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8 7 6 5 4 3 2 1

NOTES / SPECIFICATIONS:

RATING : 15-25 KVA

1. ENGINE : CIL X1.7-G1 / X2.5-G2 (RADIATOR COOLED)
2. ALTERNATOR : Make STAMFORD 15 / 20 / 25 KVA, FRAME SIZE: P1044G / P1144D / P1144E.
3. DG-SET, CONTROL PANEL, BATTERY & FUEL TANK ARE WITHIN THE ACOUSTIC, ON A COMMON BASE.
4. THE DG-SET IS COMPLETE WITH EXHAUST PIPING, SILENCER & RAIN CAP. ✓
5. CONSTRUCTION DETAILS/SPECIFICATIONS:
 - OUTER BODY - 1.6 mm Thk. (16 SWG) CRCA ✓
 - DOORS - 1.6 mm Thk. (16 SWG) CRCA ✓
 - SOUND INSULATION - 25mm Thk. PU FOAM, ✓
 - BASE FRAME - ISMC 100 CHANNEL ✓
6. THE ACOUSTIC IS COMPOSITE IN CONSTRUCTION & IS A FULLY ASSEMBLED INTEGRAL UNIT.
7. THE MANUAL / AMF CONTROL PANEL IS LOCATED AT THE ALTERNATOR END, FACING THE REAR SIDE & A PERSPEX IS PROVIDED FOR VIEWING OF THE METERS AND OTHER INDICATIONS.
8. THE BATTERY IS LOCATED AT THE ALTERNATOR END OF THE ACOUSTIC & IS EASILY MAINTAINABLE.
9. SILENCER - Make 'CEIL', Part No. 10118-1
10. THE DG-SET IS PROVIDED WITH AN EXTERNAL 'EMERGENCY STOP' PUSH BUTTON.
11. THE ACOUSTIC IS PROVIDED WITH A BULKHEAD LIGHT FITTING FOR INSIDE ILLUMINATION.
12. THE FUEL TANK CAPACITY IS 55 Lts & IS SUB-BASE TYPE.
13. THE NOISE LEVEL WILL BE 75 DBA LOG. AVG. AT 1 Mtr, UNDER FREE FIELD CONDITIONS (MEASURED AS PER ISO 8528 Part-10)
14. FLOOR (INCL.MOVE AROUND) SPACE REQUIRED FOR INSTALLATION : 4 M X 2.6 M
15. THE ACOUSTIC ENCLOSURE PARTS WILL BE POWDER COATED AFTER PRE-TREATMENT PROCESS. THE POWDER COATING SHADE IS 'GENSET GREEN'. THE COMMON BASE FRAME WILL BE EPOXY PAINTED-BLACK SHADE.

[GROSS SYSTEM WET WEIGHT :- 1100 kg (max)]

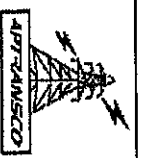
APPROVED FOR TENDER PROPOSALS

CHIEF ENGINEER / CONSTRUCTION-1
 APTRANSCO/MD/1078 SO.04/11/10

Client: **POWERICA DEVELOPMENTS** Title: **15 TO 25 KVA - RADIATOR COOLED COMPOSITE ACOUSTIC DG SET.**

Order Ref: **8**

Standardised Guaranteed Technical Particulars for Diesel Generator Set
 STD/GTP-DWG/Approval No. 221 / Revision Mo. 0
 Prepared & Approved during October - 2011



SUB-TITLE: **GENERAL SPECIFICATION** Rev. 03

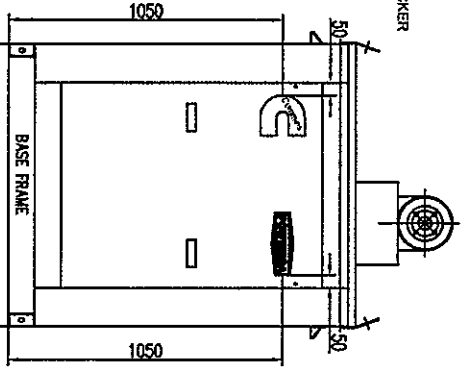
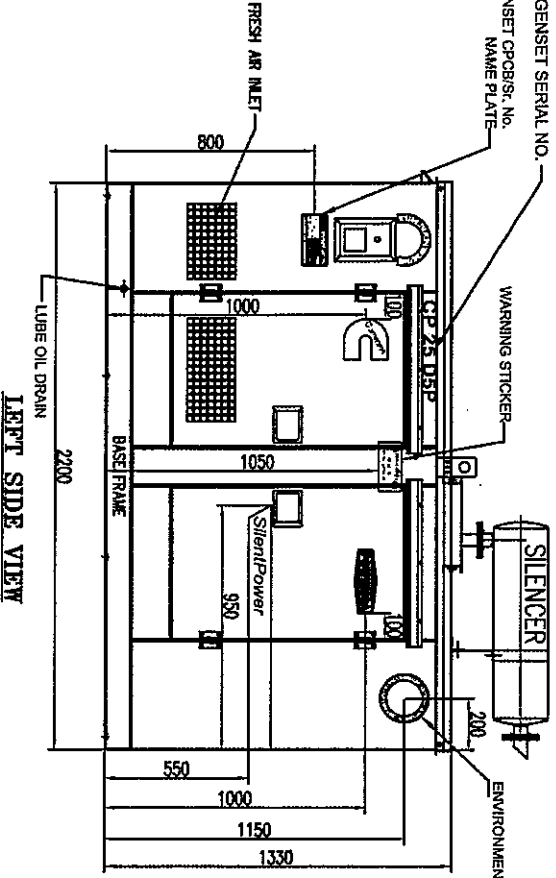
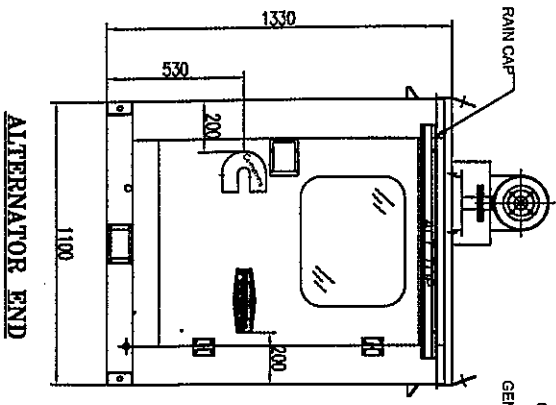
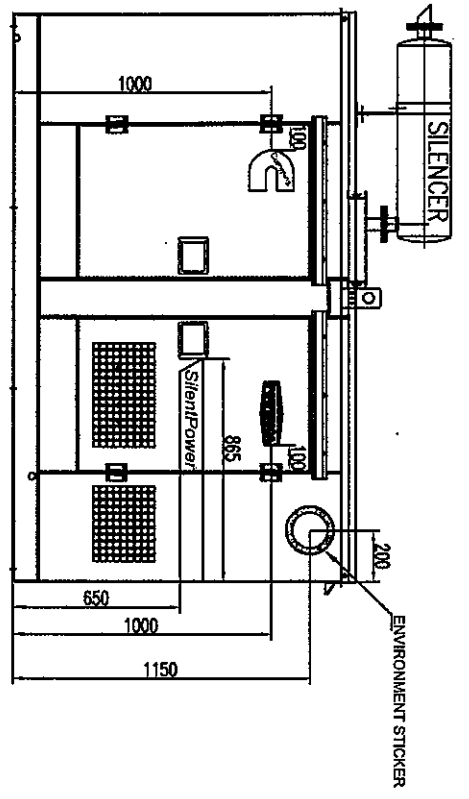
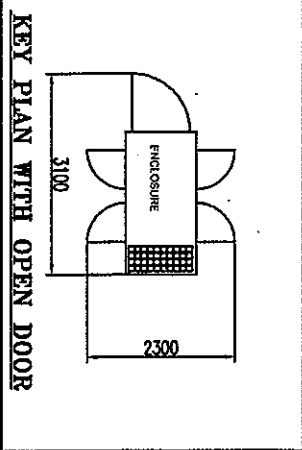
Drn.	PRASHANT	01.11.08	Drawing No.	Scale	NTS
Chkd.	SD	01.11.08	P.TS/XF2-01	Ref.	--
Appd.	SB	01.11.08	(SPECS)	Sheet	01 OF 04



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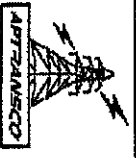


Client: **POWERICA DEVELOPMENTS**
 Title: **15 TO 25 KVA - RADIATOR COOLED COMPOSITE ACUSTIC DG SET.**

Order Ref: _____

Standardised Drawing for Diesel Generator Set
 STD/GTP-DWG/Approval No. 221 / Revision No. 0

Prepared & Approved during October - 2011



APPROVED FOR TURNKEY PROJECTS
 CHIEF ENGINEER / CONSTRUCTION
 PRODUCED STICKERS & LOGOS/HYD.03

SUB-TITLE: LOCATION OF PRODUCED STICKERS & LOGOS/HYD.03

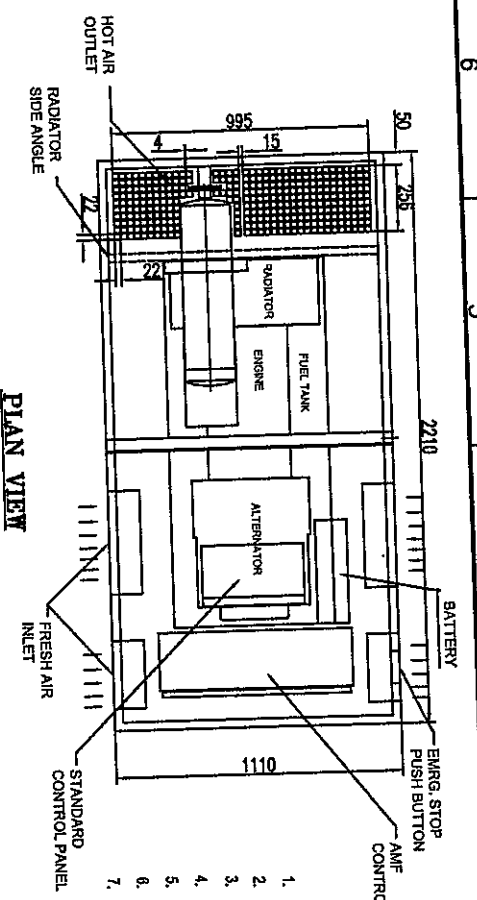
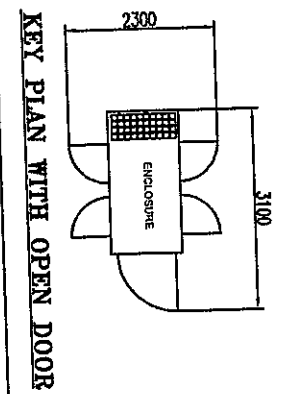
Dim.	PRASHANT	01.11.08	Drawing No.	Scale	NIS
Chkd.	SD	01.11.08	PTS/XF2-01	Ref.	---
Apprd.	SB	01.11.08	(STICKERS)	Sheet	02 OF 04



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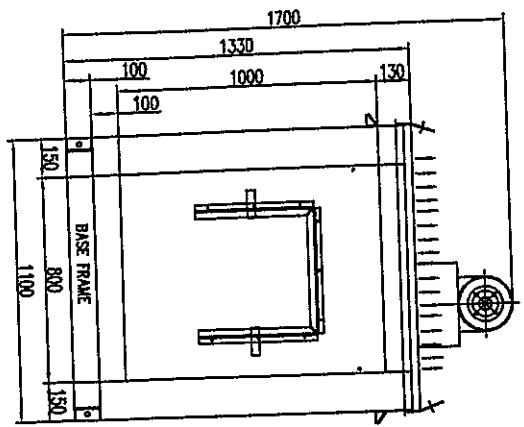
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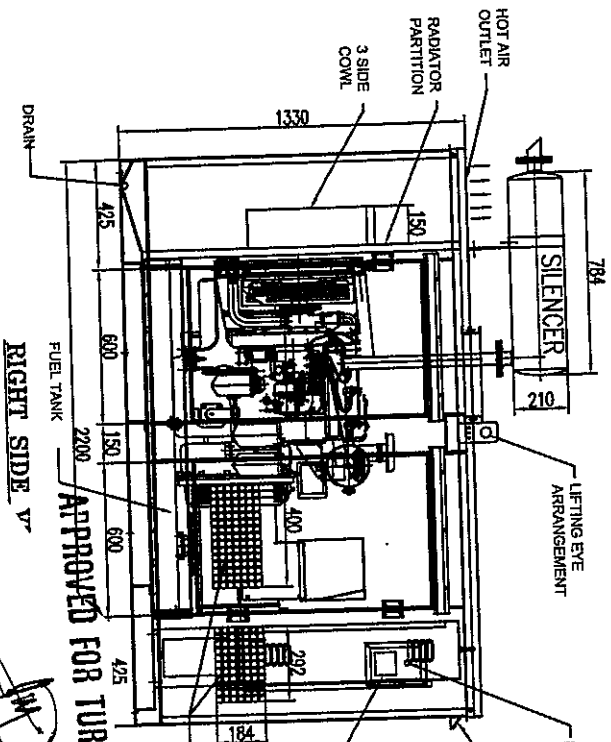


- NOTES / SPECIFICATIONS:**
1. ALL DIMENSIONS ARE IN MM UNLESS SPECIFIED OTHERWISE
 2. ENCLOSURE POWDER COATED IN GENSET GREEN.
 3. ENCLOSURE WITH ACOUSTIC FOAM INSULATION.
 4. ENCLOSURE FABRICATED WITH CRCA SHEETS.
 5. ENCLOSURE BASE FABRICATED WITH ISMC 100 X 50.
 6. COMMON BASE EPOXY PAINTED - BLACK SHADE.
 7. SILENCER OUTLET Ø50 mm

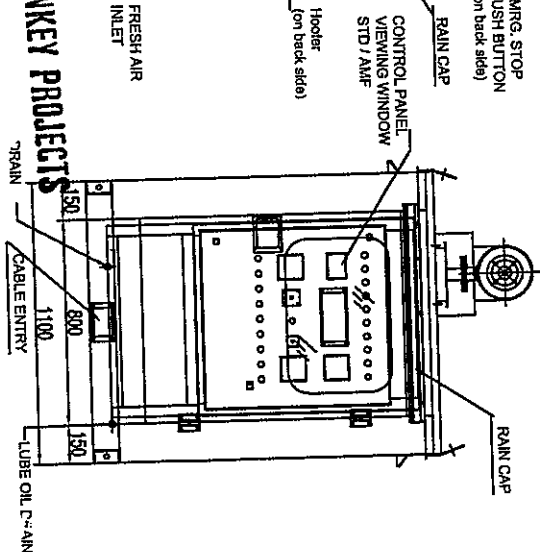
RATING - 5 TO 25 KVA
 ENGINE - CUMMINS (X SERIES)
 ALTERNATOR - STAMFORD (BC FRAME)



RADIATOR END



RIGHT SIDE VIEW



ALTERNATOR END

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Title: 15 TO 25 KVA - RADIATOR COMPOSITE ACOUSTIC DG SET.

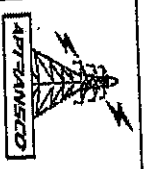
Client: POWERICA DEVELOPMENTS

Order Ref: 8

CHIEF ENGINEER / CONSTRUCTION-1
 SUDHA/HYD.
 GA-ASSEMBLY LAYOUT

21/10/2011

Standardised Drawing for Diesel Generator Set
 STD/GTP-DWG/Approval No. 221 / Revision Mo. 0
 Prepared & Approved during October - 2011



Dm.	PRASHANT	01.11.08	Drawing No.	Scale	NTS	Rev.	03
Chkd.	SD	01.11.08	PTS / XF2-01	Ref.			
Appd.	SB	01.11.08	(GA DRG) Sheet	03 OF 04			

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Client: **POWERICA DEVELOPMENTS**

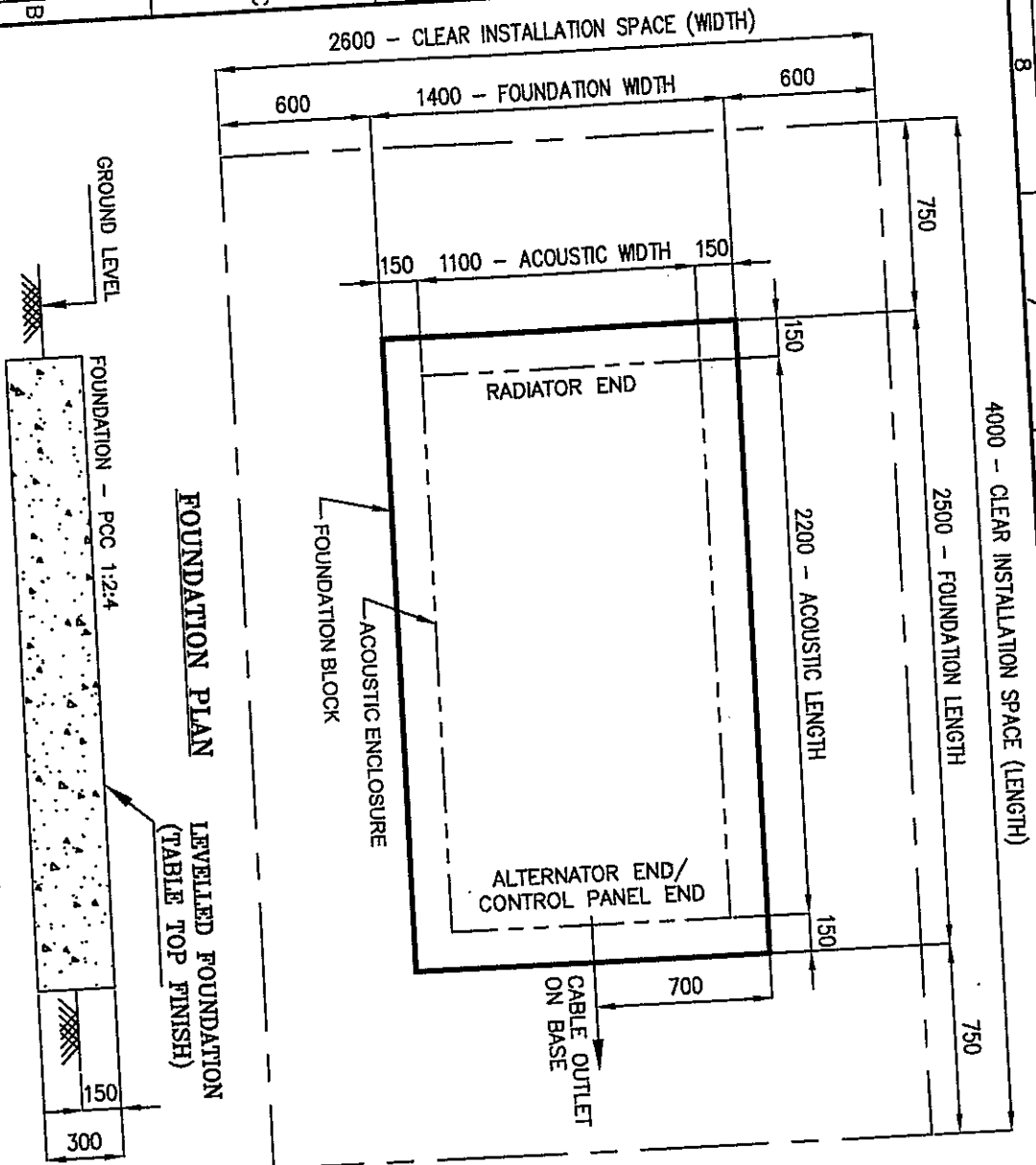
Order Ref: _____

Title: **15 TO 25 KVA - RADIATOR COOLED
COMPOSITE ACOUSTIC DG SET.**

Standardised Drawing for Diesel Generator Set
STD/GTP-DWG/Approval No. 291 / Revision Mo. 0
Prepared & Approved during October - 2011



SUB-TITLE: FOUNDATION PLAN		Rev. 03
Dim.	PRASANT	01.11.08
Chkd.	SD	01.11.08
Appd.	SB	01.11.08
Drawing No. P/TS/XF2-01		Scale NTS
(FPDN)		Ref. ---
POWERICA LIMITED		Sheet 04 OF 04



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CHIEF ENGINEER / CONSTRUCTION-1
A. TRANSCO/VIDYUTH SOUDHA/HYD.

NOTE -
1) TRENCHES ARE NOT REQUIRED FOR CABLE ENTRY.
2) FOUNDATION IS CONSIDERING MINIMUM SBC = 5 T/SQ.M.
3) THE CASTING OF FOUNDATION AT CUSTOMER SITE/PREMISES, SHOULD BE DONE AFTER CONFIRMING THE SITE LOCATION & SUITABILITY FOR INSTALLATION

All dimensions are in mm, unless otherwise specified

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PANEL FOR 15-25 KVA D.G SET
TYPE - A M F

SHT. NO.	REF. NO.	DESCRIPTION	REVISION					REMARKS
			1	2	3	4	5	
1	LD 11	LIST OF DRAWINGS						
2	SL 11	SINGLE LINE DIAGRAM						
3	BM 11	BILL OF MATERIALS.						
4	BM 13	BILL OF MATERIALS.						
5	GN 11	GENERAL NOTES & LEGENDS						
6	GA 11	GENERAL ARRANGEMENT DRAWING						
7	S 11	POWER CIRCUIT DIAGRAM						
8	S 13	METERING WIRING DIAGRAM						
9	S 15	DG & MAINS POWER CONTACTOR CLOSING / TRIPPING CIRCUIT						
10	S 17	AMF CIRCUIT DIAGRAM						
11	S 19	ANNUNCIATION WIRING DIAGRAM						
12	S 21	BATTERY CHARGER WIRING DIAGRAM						
13	S 23	ENGINE WIRING DIAGRAM						
14	TD 11	TERMINAL DETAILS						
15	SC 11	SETTING CHART-1 FOR AMF UNIT FOR BE42						
16	SC 13	SETTING CHART-2 FOR AMF UNIT FOR BE42						
17	SC 15	SETTING CHART-2 FOR AMF UNIT FOR BE42						

APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION
A TRANSCO/VIDYUTID SODDHA/HYD.

[Signature]
21/10/2011

CLIENT

POWERICA DEVELOPMENT

DWG. TITLE:

LIST OF DRAWINGS

R-2

15 - 25KVA AMF CONTROL PANEL
INSIDE ACOUSTIC AS PER DRG. No:- PTS/XE2-011

DRN	MADHAV	01/04/08
CHK	JKS	01/04/08
APP	RKS	01/04/08

DRAWING NO. PTS/XE2/AC2-01-41-MFM-BE42

SCALE	N.T.S
REF	LD 11
SHEET	1 OF 17

PREPARED BY

DATE

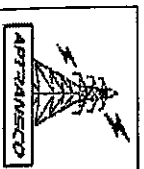
REVISION

NO.

DESCRIPTION

DATE

BY



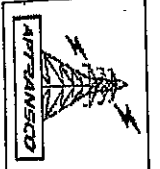
Standardised Guaranteed Technical Particulars for Diesel Generator Set
STD/GTP-DWG/Approval No. 291 / Revision Mo. 0
Prepared & Approved during October - 2011



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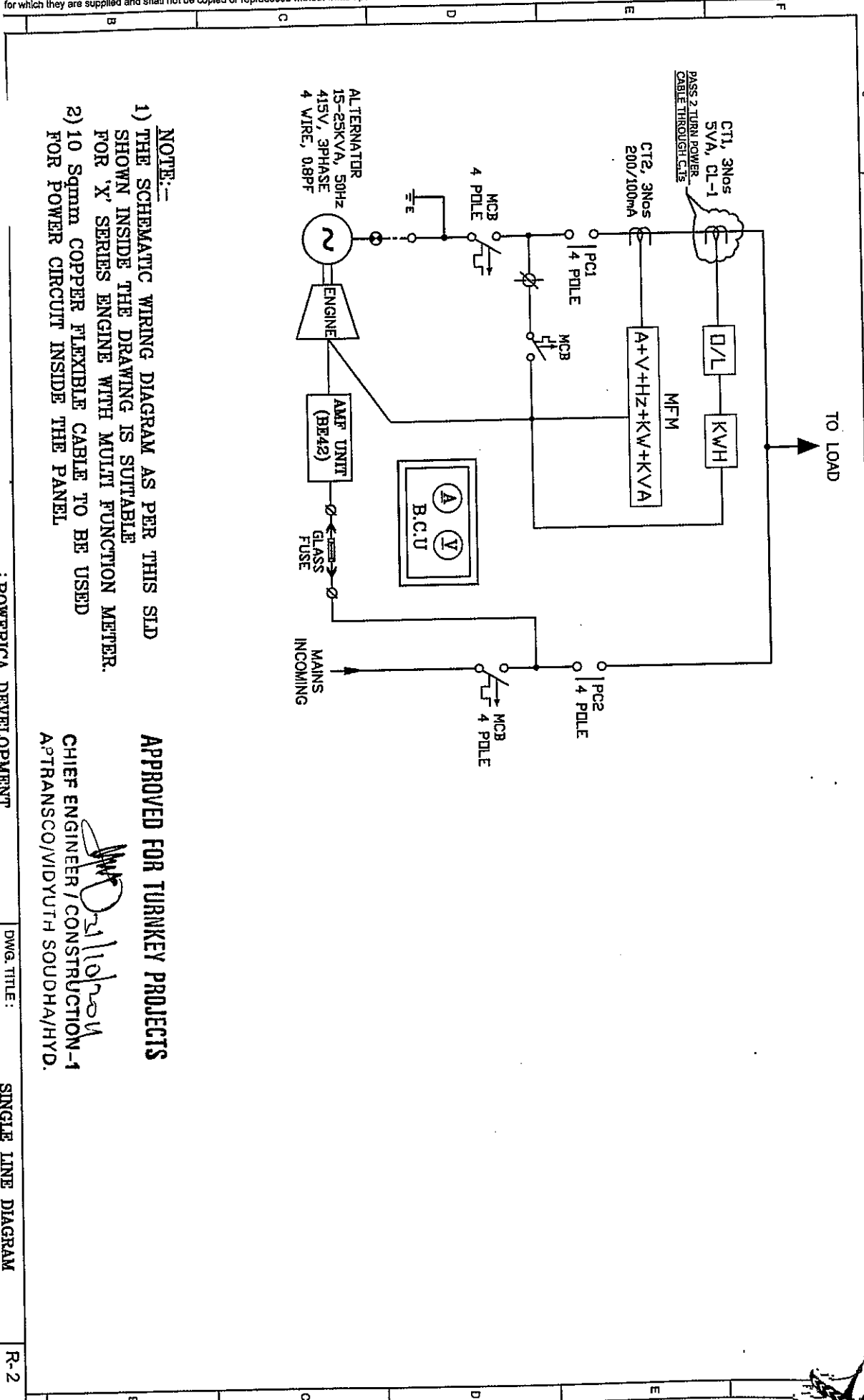
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IP1S-4) FILE NAME:- IP1S-XF-2-AC2-01-41-MFM-BE#2

LAYER#2



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[Signature]
 CHIEF ENGINEER / CONSTRUCTION-1
 APTRANSACO/WIDYUTH SOUDHA/HYD.

- NOTE:-**
- 1) THE SCHEMATIC WIRING DIAGRAM AS PER THIS SID SHOWN INSIDE THE DRAWING IS SUITABLE FOR 'X' SERIES ENGINE WITH MULTI FUNCTION METER.
 - 2) 10 Sqmm COPPER FLEXIBLE CABLE TO BE USED FOR POWER CIRCUIT INSIDE THE PANEL

POWERICA DEVELOPMENT

15 - 25KVA AMF CONTROL PANEL
 INSIDE ACOUSTIC AS PER DRG. No:- PTS/XF2-01]

Standardised Drawing for Diesel Generator Set
 STD/GTP-DWG/Approval No. 291 / Revision Mo. 0
 Prepared & Approved during October - 2011

DRN	MADHAV	01/04/08	DWG. TITLE :	SINGLE LINE DIAGRAM	R-2
CHK	JKS	01/04/08			
App	RKS	01/04/08			
SCALE	REF	SHEET			
N.T.S	SI 11	2 OF 17			



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T : ***

5 4

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NOMN	QTY	DESCRIPTION	MAKE	TYPE	15KVA	20KVA	25KVA
PC1-2	2	BILL OF MATERIALS FOR 15-25 KVA AMF D.G PANEL 4 POLE, 40A-AG1-DUTY, POWER CONTACTOR, COIL VOLTAGE 240V AC, 2NO + 2NC AUX CONTACTS	SCHNEIDER	LC1-D740 MC C40	LC1-D740 MCX 04	LC1-D740 MCX 04	LC1-D740 MCX 04
MCB	2	4 POLE, 40A, (10KA) MINATURE CIRCUIT BREAKER	L&T/CONZERV/AE	ACRUX/DMS240 /KWHM-32342			
KWH	1	ELECTRONIC KILOWATT HOUR METER, 5A, 415V, 3PH, 4W, 3 ELEMENTS, ACC-CL-1 (6 DIGIT STEPPER MOTOR COUNTER) 98sq,mm FLUSH MOUNTING	INDCOIL/PP/AEWTEK	BPL-TAP WOUND			
CT1	3	CURRENT TRANSFORMER, CTR-100/5A, ACC-CL-1, 5VA	L&T/SIEMENS	MN/3UA	2.0-3.3A 2-3.2A	2.3-3.3A 2-3.2A	3-5A 3-5A
O/L	1	BIMETAL OVER LOAD RELAY WITH (SRP) FEATURE	BERNINI	BE42			
AMF	1	MICROPROCESSOR BASED (AMF UNIT) 3PH, 415V AC SENSING FOR MAINS & 2PH, 415V AC SENSING FOR ALT. AUX VOLTAGE 12V DC WITH INBUILT PROTECTION U/V, O/V, U/F, O/F FOR MAINS & ALTERNATOR, BATTERY LOW & HIGH VOLTAGE PROTECTION, 12V DC WITH INBUILT PROTECTION U/V, O/V, U/F, O/F FOR MAINS & ALTERNATOR, BATTERY LOW & HIGH VOLTAGE PROTECTION, ELECTRONIC HOOTER, 12V DC, 98sq,mm FLUSH MOUNTING [LOOSE SUPPLY]	SHREE ELEC/VAISHNO	3TD,4,12,SLDB E1431012FBZG 57,04 CAD32N7 CAD2KN22M7/MXO			
H	1	AUX. RELAY, 12V DC WITH LED, FREE WHEELING DIODE, 4 CHANGE OVER CONTACTS AT 5A RATING, DIN RAIL MOUNTING & PLUG IN BASE MODULE TYPE.	VAISHNO/L&T(ESBEE) /TEKNIC/SCHN.				
RL1-9 RLH,RLT	11	AUX. CONTACTOR, 240V AC WITH SUITABLE NO + NC CONTACT.	VAISHNO/L&T(ESBEE) /TEKNIC/SCHN.				
KAV	1	12V DC INDICATING LAMPS WITH LED	VAISHNO/L&T(ESBEE) /TEKNIC/SCHN.				
SL1-4	4	240V AC INDICATING LAMPS WITH LED	VAISHNO/L&T(ESBEE) /TEKNIC/SCHN.				
SL6-9	4	PUSH BUTTONS WITH ELEMENTS (TO BE SUPPLIED (LOOSE) & MOUNTED ON ACOUSTIC)	TEKNIC/SCHN/VAISHNO				
PB1-6	6	STAYPUT TYPE PUSH BUTTON WITH ELEMENTS (TO BE SUPPLIED (LOOSE) & MOUNTED ON ACOUSTIC)	TEKNIC/SCHN/VAISHNO				
PB1A	1	10A, 2 POLE CONTROL SUPPLY ON/OFF SWITCH	SALZER(L&T)/VAISHNO	L&T-CAT NO: 61198/ S10			
SW1	1	10A, 6 POLE, 2 WAY SELECTOR SWITCH WITHOUT OFF (AUTO/MANUAL)	SCHN/L&T / HAGER	C2			
SW2	1	2A, 1 POLE MINATURE CIRCUIT BREAKER.	SCHN/L&T / HAGER	C10			
Q1-Q3	3	10A, 1 POLE MINATURE CIRCUIT BREAKER.	SCHN/L&T / HAGER	C6			
Q4 & Q8	2	6A, 1 POLE MINATURE CIRCUIT BREAKER.	CONNECTWELL	KULTD4			
Q5 & Q6	2	GLASS FUSE FITTING WITH 2A GLASS FUSE LINKS DRAWOUT TYPE.	ELEMEX / CONNECTWELL	C0TTU			
CFTB1-6	6	10A, NEUTRAL LINK (DISCONNECTABLE TYPE)	SELEC/ENPL	800XU/----			
NL1-4	5	TIMER ON DELAY/INTERVAL, 1-30Sec/Min/Hr WITH UNIVERSAL COIL VOLTAGE 12-240V-AC/DC WITH 2 C/O CONTACTS.	SHREE ELECTRONICS				
NL6	1	DIODE (IN4007) WITH TERMINALS (PCB CARD)					
TI	1						
D1,D2	2						

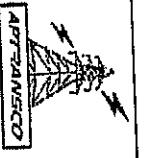
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CHIEF ENGINEER / CONSTRUCTION-1
A. TRANSCO/MIDYOUTH SOUDHA/HYD.

POWERICA DEVELOPMENT

15-28KVA AMF CONTROL PANEL
INSIDE ACOUSTIC AS PER DRG. NO:- PTS/X/F2-01]

Standardised Drawing for Diesel Generator Set
STD/GTP-DWG/Approval No. 291 / Revision Mo. 0
Prepared & Approved during October - 2011



POWERICA LIMITED
LAYERS

ANT : ***

DWG. TITLE : BILL OF MATERIALS

DRAWING NO. : PTS/X/F2/AC2-01-4-1-MFM-BE42

SCALE : 1:1

DATE : 11/10/2011


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NOMN	QTY	DESCRIPTION	MAKE	TYPE
BATTERY CHARGER CONSIST OF:-				
BCU	1	230V AC-I/P & 12V DC, 10A O/P BATTERY CHARGER UNIT (SMPS BASED) WITH AUTOMATIC FLOAT & BOOST CHANGEOVER FACILITY	JEEP/L	IMDL-150
X	1	ANALOG TYPE DC VOLTMETER, 0-20V, ACC-CL-1.5, 96sqmm, FLUSH MOUNTING.	AE/VAISHNO/RISHABH	
A	1	ANALOG TYPE DC VOLTMETER, 0-15A, ACC-CL-1.5, 96sqmm, FLUSH MOUNTING.	AE/VAISHNO/RISHABH	
SL5	1	240V AC INDICATING LAMPS [LED TYPE]	VAISHNO/L&T(ESBEE)	
Q7	1	6A, 1 POLE MINIATURE CIRCUIT BREAKER (D CURVE)	SCHN/TEKNIK/SCHN.	DS
NLS	1	10A, NEUTRAL LINK (DISCONNECTABLE TYPE)	SCHN/L&T / HAGER	
ADDITIONAL MATERIALS WILL BE SUPPLIED BY CIL & TO BE FITTED IN D.G AMF PANEL				
ESK	1	ENGINE START / STOP KEY	} CIL	
ESP8	1	ENGINE START PUSH BUTTON		
AI	1	ASSEMBLY INDICATOR LAMP WITH DIODE		
MFM	1	MULTIFUNCTION METER WITH (A+V+Hz+K+KVA) FOR ALTERNATOR & WATER TEMP, OIL PRESSURE & RUNNING HOUR METER FOR ENGINE		
G12	3	CURRENT TRANSFORMER, 200/100mA		
FUSE	1	GLASS FUSE FITTING WITH 5A FUSE		
RM	1	RELAY MODULE 12V DC, WITH 2 RELAYS & 1 C/O CONTACT TO EACH RELAY PART NO-530-1A-12 (GEN MAKE)		

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 3/10/21
CHIEF ENGINEER / CONSTRUCTION-1
A TRANSCO/MIDYUTH SOUDHA/HYD.

POWERICA DEVELOPMENT

15 - 25KVA AMF CONTROL PANEL
 INSIDE ACOUSTIC AS PER DRG. No.- P/S/X/F-2-011

BILL OF MATERIALS

DWG. TITLE: R-2
 DRN MADHAVI 01/04/08 DRAWING NO.
 CHK JKS 01/04/08
 App RKS 01/04/08 P/S/X/F2/ACC2-01-41-MFM-BE42
 SCALE N.T.S
 REF BM 13
 SHEET 4 OF 17

Standardised Drawing for Diesel Generator Set
 STD/GTP-DWG/Approval No. 291 / Revision Mo. 0
 Prepared & Approved during October - 2011



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NOTES

1. Base mounting type control panel will be fabricated in One shipping section and located inside the acoustic. Power & Control cable entry / ext from bottom of the panel only.
2. Panel conforms to IP52 Enclosure and will be fabricated with CRCA sheet as follows:-
a> Structure, Body & Back door - 1.6mm Thick
b> Component mounting plate - 2.0mm Thick & front door
c> Gland Plate - 3.0mm Thick
d> Suitable MS Angle reinforcement will also be provided wherever required.
3. The fabricated panel will be treated with seven tank process & powder coated with Onan Green paint inside and outside
4. The Panel will be wired with PVC Insulated Copper wire of 660/1100V grade.
Colour:- 1.5 Sq.mm, Grey for DC & Black for AC
2.5 Sq.mm, Yellow/White for C.T.
5. Each component will be provided with identification tag of 20 x 10mm size, inscribed as marked in Nomenclature inside the panel.
6. Each lamp, push button, switch etc. will be provided with suitable inscription plate on the face of the panel.
7. All interconnecting flexible wire will be provided with ferrules as marked in the schematic drawing at both end. Suitable crimping type copper lug & sleeve also.
8. Hardware shall be treated for antrusting.
9. Control Terminals - Elemex/Connectwell/Phoenix Make:-
Control Circuit :- 2.5 - 6
Power & C.T Circuit :- 4 - 10
10. All Doors, Meters & Relays will be earthed with 2.5sqmm Cu, flexible green or green yellow wire.

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CHIEF ENGINEER / CONSTRUCTION-1
A. TRANSCO/VIDYUTH SOUDHA/HYD.

INDICATING LAMPS			
Sr. NO.	LEGENDS	COLOR	VOLTAGE
S1	ENGL. TRIP OPERATED	RED	18V DC
S2	ENGINE FAILURE	AMBER	18V DC
S3	AIR FAILURE	AMBER	18V DC
S4	DC SUPPLY ON	YELLOW	18V DC
S5	BATTERY CHARGER ON	GREEN	240V AC
S6	D.C ON	GREEN	240V AC
S7	LOAD ON D.G	RED	240V AC
S8	MAINS ON	GREEN	240V AC
S9	LOAD ON MAINS	RED	240V AC
A1	ASSEMBLY INDICATOR LAMP	RED	18V DC
PUSH BUTTONS			
ENK	ENGINE START/STOP KEY SWITCH	WHITE	
ENGB	ENGINE START PB	BLACK	
ENB1	ENGINE STOP (STARTUP TIME) OR ACUSTIC	RED	
ENB2	D/G CONTROLLER ON	GREEN	
ENB3	D/G CONTROLLER OFF	RED	
ENB4	MAIN CONTROLLER ON	GREEN	
ENB5	MAIN CONTROLLER OFF	RED	
ENB6	HOOPER ASSECT	BLUE	
ENB7	MAINT RESET	BLACK	
SWITCHES			
ENB8	DC SUPPLY ON/OFF		
ENB9	AUTO/MANUAL SEL. SWITCH		
DETAILS OF MCB & NEUTRAL LINK.			
Sr. NO.	POLES RATING	USED FOR	TYPE
Q1-Q3	1P 2A	D/G METERING CIRCUIT.	'C' CURVE
Q4	1P 10A	D/G P.C CONTROL CIRCUIT.	'C' CURVE
Q5	1P 10A	DC CONTROL SUPPLY	'C' CURVE
Q6	1P 10A	ACUSTIC LIGHT	'C' CURVE
Q7	1P 10A	BATTERY CHARGER CIRCUIT	'D' CURVE
Q8	1P 10A	MAINS P.C CONTROL CIRCUIT.	'C' CURVE
Q9	1P 10A	FOR. AIR UNIT SENSING D/G	
Q10	1P 10A	FOR. AIR UNIT SENSING MAINS	
Q11	1P 10A	FOR. AIR UNIT - CONTROL SUPPLY	

POWERICA DEVELOPMENT

15-25KVA AMF CONTROL PANEL
INSIDE ACOUSTIC AS PER DRG. No:- P/S/X/F2-011

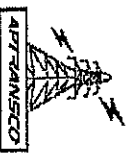
DRN	MADHAVI 01/04/08	DRAWING NO.	
CHK	JKS 01/04/08	SCALE	N.T.S
APP	RKS 01/04/08	REF	GN 11
		SHEET	5 OF 17

GENERAL NOTES & LEGENDS

R-2



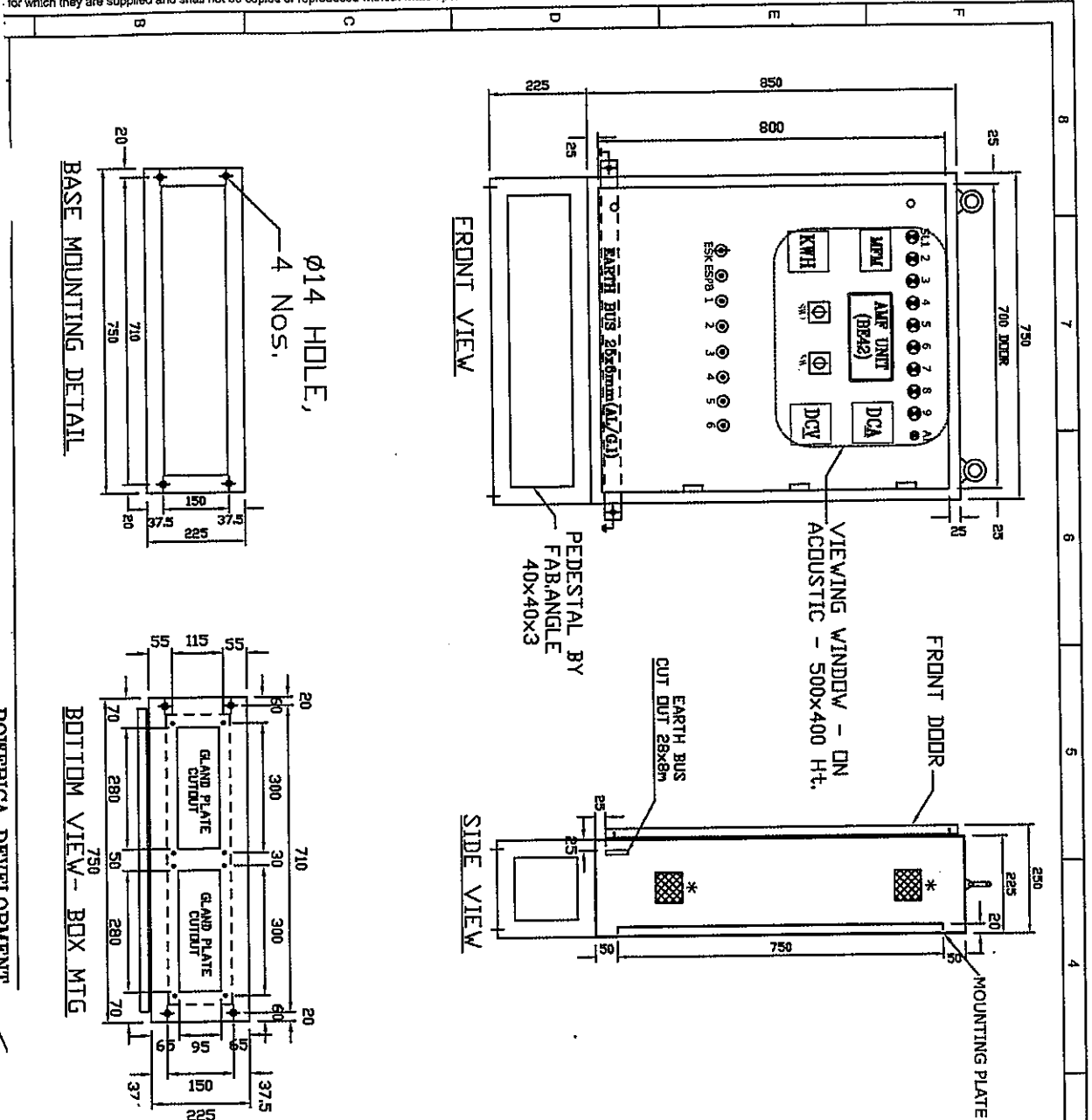
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Standardised Drawing for Diesel Generator Set
STD/GTP-DWG/Approval No. 221 / Revision No. 0
Prepared & Approved during October - 2011

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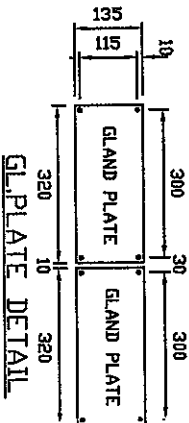


CUTOFF SIZE OF INSTRUMENTS:-	
INSTRUMENTS	DIMENSIONS
MFM	H-70 x W-95
KWH, V, A	H-92 x W-92
BE42	H-93 x W-190
ESK/AI	190
ESPB	22.50
PB1-6	
SI1-9	

- NOTES:-
- * 1) Mesh will be provided on both sides of panel with hole C (2-3)
 - 2) Minimum Znos bolts to be used diagonally on busbar joint.

APPROVED FOR TURNKEY PROJECTS

CHIEF ENGINEER / CONSTRUCTION-1
A. TRANSCO/WIDYUT-4 SOUDHA/HYD.



POWERICA DEVELOPMENT

15 - 25KVA AMF CONTROL PANEL
INSIDE ACOUSTIC AS PER DRG. No:- P/S/X/2-01

DRN	MADHAVI	01/04/08	DRAWING NO.	SCALE	N.T.S
CHK	JKS	01/04/08	P/S/X/2AC2-01-41-MFM-BE42	REF	GA 11
APP	R/S	01/04/08		SHEET	6 OF 17

GENERAL ARRANGEMENT DRAWING

R-2



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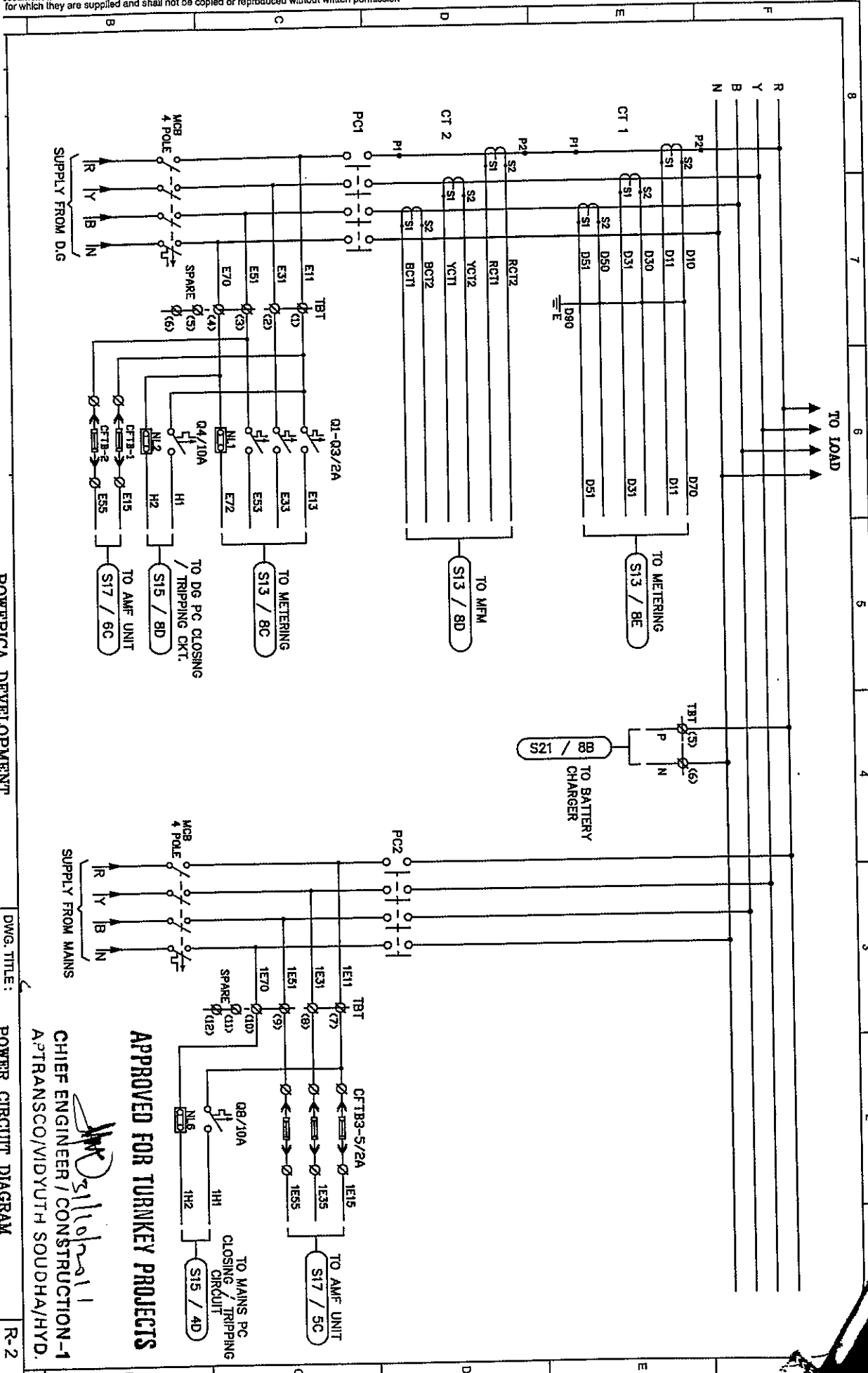
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1	5	4
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POWERICA DEVELOPMENT

15 - 28kVA AMF CONTROL PANEL
 INSIDE ACOUSTIC AS PER DRG. No:- P/S/XF2-011

DWG. TITLE: POWER CIRCUIT DIAGRAM

DRN	MADHANV/01/04/08	DRAWING NO.	SCALE	N.T.S
CHK	JVS	01/04/08	REF	S 11
APP	RIS	01/04/08	SHEET	7 OF 17

CHIEF ENGINEER / CONSTRUCTION -1
 APTRANSCO/WDYUTH SOUDHA/HYD.

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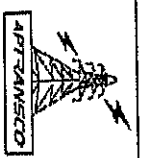
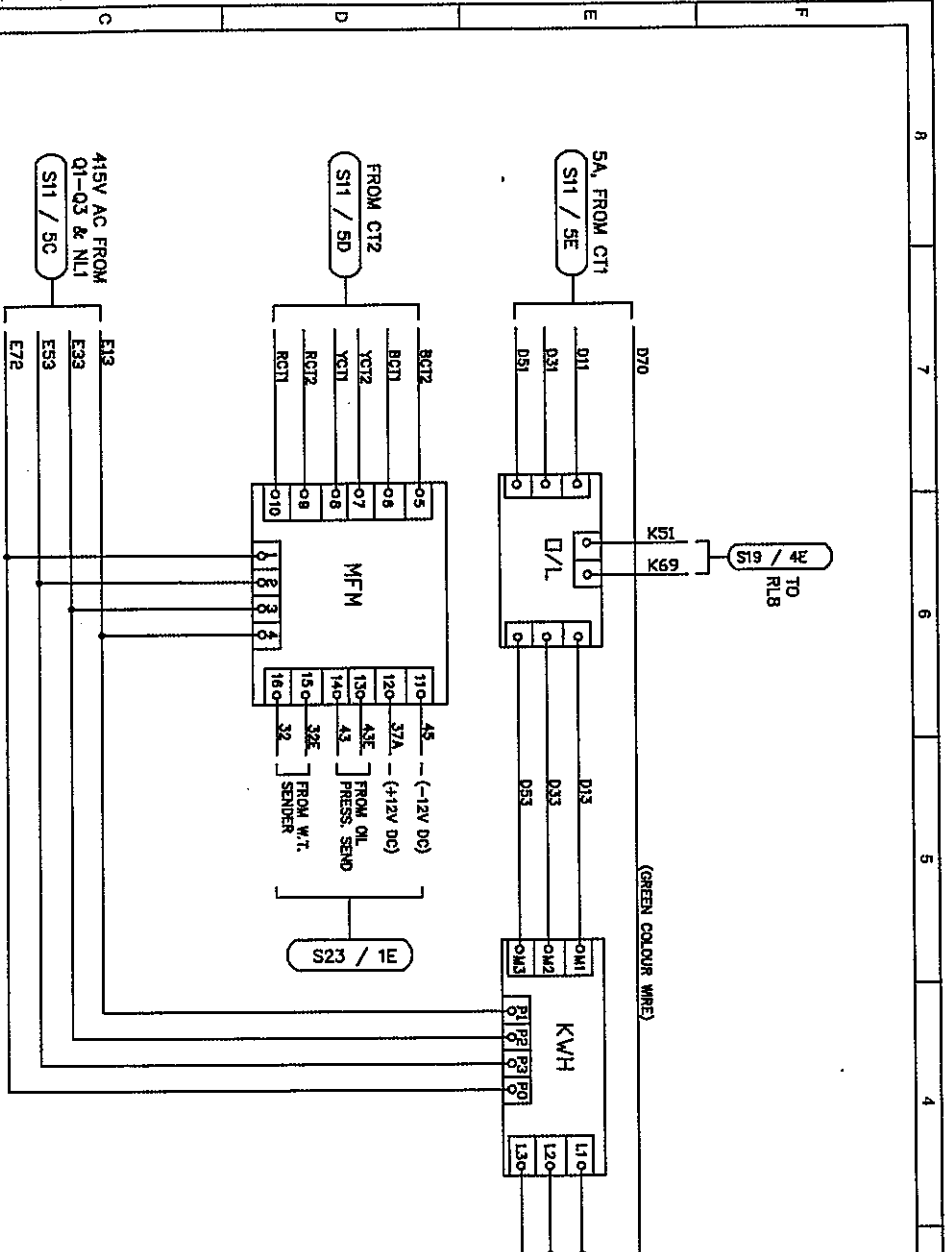
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IPRS-A1 FILE NAME: IPTS-XF2-AC2-01-41-MFM-BE42

LAYER8

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 CHIEF ENGINEER / CONSTRUCTION-1
 APT-RANSOCO/VIDYUTH SOUDHA/HYD.

[Signature]
 21/10/2011

POWERICA DEVELOPMENT

15 - 25KVA AMF CONTROL PANEL
 (INSIDE ACOUSTIC AS PER DRG. No:- PTS/XF2-01)

T : ***

DWG. TITLE : METERING WIRING DIAGRAM

R-2

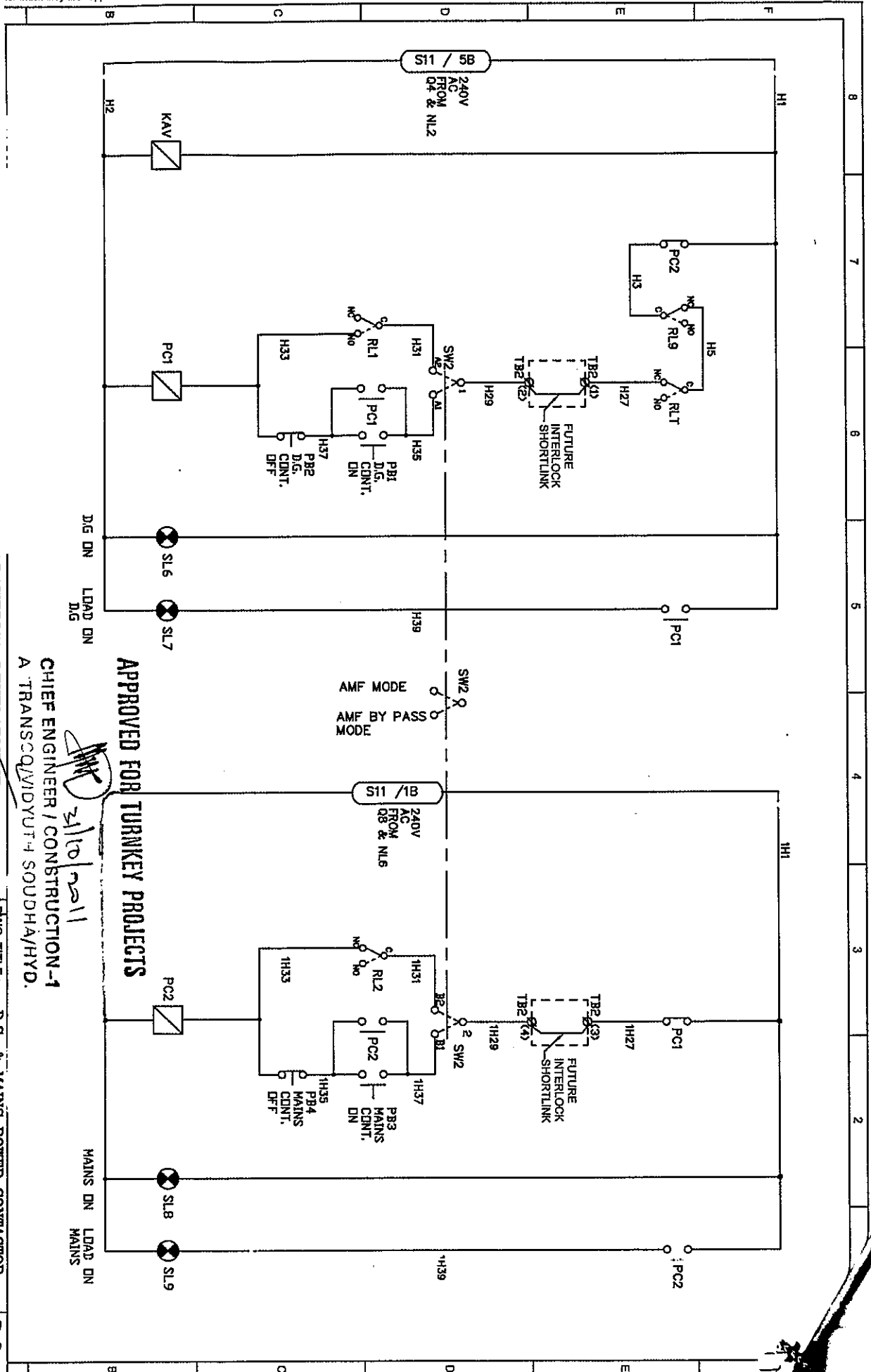
DRN	MADHAV	01/04/08	DRAWING NO.	SCALE	N.T.S
CHK	JKS	01/04/08	PTS/XF2/AC2-01-41-MFM-BE42	REF	S 13
APP	RKS	01/04/08		SHEET	8 OF 17



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AFT-RANSICO

Standardised Drawing for Diesel Generator Set
 STD/GTP-DWG/Approval No. 201 / Revision Mo. 0
 Prepared & Approved during October - 2011

FILE NAME: I:\15-XI-2-ACZ-01-41-MFM-BE42 LAYERS

POWERICA DEVELOPMENT

15 - 28KVA AMF CONTROL PANEL
 (INSIDE ACOUSTIC AS PER DRG. NO:- P1S/XF2-01)

DWG. TITLE: D.G. & MAINS POWER CONTACTOR CLOSING / TRIPPING CIRCUIT		R-2	
DEN	MACHAV	01/04/08	DRAWING NO.
CHK	JKS	01/04/08	SCALE
APP	RMS	01/04/08	S 15
PT/S/XF2/AC2-01-41-MFM-BE42		REF	SHEET
		9 OF	17

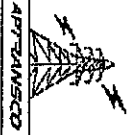
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21/10/2011

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 A. TRANSCO/VDYUT-4 SOUDHA/HYD.

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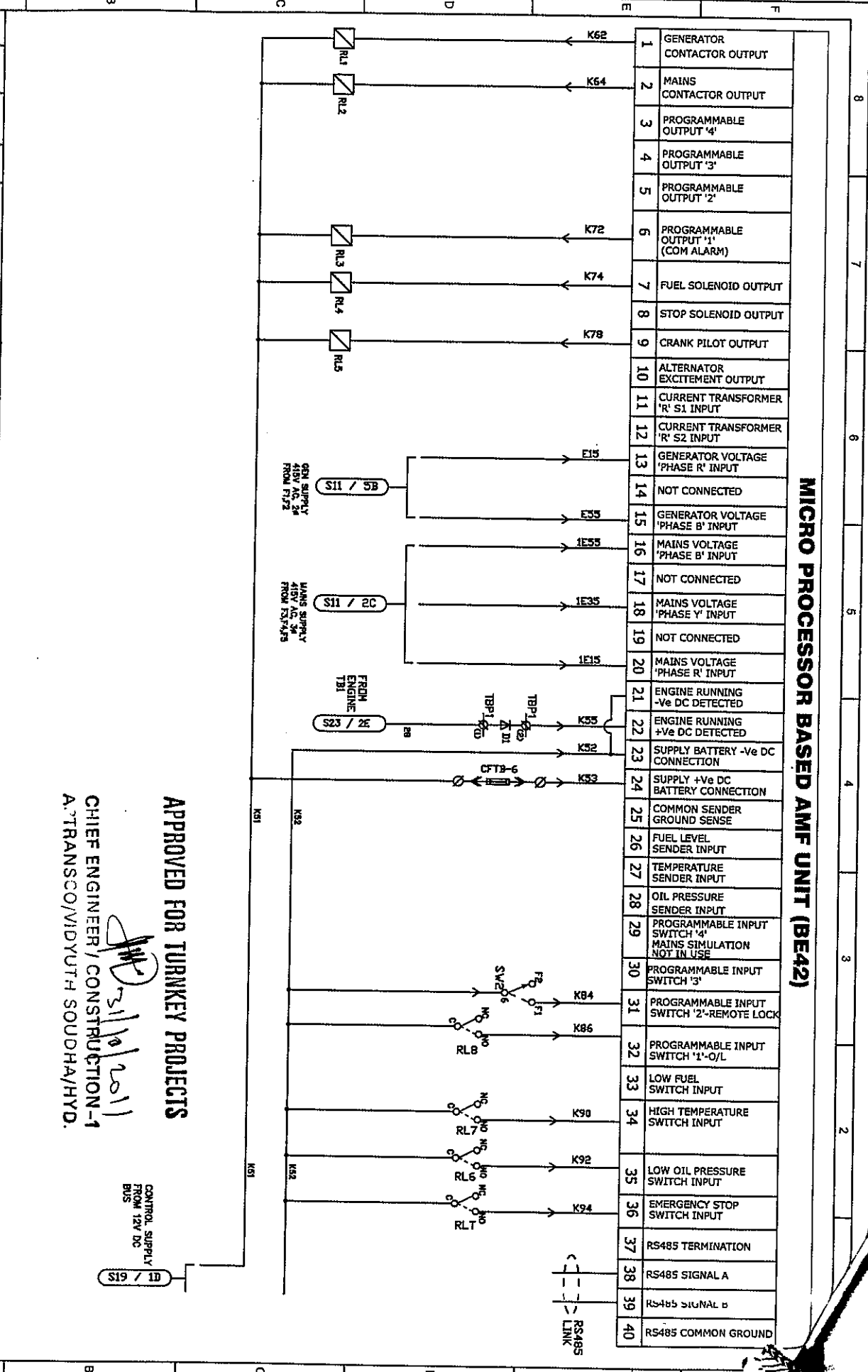


Standardised Drawing for Diesel Generator Set
 STD/GTP-DWG/Approval No. 291 / Revision Mo. 0
 Prepared & Approved during October - 2011

POWERICA DEVELOPMENT		DWG. TITLE: AMF CIRCUIT DIAGRAM		R-2
: 15 - 25KVA AMF CONTROL PANEL INSIDE ACOUSTIC AS PER DRG. No.: P(S)/X(F2-01)		DRAWING NO. P(S)/X(F2)AC2-01-4-1-MFM-BE42		N.T.S
NT: ***	5	4	3	2
POWERICA LIMITED		POWERICA LIMITED		5 17
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 ATRANSCO/VIDYUTH SOUDHA/HYD.

CONTROL SUPPLY
 FROM 12V DC
 BUS
 S19 / S18

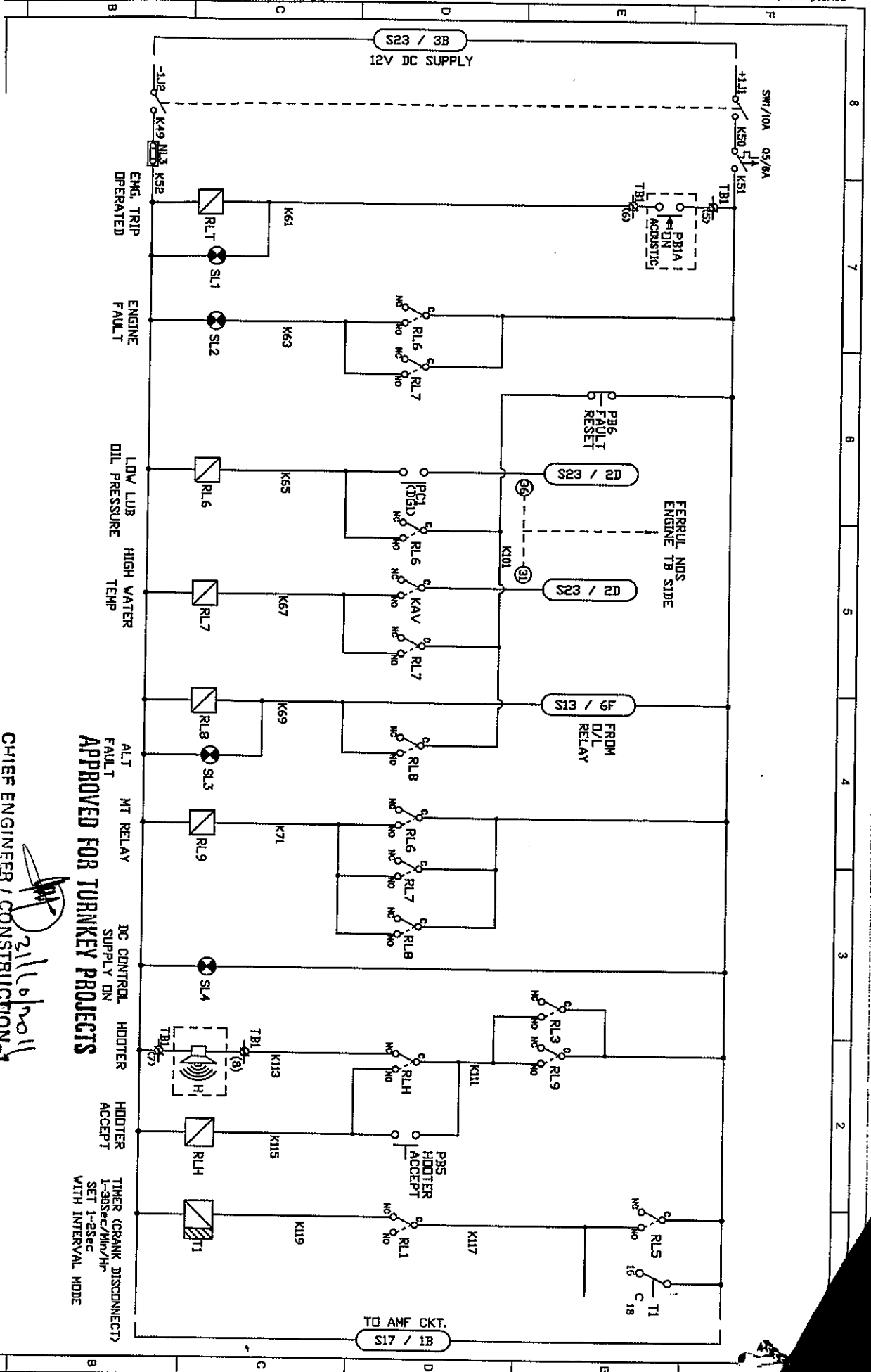


MICRO PROCESSOR BASED AMF UNIT (BE42)

1	GENERATOR CONTACTOR OUTPUT
2	MAINS CONTACTOR OUTPUT
3	PROGRAMMABLE OUTPUT '4'
4	PROGRAMMABLE OUTPUT '3'
5	PROGRAMMABLE OUTPUT '2'
6	PROGRAMMABLE OUTPUT '1' (COM ALARM)
7	FUEL SOLENOID OUTPUT
8	STOP SOLENOID OUTPUT
9	CRANK PILOT OUTPUT
10	ALTERNATOR EXCITEMENT OUTPUT
11	CURRENT TRANSFORMER 'R' S1 INPUT
12	CURRENT TRANSFORMER 'R' S2 INPUT
13	GENERATOR VOLTAGE 'PHASE R' INPUT
14	NOT CONNECTED
15	GENERATOR VOLTAGE 'PHASE B' INPUT
16	MAINS VOLTAGE 'PHASE B' INPUT
17	NOT CONNECTED
18	MAINS VOLTAGE 'PHASE Y' INPUT
19	NOT CONNECTED
20	MAINS VOLTAGE 'PHASE R' INPUT
21	ENGINE RUNNING -Ve DC DETECTED
22	ENGINE RUNNING +Ve DC DETECTED
23	SUPPLY BATTERY -Ve DC CONNECTION
24	SUPPLY +Ve DC BATTERY CONNECTION
25	COMMON SENDER GROUND SENSE
26	FUEL LEVEL SENDER INPUT
27	TEMPERATURE SENDER INPUT
28	OIL PRESSURE SENDER INPUT
29	PROGRAMMABLE INPUT SWITCH '4' MAINS SIMULATION NOT IN USE
30	PROGRAMMABLE INPUT SWITCH '3'
31	PROGRAMMABLE INPUT SWITCH '2'-REMOTE LOCK
32	PROGRAMMABLE INPUT SWITCH '1'-O/L
33	LOW FUEL SWITCH INPUT
34	HIGH TEMPERATURE SWITCH INPUT
35	LOW OIL PRESSURE SWITCH INPUT
36	EMERGENCY STOP SWITCH INPUT
37	RS485 TERMINATION
38	RS485 SIGNAL A
39	RS485 SIGNAL B
40	RS485 COMMON GROUND

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POWERICA DEVELOPMENT ENGINEERS

CHIEF ENGINEER / CONSTRUCTION

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21/10/11

DRN	MADHAVI/01/04/08	DRAWING NO.	R-2
CHK	RKS	SCALE	N.T.S
APP	RKS	REF	S 19
	01/04/08	SHEET	11 OF 17

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(PTS-4) FILE NAME: PTS-XF2-AC2-01-41-MFM-BE42

LAYER11

5

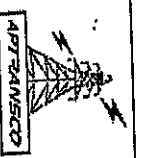
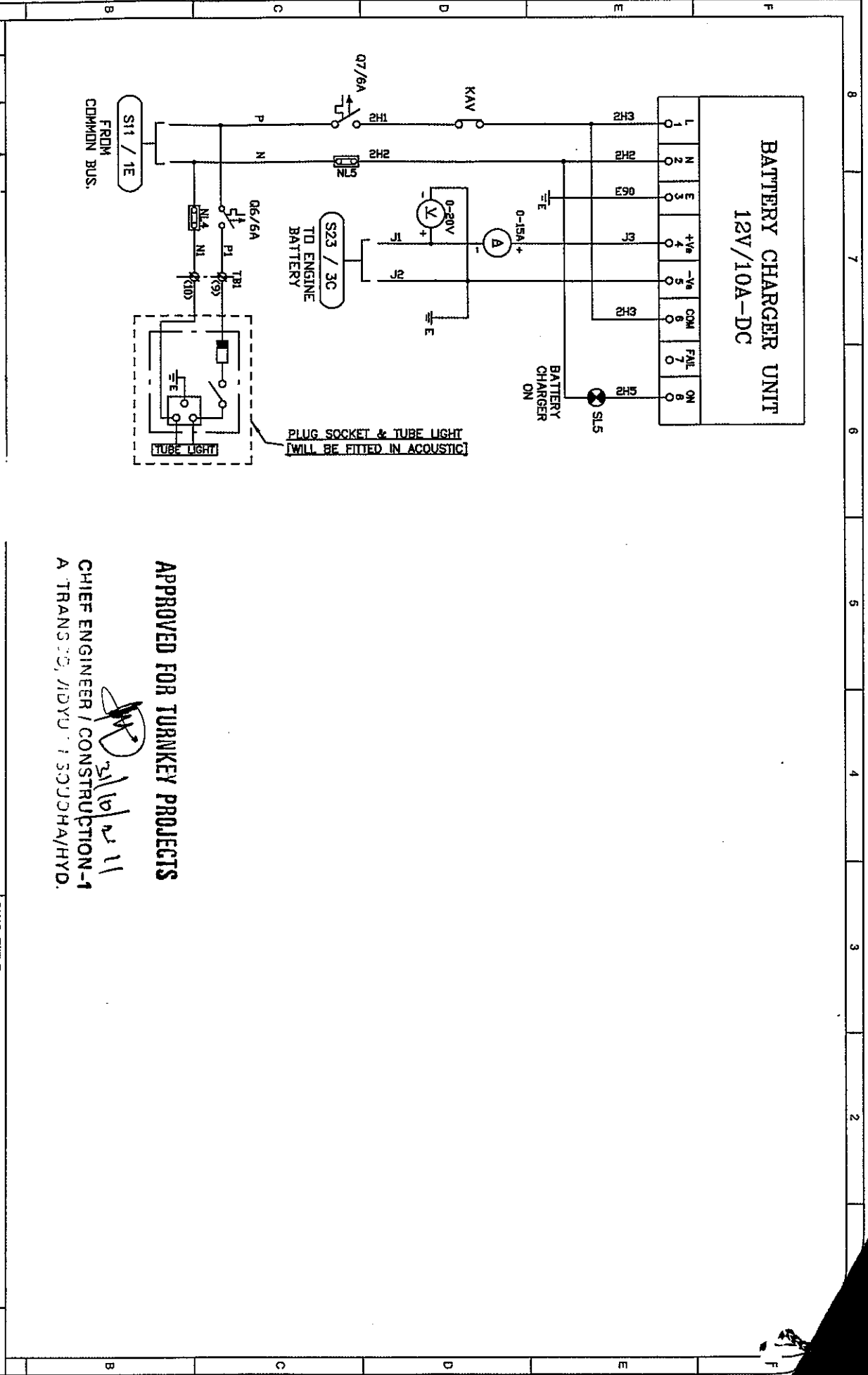
4

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 CHIEF ENGINEER / CONSTRUCTION-1
 A. TRANSCO, MDYU 15000HA/HYD.

Signature
 21/10/2011

: POWERICA DEVELOPMENT		DWG. TITLE : BATTERY CHARGER WIRING DIAGRAM		R-2	
: 15 - 25KVA AMF CONTROL PANEL INSIDE ACOUSTIC AS PER DRG. No:- PTS/XF2-01]		DRAWING NO.		SCALE N.T.S	
: :		DRN MADHAV 07/04/08	CHK JKS 07/04/08	RE- S 21	SHEET 12 OF 17
: :		APP RKS 07/04/08	PTS/XF2/ACC2-01-41-MFM-8E42		
NT : ***		POWERICA		POWERICA LIMITED	
5		4			



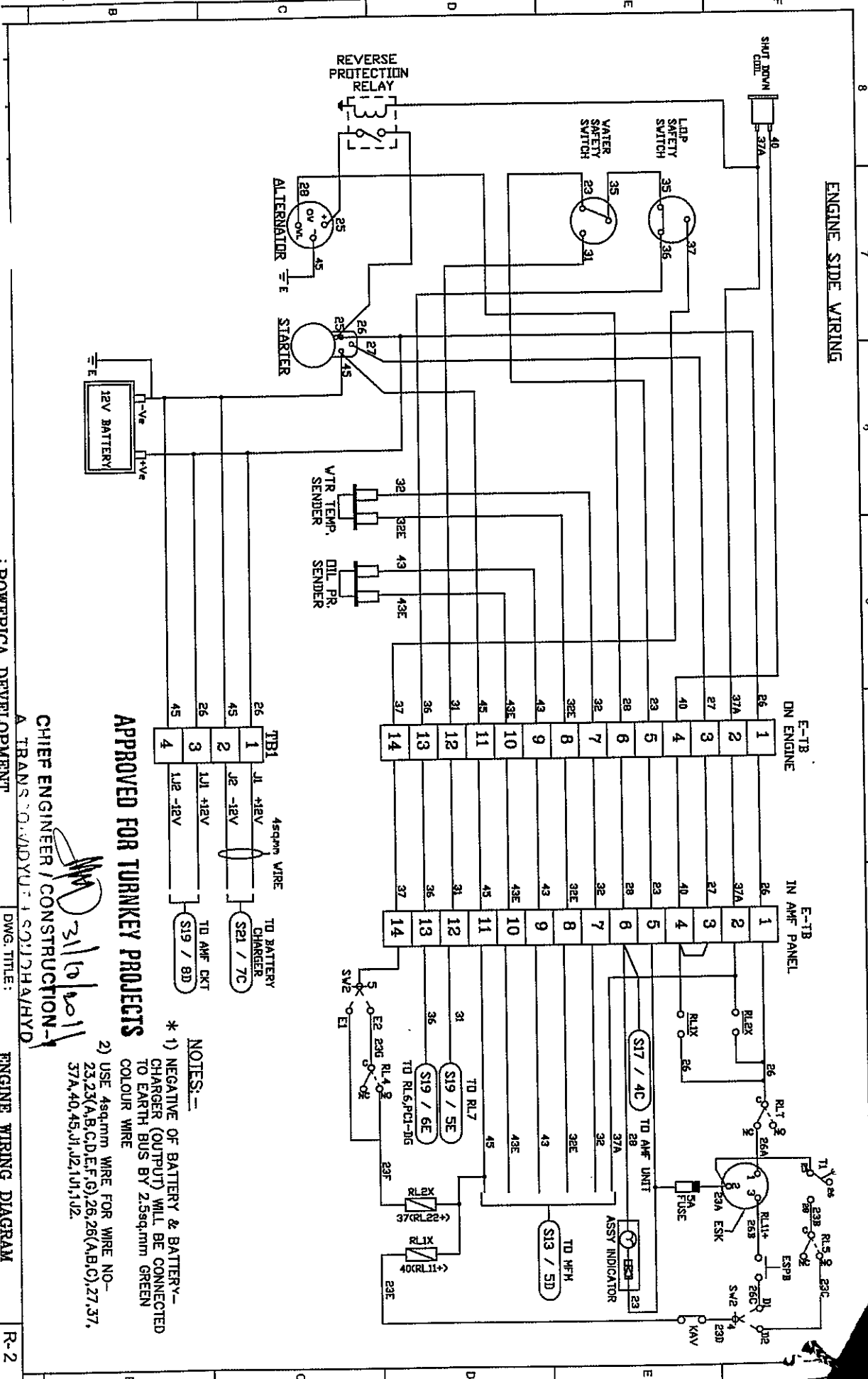
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CHIEF ENGINEER / CONSTRUCTION

A TRANSPORT ADVANCE ENGINEERING

POWERICA DEVELOPMENT

15 - 25KVVA AMF CONTROL PANEL
 INSIDE ACOUSTIC AS PER DRG. No: P/SX/F2-01

DRN MADHAV 01/04/08
 CHK JKS 01/04/08
 APP RKS 01/04/08

ENGINE WIRING DIAGRAM

SCALE NTS
 S 23
 REF 13 OF 17
 SHEET

IT : ***

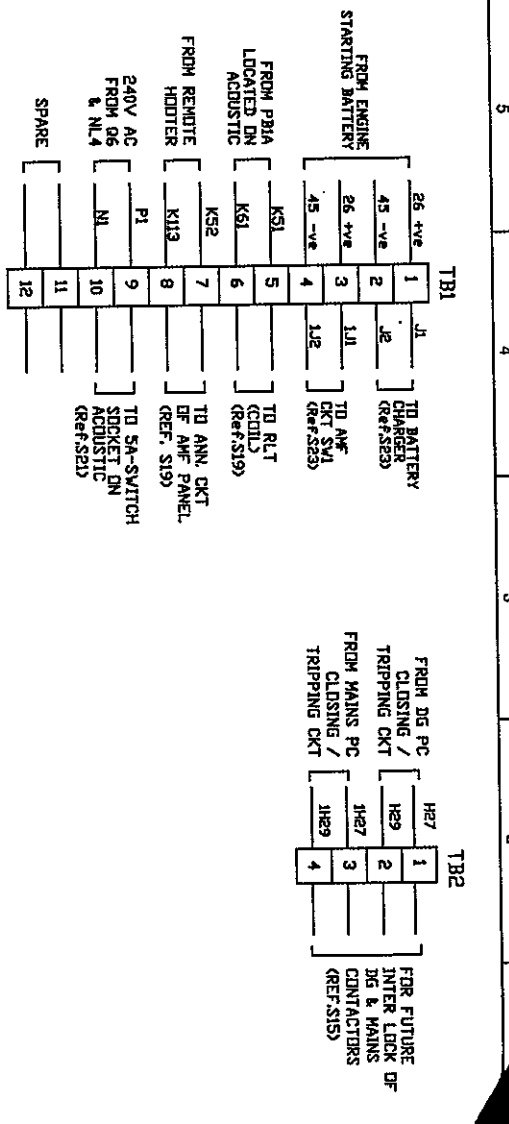
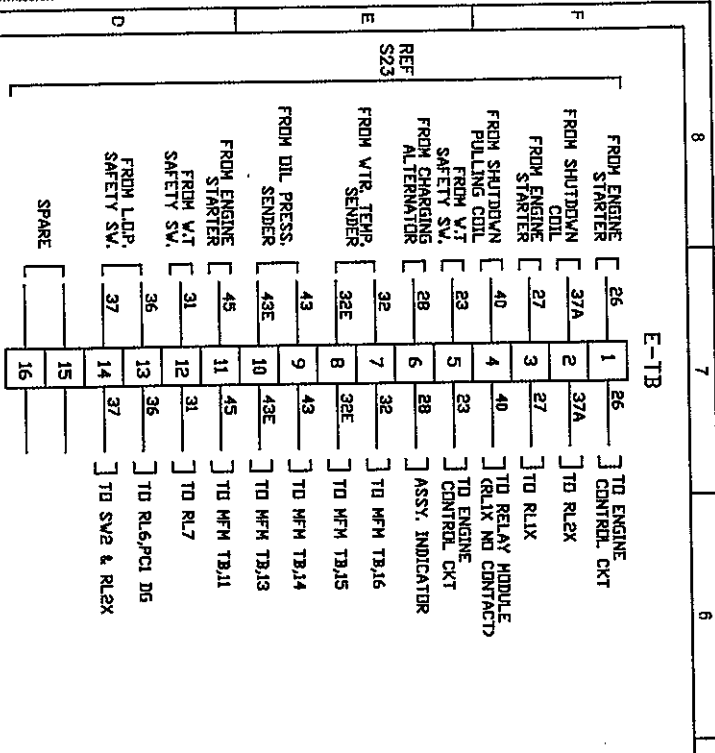
- NOTES:-
- * 1) NEGATIVE OF BATTERY & BATTERY-CHARGER (OUTPUT) WILL BE CONNECTED TO EARTH BUS BY 2.5sqmm GREEN COLOUR WIRE
 - 2) USE 4sqmm WIRE FOR WIRE NO.- 23,23(A,B,C,D,E,F,G),26,26(A,B,C),27,37,37A,40,45,J1,J2,I0,I1,I2.

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 A TRANSCO/VIDYUTH SOUDHA/HYD.

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 31/10/2011

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Standardised Drawing for Diesel Generator Set
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 Prepared & Approved during October - 2011

POWERICA DEVELOPMENT		TERMINAL DETAILS	
15 - 25KVA AMF CONTROL PANEL INSIDE ACOUSTIC AS PER DRG. No:- PTS/X/P2-011		DRAWING NO. PTS/X/P2/AC2-01-41-MFM-BE42	
DRN	MADHAV/01/04/08	SCALE	N.T.S
CHK	JKS/01/04/08	REF	TD 11
APP	RKS/01/04/08	SHEET	14 OF 17
DWG. TITLE :		R-2	
POWERICA		POWERICA LIMITED	
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CONFIGURATION CHART FOR BE42 XXX

MAINS FAILURE CONTROL

SL.No	PARAMETER CODE & DESCRIPTION	DEFAULT	Min.	Max.	OPTION
P.0	MAINS BREAKER CONTROL	(5 ^o)	0	59mins	-
P.1	MAINS FAILURE TIME	(5 ^o)	0	23hrs	-
P.2	MAINS RESTORE TIME	(5 ^o)	0	23hrs	-
P.3	CONTACTORS CHANGED/VER	(2 ^o)	0.1sec	15.0sec	-
P.4	UNDER VOLTAGE LIMIT	(320)	60V	998V	(OFF)
P.5	OVER VOLTAGE LIMIT	(500)	60V	998V	(OFF)
P.6	UNDER Hz LIMIT	(47.0)	20.0Hz	70.0Hz	(OFF)
P.7	OVER Hz LIMIT	(53.0)	20.0Hz	70.0Hz	(OFF)
P.8	PHASE SELECTION	(3-Ph)	(Ph-n)	(3-Ph)	-

GENERATOR PARAMETERS

SL.No	PARAMETER CODE & DESCRIPTION	MODEL ^(*)	DEFAULT	Min.	Max.	OPTION
P.9	UNDER VOLTAGE	1	(320)	60V	998V	(OFF)
	UNDER VOLTAGE DELAY		(6 ^o)	1sec	15sec	-
P.10	OVER VOLTAGE	2	(500)	60V	998V	(OFF)
	OVER VOLTAGE DELAY		(2 ^o)	1sec	15sec	-
P.11	UNDER FREQUENCY	1	(47.0)	20.0Hz	70.0Hz	(OFF)
	UNDER FREQUENCY DELAY		(6 ^o)	1sec	15sec	-
P.12	OVER FREQUENCY	2	(53.0)	20.0Hz	70.0Hz	(OFF)
	OVER FREQUENCY DELAY		(1 ^o)	1sec	15sec	-
P.13	WARNING CURRENT LIMIT	3	(OFF)	10A	2000A	(OFF)
	WARNING CURRENT DELAY		(1 ^o)	1sec	15mins	-
P.14	OVER CURRENT SHUTDOWN	1	(OFF)	10A	2000A	(OFF)
	OVER CURRENT SHUTDOWN DELAY		(1 ^o)	1sec	15mins	-
P.15	ALTERNATOR FAILURE OPTIONS		(OFFF)	-	-	(ON/OFF)
P.16	ALTERNATOR NUMBER OF POLES		(4)	2	4	-
P.17	CONTACTOR CONTROL IN TEST MODE		(OFFF)	-	-	(ON/OFF)
P.18	CT SIZE (/5Aac)		(500)	50A	2000A	-

ENGINE PARAMETERS

SL.No	PARAMETER CODE & DESCRIPTION	DEFAULT	Min.	Max.	OPTION
P.19	CRANK DELAY	(2 ^o)	0	15sec	-
P.20	CRANK TIME	(5 ^o)	3sec	15sec	-
P.21	REST TIME	(5 ^o)	3sec	15sec	-
P.22	PRE-GLOW TIME	(OFF)	1sec	59min	(OFF)
P.23	ENGINE WARM UP TIME	(15 ^o)	0	59min	-
P.24	ENGINE COLLING TIME	(15 ^o)	0	59min	-
P.25	STOP SOLENOID TIMING (ENERGIZED TO STOP)	(15 ^o)	1sec	59min	-
P.26	CRANK TERMINATION SETTING (CHARGER ALTERNATOR)	(8.0)	3.0V	30.0V	(OFF)
	BELT BREAK SETTING (CHARGER ALTERNATOR)	(8.0)	3.0V	30.0V	(OFF)
P.27	CRANK TERMINATION SETTING (GENERATOR VOLTAGE)	(7.0)	60V	998V	(OFF)
P.28	CRANK TERMINATION SETTING (GENERATOR FREQUENCY)	(25.0)	20.0Hz	70.0Hz	(OFF)
P.29	LOW OIL PRESSURE PREALARM (WARNING)	(OFF)	0.1bar	20.0bar	(OFF)
P.30	HIGH ENGINE TEMPERATURE PREALARM (WARNING)	(OFF)	40 ^o c	250 ^o c	(OFF)
P.31	CRANK ATTEMPTS (NUMBERS)	(3)	3	15	-
P.32	PURGE TIMING (FOR GAS FUELLED ENGINE)	(1 ^o)	1sec	15sec	-

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[Signature]
CHIEF ENGINEER / CONSTRUCTION-1
 A. TRANSCO/VIDYUT / SOUDHA/HYD.

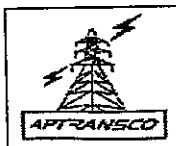
REV.	DATE	DRN	CHK	DESCRIPTION
15/06/10		MADHAV	RKS	REVISED CONTROL CIRCUIT OF ENGINE
28/07/09		MADHAV	RKS	MODIFIED THE G.A

CLIENT : **POWERICA DEVELOPMENT**
 TITLE : 15 - 25KVA AMF CONTROL PANEL
 PROJECT : INSIDE ACOUSTIC AS PER DRG. No:- P15/XF2-01
 CONSULTANT : ***

APP	CHK	DRN	REV	DATE	DESCRIPTION
	RKS	MADHAV		01/04/08	DRAWING NO.
	RKS	MADHAV		01/04/08	P15/XF2-01-41-MFM-BE42

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 Sheet - 15 of 17



Standardised Guaranteed Technical Particulars for
 Diesel Generator Set
 STD/GTP-DWG/Approval No. 221 / Revision Mo. 0
 Prepared & Approved during October - 2011

NAME: P.T.S-XE2-AC2-01-41-MFM-BE42

LAYER: 6

6

5

4

REV.	DATE	DRN	CHK	R/S	DESCRIPTION
1	28/07/09	MADHAV	R/S		REVISED CONTROL CIRCUIT OF ENGINE
2	15/08/10	MADHAV	R/S		MODIFIED THE GA

CLIENT : POWERICA DEVELOPMENT
 TITLE : 15 - 28KVA AMF CONTROL PANEL
 INSIDE ACOUSTIC CAS PER DRG. No:- P.T.S/XE2-01
 PROJECT :
 CONSULTANT : **

DWG. TITLE : SETTING CHART-2 FOR AMF UNIT FOR BE42	R-2
DRN : MADHAV 01/04/08	SCALE N.T.S
CHK : J.S 01/04/08	REF SC 13
APP : R/S 01/04/08	SHEET 16 OF 17
DRAWING NO. P.T.S/XE2/AC2-01-41-MFM-BE42	

ALARM OPTION					
SL.No	PARAMETER CODE & DESCRIPTION	DEFAULT	Min.	Max.	OPTION
P.33	ALARM BYPASS (FOR OIL,TEMP,AUX.1-2-3-4 ALARMS)	(5')	2sec	90sec	-
P.34	FAIL TO STOP ALARM CONTROL (OFF-INHIBITED, ON-ENABLED)	(OFF)	-	-	(OFF/ON)
P.35	EMERGENCY CONTACT TYPE (INPUT#36)	(NC)	-	-	(NO/NC)
P.36	NO FUEL IN THE TANK DELAY	(5')	15sec	99min	(OFF)
P.37	LOW FUEL % LIMIT	(OFF)	1%	99%	(OFF)
P.38	HIGH FUEL % LIMIT	(OFF)	1%	99%	(OFF)
P.39	ENGINE TEMPERATURE CONTACT TYPE	(ND)	-	-	(NO/NC)

MISCELLANEOUS					
SL.No	PARAMETER CODE & DESCRIPTION	DEFAULT	Min.	Max.	OPTION
P.40	NO FUEL IN THE TANK DELAY	(5')	1sec	99min	-
P.41	PERIODIC TEST INTERVAL	(OFF)	1Day	60Days	(OFF)
P.42	PERIODIC TEST DURATION	(5')	1min	99min	-
P.43	TEST TIMEOUT (OFF= NO TIMEOUT)	(5')	1min	99min	(OFF)
P.44	MAINTENANCE SERVICE 1	(OFF)	1h	9999h	(OFF)
P.45	MAINTENANCE SERVICE 2	(OFF)	1h	9999h	(OFF)
P.46	MAINTENANCE SERVICE 3	(OFF)	1h	9999h	(OFF)
P.47	RENT CONTRACT SETTING	(OFF)	1h	9999h	(OFF)
P.48	NFPA-110 LEVEL 1 & 2	(ON)	-	-	(OFF/ON)
P.49	RS485 NODE ADDRESS	(1)	1	127	-
P.50	HORN TIMEOUT	(5')	5sec	15min	(OFF)
P.51	HOUR COUNTER SET	(0)	0h	50.00	(OFF)

PROGRAMMABLE INPUTS			PROGRAMMABLE OUTPUTS		
PARAMETER	OPTIONS	DEFAULT	PARAMETER CODE & DESCRIPTION	OPTIONS	DEFAULT
(INP-1) INPUT 1/MODE	(NO/NC)	(2)(ND)	(OUT-1) OUTPUT 1	-	(46)
(INP-2) INPUT 2/MODE	(NO/NC)	(13)(ND)	(OUT-2) OUTPUT 2	-	(29)
(INP-3) INPUT 3/MODE	(NO/NC)	(10)(ND)	(OUT-3) OUTPUT 3	-	(53)
(INP-4) INPUT 4/MODE	(NO/NC)	(15)(ND)	(OUT-4) OUTPUT 4	-	(57)

INPUT OPTIONS LIST			
OPTIONS	DESCRIPTION	OPTIONS	DESCRIPTION
(0)	OFF: DISABLES THE INPUT	(14)	GENERATOR SIMULATION ON
(1)	IMMEDIATE STOP	(15)	MAINS SUMULATION ON
(2)	BYPASS AND STOP	(16)	FRONT PANEL LED'S TEST
(3)	COOLING AND STOP	(17)	ALARM ACKNOWLEDGE
(4)	BYPASS + COOLING AND STOP	(18)	DISPLAY RIGHT PUSHBUTTON
(5)	WARNING ONLY	(19)	DISPLAY LEFT PUSHBUTTON
(6)	BYPASS AND WARNING	(20)	OVERLOAD INPUT WARNING
(7)	REMOTE MANUAL MODE	(21)	OVERLOAD INPUT SHUTDOWN
(8)	REMOTE AUTO MODE	(22)	KG FORCED CLOSED
(9)	REMOTE OFF MODE	(23)	KM FORCED CLOSED
(10)	REMOTE ENGINE TEST	(24)	KG LED FEEDBACK
(11)	REMOTE GENERATOR TEST	(25)	KM LED FEEDBACK
(12)	EJP FUNCTION	(26)	IDLE ENGINE
(13)	REMOTE LOCK		

OUTPUT OPTIONS TABLE			
OPTIONS	DESCRIPTION	OPTIONS	DESCRIPTION
(0)	OUTPUT IS DISABLED	(5)	OVERLOAD WARNING OR SHUTDOWN
(1)	UNDER FREQUENCY SHUTDOWN	(6)	OVER VOLTAGE SHUTDOWN
(2)	OVER FREQUENCY SHUTDOWN	(7)	UNDER VOLTAGE SHUTDOWN
(3)	OVER CURRENT SHUTDOWN	(8)	ALTERNATOR FAILURE SHUTDOWN
(4)	OVER CURRENT WARNING	(9)	LOW OIL PRESSURE WARNING

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[Signature] 31/10/2011

CHIEF ENGINEER / CONSTRUCTION-1
 A TRANSCO/VIDYUT / SODHA/HYD.



Standardised Guaranteed Technical Particulars for Diesel Generator Set
 STD/GTP-DWG/Approval No. 294 / Revision Mo. 0
 Prepared & Approved during October - 2011

REV: [PTS-XF2-AC2-01-41-MFM-BE42] LAYER: 7

REV.	DATE	DRN	CHK	RKS	DESCRIPTION
1	25/07/09	MADHAVI	RKS		MODIFIED THE GA
2	15/08/10	MADHAVI	RKS		REVISED CONTROL CIRCUIT OF ENGINE

CLIENT : POWERICA DEVELOPMENT
 TITLE : 15-25KVA AMF CONTROL PANEL
 INSIDE ACOUSTIC AS PER DRG. No. - PTS/XF2-01
 PROJECT :
 CONSULTANT : ***

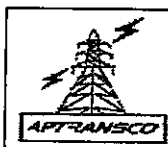
DWG. TITLE :	SETTING CHART-1 FOR AMF UNIT FOR BE42	R-2
DRN	MADHAVI	01/04/08
CHK	JKS	01/04/08
APP	RKS	01/04/08
DRAWING NO.	PTS/XF2/AC2-01-41-MFM-BE42	
SCALE	N.T.S	
REF	SIC 16	
SHEET	17 OF 17	

OUTPUT OPTIONS TABLE			
OPTIONS	DESCRIPTION	OPTIONS	DESCRIPTION
(10)	LOW OIL PRESSURE SHUTDOWN	(35)	CUMULATIVE OIL ALARMS
(11)	OIL SENDER FAILURE WARNING	(36)	CUMULATIVE TEMPERATURE ALARMS
(12)	HIGH TEMPERATURE WARNING	(37)	CUMULATIVE ALTERNATOR ALARMS
(13)	TEMPERATURE SWITCH SHUTDOWN	(38)	COMMON FUEL ALARMS
(14)	TEMPERATURE SENDER FAILURE WARNING	(39)	HORN OUTPUT
(15)	LOW BATTERY VOLTAGE WARNING	(40)	CRANK DELAY (START WARNING)
(16)	HIGH BATTERY VOLTAGE WARNING	(41)	PRESENCE OF NOMINAL MAINS PARAMETERS
(17)	LOW FUEL SHUTDOWN (SWITCH)	(42)	MAINS FAILURE TIMING
(18)	FUEL LOW WARNING (SENSOR)	(43)	MAINS RESTORE TIMING
(19)	FUEL REVERSE WARNING (SWITCH)	(44)	KG STATUS
(20)	HIGH FUEL WARNING (SWITCH)	(45)	KM STATUS
(21)	FUEL SENDER FAILURE WARNING	(46)	PRE GLOW MODE 1/2/3/4
(22)	EMERGENCY STOP SHUTDOWN (E-08)	(47)	PURGE (GAS ENGINE VALVE CONTROL)
(23)	STOP PUSHBUTTON USED IN AUTO (E-09)	(48)	RENT<48h
(24)	MAINTENANCE SERVICE 1 (E-10)	(49)	RENT= 0h (EXPIRED)
(25)	MAINTENANCE SERVICE 2 (E-10)	(50)	ENGINE RUNNING STATUS
(26)	MAINTENANCE SERVICE 3 (E-10)	(51)	PRESENCE OF NOMINAL GENERATOR VOLTAGE
(27)	ENGINE BELT BREAK SHUTDOWN	(52)	BE42 IN OFF MODE (STATUS)
(28)	FAIL TO START SHUTDOWN	(53)	BE42 IN MANUAL MODE (STATUS)
(29)	FAIL TO STOP SHUTDOWN	(54)	BE42 IN AUTO MODE (STATUS)
(30)	INDICATION OF PARAMETER ERROR WARNING	(55)	BE42 IN TEST MODE (STATUS)
(31)	ALARM FROM INPUT 1: SHUTDOWN/WARNING	(56)	BE42 IN LOCK MODE (STATUS)
(32)	ALARM FROM INPUT 2: SHUTDOWN/WARNING	(57)	AUTOMATIC PERIODIC TEST
(33)	ALARM FROM INPUT 3: SHUTDOWN/WARNING	(58)	COOLING TIMING
(34)	ALARM FROM INPUT 4: SHUTDOWN/WARNING	(59)	WARM UP TIMING

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[Signature] 21/10/2011

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POWERICA LIMITED