



RAIL COACH FACTORY, KAPURTHALA
ROLLING STOCK CERTIFICATE (LHB)

(FORM NO. QMF 9454 VER:1.00)

1.	SHELL NO	9014	BOGIE NO	206988	/ 206987	DISPATCH DATE	14-JAN-21
2.	RAILWAY	NR	TYPE OF COACH	LLRRMX	COACH NO		211019
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)			FRONTIER	FRONTIER	
	vi)	Buffer (Make)			ATUL	ATUL	
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		NAROLACK	89 / 89	
	8.2	Application of PCN-123	SATISFACTORY				
	8.3	Insulation	SATISFACTORY				
9.	Traceability of Furnishing Items:						
	1	SEAT & BEARTH	AAR KAY FOAM				
	2	LUGGAGE RACK	JR				
	3	BODY SIDE DOOR	JVR				
	4	VESTIBULE SLIDING DOOR	KALSI				
	5	WATER TANKS	SHIVALIK, RAIL FAB				
	6	FUEL TANK	SHIVALIK				
	7	COMPOSITE MODULAR TOILET	SHATABDI				
	8	LAVATORY DOORS	SHATABDI				
	9	FLOOR BOARD	SRI RAM				
	10	PVC	RESPONSIVE				
	11	UIC VESTIBULES	CEMCON				
	12	EP BRAK / BRAKE EQUIPMENT	FAVELLY				
	13	ROOF CEILING	PD STEEL				
	14	WATER SUPPRESSION SYSTEM	SANROK				
	15	BIO-TOILET	SVARN INFRATEL				
	16	BIO DIGESTER/VACUUM EVACUATION SYSTEM	SVARN INFRATEL				
	17	ASPRATING SMOKE & FIRE DETECTON SYSTEM	SANROK				
10.	10.1	Modification/ Trial (If any): 1. AUTOMATIC FIRE DETECTION CUM SUPPRESION SYSTEM OF M/S SANROK/FARIDABAD FITTED AND JOINTLY INSPECTED. 2.VINYL WRAPPING SUPPLIED AND FITTED BY M/S ǂ EMPRISE MARKETING , 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			
		9014	NR	LLRRMX	211019	14-JAN-21			

11.1 Wheel & Axle Details:									
i.	Bogie No.	206988				206987			
ii.	Frame No.	FIAT-CA-1014				RAIL TECH-87			
iii.	Bolster No.	PD-CA-2629				NE-74			
iv.	Axle No.	RWF - W8576		RWF - W1960		RWF - W0632		RWF - W0222	
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.	917.00	917.00	917.00	917.00	917.00	917.00	917.10	917.10
vii.	Wheel Disc No.	82998-9VD5-TZ	82997-9VD5-TZ	94355-9WM1-TZ	94597-9XH7-TZ	89193-9WK0-TZ	89227-9WK8-TZ	89228-9WK0-TZ	89192-9WK8-TZ
viii.	RB Nos.	502617	406597	33167	405771	502558	406661	406542	406503
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-20-1-3908	AVADH-20-1-3907	AVADH-20-1-3885	AVADH-20-1-3802

Items traceability:				
11.3	Sno.	Item	Make	
	i.	Primary Outer Spring	CMSTL-19-12	CMSTL-19-12
	ii.	Primary inner Spring	GBD-20-01	GBD-20-01
	iii.	Primary Damper	307454, 270744, 270233, 271044	307470, 307902, 307540, 307386
	iv.	Secondary Damper	17793, 17791	17974, 17956
	v.	Lateral Damper	305759	305704
	vi.	Brake cylinder & Caliper	B20019-700,E20040-700, B20027-700,E20023-700	E20015-700,E20009-700, E20014-700,E20006-700
	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		RPL ARYAN
	xiii.	Lateral Bump stop		GMT
	xiv.	Traction center make		RNG
	xv.	Traction lever make		JI
	xvi.	Ball joint traction lever		ARYAN
	xvii.	Traction center elastic		GMT AVADH
	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 EMSON

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

LLRRMX - 9014



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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF

LHB POWER CAR AIR SPRING COACH

TYPE OF COACH : LLRRMX **Shell No :** 9014 **COACH_NO :** 211019

RAILWAY : NR **COUPLING TYPE :** CBC **DATE OF FITMENT:** 14-JAN-21

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 ALONG WITH 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	3606526
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.	HITACHI-HI-REL POWER ELECTRONICS PVT.LTD	HHPE-07203629

Group Name **BOGIE PP SIDE**

1	33635067-1, BOGIE 1	EDTS101, REV-C, AM-1, COR-6.	PRIME ELECTRONICS	206988
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Group Name **BOGIE NPP SIDE**

2	33635067-2, BOGIE 2	EDTS101, REV-C, AM-1, COR-6.	PRIME ELECTRONICS	206987
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Group Name **ENGINE ROOM**

1	33635146-1, SMOKE SENSOR UNIT	EDTS087, Rev-B, Corr-1	AGNI INSTRUMENTS	NIL
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 ANNEX 1.	ELECTRO WAVES ELECTRONICS PVT., LTD.	W60KI-20082



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Group Name	500 KVA ALTERNATOR SET A
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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.	CUMMINS INDIA LTD.	1309121812285
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.	CUMMINS INDIA LTD.	RLAG-2097
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.	CUMMINS INDIA LTD.	RCG49518



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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.	CUMMINS INDIA LTD.	06/20 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.	CUMMINS INDIA LTD.	181327/ 180728
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.	CUMMINS INDIA LTD.	NA



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S.No	PL No & Item Description	Drawing No	Make	Item Sr.No.(if any)
Group Name 500 KVA ALTERNATOR SET A				
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.	CUMMINS INDIA LTD.	NA
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110,Am-I,Type-I	INTERNATIONAL SWITCHGEARS PVT. LTD.	CPVF-RCF-19050005
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	12196928/1
Group Name 500 KVA ALTERNATOR SET B				
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.	CUMMINS INDIA LTD.	1309121806602
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.	CUMMINS INDIA LTD.	RFAG-1131



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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.	CUMMINS INDIA LTD.	3GIJ-1947000-1773486
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.	CUMMINS INDIA LTD.	06/20 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.	CUMMINS INDIA LTD.	181326/ 181320



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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.	CUMMINS INDIA LTD.	NA
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.	CUMMINS INDIA LTD.	NA
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
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
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.	KAPSON (KIND)	18050324/ 18050324
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-289



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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.	ELECTRO WAVES ELECTRONICS PVT., LTD.	W60KI-20271
0	33640178-0, BATTERY FUSE BOX -VE, as per Drawing: LW71002,ALT-J., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71002,ALT-I.	INTEG ELECTRONICS	2019-01-048
0	33640786-0, BATTERY FUSE BOX +VE, as per Drawing: LW71001,ALT-I., Packing Instruction(PI091 VER2.0): SUITABLY CO	LW71001,ALT"-H"	INTEG INTEG ELECTRONICS	2019-01-128
0	33641596-0, CONTROL PANEL FOR VENTILATOR FANS OF DIESEL ENGINE FOR LHB TYPE POWER	EDTS110,Am-I,Type-I	INTERNATIONAL SWITCHGEARS PVT. LTD.	CPVF-RCF-19050005
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	12196928/2
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	UPS INTERNATIONAL	UPSI-2021/RCF-02
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	RT VISION TECHNOLOGIES PVT. LTD.	NIL



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Group Name	COMPARTMENT
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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	RT VISION TECHNOLOGIES PVT. LTD.	NIL
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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	FAIVELEY TRANSPORT RAIL TECH. INDIA LTD.	I-2784
2	33635080-2, PUMP CONTROLLER	EDTS186 REV-A, AM-2, COR-1 & 2.	L E CORP. KAPSONS	1971092
2	33635225-2, MICRO PROCESSOR CONTROLLER	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 ALONG WITH 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	2001015
0	33635262-0, SINGLE INLET RADIAL BLOWER 415V, 3-PHASE, 50 HZ, 185W, 1045 CUBIC METER PER HOUR DISCHARGE FOR EXHAUST IN	EDTS331, AM-1, COR-1, 2 & 3, TYPE-II.	INTEG	NIL



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Group Name CREW ROOM				
2	33640312-2, SPEAKERS	EDTS173, REV-A, AM-3, COR -2, TYPE-II	PUNJAB RADIOS/AHUJ A	NIL
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	INTERNATIONAL SWITCHGEARS	PCP-RCF-19120021
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	4752/ 4754
0	33641614-0, TAIL LIGHT LED TYPE WITH FLASHER UNIT & VHF CHARGING SOCKET TO DRG. NO. LP73200 ALT "C" AS PER DRAWING	EDTS215, AM-1	DHINGRA ENGINEERING WORKS	NIL
1	33641936-1, SWITCH BOARD CABINET	RDSO/PE/SPEC/AC/0 184-2015, REV-0	SHIVALIC FASTNERS PVT LTD	20070045
2	33641936-2, DISCONNECTING & EARTHING DEVICE	RDSO/PE/SPEC/AC/0 184-2015, REV-0	SHIVALIC FASTNERS PVT LTD	L&T
SSE/EL/QC		AME/WM QC/DY CQM I		