



Modern Coach Factory Raebareli

आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QMF 8002

REV NO: 01

DATE: 17.04.2018

ROLLING STOCK CERTIFICATE

Rolling Stock Certificate No.: MCF/RBL/QC/RSC/2018-19/1077

RLY	C	R	-	Coach No.	1	9	1	3	7	1	/	C	DATE OF DISPATCH	2	4	-	0	1	-	1	9
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DISPATCH TO	SSE(STOCK)/CSTM	Type	L	W	A	C	C	N	Shell No.	8	3	3	4	5	-	2	0	1	8	-	1	9
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1. Railway Board's Order No. : 2018/M(C)/142/2 dated -23-01-2019
2. Tare Weight of Coach : 45.6 Tonnes
3. Carrying Capacity : (a) Seating: 72 (b) Sleeping: 72 (c) Luggage: NIL

4. SHELL LEADING DIMENSIONS:

S NO	DESCRIPTION	DIMENSION (MM)
1.	Maximum length over body	23700
2.	Maximum width over body	3240
3.	Maximum height from Rail Level	4250
4.	CBC height/Buffer height from Rail level 1105 +0/-10	1) 1095 (NPPE) 2) 1096 (PPE)

5. TRACEABILITY OF SHELL ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Under frame	PP END M/S-KANSAL ENG. MOHALI	19
		NPP END M/S-KANSAL ENG. MOHALI	19
	Complete	M/S- KANSAL ENG. MOHALI	19
2.	Lav. side wall	M/S- COMPETENT ENG. JUC	LAV.1 --- LAV.2 ---
		M/S- COMPETENT ENG. JUC	LAV.3 --- LAV.4 ---
3.	Side wall	LH SIDE MCF/RBL(CONTRACTOR V4U)	323/01
		RH SIDE MCF/RBL(CONTRACTOR V4U)	323/02
4.	End wall	PP END M/S- P.D.STEEL, PANCHKULA	---
		NPP END M/S- P.D.STEEL, PANCHKULA	---
5.	Roof	M/S- INDIRA IND RANIPET CHENNAI	113
6.	Centre Buffer Coupler	M/S- SANROK ENG	PP END 2030 NPP END 2036

6. AIRBRAKE TEST REPORT:

S NO	ITEM	DESCRIPTION	SPEC. VALUE	OBSERVED
1.	Full brake application	➤ Reduce pressure of BP from 5.0 to 3.4 kg/cm ² . ➤ Max. pressure in BC ➤ All Brake are applied	6 – 10 sec. 3.0 ±0.15 kg/cm ² . OK	07 sec. 3.0 kg/cm ² OK
2.	Insensitivity	➤ Exhaust BP @ 0.3 kg/cm ² /min.	No brake application	OK
3.	Sensitivity	➤ Exhaust BP @ 0.1 kg/cm ² /Sec, after 06 Sec.	Brake must apply	OK

7. PAINTING DETAILS:

S NO	DESCRIPTION	TYPE OF PAINT	MAKE	APPLICATION BY MCF/ CONTRACTOR(SUPPLY & APPLY)	AVERAGE GLOSS VALUE
1.	Paint	P.U	M/S-VIBGYOR	SUPPLY & APPLY	89/88
2.	Insulation			Satisfactory	

Rama
SSE/QC/MCF/RBL

गुणवत्ता विभाग
रेडिओका, रायबरेली (लालगंज)



MODERN COACH FACTORY, RAEBARELI
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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RLY	C	R	-	-	Type	L	W	A	C	C	N	Shell No.	8	3	3	4	5	-	-	-	-	-	-	-	-	-	-
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8. DETAIL OF BOGIES:

ITEMS	NPP Side												PP Side											
Bogie No	182510												182509											
Bogie Type	LWACCN												LWACCN											
Frame no.	MCF/RBL-1152												MCF/RBL-1606											
Bolster no.	APEX-06												APEX-75											
Axle No	18 G - 2797 RWF				18 G - 2778 RWF				18 G - 2818 RWF				18 G - 2876 RWF											
Wheel Dia	917.381	917.391	917.499	917.611	917.376	917.415	917.376	917.415	917.376	917.415	917.376	917.415	917.376	917.415	917.376	917.415	917.376	917.415	917.376	917.415	917.376	917.415	917.376	917.415
Wheel Disc No	TZ-07-18 12962-8MQ4	TZ-05-18 22724-8RR9	TZ-04-18 37619-8RA7	TZ-07-18 40156-8RL8	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3	TZ-05-18 19953-8RR3	TZ-07-18 37362-8RN3
R.B. Nos	05-18 27247	04-18 25784	05-18 28907	05-18 37100	05-18 27905	04-18 22772	05-18 27905	04-18 22772	05-18 27905	04-18 22772	05-18 27905	04-18 22772	05-18 27905	04-18 22772	05-18 27905	04-18 22772	05-18 27905	04-18 22772	05-18 27905	04-18 22772	05-18 27905	04-18 22772	05-18 27905	04-18 22772
CT R B Make	SKF				SKF				SKF				SKF				SKF				SKF			

9. SECONDARY SUSPENSION LOAD DEFLECTION VALUES

DESCRIPTION	Bogie NPP side				Bogie PP side			
	Secondary 1		Secondary 2		Secondary 1		Secondary 2	
	Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner
Make & Nos.	CMRSK08-18F16-S32-16Y-473	CMGBD09-18-513-117-80	CMRSK08-18-S32-16Y-501	CMGBD09-18-513-117-16	CMRSK08-18-F16-S32-16Y-682	CMGBD09-18-513-117-59	CMRSK08-18-F16-S36-16Y-401	CMGBD09-18-513-177-28
Compressed Ht. at Tested Load	514	466	514	467	514	468	514	467
Alignment deviation (mm)	2	12	6	12	12	7	15	7

10. TRACEABILITY OF BOGIE ITEMS:

S. NO	ITEM	MAKE/ SUPPLIER	SERIAL NO.	
			NPP SIDE	PP SIDE
1.	Yaw Damper	KNORR	14552,14419	14535,14554
2.	Primary outer Spring	CMRSK	08-18 -03Y-(5607,5618,5025,5604)	08-18 -03Y-(1409,5030,6042,1006)
3.	Primary Inner Spring	CMRSK	11-18-04Y-(7106,6069),10-18 04Y-5744, 11-18-04Y-7081	10-18 04Y-5804,11-18-04Y-5586,10-18 04Y- (5487,5768)
4.	Primary Damper	KNOOR	05-18(21278,21240,21242,21247)	05-18 (21248,21289,21296,21288)
5.	Secondary Damper	SV	12-17-019950	12-17 019950
6.	Lateral Damper	GB	11-18 00053	11-18 00054
7.	Brake Cylinder	FAV	K18-600,L18(107,262,148)	L18(146,366),K18(748,019)
8.	Brake Caliper	FAV	M18(295,293,418,420)-B	M18(419,417),N18(406,408)B
9.	Brake Disc	FAV	11-18 6467,12-18-674,10-18 4365,12-18 6473 -D133561-300	10-18 4367,11-18 6463,10-18 4366, 11-18 6360-D133561-300
10.	Ball Joint Control Arm	AR		
11.	Lateral Bump Stop	AR		
12.	Traction Centre make	SARITA		
13.	Traction lever make	JI		
14.	Ball joint traction lever	SGA		
15.	Ball joint traction centre	GMT		
16.	Secondary Rubber Pad	PRAG		
17.	Rubber Spring	AR		
18.	Anti roll bar make	EMSON		
19.	Roll Link make	SARITA/PPI/UK		
20.	Fork make	EMSON		
21.	Control Arm Upper	RVE	221118-2,191118-2,171118-3,171118-2	211118-1,211118-1,191118-2,RVE
22.	Control Arm Lower	RVE	201118-4,211118-2,211118-2,221118-4	301118-4,311118-2,211118-1,231118-2

Signature of SSE/Bogie/QC



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11. TRACEABILITY OF FURNISHING ITEMS:

S NO	ITEM	MAKE/SUPPLIER	SERIAL NO
1.	Air Brake Module	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	M 18079 B
2.	Pull box	M/S- KBI FARIDABAD. NEW DELHI	
3.	Distribution valve	M/S- FAIVELY TRANSPORT TECH.INDIA LTD BADDI(HP)	18115558 B
4.	Foot Step	M/S- SUPER SPARK PVT.LTD.FARIDABAD	
5.	Decoupling arrangement	M/S- KOHINOOR KR MUMBAI	
6.	Floor board	M/S-TWPL INDS LTD MUMBAI	
7.	PVC	M/S -RASONSIR INDS	
8.	UIC Vestibule (PPE)	M/S- ELASTOMER LINING WORKS MUMBAI	
9.	UIC Vestibule (NPPE)	M/S- ELASTOMER LINING WORKS MUMBAI	
10.	Gangway bridge mounting (PPE)	M/S- HARE KRISHNA COACH PRODUCT, KXH	
11.	Gangway bridge mounting (NPPE)	M/S- HARE KRISHNA COACH PRODUCT, KXH	
12.	Body Side Window	M/S- BIRKAN ENG PVT GZB	
13.	Emergency Window	M/S- BIRKAN ENG PVT GZB	
14.	Lavatory/hopper Window	M/S- RAIL TECH, KXH	
15.	Roof Ceiling	M/S- - HINDUSTAN FIBRE & GLASS LTD. VADODARA	
16.	Door way /gang way ceiling	M/s- AMIRCHAND ENG WORKS. JALANDHAR	
17.	Supply Air Duct	M/S- AMIT ENG PKL	
18.	Partition panel	M/S- UNIVERSAL METAL TEK, NOIDA	
19.	Partition pillar	M/s- SIDHU INTERNATIONAL CO.ORG. KXH	
20.	Side Wall panel	M/S- HINDUSTAN FIBRE & GLASS LTD. VADODARA	
21.	AC Trough	M/S- MEENA FIBER GLASS IND. PUDUCHERY	
22.	Body Side Door 2 , 4	M/S- JBM INDUSTRIES, FARIDABAD	
23.	Body side Door 1 , 3	M/S- J.V.R INDUSTRIES LTD.LDH	
24.	Compartment Door (PPE)	M/S- KALSI FAB PVT. LTD. LDH	
25.	Compartment Door (NPPE)	M/S- KALSI FAB PVT. LTD. LDH	
26.	Vestibule Door(PPE)	M/S- JBM INDUSTRIES, FARIDABAD	
27.	Vestibule Door(NPPE)	M/S -JBM INDUSTRIES, FARIDABAD	
28.	Bio Tank	M/S- RAIL FAB KXH	
29.	Auxiliary Water Tank	M/s- AMIT ENGG, MOHALI	
30.	Under Slung Water Tank (2X685L)	M/s- AMIT ENGG, MOHALI	
31.	Under Slung Water Tank (1x450 L)	M/s- AMIT ENGG, BADDI	
32.	Flexible Faucet	M/S- ARHAM HI TECH DESIGN PVT LTD MUMBAI	
33.	Lotah Filler Tap	M/S- ARHAM HI TECH DESIGN PVT LTD MUMBAI	
34.	Bib cock	M/S- KPR INDUSTRIES MOHALI	
35.	Lavatory Modules	M/S- ARHAM HI TECH DESIGN PVT LTD MUMBAI	
36.	Lavatory Doors	M/S- ARHAM HI TECH DESIGN PVT LTD MUMBAI	
37.	Fire Extinguisher	M/S- TRADE FIRE ENG	PPE-0667, NPPE- 0609
38.	Seat & Berth	M/S- ORIENTAL VENEER PRODUCTS MUMBAI	
39.	Light Luggage Rack	M/S- TECHNO IND. ALD	
40.	Snack Table	M/s- INTERNATIONAL TRACTOR LTD. JALANDHAR	

Rajma
SSE/QC/MCF/RBL

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रेडिंक 10, रायबरेली (लालगंज)



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12. MODIFICATION (IF ANY) : NIL

13. DEVIATION (IF ANY) : NIL

14. ITEM FITTED ON THE COACH ON TRIAL : NIL

S NO	ITEM PARTICULARS	PURPOSE	REPORT Frequency	REFERENCE & PERIOD OF TRIAL

15. WARRANTY:

S NO	COMPONENTS	WARRANTY
1	Brake Pad, wheels, flushing valves, push gravity cocks, moldings, window glasses, mirrors, curtain clutch wire etc. (items which are consumable in nature)	NIL
2	Other coach furnishing sub assemblies(bought out items)	24 months from the date of dispatch of coach OR 30 months from the date of supply of material whichever is earlier.

NOTE:

- This warranty covers free supply of parts which wear out and fails within warranty period of normal service.
- This doesn't covers faults arising out of accident, non standard maintenance practices, abnormal use or mishandling, vandal activity, arson & deficient/pilferage etc.
- This doesn't cover any consequential liabilities or damages/loss incurred by anybody; furthermore, it shall in no case extend to repayment, return of the coach or replacement of complete coach.
- Whether a defective part is to be replaced or repaired shall be at the discretion of MCF/RBL.
- For any complain/ suggestion please Mail at qualityrcfrbl@gmail.com
- Painting on supply & apply contract :- supply of material and application shall be warranted for a period of three years from date of Application for any manufacturing /Application as per clause -4,para- V of RDSO specification no .M&C/PCN/100/2013-Given below -

S.No	Time period	Gloss Retention (initial gloss >85 unit at 60°)	Colour Retention rating on 0-10 scale (initial rating of painted panels/coach or ISC/RAL shade card shall be taken as 10)	Adherence of paints (with each other and with substrate)Cross-cut tape adhesion test as per ASTM D:3359/97(or latest)
1	After 1 year	80% of initial gloss	7	5B
2	After 2 year	70% of initial gloss	6	5B
3	After 3 year	60% of initial gloss	5	4B

If any imperfection is noticed or any defect arises during the warranty -period due to improper material used or due to bad workmanship, the contractor shall be bounded to set right the defect/ imperfection on free of cost basis at the base depot of the coach.

SSE/QC/MCF/RBL मुख्यवक्ता विभाग रेडि०का०, रायबरेली (लालगंज)	AME/QC/MCF/RBL सहायक अभियंता (गुणवत्ता) Assistant Mechanical Engineer / Quality आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli	Dy.CQM/MCF/RBL उप मुख्य रसायनज्ञ एवं धातुविद Dy. Chief Chemist & Metallurgist आधुनिक रेल डिब्बा कारखाना, रायबरेली Modern Coach Factory, Raebareli



Modern Coach Factory Raebareli
आधुनिक रेल डिब्बा कारखाना, रायबरेली

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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB/EOG AC COACHES			
TYPE COACH	LWACCN	SHELL/COACH NO	191371/C
RAILWAY	CR	DATE OF DESPATCH	
Sr no	Description of tests		Remarks
1.0	REFERENCE SPECIFICATION : L 446		
1.1	AIR CONDITIONING TEST : ELPS/TP/AC 01.		
1.2	CODE OF PRACTICE OF WIRING : ELPS/SPEC/EOG/AC-01		
2.0	INSULATION RESISTANCE : Setting of insulation monitoring relay at 30K ohms as per TD 111 of M/s LHB.		
	Observed status : HEALTHY		
3.0	AIR DELIVERY MEASUREMENT	OBSERVED VALUE	OK
3.1	Fresh Air	19.64 Cub mtr/min	OK
3.2	Return Air	75.88 Cub mtr/min	OK
3.3	Exhaust Air	7.15 Cub mtr/min	OK
3.4	Conditioned Air	172.29 Cub mtr/min	OK
4.0	PRE COOLING TEST: Max 01 hr. Time taken to pre cool from 45 deg centigrade to 24/22 deg C during OFF LOAD condition Not done due to Ambient temp. below 22°C		OK
5.0	PULL DOWN TEST: Max 02 hrs. Time taken to pull down from 45 deg C to 24/22 deg C during FULL LOAD condition. Not done due to Ambient temp. below 22°C		OK

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
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FOR ELECTRICAL ITEMS

ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

ELECTRICAL TEST CERTIFICATE FOR LHB EOG AC COACHES

Sr no	Description of test	Remarks
6.0	HUMIDITY CONTROL	OK
7.0	PUMP EQUIPMENTS	OK
8.0	WORKING OF EXHAUST FANS OVER LAVATORIES	OK
9.0	WORKING OF COMPOSITE PANTRY	OK
10.0	COMPARTMENT LIGHT	OK
11.0	PUBLIC ADDRESSING SYSTEM (PAS)	OK
12.0	WHEEL SLIDE PROTECTION SYSTEM (WSP)	OK
13.0	WORKING OF 60KVA TRANSFORMER	OK
14.0	WORKING OF REGULATED BATTERY CHARGER	OK
15.0	WORKING OF EMERGENCY BATTERY CHARGER	OK
16.0	SAFETIES :	
16.1	THERMOSTAT :	OK
16.2	ROTARY 07 SET POINTS (NORMAL CONDITION)	OK
16.3	MID SET POINTS (SENSORS FAILED CONDITIONS)	OK
16.4	HYGROSTAT	OK
16.5	CONTROL CIRCUIT	OK
16.6	POWER CIRCUIT	OK
17.0	REFRIGERANT USED R 407C	OK


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
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
01.	Roof mounted AC package unit for LHB AC coaches. Make : SSK Sr no of RMPU (NPP side): 711/18 Sr no of RMPU (PP side) : 710/18 Sr no of Microprocessor: AE 18.12.064	As per rdso/pe/spes/ac/0061/rev-1/2005	02
02.	Switch board cabinet Make : ISG Sr no : SBC-MCF-18-09-0209	RDSO/PE/SPEC/AC/0184-2015 REV-0	01
03.	Pump equipment with PLC controller & pump box Make : DR AUTO Sr no PA : 2018/12/176 Sr no.1 : 18110123 Sr no.2 : 18110451 Sr no.CPA : 2018/12/136-DR AUTO	As per spec EDTS 186,Rev-a, Am- 2	01
04.	Double inlet centrifugal blower 415V/03Ph /50Hz /120W/450 cum mtr/hr discharge for exhausting air from lavatory & switch board cabinet Make : INTEG	EDTS331, TYPE-1 CORR.-1&2	02
05.	Door way/Gangway Light Make : DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-N	07
06.	Provision of Passenger area light(Cabin) Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-L	09
07.	Corridor Light with Night light Make: DR AUTO	RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-M	09
08.	Emergency light system for EOG type coaches (AEL) Make : VGS	EDTS 151,Rev -c Am-1 & 2	04
09.	Lavatory light fitting assly Make : ARHAM	LW 76001,Alt nil	04
10.	Toilet indication (WC) light, Make: DR AUTO	As per RDSO/PE/SPEC/TL/0091-2016,REV-01, TYPE-H1	04
11.	Passenger alarm coach indication light Make : DR AUTO	LW 76005,Alt-e	02


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
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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
12.	Razor socket for WC 110/240V. Make : SSK	EDML 047,Rev nil	04
13.	Terminal strip Make : WAGO	EDML 034,Rev-a	01
14.	Terminal connector Make : WAGO	EDML 037,Rev`a`	04
15.	Single switch 06A/250V/AC ONE WAY ,complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 04.	09
16.	Single switch 06A/250V/AC ONE WAY complete with steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item 05.	09
17.	Provision of switch socket combined 5PIN (06A, 250V AC) along with 1A glass fuse fitted powder coated steel plate & cover frame Make : SSK	EDML 0,64,Rev-B, Item -16.	09
18.	PA system for LHB coaches Make : AHUJA	EDTS 173,Rev- a Am- 1,2&3	01 set
19.	70AH/110V,54 Cells,02V each ,maintenance free pure lead acid tin monoblock ,battery set with 09 modules 12V each. , factory pre charged. Make : AMARA RAJA Lug date : 11/18	EDTS 129,Rev nil	01 set
20.	Battery box for LHB coaches. Make : HITECH	1 10113 0 76 700 005 w/o item 5,22 ,23 ,26 & 27.	01
21.	Battery fuse box +ve Make : INTEG	As per LW 71001,Alt- F	01
22.	Battery fuse box -ve Make : NEC	As per LW 71002,Alt- F	01


Senior Section Engineer
Quality control / Electrical
Modern Coach Factory Raebareli



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आधुनिक रेल डिब्बा कारखाना, रायबरेली

DOC NO.: MCF/RBL/QEF/8001

REV NO: 00

DATE:18.01.2017

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ROLLING STOCK CERTIFICATE OF LHB/EOG AC COACHES

Sr no	Description	Drg/Spec no.	Quantity per Coach
23.	Emergency battery charger Make : BHASIN Sr no: 10181799 Make : BHASIN Sr no: 10181724	EDTS 163,Rev `c' corg.-2&3	02
24.	Provision of 5KVA TFR Make : VIMAL SL.no : VTC 3089 LHB-955	As Per EDTS-366,REV-NIL & CC-71510	01
25.	Provision of capacitor Bank Make : S.INTERNATIONAL SL.no : 445-07/18	As per EDML-130 Rev-1,Corr-1	01
26.	60KVA transformer Make : VIMAL Sr no : VTC 3089 LHB-6660	As per rdso/pe/spec/ac/0080/rev-0 (2007)/Am-1&2/Corr. 1,2&3	01
27.	Inter Vehicle (ZS)coupler Make: MAA LAXMI INDUSTRIES	As per RDSO PE SPEC-0177-2013 REV-0	01 set
28.	Feeder junction boxes. Make : AECO	EDTS-328 REV-C	01 set
29.	Wheel set earthling equipment. Make : MAA LAXMI INDUSTRIES	EDTS101,REV-C,AM-1	02 sets
30.	Wheel Slide Protection System (WSP) Make : FAIVELEY Sr no : 28-18-1174	M/s : FAIVELEY	01 set
31.	PANTRY EQUIPMENTS : Hot Case & Bottle cooler cum deep freezer Make : NIL	As per EDTS -139, Rev- E ,Sec II.	01

SSE/EL/QC	SEE(P)/MCF/RBL/ DYCEE/P&P/MCF/RBL

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