GOVERNMENT OF INDIA/ BHARAT SARKAR
MINISTRY OF RAILWAYS/ RAIL MANTRALAYA
(RAILWAY BOARD)

No.2019/RS(B)/60/3 **New Delhi, dated: 28-01-2020.**

General Managers (Budget),
Central, Eastern, Northern, North Eastern, Northeast Frontier,
Southern, South Central, South Eastern, Western, East Central, East Coast, North Central, North Western, Southeast Central, South Western and West Central Railways.

General Managers (Mech.)
Central, Eastern, Northern, North Eastern, Northeast Frontier,
Southern, South Central, South Eastern, Western, East Central, East Coast, North Central, North Western, Southeast Central, South Western and West Central Railways.

Sub: Revised Estimate - Demand No.82 Ministry Of Railways: Assets - Acquisition, Construction and Replacement for 2019-20 (Below 2.5 Crs.)

Statement showing provisions which have been included in the Revised Estimate of each Railway in respect of Bulk Order Items of Rolling Stock costing below ₹ 2.5 crs. for the year 2019-20 are sent here with for information and necessary action.

DA: As above

(K.C.N. Menon)
Dy. Director, Rly.Stores(Budget)
Railway Board.

No.2019/RS(B)/60/3 **New Delhi, dated: 28-01-2020.**

Copy forwarded to:

1. FA&CAOs, Central, Eastern, Northern, North Eastern, Northeast Frontier, Southern, South Central, South Eastern, Western, East Central, East Coast, North Central, NorthWestern, Southeast Central, South Western and West Central Railways, Chittaranjan Locomotive Works, Diesel Locomotive Works, Integral Coach Factory, Rail Wheel Factory, Rail Coach Factory and Diesel Loco Modernization Works.
2. General Managers, Chittaranjan Locomotive Works, Diesel Locomotive Works, Integral Coach Factory, Rail Wheel Factory, Rail Coach Factory and Diesel Loco Modernization Works.
3. S.A.O.(Bulk Order), Railway Board.
4. Budget Branch, Railway Board.

(K.C.N. Menon)
Dy. Director, Rly.Stores(Budget)
Railway Board

(Figures in thousands of rupees)

Item No.	Particulars of Works	Allocation	Sanctioned Cost	Outlay Proposed for 2019-20
	A - PROGRAMMED DELIVERIES			
	Locomotives			
1	5 TG/Alternater for WDM-2 locos (DSL) ex.DLW @ Rs.15 lakhs each apprx (48/97-98, 100/8-9 WB16/7-8, 109/13-14, 116/14-15, 2/15-16,2/16-17, 2/17-18, 1/18-19)	Cap. EBR(IRFC)	1,90,00 5,00	1
2	3 Nos NG Rail Cars for Kalka - Shimla Section Rs. 37.5 lakhs each (6/97-98, WB17/7-8 22/8-9, 57/13-14, 63/14-15, 3/15-16,3/16-17, 3/17-18, 2/18-19)	RRSK	1,12,50	5008
3	4 NG Rail Buses (304/97-98, 1& 31/3-4, 71/5-6&69/6-7 WB27/7-8 23/8-9, 58/13-14, 64/14-15, 5/15-16,5/16-17, 5/17-18, 4/18-19)	Cap. EBR(IRFC)	1,50,00 50,00	.. 1
4	Procurement of one oil fired loco boilder for X class steam loco in Nilgiri Mountain Rlys Rs.50 lakhs (138/00-01, WB15/7-8, 116/13-14), 123/14-15, 8/15-16,8/16-17, 8/17-18, 6/18-19)	RRSK	50,00	1
5	Rehab. of 4 NG steam locos for Neral Matheran and Darjeeling - Himalayan Rly Rs. 50 lacs (462/02-03, WB30/7-8 , 59/13-14, 65/14-15, 18/15-16,16/16-17, 12/17-18 ,8/18-19)	RRSK	2,00,00	1
6	Procurement of 2 NG Rail cars for Kalka - Shimla section @ Rs. 75 lacs (463/02-03, WB31/7-8 , 60/13-14, 66/14-15, 19/15-16,17/16-17, 13/17-18 ,9/18-19)	RRSK	1,50,00	1
7	3 MTA for shunting dsl llocos ex.DLW @ Rs. 79 lakhs each consisting of bogie frame , TM & w/sets (467/02-03, 87/8-9 WB33/7-8, 100/13-14, 107/14-15, 21/15-16,19/16-17, 15/17-18, 11/18-19)	EBR(IRFC) Cap.	1,37,00 1,00,00	1
8	Prov.of LED based flsh. lgt on 1000 Mainline DSL locos @ Rs.12000 (486/03-04 , 76/8-9 WB37/7-8, 95/13-14, 102/14-15, 23/15-16,21/16-17, 16/17-18,12/18-19)	EBR(IRFC) Cap.	20,00 1,00,00	1 9000
9	Electronic Fuel Injection Unit for 10 Dsl locos @ Rs.20 lacs / loco (495/03-04, 109/8-9 WB40/7-8, 118/9-10, 118/13-14, 126/14-15, 25/15-16,22/16-17, 17/17-18,13/18-19)	EBR(IRFC) Cap.	1,00,00 1,00,00	1
10	2 MTAs for WDM3C Dsl Locos Ex.DLW Rs.79 lakhs consisting of Bogie frame TM & W/Sets (492/03-04 , 88/8-9, 101/13-14, 108/14-15, 27/15-16,24/16-17, 19/17-18,14/18-19)	EBR(IRFC) Cap.	58,00 1,00,00	.. 1
11	5 Nos. TM Hitachi for elect locos Rs. 22 lacs ex.CLW (611/5-6 45/8-9, 71/13-14, 77/14-15, 40/15-16,31/16-17, 25/17-18,15/18-19)	RRSK	1,10,00	1
12	10 Nos. w/sets Rs. 8 lacs ex. CLW (614/5-6 &191/6-7, 86/13-14, 93/14-15, 41/15-16,32/16-17, 26/17-18, 16/18-19)	RRSK EBR(IRFC)	40,00 40,00	3240
13	9 Nos. TM stator Rs. 10 lacs ex CLW (615/5-6 46/8-9 WB71/7-8, 72/13-14, 78/14-15, 42/15-16,33/16-17, 27/17-18,17/18-19)	EBR(IRFC)	90,00	1
14	2 Nos. Traction converter Bus Station Rs. 43 lacs ex. CLW(617/5-6 &194/6-7 WB73/7-8, 87/13-14, 94/14-15, 43/15-16,34/16-17, 28/17-18,18/18-19)	RRSK	86,00	1
15	4 Nos. valve set Rs. 37 lacs ex. CLW(618/5-6 &195/6-7, 88/13-14, 95/14-15, 44/15-16,35/16-17, 29/17-18,19/18-19)	RRSK	1,48,00	1
16	6 Nos. Transformer HETT-5400 for elect. locos Rs. 24 lacs each ex. CLW(664/6-7 WB85/7-8 56/8-9, 77/13-14, 84/14-15, 49/15-16,38/16-17, 30/17-18,20/18-19)	EBR(IRFC)	1,44,00	1
17	10 Nos. wheelset Rs. 8 lacs per ex CLW(667/6-7 WB88/7-8 17/8-9, 52/13-14, 58/14-15, 52/15-16,41/16-17, 31/17-18,21/18-19)	Cap.	80,00	2850
18	9 Nos. TM stator Rs. 10 lacs per unit ex. CLW(668/6-7, 74/13-14, 80/14-15, 53/15-16,42/16-17, 32/17-18,22/18-19)	EBR(IRFC)	90,00	1
19	2 Nos. Traction Convertor Bus Station Rs. 43 lacs each ex CLW (672/6-7, 53/13-14, 59/14-15, 54/15-16,43/16-17, 33/17-18,23/18-19)	RRSK	86,00	1
20	4 Nos. Valve set Rs. 37 lacs per unit ex CLW(673/6-7 , 54/13-14, 60/14-15, 55/15-16,44/16-17, 34/17-18,24/18-19)	RRSK	1,48,00	1
21	Transformer HETT-5400 for electric locos (7 Nos) @ Rs.25 lakh each ex. CLW WB 127/7-8 16/8-9, 56/13-14, 62/14-15, 57/15-16,46/16-17, 36/17-18,25/18-19)	RRSK	1,75,00	1
22	TG/TA for WDG/WDM locos ex. DLW (16 Nos) Rs. 30 lacs.WB 130/7-8 104/8-9, 115/13-14, 122/14-15, 60/15-16 ,49/16-17, 37/17-18,26/18-19)	EBR(IRFC) RRSK DRF RRSK	10,00 70,00 10,00 2,40,00	, .. 10000 10000
23	PCB cards for traction converter, aux. converter control electronics (120 Nos) @ Rs.2 lakh WB136/7-8 , 28/13-14, 31/14-15, 64/15-16,53/16-17, 39/17-18,27/18-19)	RRSK	2,00,00	1
24	Complete rehab.of 1 BG loco Rs. 2 Cr. (148/8-9, 9/11-12, 21/13-14, 22/14-15, 65/15-16,54/16-17, 40/17-18,28/18-19)			

(Figures in thousands of rupees)

Item No.	Particulars of Works	Allocation	Sanctioned Cost	Outlay Proposed for 2019-20
	A - PROGRAMMED DELIVERIES			
25	Manufacture of 15 live steam locos to 1:8 scale Rs.15 lacs through trade (149/8-9 WB9/9-10, 17/12-13, 22/13-14, 23/14-15, 66/15-16,55/16-17, 41/17-18, 29/18-19)	RRSK	2,25,00	1
26	8 Nos. bogie frame for three ph. locos Rs. 18 lacs (WB152/8-9, 89/13-14, 96/14-15, 69/15-16,58/16-17, 42/17-18, 30/18-19)	RRSK	1,44,00	1
27	10 Nos. compressor with motor for 3 ph. locos Rs.4 lacs WB153/8-9, 90/13-14, 97/14-15, 70/15-16,59/16-17, 43/17-18, 31/18-19)	EBR(IRFC)	40,00	1
28	5 Nos.E-70 unit panel with valves for 3 ph. Locos Rs.28 lacs (WB154/8-9, 91/13-14, 98/14-15, 71/15-16,60/16-17, 44/17-18, 32/18-19)	RRSK	1,40,00	1
29	7 Air Brk.Pneumatic valves and CRU cards Rs.23 lacs 158/8-9, 122/9-10, 119/13-14, 127/14-15, 74/15-16,63/16-17, 45/17-18, 33/18-19)	RRSK	1,61,00	1
30	7 radiator fan with motor Rs.7.5 lacs 160/8-9, 124/9-10, 121/13-14, 129/14-15, 76/15-16,65/16-17, 47/17-18, 35/18-19)	RRSK	52,50	1
31	7 air compressor Rs.5.2 lacs 161/8-9, 125/9-10, 122/13-14, 130/14-15, 77/15-16,66/16-17, 48/17-18, 36/18-19)	RRSK	36,40	1
32	Provsn of LCD displace alongwith modified controled stand on 50 loco motives Rs.3.5 lacs(177/9-10, 128/13-14, 136/14-15, 83/15-16,72/16-17, 54/17-18, 39/18-19)	EBR(IRFC) Cap.	75,00 1,00,00	1
33	20 bogies for WAG-9/WAP-7 Rs.8.5 lacs(178/9-10, 134/10-11, 129/13-14, 137/14-15, 84/15-16,73/16-17, 55/17-18, 40/18-19)	RRSK EBR(IRFC)	70,00 1,00,00	1620
34	39 Nos. w/sets for conventional locos ex CLW/BHEL Rs.6 lacs each(184/9-10, WB137/10-11 , 131/13-14, 139/14-15, 88/15-16,77/16-17, 56/17-18, 41/18-19)	EBR(IRFC)	2,34,00	1
35	56 Nos. TM rotor Rs. 4 lac per unit(185/9-10, WB138/10-11, 132/13-14, 140/14-15, 89/15-16,78/16-17, 57/17-18, 42/18-19)	EBR(IRFC) Cap.	1,24,00 1,00,00	1 2800
36	8 No. Bogie frame for 3 Ph loco Rs.23 lac per unit(186/9-10), WB139/10-11, 133/13-14, 141/14-15, 90/15-16,,79/16-17, 58/17-18, 43/18-19)	EBR(IRFC)	1,84,00	1
37	3 Nos. E-70 break system unit panel with valve Rs. 37 lacs per unit(187/9-10, WB140/10-11, 134/13-14, 142/14-15, 91/15-16,80/16-17, 59/17-18, 44/18-19)	RRSK	1,11,00	1
38	7 Air compressor Rs. 5.2 lac each(196/9-10,WB147/10-11 163/11-12, 1, 135/13-14, 143/14-15, 92/15-16,81/16-17, 60/17-18, 45/18-19)	RRSK	36,40	1
39	Provn of ACES with APU for 20 ALCO locos Rs.10 lac(WB215/10-11 50/11-12, 67/13-14, 73/14-15, 97/15-16,84/16-17, 63/17-18, 46/18-19)	RRSK	2,00,00	13106
40	40 w/sets Rs.5.5 lakhs(WB212/10-11 26/11-12, 30/12-13, 31/13-14, 34/14-15, 101/15-16,86/16-17, 65/17-18, 48/18-19)	RRSK	2,20,00	13106
41	9 Nos. Bogie frame for WAP5 3 ph locos Rs.16.5 lacs per unit(WB 204/10-11 11/11-12, 24/13-14, 24/14-15, 103/15-16,88/16-17, 67/17-18, 50/18-19)	Cap.	1,48,50	7392
42	GOLD(guidance for optimized loco Driving) for 20 locos Rs. 5.5 lacs (WB 216/10-11, 2/13-14, 2/14-15, 105/15-16,90/16-17, 69/17-18, 51/18-19)	Cap. EBR(IRFC)	1,00,00 10,00	.. 1
43	Procurement of new Boiler for Fairy Queen WB(238/11-12, 10/12-13, 12/13-14, 13/14-15, 110/15-16,93/16-17, 72/17-18, 53/18-19)	RRSK	43,00	1
44	Rehabiltation of 20 PCB cards for 3 ph. electric locos Rs.9 lacs WB (239/11-12, 33/12-13, 33/13-14, 36/14-15, 111/15-16,94/16-17, 73/17-18, 54/18-19)	EBR(IRFC) RRSK	1,30,00 50,00	.. 1
45	50 Bolster for WAP4/WAP1 electric locos Rs.4 lacsWB (240/11-12, 34/12-13, 34/13-14, 37/14-15, 112/15-16,95/16-17, 74/17-18, 55/18-19)	RRSK DRF	1,90,00 10,00	1 ..
46	1000 sets of gapless surge arrestor Rs.0.22 lacs WB(241/11-12, 35/12-13, 35/13-14, 38/14-15, 113/15-16,96/16-17, 75/17-18, 56/18-19)	EBR(IRFC) Cap.	1,00,00 1,20,00	8200
47	Rehabilitation of 50 TM rotors for 3 ph.electric locos Rs. 4 lacs WB(243/11-12, 37/12-13, 36/13-14, 39/14-15, 114/15-16,97/16-17, 76/17-18, 57/18-19)	RRSK EBR(IRFC)	1,00,00 79,99	3255 1
48	Provision of 50 sets DC link voltage sensor modules for power converters of 3 ph.locos Rs.4 lacs per loco WB (242/11-12, 11/12-13, 13/13-14, 14/14-15, 115/15-16,98/16-17, 77/17-18, 58/18-19)	DRF RRSK	1,90,00 10,00	.. 1

(Figures in thousands of rupees)

Item No.	Particulars of Works	Allocation	Sanctioned Cost	Outlay Proposed for 2019-20
	A - PROGRAMMED DELIVERIES			
49	VCDs on 282 nos. locos Rs.65000/- per locos	Cap.	1,33,30	1
	(242/12-13, 14/13-14, 15/14-15, 117/15-16,100/16-17, 79/17-18, 60/18-19)	EBR(IRFC)	50,00	..
50	20 Sets of mandatory spares for static invertors	Cap.	1,25,00	1
	of AC/DC locos Rs.8 lacs(244/12-13, 37/13-14,	EBR(IRFC)	35,00	
	40/14-15, 120/15-16,102/16-17, 81/17-18, 61/18-19)			
51	04 nos. bogie frame for WAP7/WAG9 3 ph. Locos Rs.27 lac each	Cap.	1,00,00	810
	WB(245/12-13, 38/13-14, 41/14-15, 121/15-16,103/16-17, 82/17-18, 62/18-19)	EBR(IRFC)	8,00	1
52	02 Nos. bogie frame with brake rigging for WAP5 3	Cap.	30,00	4443
	ph.locos Rs.16.5 lacs WB(246/12-13, 39/13-14,	EBR(IRFC)	3,00	1
	42/14-15, 122/15-16,104/16-17, 83/17-18, 63/18-19)			
53	24 Nos. wheel sets for WAP7/WAP9 3 ph.locos Rs.9.0 lac per unit.WB	Cap.	1,79,00	3200
	(247/12-13, 40/13-14, 43/14-15, 123/15-16,105/16-17, 84/17-18, 64/18-19)	EBR(IRFC)	37,00	
54	6 Nos. wheel sets for WAP5 three ph.locos Rs.9.0 lac each	Cap.	40,72	1
	WB(248/12-13, 41/13-14, 44/14-15, 124/15-16,106/16-17, 85/17-18, 65/18-19)	EBR(IRFC)	13,28	
55	12 Nos. TM stators for WAP7/WAG9 3 ph.locos Rs.10 lacs per unit	Cap.	20,00	..
	WB(249/12-13, 42/13-14, 45/14-15, 125/15-16,107/16-17, 86/17-18, 66/18-19)	EBR(IRFC)	1,00,00	1
56	3 Nos. TM stators for WAP5 electric locos Rs.10 lacs each	Cap.	25,00	1957
	WB(250/12-13, 43/13-14, 46/14-15, 126/15-16,108/16-17, 87/17-18, 67/18-19)	EBR(IRFC)	5,00	1
57	12 Nos. rotor for three ph. locos Rs.6.5 lacs per unit WB	Cap.	70,00	..
	(251/12-13, 44/13-14, 47/14-15, 127/15-16,109/16-17, 88/17-18, 68/18-19)	EBR(IRFC)	8,00	1
58	6 Nos. valve sets ZV+MV Rs.12.5 lacs per unit	Cap.	60,32	..
	WB(252/12-13, 45/13-14, 48/14-15, 128/15-16,110/16-17, 89/17-18, 69/18-19)	EBR(IRFC)	14,68	1
59	2 sets Control Electronics (loco set) control,conv.&Aux.converter	Cap.	67,00	3540
	Rs.34.5 lacs per set WB(253/12-13, 46/13-14, 49/14-15,	EBR(IRFC)	2,00	
	129/15-16,111/16-17, 90/17-18, 70/18-19)			
60	03 Nos.E-70 brake system unit panel with valve	Cap.	90,00	..
	Rs.32 lac per unit WB(254/12-13, 47/13-14,	EBR(IRFC)	6,00	1
	50/14-15, 130/15-16,112/16-17, 91/17-18, 71/18-19)			
61	"27 Nos. wheelsets with the axle box for WAP4/WAG7	Cap.	1,19,00	1300
	locos Rs.6.6 lacs each"(192(a)/12-13, 23/13-14,	EBR(IRFC)	59,20	
	54/14-15, 134/15-16,115/16-17, 94/17-18, 74/18-19)			
62	"Design and development of an Integrated	DF(1)	1,00,00	1
	Locomotive Driver Warning System for preventing			
	Elephant Collisions(Phase-1)" (192(b)/12-13,			
	16/13-14, 17/14-15, 135/15-16,116/16-17, 95/17-18, 75/18-19)			
63	6 Nos. wheel sets with axle box for WAG-9/WAP-7 3	Cap.	10,22	..
	Ph. electric locos Rs.9.0 lacs each WB(204/13-14,	EBR(IRFC)	43,77	1
	25/14-15, 137/15-16,118/16-17, 97/17-18, 76/18-19)			
64	4 Nos. wheel sets with axle box for WAP-5 3	Cap.	80,00	..
	ph.electric locos Rs.29.0 lacs each WB(205/13-14,	EBR(IRFC)	36,00	1
	26/14-15, 138/15-16,119/16-17, 98/17-18, 77/18-19)			
65	8 Nos. Traction motors 6 FRA 6068 for WAG9/WAP7 3 ph.locos Rs.28.7 lacs	Cap.	2,20,00	..
	eachWB(207/13-14, 83/14-15, 139/15-16,120/16-17, 99/17-18, 78/18-19)	EBR(IRFC)	9,60	1
66	04 Bogie frame with brk.rigging for WAP-5 3 ph	Cap.	2,00,00	..
	electric locos Rs.5.17 lacs each WB(206/13-14,	EBR(IRFC)	6,80	1
	27/14-15, 140/15-16,121/16-17, 100/17-18, 79/18-19)			
67	Design and development of a Integrated Locomotive	DF(1)	1,00,00	1
	Driver Warning system for preventing Elephant Collisions(			
	Ph-1) (WB150a/13-14, 125/14-15, 141/15-16,122/16-17, 101/17-18, 80/18-19)			
68	Conversion of 10 Alco locomotive to Common Rail	Cap.	2,00,00	1
	Direct injection (CRDI) system Rs.22	EBR(IRFC)	20,00	..
	lacs(212/14 15, 143/15-16,124/16-17, 103/17-18, 81/18-19)			
69	50 Nos. 30 KW Oil cooling blower unit complete with casing and	EBR(IRFC)	1,80,00	1
	blower Rs.3.6 lacs(219/14-15, 146/15-16,127/16-17, 106/17-18, 82/18-19)			
70	5 Traction Motors 6 FXA 7059 for WAP-5 3 ph.locos	RRSK	1,40,00	1
	Rs.27 lacs(214/14-15, 147/15-16,128/16-17, 107/17-18, 83/18-19)			
71	10 Bogie frames with brake rigging for WAG-9/WAP-7	RRSK	50,00	2420
	3 ph. Rs.10 lacs(215/14-15, 148/15-16,129/16-17, 108/17-18, 84/18-19)	EBR(IRFC)	50,00	
72	2 Bogies with disc brake arrangement for WAP-5 3	Cap.	1,20,00	8886
	Ph.locos Rs.60 lacs(216/14-15, 149/15-16,130/16-17, 109/17-18, 85/18-19)			
73	10 Bogies with brake rigging for WAG-7 conventional locos	Cap.	1,00,00	1200
	Rs.10 lacs(220/14-15, 150/15-16,131/16-17, 110/17-18, 86/18-19)			
74	10 Wheelsets with axle box for WAP-5 3ph. electric	EBR(IRFC)	1,00,00	1
	locos Rs. 29 lacs(217/14-15, 151/15-16,132/16-17, 111/17-18, 87/18-19)	RRSK	1,90,00	893
75	1 TG/TA for WDM3C Diesel Locos Ex DLW @ Rs.26	Cap.	20,00	1
	lakhs WB160/10-11, 145/13-14, 153/15-16,134/16-17, 112/17-18, 88/18-19)	EBR(IRFC)	6,00	..

(Figures in thousands of rupees)

Item No.	Particulars of Works	Allocation	Sanctioned Cost	Outlay Proposed for 2019-20
	A - PROGRAMMED DELIVERIES			
76	7 DB grid fan with motor Rs.4.2 lacs 171/8-9, 141/9-10, WB164/10-11, 149/13-14, 161/15-16,141/16-17, 117/17-18, 91/18-19)	RRSK	29,40	1
77	3 Nos. TM rotors for WAP5 electric locos Rs.6.5 lacs WB(258/12-13, 138/13-14, 165/15-16,143/16-17, 118/17-18, 92/18-19)	EBR(IRFC)	9,50	1
		Cap.	10,00	..
78	Oil cooling blower unit with casing (30 KV)-50 nos. Rs.3.5 lacs(225/15-16,144/16-17, 119/17-18, 93/18-19)	EBR(IRFC)	1,75,00	1
79	Bogie frame with mod.brake rigging for WAG9-10 Nos. Rs.10 lacs(226/15-16,145/16-17, 120/17-18, 94/18-19)	Cap.	1,00,00	15750
80	Bogie with brake rigging for WAG7 locos-20 nos. Rs.10 lacs(227/15-16,146/16-17, 121/17-18, 95/18-19)	Cap.	2,00,00	220
81	Single bottle vacuum circuit breakers-50 nos. Rs.2.9 lacs(228/15-16,147/16-17, 122/17-18, 96/18-19)	Cap.	1,45,00	76
82	Set of Aux. Converter bus stations comprising of BUR-1,2 & 3 Units-8 Units @ Rs.27 lakhs(209/16-17, 124/17-18, 98/18-19)	RRSK	2,16,00	21600
83	Fabricated bolsters for WAP4/WAP1 locos-50 Nos. @ Rs.4.5 lakhs(210/16-17, 125/17-18, 99/18-19)	Cap.	2,25,00	7097
84	Oil cooling blower unit with casing (30 KW)-50 Nos.	DRF	90,00	..
	@ Rs.3.5 lakhs(211/16-17, 126/17-18, 100/18-19)	RRSK	85,00	1
85	Bogie frame with Brake rigging for WAG9-15 Nos.	DRF	75	..
	@ Rs.15.25 lakhs(212/16-17, 127/17-18, 101/18-19)	RRSK	2,28,00	18000
86	Bogie frame with mod. Brake rigging for WAP-7 locos -5 Nos. @	DRF	5,00	..
	Rs.19 lakhs(213/16-17, 128/17-18, 102/18-19)	RRSK	90,00	1900
87	Brake control system for three phase locos-5 sets	EBR(IRFC)	50	1
	@ Rs.36.5 lakhs(214/16-17, 129/17-18, 103/18-19)	Cap.	1,82,00	
88	TSC for HHP locos – 5Nos @ Rs 40.2 lakhs (193/17-18, 104/18-19)	Cap.	2,01,00	9980
89	Works costing below rupees 5 lakh each(166/15-16, 130/17-18, 105/18-19)	DF(1)	36,94,77	1
90	Microprocessor based electronic speed cum energy monitoring system for 50 conventional locomotives @ Rs.2.43 lakhs(170/18-19)	RRSK	1,21,50	12405
91	Vigillance Control Unit (VCD) complete for 100 Conventional Locomotives @ Rs.1.27 lakhs(171/18-19)	RRSK	1,27,00	14000
92	Bogie frame with brake rigging for WAG-9 3-ph locomotives - 10 nos. @ Rs.19.72 lakhs(172/18-19)	RRSK	1,97,20	12425
93	Bogie frame with brake rigging for WAP-7 locomotives -10 nos. @ Rs.20.1 lakhs(173/18-19)	RRSK	2,01,00	12425
94	Fabricated Bolster for WAP-4/WAP-7 locomotives -50 Nos. at Rs.3.88 lakhs (174/18-19)	RRSK	1,94,00	19145
95	Oil Cooling Blower (OCB) unit complete with casing and blower for 3-ph electric locomotives - 25 Nos.@ Rs.2.53 lakhs(175/18-19)	RRSK	63,25	6800
96	Oil cooling radiator for Transformer and traction converter - 50 nos.@ Rs.5.56 lakhs(176/18-19)	RRSK	1,11,20	1
97	Primary Voltage Transformer - 20 nos. @ Rs.3.72 lakhs(177/18-19)	RRSK	74,40	4320
98	High speed pantograph AM-92 - 50 nos. @ Rs.95000 (177/18-19)	RRSK	47,50	3000
	Total-Locomotives	Cap.	..	88710
		DRF	..	0
		DF(1)	..	3
		EBR(IRFC)	..	28
		RRSK	..	188694
	Carriages			
99	20 Pantry cars Rs. 11 lacs ex. RCF (446/88-89 282/91-92 182/93-94, 125/8-9 WB98/7-8, 158/13-14, 166/14-15, 167/15-16,149/16-17, 131/17-18,106/18-19)	EBR(IRFC)	2,20,00	1
100	10 BG Shell for special stock Rs. 5 lacs ex. ICF/Import 264/91-92 132/8-9 WB99/7-8, 166/13-14, 174/14-15 168/15-16,150/16-17, 132/17-18,107/18-19)	RRSK	50,00	1
101	3 BG AC Ist class chair car with air brk. and high speed Rs. 70 lacs ex. RCF(432/93-94 , 123/8-9 WB100/7-8, 157/13-14, 165/14-15 ,169/15-16,151/16-17, 133/17-18,108/18-19)	EBR(IRFC)	10,00	
		Cap.	2,00,00	1
102	1 No. HOGAC 2/3 tier with air brk. Rs. 65 lacs ex. RCF (188/98-99, 118/8-9 WB101/7-8, 152/13-14, 160/14-15 ,170/15-16,152/16-17, 134/17-18,109/18-19)	EBR(IRFC)	5,00	
		Cap.	60,00	1
103	1 No. HOG II Cl. ACCC with air brks Rs. 80 lacs (189/98-99, 226/5-6 &262/6-7 WB102/7-8, 155/13-14, 163/14-15 ,171/15-16,153/16-17, 135/17-18,110/18-19)	EBR(IRFC)	17,00	
		Cap.	1,00,00	1
104	2 Nos. high speed II AC chair car with guard's cubicle Rs97 lacs ex. RCF (146/99-00, 122/8-9 WB103/7-8, 156/13-14, 164/14-15 ,172/15-16,154/16-17, 136/17-18,111/18-19)	Cap.	1,00,00	..
		EBR(IRFC)	94,00	1
105	1 HOG IInd AC CC with air brake (189/98-99,127/8-9 WB104/7-8, 151/9-10, 161/13-14, 169/14-15,173/15-16,155/16-17, 137/17-18,112/18-19)	EBR(IRFC)	17,00	1
		Cap.	1,00,00	..
106	3 Nos. RDSO staff car with air bk Rs. 50 lacs ex ICF (539/4-5, 128/8-9 WB105/7-8, 162/13-14, 170/14-15,174/15-16,156/16-17, 138/17-18,113/18-19)	EBR(IRFC)	1,50,00	1

(Figures in thousands of rupees)

Item No.	Particulars of Works	Allocation	Sanctioned Cost	Outlay Proposed for 2019-20
	A - PROGRAMMED DELIVERIES			
107	Provn of emergency lights in 1000 coaches Rs.10000 each (559/4-5, 358/5-6 & 384/6-7 WB106/7-8, 167/13-14, 175/14-15,175/15-16,157/16-17, 139/17-18,114/18-19)	RRSK	1,00,00	1
108	750 V single ph to 750 V 3 ph. 500 KVA static generator in WLRRM Rs. 1.5 cr (562/4-5, 134/8-9 WB107/7-8, 168/13-14, 176/14-15,176/15-16,158/16-17, 140/17-18,115/18-19)	RRSK	1,50,00	1
109	3 Nos. RDSO staff car with air bk Rs. 55 lacs ex ICF(631/5-6 &396/6-7 WB108/7-8 , 160/13-14, 168/14-15,177/15-16,159/16-17, 141/17-18,116/18-19)	Cap. EBR(IRFC)	1,00,00 65,00	.. 1
110	Retrofitment of enhanced capacity screw coupling on 500 coaches Rs.35000(655/5-6 &420/6-7 WB109/7-8, 130/8-9, 165/13-14, 173/14-15,178/15-16,160/16-17, 142/17-18,117/18-19)	RRSK	1,75,00	1
111	1 No. AC Inspection Carriage with air brk.@ Rs. 105 lacs ex. ICF(683/6-7 WB110/7-8, 119/8-9, 153/13-14, 161/14-15,179/15-16,161/16-17, 143/17-18,118/18-19)	EBR(IRFC) Cap.	5,00 1,00,00	1 ..
112	1 No. Inspection Carriage with air brk. @ Rs. 55 lacs(684/6-7 WB111/7-8 120/8-9, 154/13-14, 162/14-15,180/15-16,162/16-17, 144/17-18,119/18-19)	Cap. EBR(IRFC)	50,00 5,00	.. 1
113	Coversion of MG coaches into ART/ARME 20 Nos@ Rs.11 lacs(707/6-7, WB 112/7-8 , 164/13-14, 172/14-15 ,181/15-16,163/16-17, 145/17-18,120/18-19)	RRSK	2,20,00	1
114	Conversion of Pantry cars 15 Nos. into composite Pantry-cum-sleeper Coach WB138/7-8 124/8-9, 159/13-14, 167/14-15 ,182/15-16,164/16-17, 146/17-18,121/18-19)	RRSK	2,25,00	1
115	Manufacture of one additional bare shell for gym-cum-spa for Karnataka STDC ex. ICF(corrigen.112a/7-8 131/8-9, WB183/10-11, 169/13-14, 177/14-15 ,183/15-16,165/16-17, 147/17-18,122/18-19)	Cap EBR(IRFC)	45,00 5,00	1 1
116	Procurement and fitment of EP brk.system on ICF and LHB coaches-100 no.Rs. 1 lac 172/8-9, 159/9-10 170/13-14, 178/14-15 ,184/15-16,166/16-17, 148/17-18,123/18-19)	Cap. EBR(IRFC)	98,00 2,00	.. 1
117	Provision of microprocessor controlled LED based destination Boards on 500 coaches Rs.40 000/- (173/8-9 , 171/13-14, 179/14-15 ,185/15-16,167/16-17, 149/17-18,124/18-19)	RRSK	2,00,00	1
118	Restoration of 1 BG, 3MG & 1 NG Vintage coaches Rs. 15 lacs 174/8-9, 161/9-10WB186/10-11, 172/13-14, 180/14-15 ,186/15-16,168/16-17, 150/17-18,125/18-19)	RRSK	75,00	1
119	Manufacture of self propelled coach for Rail Museum Rs.225 lacs 175/8-9, 162/9-10, WB187/10-11 173/13-14, 181/14-15 ,187/15-16,169/16-17, 151/17-18,126/18-19)	RRSK	2,25,00	1
120	Manufacture of 100 scaled down coaches from trade for Rail Museum Rs. 2 lacs 176/8-9,163/9-10 174/13-14, 182/14-15 ,188/15-16,170/16-17, 152/17-18,127/18-19)	RRSK	2,00,00	1
121	Provision of fire detection and suppression system on 25 LHB power cars Rs.4 lacs WB(259/12-13 163/13-14, 171/14-15 ,189/15-16,171/16-17, 153/17-18,128/18-19)	EBR(IRFC) Cap.	5,00 95,00	 18060
122	Development of RSP Portal of Railway Board (259a/12-13, 151/13-14, 159/14-15 ,190/15-16,172/16-17, 154/17-18,129/18-19)	EBR(IRFC) Cap.	7,00 20,00	1 ..
123	Provision of Fire Extinguishers with anti theft arrangement in 1000 non-AC coaches(4 nos./coach) Rs.8000(223/14-15 ,191/15-16,173/16-17, 155/17-18,130/18-19)	Cap. EBR(IRFC)	70,00 10,00	9510 1
124	Upgradation of coach toilets of important mail and express trains running on round trip BPC on 100 coaches Rs.2 lacs(224/14-15 ,192/15-16,174/16-17, 156/17-18,131/18-19)	RRSK	2,00,00	1
125	Integrated axle box temperature measurement system with real time transmission of temperature data alongwith AMOC at 2 stations Rs.20 lacs(225/14-15 ,193/15-16,175/16-17, 157/17-18,132/18-19)	EBR(IRFC) Cap.	5,00 35,00	1 ..
126	Provision of tread cleaning units in LHB FIAT bogies on 25 coaches Rs.5.5 lacs(226/14-15,194/15-16,176/16-17, 158/17-18,133/18-19)	Cap.	1,37,50	1
127	Proof of concept of Running Train Examination system (RTES) 2 Nos. Rs.1 cr.(227/14-15,195/15-16,177/16-17, 159/17-18, 134/18-19)	EBR(IRFC) Cap.	50,00 1,50,00	1 ..
128	Air craft pantry equipments for pantry cars of 10 Rajdhani /Shatabdi Express Rs.6.75 lacs(228/14-15,196/15-16,178/16-17, 160/17-18, 135/18-19)	EBR(IRFC) Cap.	67,35 15	1 100
129	Provision of capacitor bank for power factor improvement in 1000 LHB EOG coaches Rs.15000/-(222/14-15,197/15-16,179/16-17, 161/17-18, 136/18-19)	EBR(IRFC) Cap.	1,50,00 ..	1 1000
130	Provision of solar panels on coaches to harnes solar energy-50 nos Rs. 1.5 lacs(221/14-15 ,198/15-16,180/16-17, 162/17-18, 137/18-19)	Cap. EBR(IRFC)	1,00,00 50,00	7543 1
131	Hand held remote control units 100 nos. Rs.25000/- (216/12-13, 175/13-14 ,199/15-16,181/16-17, 163/17-18,138/18-19)	Cap.	25,00	1
132	3 Nos.Acoustic DG set 25 KVA GD set Model no.x2.5G2(32BHP at 1500 RPM) Rs.5.2 lacs, 1 no.each for SR, SE & NWR WB(208/13-14 ,200/15-16,182/16-17, 164/17-18,139/18-19)	Cap	15,60	1
133	Provision of LED destination board in 10 coaches Rs.1.5 lacs/coach (229/15-16,183/16-17, 165/17-18,140/18-19)	RRSK	15,00	1
134	Provision of capacitor bank for power factor improvement in 1000	Cap	2,45,00	3099

(Figures in thousands of rupees)

Item No.	Particulars of Works	Allocation	Sanctioned Cost	Outlay Proposed for 2019-20
	A - PROGRAMMED DELIVERIES			
135	Provision of Solar Panel on roof top of 20 BG coaches and 20 NG coaches @ Rs 5 lakhs for BG coach and Rs 3 lakh for NG coaches (216/16-17, 167/17-18,142/18-19)	EBR(IRFC)	40,00	..
		Cap.	1,20,00	80
136	Anti graffiti coating to sustain external aesthetics in coaches running in round trip coaches for 400 coaches @ Rs 25000(217/16-17, 168/17-18,143/18-19)	RRSK	1,00,00	1
137	Provision of GPS based PAS/PIS (public address cum passenger system information) in 50 AC/Non-AC coaches @ 2.34 lakhs per coach (195/17-18,144/18-19)	Cap.	1,17,00	22387
138	Restoration of 6 DHR (Darjeeling Himalayan Railway) vintage coaches to "as it was" heritage status @ 15 lakhs per coach (196/17-18,145/18-19)	Cap.	90,00	1
139	Conversion of 10 ICF EOG coaches (Pantry Cars) into an Exhibition train @ Rs. 20 lacs(179/18-19)	Cap.	2,00,00	1
140	Composite mini pantry equipments for LHB Shatabdi coaches -50 nos.@ Rs.3.7 lakhs(180/18-19)	RRSK	1,85,00	16821
141	Procurement of 60kVA 750/415V 3 phase dry type distribution transformer suitable for LHB type Rajdhani/Shatabdi-100 nos.@Rs.2.25 lakhs(181/18-19)	RRSK	2,25,00	17197
142	Procurement of 200 nos Microprocessor Controller for roof mounted AC package unit for LHB coaches @ Rs. 93,000/- each (182/18-19)	RRSK	1,86,00	20291
143	Development/Construction of 2 NG Rail Buses for DHR at the rate of Rs. 95 lakhs each	Cap.	1,90,00	1
144	Conversion of 04 NG AC Coaches for DHR at the rate of Rs. 25 lakhs each	Cap.	1,00,00	1
	Total-Carriages	Cap.	..	61790
		RRSK	..	54322
		DF(1)	..	0
		EBR(IRFC)	.	16
	Wagons			
145	10 Nos.BTPN ex. trade (80/01-02 WB113/7-8, 135/8-9, 166/9-10, 217/12-13, 177/13-14, 185/14-15 , 201/15-16,184/16-17, 169/17-18,146/18-19)	EBR(IRFC)	1,30,00	1
146	1636 Nos. CTRBs ex trade (496/5-6 WB114/7-8 ,136/8-9, 218/12-13, 178/13-14, 186/14-15 , 202/15-16,185/16-17, 170/17-18,147/18-19)	EBR(IRFC)	1,90,00	1
147	Conversion of 320 four wheeler tank wagons to fly ash carrier @ Rs.71000 per wagon WB139/7-8 137/8-9, 188/13-14 , 203/15-16,186/16-17, 171/17-18,148/18-19)	RRSK	2,27,20	1
148	Manufacturing of 3 nos.prototype BTOH wagon Rs.25 lacs(WB225/10-11 215/11-12, 219/12-13 179/13-14, 195/14-15 , 204/15-16,187/16-17, 172/17-18,149/18-19)	Cap.	75,00	1
149	Retrofitment of upgraded Door Assembly on 500 BOBRN wagons Rs.45000/-(WB226/10-11 216/11-12, 180/13-14, 188/14-15 , 205/15-16,188/16-17, 173/17-18,150/18-19)	Cap.	2,25,00	1
150	Procurement of 3 no.Monocoque type wagons for testing Rs.35 lacs(WB227/10-11, 221/12-13, 181/13-14, 189/14-15 , 206/15-16,189/16-17, 174/17-18,151/18-19)	Cap.	1,05,00	1
151	Manufacturing of 3 nos. prototype 22.9t axle load BTPN wagon Rs.30 lacs(WB228/10-11, 182/13-14, 190/14-15, 207/15-16,190/16-17, 175/17-18,152/18-19)	Cap.	90,00	1
152	Manufacturing of 3 nos.prototype of Bottom Discharge wagons for Iron oreRs.35 lacs(WB229/10-11, 183/13-14, 191/14-15, 208/15-16,191/16-17, 176/17-18,153/18-19)	Cap.	1,05,00	1
153	Manufacturing of 3 nos.prototype of modified BCNHL wagons Rs.35 lacs(WB230/10-11, 185/13-14, 192/14-15, 209/15-16,192/16-17, 177/17-18,154/18-19)	Cap.	1,05,00	1
		EBR(IRFC)	1,00	1
154	Manufacture of 7 BFU wagon to carry Bulldozer of ARTs Rs.30 Lac per wagon i.e. Rs.30 lacX7 wagons=Rs.210 lac (244/11-12, 186/13-14, 193/14-15, 210/15-16,193/16-17, 178/17-18,155/18-19)	EBR(IRFC)	2,10,00	1
155	Procurement of 480 Nos. of new design doors for 120 wagons Rs.1.5 lacs WB(260/12-13, 187/13-14, 194/14-15, 211/15-16,194/16-17, 179/17-18,156/18-19)	RRSK	1,80,00	1
	Total-Wagons	Cap.	..	6
		RRSK	..	2
		EBR(IRFC)	..	4
	Cranes			
156	1 No. 20 T diesel cranes for E Rly (470/93-94, 472/5-6, 523/6-7 WB115/7-8 138/8-9, 189/13-14, 197/14-15, 212/15-16,195/16-17, 180/17-18,157/18-19)	Cap.	1,00,00	1
		DRF	50,00	
		EBR(IRFC)	50,00	
	Total-Cranes	Cap.	..	1
		DRF	..	
		EBR(IRFC)	..	

(Figures in thousands of rupees)

Item No.	Particulars of Works	Allocation	Sanctioned Cost	Outlay Proposed for 2019-20
	Rail Cars and Multiple Units			
157	3 Set of BG dsl Rail car comprising of IMC and 3 TC rS. 45 lacs ex ICF/RCF/Import (407/87-88,139/8-9, 191/13-14, 199/14-15, 213/15-16,196/16-17, 181/17-18,158/18-19)	RRSK	1,35,00	1
158	3 Sets of MG Diesel Rail car Rs. 35 lacs ex ICF/RCF/Import (415/87-88, 528/6-7 WB117/7-8, 229/12-13, 192/13-14, 200/14-15, 214/15-16,197/16-17, 182/17-18,159/18-19)	RRSK	1,05,00	1
159	3 Nos. NG RAIL Buses @Rs.45 lakhs (210/98-99, 142/8-9 WB118/7-8, 232/12-13, 195/13-14, 203/14-15, 215/15-16,198/16-17, 183/17-18,160/18-19)	EBR(IRFC)	1,35,00	1
160	5 Nos. MEMU TC Rs.32 lacs ex RCF (547/3-4 ,530/5-6, 580/6-7 194/13-14, 202/14-15, 216/15-16,199/16-17, 184/17-18,161/18-19)	EBR(IRFC)	1,60,00	1
161	LED based desitination board in EMU/MEMU coaches (60 Nos), Rs.51500 per coach(1062/9-10 225/11-12, 193/13-14, 201/14-15, 217/15-16,200/16-17, 185/17-18,162/18-19)	Cap.	30,90	1
162	Unit exchange spares for DMUs WB(245/11-12 233/12-13, 196/13-14, 204/14-15, 218/15-16,201/16-17, 186/17-18,163/18-19)	EBR(IRFC) Cap.	1,00,00 1,40,00	 10847
163	Provision of air dryers on DEMU 100 Nos. Rs.1.3 lacs WB(246/11-12, 234/12-13, 197/13-14, 205/14-15, 219/15-16,202/16-17, 187/17-18,164/18-19)	EBR(IRFC)	1,30,00	1
	Total-Rail Cars and Multiple Units	Cap. RRSK EBR(IRFC)	.. .. ..	10848 2 3
	A - PROGRAMMED DELIVERIES			
	Track Machines			
164	10 Nos. Rail-cum Road vehicle @ Rs.20 lakhs (185/00-01, 144/8-9 WB120/7-8, 199/13-14, 207/14-15, 220/15-16,203/16-17, 188/17-18,165/18-19)	Cap.	2,00,00	1
165	13 Nos. Rail-cum-Road vehicles Rs.16 lacs each (554/3-4, 145/8-9 WB121/7-8, 174/9-10, 200/13-14, 208/14-15, 221/15-16,204/16-17, 189/17-18,166/18-19)	EBR(IRFC) Cap.	8,02 1,99,98	 1
166	BFR mounted Rail crane for handling released rails (Supp.) (23/02-03 , 147/8-9 WB122/7-8, 176/9-10, 202/13-14, 210/14-15, 222/15-16,205/16-17, 190/17-18,167/18-19)	Cap.	1,60,00	1
167	Rail cum road vehicle (13 Nos) Rs.17 lakh (appx) (590/4-5, 143/8 9 WB123/7-8, 198/13-14, 206/14 15, 223/15 16,206/16-17, 191/17-18,168/18-19)	RRSK Cap.	7,01 2,12,99	 1
168	Rail - cum - road vehicles (13 Nos), Rs.17 lakh each approx. (681/5-6, 632/6-7 WB124/7-8 146/8-9, 201/13-14, 209/14-15, 224/15-16,207/16-17, 192/17-18,169/18-19)	C.Fund Cap. 0	2,01 2,17,99	.. 1
	Total-Track Machines	Cap. RRSK EBR(IRFC)	.. ..	5 0 0
	TOTAL-PROGRAMMED DELIVERIES	**Cap.** **RRSK** **DF(1)** **EBR(IRFC)** **Total**	.. ..	**161360** **243020** **3** **51** **404434**
	B - NEW ACQUISITION			
	Locomotives			
169	Primary Voltage Transformer - 40 nos. @ Rs.3.1 lakhs	RRSK	12400	3100
170	High speed pantograph AM-92 - 100 sets @ Rs.99000	RRSK	9900	4981
	Total-Locomotives	RRSK		8081
	Carriages			
171	Provision of Crashworthy AC completely assembled bogies for ICF CBC coaching stock @ Rs. 16 lacs per coach -10 coach sets.	RRSK	16000	, 1
172	Provision of Crashworthy AC completely assembled bogies for ICF CBC coaching stock @ Rs. 11 lacs per coach - 15 coach sets.	RRSK	16500	1
173	Development of software for centralized RMPU monitoring system in 5 LHB rakes @ Rs. 40 lakhs per rake	Cap.	20000	1
	Total-Carriages	Cap. RRSK	.. ..	1 2
	TOTAL-NEW ACQUISITION	Cap. RRSK	.. ..	1 8083
	TOTAL-Rolling Stock	**Cap.** **RRSK** **DF(1)** **EBR(IRFC)** **TOTAL**	.. ..	**161361** **251103** **3** **51** **412518**