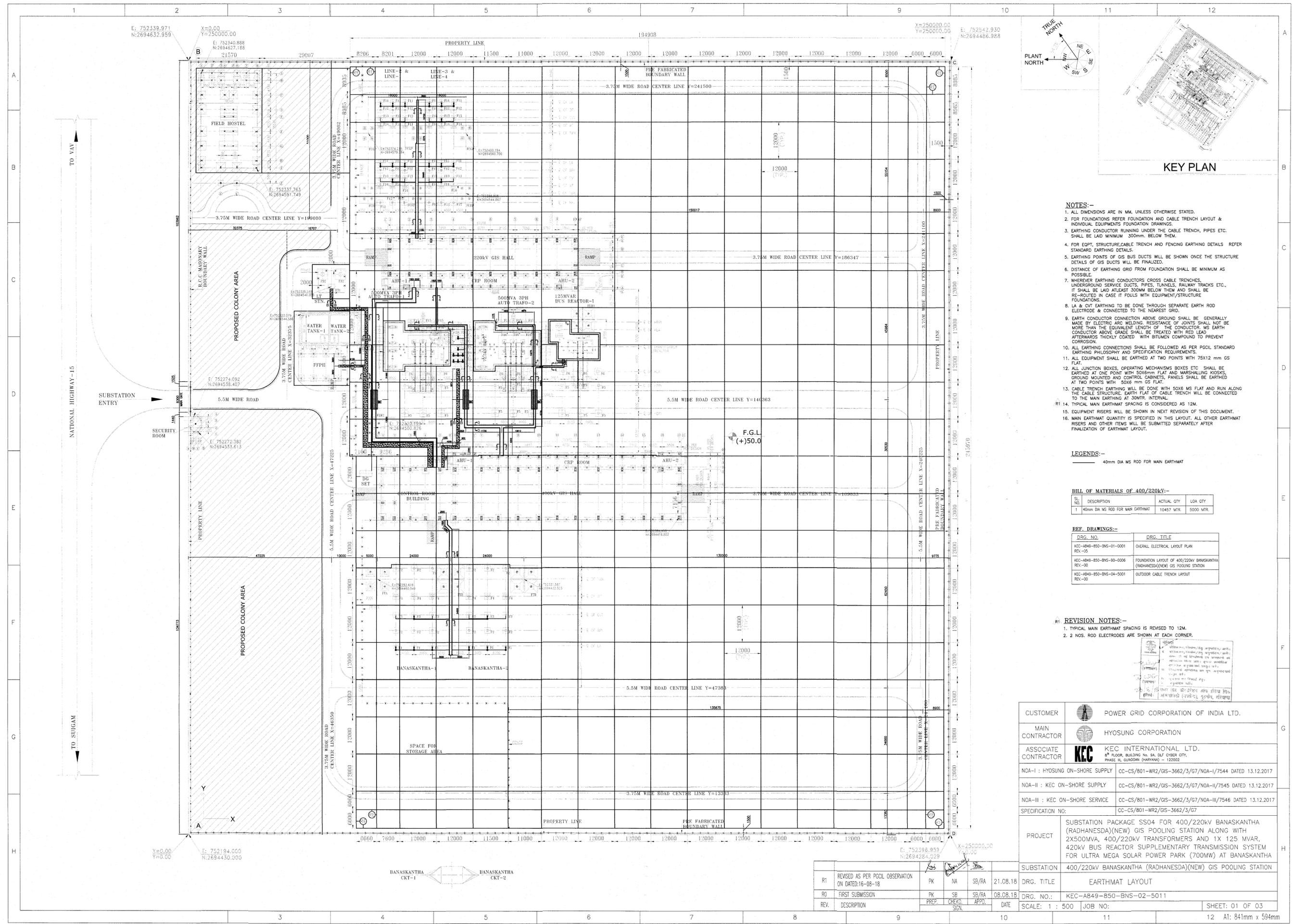
SCALE: N.T.S **JOB NO:** 10101275 **SHEET:** 01 OF 01

REV. DESCRIPTION

REV.	DESCRIPTION	PREP.	CHECK.	APPD.	DATE
2	REVISED AS PER PGCIL COMMENT	E.Y.PARK	J.K.KIM	T.S.RHO	05.JUL.'18
1	REVISED AS PER PGCIL COMMENT	E.Y.PARK	J.K.KIM	T.S.RHO	22.JUN.'18
0	FIRST ISSUE FOR APPROVAL	E.Y.PARK	J.K.KIM	T.S.RHO	09.MAR.'18

SCALE: N.T.S **JOB NO:** 10101275 **SHEET:** 01 OF 01

** THE INTERMEDIATE TAPPING AT 3000-2000 OF METERING CORE SHALL BE SUITABLE FOR USING AS 1000/1 RATIO FOR METERING PURPOSE.



- NOTES:-**
1. ALL DIMENSIONS ARE IN MM, UNLESS OTHERWISE STATED.
 2. FOR FOUNDATIONS REFER FOUNDATION AND CABLE TRENCH LAYOUT & INDIVIDUAL EQUIPMENTS FOUNDATION DRAWINGS.
 3. EARTHING CONDUCTOR RUNNING UNDER THE CABLE TRENCH, PIPES ETC. SHALL BE LAID MINIMUM 300mm. BELOW THEM.
 4. FOR EOPT, STRUCTURE, CABLE TRENCH AND FENCING EARTHING DETAILS REFER STANDARD EARTHING DETAILS.
 5. EARTHING POINTS OF GIS BUS DUCTS WILL BE SHOWN ONCE THE STRUCTURE DETAILS OF GIS DUCTS WILL BE FINALIZED.
 6. DISTANCE OF EARTHING GRID FROM FOUNDATION SHALL BE MINIMUM AS POSSIBLE.
 7. WHEREVER EARTHING CONDUCTORS CROSS CABLE TRENCHES, UNDERGROUND SERVICE DUCTS, PIPES, TUNNELS, RAILWAY TRACKS ETC., IT SHALL BE LAID ATLEAST 300MM BELOW THEM AND SHALL BE RE-ROUTED IN CASE IT FOULS WITH EQUIPMENT/STRUCTURE FOUNDATIONS.
 8. LA & CVT EARTHING TO BE DONE THROUGH SEPARATE EARTH ROD ELECTRODE & CONNECTED TO THE NEAREST GRID.
 9. EARTH CONDUCTOR CONNECTION ABOVE GROUND SHALL BE GENERALLY MADE BY ELECTRIC ARC WELDING. RESISTANCE OF JOINTS SHALL NOT BE MORE THAN THE EQUIVALENT LENGTH OF THE CONDUCTOR. MS EARTH CONDUCTOR ABOVE GRADE SHALL BE TREATED WITH RED LEAD AFTERWARDS THICKLY COATED WITH BITUMEN COMPOUND TO PREVENT CORROSION.
 10. ALL EARTHING CONNECTIONS SHALL BE FOLLOWED AS PER IEC STANDARD EARTHING PHILOSOPHY AND SPECIFICATION REQUIREMENTS.
 11. ALL EQUIPMENT SHALL BE EARTHED AT TWO POINTS WITH 75X12 mm GS FLAT.
 12. ALL JUNCTION BOXES, OPERATING MECHANISMS BOXES ETC SHALL BE EARTHED AT ONE POINT WITH 50X6mm FLAT AND MARSHALLING KIOSKS, GROUND MOUNTED AND CONTROL CABINETS, PANELS SHALL BE EARTHED AT TWO POINTS WITH 50X6 mm GS FLAT.
 13. CABLE TRENCH EARTHING WILL BE DONE WITH 50X6 MS FLAT AND RUN ALONG THE CABLE STRUCTURE. EARTH FLAT OF CABLE TRENCH WILL BE CONNECTED TO THE MAIN EARTHING AT 30MTR. INTERVAL.
 14. TYPICAL MAIN EARTH MAT SPACING IS CONSIDERED AS 12M.
 15. EQUIPMENT RISERS WILL BE SHOWN IN NEXT REVISION OF THIS DOCUMENT.
 16. MAIN EARTH MAT QUANTITY IS SPECIFIED IN THIS LAYOUT. ALL OTHER EARTH MAT FINALIZATION OF EARTH MAT LAYOUT.

LEGENDS:-
 40mm DA MS ROD FOR MAIN EARTH MAT

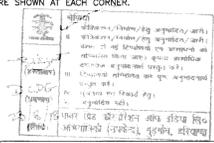
BILL OF MATERIALS OF 400/220KV:-

SL. NO.	DESCRIPTION	ACTUAL QTY	LOA QTY
1	40mm DA MS ROD FOR MAIN EARTH MAT	10457 MTR	5000 MTR

REF. DRAWINGS:-

DRG. NO.	DRG. TITLE
KEC-A849-850-BNS-01-0001 REV-05	OVERALL ELECTRICAL LAYOUT PLAN
KEC-A849-850-BNS-02-0006 REV-00	FOUNDATION LAYOUT OF 400/220KV BANASKANTHA (RADHANESDA)(NEW) GIS POOLING STATION
KEC-A849-850-BNS-04-5001 REV-00	OUTDOOR CABLE TRENCH LAYOUT

- REVISION NOTES:-**
1. TYPICAL MAIN EARTH MAT SPACING IS REVISED TO 12M.
 2. NOS. ROD ELECTRODES ARE SHOWN AT EACH CORNER.



CUSTOMER	POWER GRID CORPORATION OF INDIA LTD.
MAIN CONTRACTOR	HYOSUNG CORPORATION
ASSOCIATE CONTRACTOR	KEC INTERNATIONAL LTD. 8 TH FLOOR, BUILDING NO. 8A, DLF OVERSEAS CITY, PHASE III, Gurgaon (Haryana) - 122002.
NOA-I : HYOSUNG ON-SHORE SUPPLY	CC-CS/801-WR2/GIS-3662/3/G7/NOA-I/7544 DATED 13.12.2017
NOA-II : KEC ON-SHORE SUPPLY	CC-CS/801-WR2/GIS-3662/3/G7/NOA-II/7545 DATED 13.12.2017
NOA-III : KEC ON-SHORE SERVICE	CC-CS/801-WR2/GIS-3662/3/G7/NOA-III/7546 DATED 13.12.2017
SPECIFICATION NO.:	CC-CS/801-WR2/GIS-3662/3/G7
PROJECT	SUBSTATION PACKAGE SS04 FOR 400/220KV BANASKANTHA (RADHANESDA)(NEW) GIS POOLING STATION ALONG WITH 2X500MVA, 400/220KV TRANSFORMERS AND 1X 125 MVAR, 420KV BUS REACTOR SUPPLEMENTARY TRANSMISSION SYSTEM FOR ULTRA MEGA SOLAR POWER PARK (700MW) AT BANASKANTHA
SUBSTATION	400/220KV BANASKANTHA (RADHANESDA)(NEW) GIS POOLING STATION
DRG. TITLE	EARTH MAT LAYOUT
DRG. NO.:	KEC-A849-850-BNS-02-5011
SCALE:	1 : 500
JOB NO.:	11
SHEET:	01 OF 03

REV.	DESCRIPTION	PREP.	CHECK.	APPR.	DATE
R1	REVISED AS PER POOL OBSERVATION ON DATED:16-08-18	PK	NA	SB/RA	21.08.18
R0	FIRST SUBMISSION	PK	SB	SB/RA	08.08.18

