



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	0014	BOGIE NO	207256	/ 207257	DISPATCH DATE	14-JAN-21
2.	RAILWAY	NR	TYPE OF COACH	LLRRMLX	COACH NO		211018
3.	BOOKED TO	SSE/C&W/DLI					
4.	Tare Weight of Coach	53.4 T					
5.	Carrying Capacity	Seating	5	Sleeping	3	Luggage	3.9 T
6.	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (for LWSCZDAC)				
	iii)	Maximum height from Rail Level	4250 (for LWACCN), 4039 (for LWACCW, LGS, LWSCN, LWSCZAC, LWFAC, LWCBC, LWLRRM), 4366 (for LWSCZDAC)				
	iv)	CBC Height	Specified: 1105 +0/-15 mm	1105	1105		
	v)	CBC (Make)		SANROK	SANROK		
	vi)	Buffer (Make)					
7.	Air Brake Testing:		Description	Specified			
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	06 - 10 Sec			
			Max Pressure in BC	3.80±0.15 Kg/cm ²			
			All Brake are applied	OK			
	7.2	Insensitivity	Exhaust BP @ 0.3 Kg/cm ² /mi	No brake application			
	7.3	Sensitivity	Exhaust BP @ 0.1 Kg/cm ² /Sec, After 02 Sec	Brake must apply			
8.	Painting Details:		Type of Paint	Make	Average Gloss Value		
	8.1	Paint	PU PAINT	GS	87 / 87		
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	FLOOR BOARD	SRI RAM				
	2	PVC	RESPONSIVE				
	3	UIC VESTIBULES	CEMCON				
	4	BODY SIDE DOOR	JBM				
	5	VESTIBULE SLIDING DOOR	JBM				
	6	WATER TANKS	AMIT, RAIL FAB				
	7	FUEL TANK	GAURAV				
	8	COMPOSITE MODULAR TOILET	HINDUSTAN				
	9	SEAT & BEARTH	AAR KAY FOAM				
	10	BIO-TOILET	SVARN INFRATEL				
	11	EP BRAK / BRAKE EQUIPMENT	KBI				
	12	BIO DIGESTER/VACUUM EVACUATION SYSTEM	SVARN INFRATEL				
10.	10.1	Modification/ Trial (If any): 1-AUTOMATIC FIRE DETECTION AND MANUAL SUPRESION SYSTEM SUPPLIED AND COMMISSIONED BY M/S SANROK ENTERPRISES, FARIDABAD. 2-VINYL WRAPPING SUPPLIED AND FITTED BY M/S EMPRISE MARKETTING, LUCKNOW..					
	10.2	Deviations (If any): NIL					



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QMF 9829, VER:1.00

11.	Bogie Details:	Shell No.	Railway	Type	Coach No.	Dispatch Date
		0014	NR	LLRRMLX	211018	14-JAN-21

11.1 Wheel & Axle Details:									
i.	Bogie No.	207256				207257			
ii.	Frame No.	RAIL TECH-07				BEC-223			
iii.	Bolster No.	AMIT-247				AMIT-223			
iv.	Axle No.	RWF - Y3223		RWF - Y4071		RWF - V9073		RWF - W8841	
v.	Items/locations	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side	Earthing end side	Phonic wheel side	Phonic wheel side	Plain side
vi.	Wheel Dia.	916.90	916.90	917.10	917.10	917.10	917.10	917.00	917.00
vii.	Wheel Disc No.	02999-00L7-TZ	03628-00J8-TZ	03625-00J8-TZ	76919-9WH7-TZ	81744-9VE1-TZ	03433-00M9-TZ	03626-00J8-TZ	04367-00L8-TZ
viii.	RB Nos.	411106	411187	411162	411180	503960	409507	410755	503582
ix.	RB Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
x.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							

11.2 Secondary suspension load deflection Values:				
Description	Lateral Damper Side	Non-Lat. Damper Side	Lateral Damper Side	Non-Lat. Damper Side
i. Make & Nos.	AVADH-20-02-4486	AVADH-20-02-4475	AVADH-20-02-4473	AVADH-20-02-4471

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-19-12	CMSTL
	ii.	Primary inner Spring	GBD-20-01	GBD
	iii.	Primary Damper	0531, 0208, 0093, 0385	ESCORTS
	iv.	Secondary Damper	17585, 17619	KBI
	v.	Lateral Damper	313068	IAI
	vi.	Brake cylinder & Caliper	A0056-261,0699-260, A0053-261,0630-260	KBI
	vii.	Brake Disc		KBI
	viii.	Contral arm top		KUMAR
	ix.	Control arm bottom		KUMAR
	x.	Top rubber Pad		ARYAN
	xi.	Vertical Bump Stop		ARYAN
	xii.	Ball Joint Control arm		ARYAN
	xiii.	Lateral Bump stop		ARYAN
	xiv.	Traction center make		RF
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		ARYAN
	xvii.	Traction center elastic		ARYAN
	xviii.	Secondary rubber pad		NA
	xix.	Rubber spring		NA
	xx.	Anti roll bar make		EMSON
	xxi.	Ball joint roll link		SARITA
	xxii.	Fork make		RNG

11.4	i.	Modification/Trail(if any):	NIL
	ii.	Deviations (if any):	Deviations (If any): NIL

LLRRMLX - 0014



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB POWER CAR (LOW NOISE) AIR SPRING COACH

TYPE OF COACH : LLRRMLX **Shell No :** 0014 **COACH_NO :** 211018

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 30-OCT-20

S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name **PP-SIDE**

1	33635225-1, AC PACKAGE UNIT	RDSO/PE/SPEC/AC/0061-2005(REV-I),TYPE-II &MICROPROCESSOR TO RDSO/PE/SPEC/AC/0139-2009(REV-I)COMPLETE WITH ACCES. SUPPLY AS ENVISAGED IN THE RDSO SPEC ALONGWITH MODI. SHEET NO.RDSO/PE/MS/AC/0077-2018,REV-0,AND BELLOW DUCT TO SPEC RDSO/2018/PE/AC/FRS/0028(REV-0)ALONG DRG RDSO/PE/SK/AC/0069-2004,REV-2	ESS ESS KAY	1462-20
1	33640312-1, PUBLIC ADDRESSING SYSTEM	EDTS173, REV-A,AM-3,COR -2,TYPE-II	PUNJAB RADIOS/AHUJ A	..
0	33641419-0, 4.5 KW UNDER SLUNG TYPE CONSTANT VOLTAGE REGULATED CUM EMERGENCY BATTERY CHARGER FOR LHB COACHES. as	RDSO/PE/SPEC/AC/0183-2018,REV-1.	HI-REL POWER ELECTRONICS PVT.LTD	0120175070

Group Name **BOGIE PP SIDE**

1	33635067-1, BOGIE 1	EDTS101 ,REV-C,AM-1,COR-6.	LIGHT ENGINEERING CORPORATION	207257
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Group Name **BOGIE NPP SIDE**

2	33635067-2, BOGIE 2	EDTS101 ,REV-C,AM-1,COR-6.	LIGHT ENGINEERING CORPORATION	207256
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Group Name **ENGINE ROOM**

1	33635146-1, SMOKE SENSOR UNIT	EDTS087, Rev-B,Corr-1	AGNI INSTRUMENTS	NIL
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Group Name ENGINE ROOM				
0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15,RCF ANNEX1.	ELECTRO WAVES ELECTRONICS PVT.,. LTD.	W60KF-20081
0	33641961-0, STARTER BATTERY CHARGING CONTROL PANEL FOR LHB TYPE POWER CAR as per Drg.No. EDTS116,REV-A,AM-1.	EDTS116,REV-A,AM-1.	LEC	2020/033
Group Name 500 KVA ALTERNATOR SET A				
1	33635316-1, ENGINE 500KVA	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	DVO-9026/2020006
2	33635316-2, ALTERNATOR 500KVA	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	LED3L919K-17237
3	33635316-3, RADIATOR FAN MOTOR	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	3GIJ1912000-1700240



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S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
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Group Name	500 KVA ALTERNATOR SET A
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6	33635316-6, STARTER BATTERY 290AH CAPACITY	RDSO/PE/SPEC/AC/0 084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/004 5-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	07/20 CELTEK
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	RDSO/PE/SPEC/AC/0 084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/004 5-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	FLYIDYNE 20363
11	33635316-11, DATA LOGGER UNIT (IN CASE OF CUMMINS ENGINE)	RDSO/PE/SPEC/AC/0 084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/004 5-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	2000028



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Group Name	500 KVA ALTERNATOR SET A
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13	33635316-13, RADIATOR FRAME	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	1912194
0	33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA as per Drg.No. EDTS114 REV-B	EDTS114,REV-B,AM-1.	BHASIN PACKARD ELECTRONICS PVT LTD	12196937/1

Group Name	500 KVA ALTERNATOR SET B
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1	33635316-1, ENGINE 500KVA	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	DVO-9026/2020017
2	33635316-2, ALTERNATOR 500KVA	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	LED3L919J-16094



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Group Name	500 KVA ALTERNATOR SET B
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3	33635316-3, RADIATOR FAN MOTOR	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	3GIJ1940000-1760775
6	33635316-6, STARTER BATTERY 290AH CAPACITY	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	07/20 CELTEK
8	33635316-8, FUEL CONSUMPTION METER (INPUT)	RDSO/PE/SPEC/AC/0084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/0045-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	FLYIDYNE 20361



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Group Name **500 KVA ALTERNATOR SET B**

11	33635316-11, DATA LOGGER UNIT (IN CASE OF CUMMINS ENGINE)	RDSO/PE/SPEC/AC/0 084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/004 5-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	2000027
13	33635316-13, RADIATOR FRAME	RDSO/PE/SPEC/AC/0 084-2008,REV-1,WITH RCF ANNEXURE-A ALONG WITH NOISE REDUCTION FEATURES AS PER RDSO MODIFICATION SHEET NO. RDSO/PE/MS/AC/004 5-2008,REV-0,AM-1 WITH RCF ANNEXURE-A&C.	KIRLOSKAR ELECTRIC CO.	1912203

Group Name **DRIVING END**

0	33635092-0, EXT SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS,RCF ANNX A. FOR EXTERNAL SUPPLY	CAT.NO 1948036/UIV4125-6	JAI BALA JI	NIL
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Group Name **NON-DRIVING END**

0	33635092-0, EXT SUPP SOCKET 125 AMP,415V,IP67,5POLE(3P+N+E) WITH PILOT CONTACTS,RCF ANNX A. FOR EXTERNAL SUPPLY	CAT.NO 1948036/UIV4125-6	JAI BALA JI	NIL
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Group Name **UNDER FRAME**

0	33635031-0, FEEDER JUNCTION BOX FOR POWER CAR as per Drg.No. EDML021 ,REV-L.	EDML021,REV-M.	MV ELECTRO SYSTEM PVT LTD	NIL
1	33635080-1, PUMP	EDTS186 REV-A,AM- 2,COR-1& 2.	L E CORP. KAPSONS	820-R-1152
0	33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080- 2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0 080-2007,(REV- 1)WITH RDSO LETTER NO EL/7/1/108/TRANSFO RMER DATED 31/03/15,RCF ANN1.	VIMAL TRANSFORME RS	VTC-3918



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Group Name UNDER FRAME

0 33635183-0, 60 KVA TRANSFORMER as per Drg.No. RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TR	RDSO/PE/SPEC/AC/0080-2007,(REV-1)WITH RDSO LETTER NO EL/7/1/108/TRANSFORMER DATED 31/03/15,RCF ANNEX1.	VIMAL TRANSFORMERS	VTC-3939
0 33640178-0, BATTERY FUSE BOX -VE, as per Drawing: LW71002,ALT-J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002,ALT-I.	RADIANT ELECTRICAL & ALLIED INDUSTRIES	2007395
0 33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001,ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001,ALT"-H"	RADIANT ELECTRICAL & ALLIED INDUSTRIES	2006212
0 33641717-0, JUMPER CABLE WITH CONNECTOR as per Drg.No. LW75206, alt 'c'	LW75206, alt 'c'	PUNJAB RADIO'S PVT. LTD.	NIL
0 33641729-0, 70AH,110V, VRLA MONOBLOCK LEAD ACID MAINTENANCE FREE SET WITH 9 MODULES OF 12V EACH PRECHARGED BATTE	RDSO/PE/SPEC/AC/0009-2014,REV-2,PRECHARGED.	AMARA RAJA BATTERIES LTD.	07/2020
0 33641950-0, CONTROL PANEL FOR RADIATOR FAN MOTOR OF DIESEL ENGINE FOR LHB POWER CA as per Drg.No. EDTS114 REV-B	EDTS114,REV-B,AM-1.	BHASIN PACKARD ELECTRONICS PVT LTD	12196937/2
0 33650184-0, BATTERY BOX MOUNTING FOR LHB COACH AND 9 HOLES OF DIA 25 mm AS PER SKED-383 IN DRG.NO. 3 10113.0.76.	1 10113.0.76.700.005 EXCEPT ITEM NO. 5,22,23,25 TO 27 ALT 'CR' AND SKED-383 IN DRG.NO. 3 10113.0.76.700.117	MEENAKSHI ENGINEERING WORKS	NIL
1 35982913-1, CAPACITOR BANK FOR LHB EOG POWER CAR COACHES	EDML130,REV-1,COR-3 ,TYPE-II	NEC SWITCHGEARS & CONTROLS	2020-01-3395

Group Name COMPARTMENT

0 33642321-0, LED LIGHT FITTING(DOORWAY/GANGWAY AREA) FOR LHB EOG TYPE COACHES as per Drg.No. RDSO/PE/SPEC/TL/0091	RDSO/PE/SPEC/TL/0091-2016,REV-1,AS PER DRG LW76099, TYPE-N (9 WATT), RCF, ANNEX-1	ELECTRO WAVES ELECTRONICS PVT LTD	NIL
0 33642461-0, LED LIGHT FITTING FOR TOILET INDICATION IN LHB AC COACHES as per Drg.No. RDSO/PE/SPEC/TL/0091-2016,	RDSO/PE/SPEC/TL/0091-2016,REV-1, AS PER DRG LW76097,TYPE-"H1" (1 WATT), RCF, ANNEX-1	R T VISION	NIL

Group Name CREW ROOM



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Group Name	CREW ROOM
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0	33504349-0, SUPPLY, INSTALLATION COMMISSIONING OF AXLE MOUNTED DISC BRAKE SYSTEM FOR ALSTOM-LHB DESIGN-AC NA	RDSO/2011/CG-04 REV.01 with amendment -1 (WITHOUT BRAKE DISC AND EMERGENCY BRAKE CABLE BOX NPZ 1-S OR PASSENGER EMERGENCY PILOT VALVE) AND Dy.CME/D2's LETTER NO. MD46131 DT. 11/06/2015	KNOOR-BREMSE INDIA PVT.LTD	0120175070
2	33635080-2, PUMP CONTROLLER	EDTS186 REV-A,AM-2,COR-1& 2.	HIND ELECTRICAL WORKS	C-20/06/290
2	33635225-2, MICRO PROCESSOR CONTROLLER	RDSO/PE/SPEC/AC/0 061-2005(REV-I),TYPE-II &MICROPROCESSOR TO RDSO/PE/SPEC/AC/0 139-2009(REV-I)COMPLETE WITH ACCES. SUPPLY AS ENVISAGED IN THE RDSO SPEC ALONGWITH MODI. SHEET NO.RDSO/PE/MS/AC/ 0077-2018,REV-0,AND BELLOW DUCT TO SPEC RDSO/2018/PE/AC/FR S/0028(REV-0)ALONG DRG RDSO/PE/SK/AC/0069 -2004,REV-2	ESS ESS KAY	2001009
0	33635262-0, SINGLE INLET RADIAL BLOWER 415V,3-PHASE,50 HZ,185W,1045 CUBIC METER PER HOUR DISCHARGE FOR EXHAUSTIN	EDTS331,AM-1,COR-1,2&3,TYPE-II.	INTEG	NIL
2	33640312-2, SPEAKERS	EDTS173, REV-A,AM-3,COR -2,TYPE-II	PUNJAB RADIOS/AHUJ A	NIL



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Group Name CREW ROOM			
1	33640543-1, DA CONTROL PANEL FOR 2 X 500KVA DGSETS.	EDTS103,REV-D,AM-7,COR-1&2,WITH HOG COMPLIANT INTEGRATED TYPE, WITH 125A/1000V HRC FUSES INSTEAD OF 80A/1000V	TRINITRON (HOG PANEL) 20/01/TCS/RCF/3453/LHB-0017
0	33641559-0, 24V STARTER BATTERY CHARGER FOR 500KVA DA SET as per Drg.No. EDTS106,AM-1&2.COR-1.	EDTS106,AM-1&2.COR-1.	ELECTRIC INDUSTRIES 3976/ 3977
0	33641614-0, TAIL LIGHT LED TYPE WITH FLASHER UNIT & VHF CHARGING SOCKET TO DRG. NO. LP73200 ALT "C"AS PER DRAWIN	EDTS215,AM-1	DHINGRA ENGINEERING WORKS NIL
1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0184-2015,REV-0	ESS ESS KAY ENGG. CO. PVT. LTD. 2019-10-0014
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0184-2015,REV-0	ESS ESS KAY ENGG. CO. PVT. LTD. L&T
SSE/EL/QC		AME/WM QC/DY CQM I	