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AGENDA

Agenda for CEE's Conference on 17.12.2011 at Railway Board, New Delhi

1.0 Elect. Loco

1.1 Safety - Accident cases on Electrical Account (since 01.01.2009)

Classification	NCR	SER	NR	WR	ECR	Metro	CR	ER	ECoR	SCR	SECR	SR	WCR	Total
SPAD	6	4	1	2	2	2	2	1		1				21
Collision	1			2					1	1	2	1	1	9
Derailment	2		3						1					6
Maintenance	1*				1**	1***		1 [§]						4
	10	4	4	4	3	3	2	2	2	2	2	1	1	40

* Failure of ELS/NKJ loco ** Failure of ELS/GMO loco ***Rolling stock Maintenance § TrD Failure

There are 40 incidences of accidents/derailment since 01.01.2009 occurred on account of Electric traction Maintenance & Operation. Out of 40 cases, 36 cases have taken place due to Signal Passing at Danger by Crew and leading to collision or derailments.

Even after repeated instructions / guidelines issued from Board and discussion under various forums and safety seminars there is no reduction in SPAD cases. This indicates lack of supervision by Division and Zonal level officials. Each and every case should be thoroughly investigated in time bound manner for its root cause and remedial actions.

Rly Board recently conducted a meeting with Sr DEE TRO's of 4 worst affected divisions on IR for SPAD cases to assess the ground realities.

Zonal Railways should take necessary action on the following:

- Discussion of recent cases / accidents along with cause and remedial actions in training centers where new / in-service running staff available for mass awareness.
- Railways should analyze accidents cases occurring on other Railways also along with their own.
- Off leave crew may preferably be booked after 8:00 hrs. instead of night at present.
- Cross sharing of knowledge among Railways needs to sensitized.
- Learning road of crew should be authenticated by Division Level officials.
- Close monitoring of 10 hrs rule.
- Efforts to be made for minimizing pre departure detention. Provision of COA terminal in crew lobbies will help to reduce PDDs and better crew planning.

- Intensive night footplating by officers / supervisors specially in 'V' hours, preferably on goods trains
- More and more interactions to be made with families of running staff for their awareness of need of proper rest at Home.
- Railways should improve conditions of running rooms for ensuring proper rest to running staff and proposal may be send to Board for Upgradation, if required.
- Esthetic environment at crew lobbies should be ensured.
- Intensive counseling of crew regarding location of signal, identification of signal for his train in day and night through night foot plating by Loco Inspectors.
- Critical location of signals having poor visibility or non-visibility from adequate distance should be highlighted by officer on footplate and action be taken for change of location.
- All running staff should have learning road of all the routes and lines in their beat. Regular working on all routes and lines should be ensured by crew booking lobbies.
- Use of mobile by crew is prohibited during train run, officer/supervisors should ensure this during footplate and action must be taken against faulty staff.
- Knowledge of the Instructors / Inspectors should be cross checked before putting them in training centers and footplate duties respectively.
- Identification & disciplinary action on running staff who are engaging in mischievous activities during rest in Running Rooms.
- CEE's should conduct periodical performance review meetings with Sr DEE/TRO's wherein all matters affecting safety should be discussed.

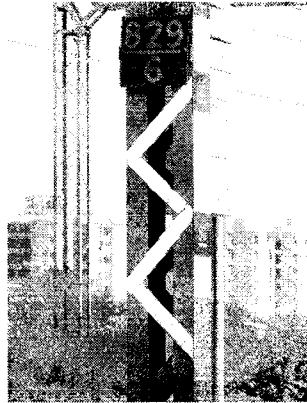
Railways to discuss at least one case study on SPAD prepared by them.

1.2 Train operation during fog

Fog safe devices – Fog safe device are now being provided in nominated sections of NR, NER & NWR where dense fog is experienced. So far 992 such devices for Diesel and Electric trains are procured and 183 are under procurement. Fog affected Railways should ensure proper utilization of these devices. Status is as under:

No. of Fog safe device procured for electric locos	Route nominated
250	DLI – PNP – UMB – LDH – ASR
Performance should be closely monitored & report to be submitted to RDSO.	

Provision of sigma marking on OHE masts prior to signals – Northern & North Central Railways have provided retro-reflective Sigma marking on OHE masts prior to signals and it is reported to be useful for running staff during train in foggy weather. Other Railways can immediately follow the NCR's pattern where foggy weather is experienced.



In future, this plate needs to be standardized & a proposal to provide retro-reflective board of size similar to DJ opening / closing Board with 'S' marking is under consideration of Railway Board.

Railways should maintain/provide retro-reflective number plates on the masts as per norms laid down by Rly. Board / RDSO which are also very useful in foggy conditions.

Circulation of Signal location booklets, handouts & stickers, Laminated timetable sheets for individual trains for scheduled stoppages and safety bulletins for train operation during abnormal weather conditions should be ensured by all Zonal Railways.

Cleanliness of lookout glass and working of wipers need to be ensured in every visit to trip/main shed especially in foggy conditions.

Railways may discuss action taken.

1.3 Maintenance of electric locos during winter season

Cases of flashover of insulators on loco roof - No. of cases of roof insulators flashing in foggy weather have taken place in during the month of November & December. So far more than 20 cases of flash over on the roof insulators have taken place which has affected punctuality of over 50 mail express trains. Investigations revealed following facts on which Railways and RDSO should take action.

- **Cleaning of all roof insulators during TI was not found up to mark in some cases despite the fact that it is part of Trip schedule. Most of the Railways/sheds are not applying Silicone grease on roof insulators due to difficulty in cleaning and quality & availability issues.**
- **In most of the cases flashing has taken place between edge of top petticoat of insulator and ground directly and mostly other than top petticoat of insulator there are no sign of creepage on lower petticoats.**
- **Mainly pantograph foot insulator, sharp edges on live parts of roof bar and insulators fitted with HOM brackets were found affected.**

- In some cases flash over has taken place from bottom portion of the live parts of the pantograph to the roof.
- Most of the flash over cases occurred in the early hours of morning when fog is at its peak and except for 4-5 punctuality cases reported from NCR (3), SER (1) and ER (1), all other cases (> 15) have occurred in MGS division at locations close to Dehri on son and Son Nagar.
- Contact wire parting and extensive damage due to roof equipment, insulators, and holes on roof was observed which has been attributed to delay in CB tripping due to improper earthing and inadequate or non availability of proper numerical protection relays in 132/25 kV GSS under control of BSEB.
- There are lot of construction activities going on in the area surrounding Dehri On Son in addition to new stone crushers and a cement plant which are probably main cause of sudden rise in pollution levels in that area. Railways (TRD) should keep close on watch on such activities so that timely actions could be initiated.
- **Following short and long term actions are being considered**
 - **Short term actions**
 - Immediate special attention to cleaning of insulators at all trip/main sheds.
 - Selection & application of suitable insulating paint/varnish on critical locations e.g. top metallic cap of Panto foot insulators, Sharp metallic live parts of roof bar and bracket of HOM switch etc.
 - Selection & application of suitable agent like Silicon oil in place of Silicone grease on insulator surface to enhance its water repelling capability and for improving cleaning and glaze.
 - Relocation of earthing shunts on roof so that clearance to ground is not reduced.
 - Issue of instructions on replacement of all types of roof insulators as number of insulators with anti tracking paint applied, surface glaze deteriorated and petticoat damaged are permitted in service.
 - There are different designs of foot insulators in use therefore issue of instructions to Railways & CLW on the correct drawings to be followed by all are necessary.
 - Issue of modification scheme for increasing ground clearance of HOM bracket by increasing the length of its arm.
 - **Long term actions**
 - in view of the increasing pollution levels and other developments taking place in insulator designs review of all types of locomotive roof insulation design considering improvements in ground clearances, insulator shapes, creepage distances and use of XLPE cable to minimize live bus bars on roof.
 - Study for the provision in new electric locomotives in future.

The aim of above is that the loco should be able to work under all weather conditions prevailing over IR without such failure.

- RDSO to issue the guide lines to be followed by loco shed, for short & long term issues.

Railways to discuss above actions suggested.

1.4 Implementation of Crew Management System (CMS)

IR has developed an effective crew management & utilization tool namely Crew Management System (CMS). Railways can reap many benefits in crew and train operation with effective use of this system. It is observed that Railways are still not utilizing its all functions.

Railways were advised to send progress of CMS utilization vide **AML's D.O. letter no. 2007/Elect(TRS)/440/23 Pt. dated 23.09.2011** & Board's letter dated **04.11.2011**, and despite of regular follow up, none of the Railways except SR & WCR have send the progress.

However, Railways wise commissioning of CMS and utilization as received from CRIs is as under:

Sn.	Rly.	Total lobby commissioned	Elect lobbies	Nos of lobbies (Elect) preparing mileage bill	
1	CR	38	21	8	IGPX, BSL, BSLX, BD, KNW, NGN, MMR, PUNEX
2	ECR	21	8	7	DNR, JAJ, DHN, GMO, PTRU, BRWD, GYA
3	ECOR	11	9	7	KUR, TLHR, PSA, PRDP, BHC, MIPM, VSKP
4	ER	18	8	6	HWH, SDAH, KWAE, BWN*, DDJ*,NH
5	NCR	16	11	7	AGC, MTJ, NDLS, TDL, JHS, ALD, CNB
8	NR	44	6	5	TKD, NZM, GZB, PNP, ANVT
10	SCR	28	8	6	BZA, RJY, BDCR, SC, BTTR, BPA
11	SER	16	10	7	SRC, TATA, CKP, DPS, ROU, ANR, ADA
12	SECR	15	9	6	R(chg), DRZ, RSD, DGG, MIB, NGP
13	SR	25	14	12	ERS, JTJ, MAS, MS, TVT, CBE, ED, TVC, TBM, AJJ, NCJ, QLN
15	WCR	16	6	6	BPL*, GUNA, ET, BINA, SGO, KOTA
16	WR	28	13	12	BDTS, BCT, BSR, BL, UDN, NDB, BRC, BRCY, GDA, ADI, UJN , RTM
Total		330	123	89	

DDJ* is preparing mileage bill only of loco pilot

BWN* is preparing mileage bill only of Guards + Elect loco pilot

BPL* is preparing mileage bill only of Guards

Railways may discuss major constraints.

1.5 Provision of Vigilance Control Device

Progress of Vigilance Control Device (VCD) on electric locos is far from satisfactory even though sufficient funds were made available to Railways. Also, the issue of work content in the RDSO's specification (Rev.'5') has also been resolved by RDSO vide their letter no. EL/3.1.14 dated 04.10.2011.

Status of over all progress of Vigilance Control Device (VCD) is as under:

- | | | | |
|-------|--|---|---------------------|
| (i) | Total sanction of VCDs' in different Bulk RSPs | : | 3385 |
| (ii) | Total conventional elect loco fitted with VCD | : | 682 |
| (iii) | Total 3-Phase electric locos fitted with VCD | : | 468 (incl. 11 WAG6) |
| | Total electric locos having VCDs | : | 1150 |

Rly /make wise brake up of is as under:

Sno	VCD Make	CR	ER	ECR	ECoR	NR	NCR	SR	SCR	SER	SECR	WR	WCR	Total
1	AAL	26			1									27
2	ICE		20			30			57	9	20		30	166
3	Medha	0	23	0	3	10	40	0	9	55	0	55	1	196
4	Saitronik	40	0	10	3	0	30	19	46	22	20	0	22	212
5	Stesalit	5						15				59		79
6	SIL		1						1					2
	Total	71	44	10	7	40	70	34	113	86	40	114	53	682

- (iv) Balance Purchase Order quantities on firms

Firm	PO placed for Qty.	Qty. supplied	Balance to be supplied
ICE	744	271	473
Medha	476	400	76
Saitronik	442	85	357
Stesalit	933	50	883
Total	2595	806	1789

- (v) Firm wise analysis of sub-suppliers, submitted by RDSO, along with target deliveries promised by suppliers is placed at **Annex-I**.

Railways to discuss on following points:

- Railways to prepare action plan so that target of providing VCD's in all locos by Mar'2012 set by Hon'ble MR could be achieved.
- NR & ECoR are still in process of finalization of tenders and placement of PO's respectively; placement of PO's and supplies of material in current financial year needs to be ensured for utilization of funds.
- The performance of VCD's should be submitted to RDSO in prescribed Performa.
- All running staff and crew should be counseled to avoid any cases of mal-operation.

- No loco fitted with VCD should be turned out from shed in VCD isolated condition and locos with VCD isolation during run should be got attended at the nearest shed.
- Counseling / demonstration of trouble shooting in case of VCD activation / mal functioning should be conducted by Loco Inspectors during foot plate inspections, wherever possible.

1.6 Fitment of Train Protection Warning System (TPWS)

Board vide letter no. 2004/Elect(TRS)/440/19 dated 23.11.2011 have advised CR, NR & SCR regarding targets for fitment of TPWS equipment on WAP-7 electric locos for extended trials in NDLS – AGC section of NR/NCR.

Targets and allotment of equipment to be provided on locos are as under:

Sno.	Base shed/Rly	Class of loco	No. of TPWS to be fitted	No. of locos already fitted with TPWS	Target for fitment of TPWS
1	ELS/GZB/NR	WAP-7	17	17	Completed
2	ELS/LGD/SCR	WAP-7	14	0	Dec'2011 : 8 locos Jan'2012 : 6 locos
3	ELS/AQ/CR	WAP-7	4	0	Jan'2012 : 4 locos

CR & SCR may discuss action plan for completion of work within the target.

1.7 Multiple working of WAG-9H electric locomotives & CRS sanctions

WAG-9 locomotives are working in Multi formation in SER & ECoR for heavy haul operation of freight trains. IR is having a population of 22 locos of WAG-9 H class and its population is increasing day by day, as all new locos turned out ex. CLW are WAG-9H based on traffic requirements.

The speed certificate issued by RDSO is for WAG-9 and there is no mention of WAG-9 H therefore in absence of exclusive Speed certificate for WAG-9H class of locomotive, SEC Railways is finding difficult to get CRS sanction to run WAG-9 H multiple units to meet the traffic requirement.

Railways having requirement of WAG-9H loco multiple operation to plan the same, **RDSO to discuss progress of issue of speed certificate.**

1.8 Maintenance schedules of elect locos

With considerable inputs for improvement of electric locos reliability & availability and technological up-gradation the existing maintenance schedules of electric locos have been reviewed time to time and lastly revised minor maintenance schedules for WAG-7 electric locos were issued initially for two years and similarly trials are underway for WAG-5 H electric locos in **JHS/NCR & BZA/SCR sheds.**

The revised maintenance schedules are enclosed as **Annex- II**

The following issues on above needs to be deliberated by Railways and RDSO.

- The revised schedules for WAG-7 were implemented w.e.f 4/2011 and more than 7 months have passed, therefore RDSO needs to evolve a monitoring methodology to assess the effect of this change in periodicity in terms of improvement/deterioration of reliability.
- Traffic is generally not able to provide loco for inspection within 60+3 days and therefore assessment of average actual time (days) after which locomotive arrives in shed and whether this delay is adversely affecting reliability needs to be examined.
- Reliability of WAG-5 locos under trial with revised periodicity needs to be ascertained and report to be submitted to Board to take further decision in this regard.
- Scope of further revision in maintenance schedules periodicity for other class of electric locos.

1.9 Increase the homing capacity of electric loco sheds up to 200 locos

To optimize the loco holdings in all existing sheds (where space permits) & new upcoming sheds up to 200 electric locos and considering the non-availability of fixed benchmarking of infrastructural facilities required for homing of locomotives in a shed, A committee comprising of EDSE(RDSO)/Convener, CELE/CR, CELE/NCR, CELE/SCR & CELE/SER has been nominated by Board vide letter no. 2011/Elect(TRS)/480/1 Pt. dated 13.12.2011 to recommend infrastructure and layout plan for homing 200 electric locos in a shed with considering of the following:

- (i) Infrastructural & lay out plans of electric loco shed
- (ii) Upgradation & additional M&Ps required for homing 200 electric locos in shed
- (iii) Advanced automated maintenance & condition monitoring systems including remote diagnostic etc. for online health monitoring of electric locomotive.
- (iv) Computerized networked database system of maintenance of locomotive & equipment for increasing productivity of loco shed.
- (v) Facilities & training, testing & maintaining electronic cards / modules etc. required in sheds.

Committee has been advised to submit its report within a month's time

Railways and RDSO to discuss.

1.10 Identification of locations for homing of 3-Phase locos

Present population of three phase electric locomotives is 457, and these are homed in 8 different loco shed over IR. With the increase in acquisition of three phase electric locos and planning for complete switchover of production of three phase loco by 2016-17, it is necessary to identify more electric loco sheds for homing these locomotives. The actions taken so far in this regard are summarized as under:

Class of locomotive	Presently homed at	Proposed
WAP-5	GZB, BRC (holding up to 15 u/consideration)	Two sheds shall be sufficient.

Class of locomotive	Presently homed at	Proposed
WAP-7	GZB, LGD, AQ, GMO (WAP-7 to be shifted to HWH), HWH (Holding up to 15-20 u/consideration)	KYN (From 3/2012 onwards), RPM (after completion of works)
WAG-9/9H	AQ, GMO, LGD, TKD, BIA Increase in holding in all sheds by shifting conventional locos to other sheds if required.	TATA, BSP (After completion of works) ,

Railways may discuss.

1.11 Requirement of AC electric locos after DC to AC conversion in Mumbai area.

(a) Western Railway

Conversion work is expected to be completed upto BCT/CCG shortly. WRly has confirmed that their loco running and maintenance staff/supervisors are imparted necessary training to handle AC locos.

- (i) AC loco link presently being deployed upto **BRC**, shall be extended upto BCT/BDTS as detailed below.

Sno	Train no.	Present link	Remarks
1	12951/12952 Rajdhani	WAP7/GZB	Can be extended without additional loco requirement
2	12953/12954 A K Rajdhani	WAP5/GZB	-do-
3	12909/12910 Garib Rath	WAP5/GZB	-do-
4	12955/12956 BCT-JP	WAP4/ED	-do-
5	12925/12926 Paschim	WAP7/GZB	Can be extended with One additional loco requirement

- (ii) AC loco link presently being deployed upto **BL**, shall be extended upto BCT as detailed below.

Sno	Train no.	Present link	Remarks
1	12583/12584 BL-Puri	WAP4/BRC	Can be extended without additional loco requirement by merging existing WAM4 link of ET.
2	19019/19020 DDN-BDTS	WAP4/BRC	Can be extended by merging with link of 12925/12926 with Three additional loco requirement
3	19023/19024 Janata	WAP4/BRC	Can be extended with Three additional loco requirement

3 WAP4 locos will be saved, if the above links are transferred to NRly&WCRLy. Presently 9 WAP4 locos are utilized by WRly, which can be operated with 6 locos if provided by NRly.

(iii) Coaching loco position of WRly.

Type of loco	Population	Available for link
WCAM1	46	41
WCAM2	20	18
WAP4	57	51
WAM4	20	18
Total	143	128

- Requirement after AC conversion is 112 locos.
- 20 WCAM1 locos are completing their codal life by this yearend,WRly should plan for condemnation according to the condition basis.
- 16 WAM4 locos have already completed their codal life.
- 8 WAP4 locos can be made available by transferring links mentioned in para 2.0 above.
- New WAP5 locos may be allotted to WRly to meet the requirement of further 12 locos. This will be an alternate shed to GZB to home WAP5 type locos.
- WRly should utilize the existing coaching locos on condition basis till new locos are received and commissioned.
- Transfer of WCAM2 locos to CRly shall be planned after successfully taking over of trains on AC.

(b) Central Railway

- (i) Transfer of WCAM2 locos from WRly will take place after stabilization of loco links upto BCT and on receipt of new AC locos.
- (ii) Trains already being worked on WCAM3 locos shall be continued on CRly, no modification is suggested in this.
- (iii) Out of 21 pairs of trains presently worked by Diesel under wire, 11 pairs of Mail/Exp. trains on SE section and 3 pairs on NE section can be taken over on Electric after receipt of WCAM2 locos from WRly. Remaining 7 pairs may be continued with Diesel till receipt of new AC locos.
- (iv) 5 pairs of Weekly trains on BSR-KYN-PA section, presently being worked by Diesel may be taken over on WCAM1 after charging in WRly.
- (v) The following three pair of trains are planned to take over on WCAM2 on end to end basis, which will reduce the lie over as well as G in P.
 - 12187/12188 CSTM-JBP Garib Rath, planned to run between CSTM-ET
 - 12111/12112 CSTM-AMI Exp, planned to run between CSTM-AMI
 - 12289/12290 CSTM-NGP Duranto, planned to run between CSTM-NGP

CRly to train loco running and maintenance staff / supervisors adequately to handle AC-DC locos for the above trains.

- (vi) Running staff of Mumbai division are presently working trains upto IGP only, as traction change takes place. CRly to plan to deploy these staff to work trains upto MMR/BSL, necessary balancing of crew links shall be made for smooth transition after charging AC. Adequate running room facilities also be planned accordingly at MMR.

1.12 Review of important ongoing works

List of important ongoing works for setting up of new electric loco sheds/shops and augmentation of existing sheds/shops is placed at **Annex.-III**.

Progress in most of these works is rather slow even after 4 to 5 years of their sanction. Due to scarcity of funds at present, Railways are advised to priorities works expected to be completed by next financial year i.e. 2012-13 so that sufficient funds may be provided in those works to complete them in time.

Railways to discuss.

2.0 Elect(G)

2.1 Preparedness for switching over to 25 kV AC traction on WR & CR including programme for retro-fitment of DC EMUs, availability of AC locos and training of crew.

- (a) To meet with the immediate requirement during conversion from DC to AC traction system in Mumbai area and utilize the DC EMU stock it has been decided that CR and WR will retrofit 70 DC EMU rakes against following sanctions available:

PB no.	CR	WR	Total
20111-12			
444/CR	10	-	10
384/WR	-	10	10
1107/RB Bulk	30	20	50
Total	40	30	70

- (b) It has been planned to retrofit 18 DC EMU rakes in CR and 12 DC EMU rakes in WR during 2011-12. CR has so far retrofitted 5 DC EMU rakes and WR has retrofitted 3 DC EMU rakes. The work is held up for want of funds. The re-appropriation proposal of CR is already under consideration in Railway Board.
- (c) In addition to above, Siemens 3 phase electrics for one nine rake each have been transferred to CR & WR from ICF for retro-fitment of the DC EMU rakes. CR has already retrofitted the rake, the same should be inducted into service at the earliest. The work of retro-fitment in WR is held up as the material of one unit including DTC have been transferred from WR to CR where one DTC got damaged in an accident. In addition some of the items have been utilized against defective items during POH or issued to car shed. The position of material needs to be reconciled by WR and correctives be taken.

2.2 Compliance of recent instructions issued by Board on fire safety in coaches Role of ACCA, ACCI and their availability

- (a) Following of recent instructions issued by Board regarding prevention against fire safety in coaches
- 100% functioning of vane relays
 - Working of overheat protection system in AC coaches
 - Visual inspection of heater elements of AC system to check any abnormality and also to ensure use of standard material
 - Ensuring proper functioning of heating system of AC coach at primary depot before start of journey
 - Regular cleaning of FDBs in TL coaches
 - No Earth leakage in positive and negative cable of TL coaches

- Use of proper rating fuses/ MCBs
- Implementation of instructions issued for prevention of fire in power cars
- It should be checked and ensured, that none of the protection relays and interlocks are by-passed before start of journey
- Locking of electrical controls of heating equipments of pantry cars
- Proper tightening of inter cell connections of battery
- RDSO to develop chimney for LHB coaches in line with conventional pantry cars
- Training to escorting staff for operating DCP type fire extinguisher.

(b) Role of ACCA/ACCI and their availability

- ACCI/ACCA should be available in prescribed uniform with name badges
- ACCI/ ACCA should remain at nominated position inside the coach
- ACCI/ ACCA should inspect the coach regularly during journey to check any abnormal working of electrical equipment including air-conditioning system
- Any abnormality noticed during journey must be recorded in log book and corrective action be taken in depot

2.3 Laptop/mobile charging facilities in AC/Non-AC coaches.

The progress of provision of laptop/ mobile charging facilities in AC/non AC coaches is as under:

Progress of Provision of Mobile/Laptop charging points in Coaches as on 30.11.11

Rly	Eligible coaches	Coaches Provided With	Balance Coaches	% Work Completed	Remarks
CR	1677	1435	242	85.57	Estimate for 400 coaches for 18 points per coach as per pink book item no. 605/2011-12, Funds awaited.
ER	1684	1663	21	98.75	Work under progress target Dec'12.
NR	2786	2631	155	94.44	PDC-Mar'12
NER	708	708	0	100.00	Work sanction for 250 coaches for providing 18 points in RSP 2009-10. Fund not available in 2011-12.
NFR	903	903	0	100.00	Work in progress for providing 18 points in 100 GSCN coaches, already completed in 23 caches and remaining in June'12. Rs 50 lac has been given to NFR against the PB item no. 500/11-12
SR	2582	2582	0	100.00	Material is under procurement for 18 points in 250 coaches.

Rly	Eligible coaches	Coaches Provided With	Balance Coaches	% Work Completed	Remarks
SR	2582	2582	0	100.00	Material is under procurement for 18 points in 250 coaches.
SCR	2042	2042	0	100.00	Provision of 18 points in GSCN is under progress.
SER	1371	1371	0	100.00	Work completed
WR	2008	1339	669	66.68	Work in progress, Slow progress due to constraint of funds.
ECR	950	829	121	87.26	For providing 18 Coaches estimate under divisional account vetting on DNR, MGS, DHN.
NCR	309	207	102	66.99	
ECoR	2115	769	1346	36.36	PDC-Dec'12
NWR	890	890	0	100.00	Board allotted 150 coaches for provision of 18 points GSCN, fund allotment vetting.
WCR	370	370	0	100.00	
SWR	1136	396	740	34.86	Funds are required for work sanctioned during 2009-10 (Rs. 210.60 lacs.)
SECR	319	299	20	93.73	Material under procurement through stores.
Total	21850	18434	3416	84.37	

In most of the sleeper class coaches only two charging points have been provided. The scale of no. of charging points in sleeper coach has been increased to 18 nos. per coach. SER has provided DC charging points, the performance of DC charging points needs to be evaluated by RDSO.

3.0 Railway Electrification

3.1 DC-AC Conversion

➤ **Western Railway:**

- Status of condonation proposed.
- Likely target for Vile parle- Churchgate.

➤ **Central Railway :**

- Overall target for commissioning is Dec'2012.
- Target for KYN(Passenger)- Thane as per CR's monthly progress report- Dec'11. Status.
- Status of major contracts.
 - OHE contract for Thane-Kurla.
 - General service contract for Thane-CSTM.
 - General service contract for CSTM-Panvel.
 - General service contract for Thane-Saypada.
 - General service contract for Raoli-Bandra.
- OHE works yet to start on Raoli-Bandra section (CR portion). Status.
- Status of headroom clearance, specially Hancock bridge-Headroom -4.71m. Action plan.
- Progress of Sion/TSS

3.2 TRD Maintenance Posts Creation

CRB has written D.O. to following GMs on 29.11.2011 for creation of maintenance posts for TRD for newly created assets:

- (i) **SCR** : Kadappa-Kondapuram, Lingampalli-Wadi (Total-240 kms)
- (ii) **NR** : Rosa-Moradabad, Shakurbasti-Rohtak, Hardoi-Rosa, Khurja-Merrut-Saharanpur, GZB- Meerut, Utratia-Sultanpur-MGS, Noli-Shahdara (Total 950 kms)
- (iii) **SR**: Dindigul-Madurai (Total-65 kms)
- (iv) **WCR**: Bina-Kota (Total- 300 kms)

3.3 Project wise discussion - CORE to apprise project wise targets for CRS in the meeting

Projects under CPM/RE/MAS

Name of Project	Critical Issues	Remarks
Trivendrum-Kanyakumari (87 RKM)	(i) Condonation of 28 locations including 18 ROBs, 5 aqua ducts, 2 tunnels, 1 pipe line crossing, 2 FOBs. Condonations for 11 locations have been signed so far by PCE/SR. (ii) Incoming transmission line for Eraniel TSS (iii) Equipment erection at last switching post.	Parliament assurance item
Dindigul-Madurai (63 RKM)	FOB at yard, yard remodelling of Madurai.	Section Dindigul-Vellode (3 RKM) charged at 25 kv.
Madurai-Vanchimaniyanchi-Tuticorin-Nagercoil (159 RKM)		
Vellore-Villupuram (150 RKM)		

Projects under CPM/RE/UMB

Name of Project	Critical Issues	Remarks
Khurja- Meerut- Saharanpur (209 RKM)	(i) 4 FOBs to be raised. FOB at Deoband shall be the last to be raised by June'2012. Condonations to be processed in the meanwhile. (ii) S&T works in Muzaffarnagar yard – TDC Mar'12. (iii) Track slewing in Muzaffarnagar yard	5 kms which is targeted this year of Muzaffarnagar and yard will be charged on 2.2 kv by 28.02.2012
Ghaziabad-Meerut (45 RKM)	(i) S&T works in Muradnagar – TDC Feb'12.	All 37 kms of this year's target to be energised by Feb'2012.
Rosa-Moradabad (169 RKM)	(i) S&T works at Dhamora- by Dec'2011 (ii) S&T works at Shahzadpur- by Jan'2012 (iii) S&T works at Rampur by 15.03.2012 (iv) Condonation proposal of Clutterbuckganj FOB. (v) Condonation proposal of TGB 1075 (with Railway Board and of TGB 1077 (with PCE/NR)	
Suchipind- Pathankot(113 RKM)	(i) S&T works in Pathankot (TDC Feb'12), Budhi (TDC Feb'12), Kathua (TDC Jan'12)	

Name of Project	Critical Issues	Remarks
Pathankot-JAT (109 KM)	Jammu Tawi MACLS work by 31 st March'12	
JammuTawi-Udhampur (54 RKM)	OHE design work in progress due to difficult terrain	

Projects under CPM/RE/GKP

Name of Project	Critical Issues	Remarks
Gorakhpur-Chhapra	Finalisation of new contract.	Earlier contract terminated and planned to be floated by 12.12.2011 and aimed to be awarded by MAR'12. Overall target - March'2013
Barabanki-Gorakhpur(245 RKM)		

Projects under CPM/RE/HJP

Name of Project	Critical Issues	Remarks
Hajipur-Muzaffarpur-Barauni (157 RKM)		
Chhaprakatcheri-Bachwara-Barauni (111 RKM)	Condonation of Hajipur FOB, post creation by ECR	Application submitted for goods operation for Chhapra-Barauni via Shahpur Patoree (140 RKM). EIG for Hajipur TSS obtained.
Barauni-Katihar (187 RKM)		

Projects under CPM/RE/BBS

Name of Project	Critical Issues	Remarks
Khana-Sainthia-Pakur (155 RKM)		
Pandabeshwar-Sainthia (50 RKM)		

Projects under CPM/RE/Kota

Name of Project	Critical Issues	Remarks
Indore-Ujjain including Dewas-Maksi (115 RKM)	(i) Decision for SSP (ii) Mast and portal erection in yard (iii) Raising of 33 kV Tr. line (iv) Condonation of 2 ROB's and 1 FOB at yard. (v) Work on 4 numbers SWS.	Parliament assurance item, goods trains running in – Mangaliagaon
Kanpur-Jhansi (231 RKM)		Completion period as per contract is 29.03.12 and same should be insisted upon with the contractor for completion i.e. CRS application.
Bina-Kota (308 RKM)	Condonation for infridgements.	CRS application submitted.

Projects under CPM/RE/LKO

Name of Project	Critical Issues	Remarks
Utratia-Sultanpur (160 RKM)	* Signalling work of Sultanpur yard – TDC Mar'2012. * MACLS at Adhinpur, * Temporary condonation for Sultanpur FOB.	
Sultanpur-MGS (128 RKM)	Condonation of Varanasi FOB, work of 23 switching posts, 5 TSS	
Varanasi-Phaphamau-Unchahar (207 RKM)		
Hardoi-Roza (53 RKM)	Maintenance posts by NR. Only 7 created.	Approval of goods operation on electric traction exists. CRS has not accepted the application for want of maintenance post.
Alamnagar-Utratia-Dilkusha (23 RKM)		Section on 25 kv

Projects under CPM/RE/NJP

Name of Project	Critical Issues	Remarks
Katihar-Barsoi via Kumedpur-Raninagar-NJP (267 RKM)	(i) Issue of leaning masts at time of new erection. (ii) Non- availability of SPS. (iii) Shortage of supervisors.	This is a composite contract in which material is in scope of contractor.

Projects under CPM/RE/SC

Name of Project	Critical Issues	Remarks
Lingampalli-Wadi (161 RKM)	Slow progress of OHE contractor, M/s. B&C	CRS sanction already received for Lingampalli-Tandur.
Wadi yard (3 RKM)	TDC for signalling works – Feb'12	
Kengeri-Mysore (125 RKM)		
Bangalore area (54 RKM)		
Bangarpet – Marikuppam (16 RKM)		

3.4 Tower Wagon POH Programme 2011-12

As per Mechanical Dte's letter nos. 2011/M(W)/814/1 dated 18.02.11, 03.03.11 and 30.06.11.

Railways	Type of TW	POH Shop
CR	4 Wh & 8Wh	MIB
ER, ECR & ECOR	8 Wh	KPA
ER & ECR	4 Wh	JMP
SER	4 Wh & 8Wh	KGP
SECR	4 Wh & 8Wh	MIB
SCR	4 Wh & 8Wh	LGDS
NCR	4 Wh & 8Wh	JHS
WR	4 Wh	MX
WR	8Wh	DHD
SR	4 Wh & 8Wh	PER/L
WCR	4 Wh	KTT
WCR	8Wh	DHD
ECOR	4 Wh	JMP

Railway may like to offer their views regarding various maintenance schedules, need for setting up separe workshop for maintenance of tower wagons.

4.0 Elect Energy Management

4.1 Reliability improvement measures:

- (i) Increase in punctuality loss cases on OHE account is a cause of concern and need to be addressed appropriately by each zonal railway. There have been 498 incidences during Apr-Nov 11-12 compared to 491 cases in corresponding period of last year. Major increase in cases are due to OHE parting (increased to 42 from 38 cases last year), tower wagon failures (increased to 22 from 11 cases last year) & CB tripping (increased to 52 from 45 cases last year). It is disturbing to note that only three Railways i.e NCR (30%), ECR (22%) & NR(11.6%) alone contributed over 63.6% of the overall punctuality loss cases. These railways should intensify their efforts to keep the OHE in good fettle by conducting regular and periodical drives and by initiating immediate corrective action. The details of the failures are enclosed at **Annexure EEM-1**.
- (ii) As per Board letter no. 2008/Elect(G)/161/8 Punct. New Delhi, dated 26.09.11, each railway shall submit a one page failure report for each major failure like Panto entanglement, OHE parting, failure of insulators and LA bursting etc. by the next morning under the signature of CEE, a copy of this report be also marked to RDSO. RDSO shall submit the detailed analysis to Board by the end of each month. Most of railways have not started regular feedback to Board & RDSO.
- (iii) Recent analysis of punctuality loss case on account of OHE has revealed a disturbing trend of on-line failures of tower wagons due to trivial causes largely attributed towards maintenance lapses like leakage of mobil oil, breakage of propeller shaft bolt, breakage of gear box end circlip etc. Zonal Railways were advised to launch a special drive from 25.11.11 to 09.12.11 for checking of all tower wagons including at component level so as to minimise their on-line failures.
- (iv) Zonal Railways were earlier advised for 24 points action plan for improving OHE reliability vide Board's letter No. 2008/Elect(G)/161/8/Punct dt. 28.9.10. Subsequently Railways were advised for 12 vital action plan items to be monitored at Railway Board level on monthly basis. The required information is not being received regularly.
- (v) Railways shall revalidate their protection scheme at all the TSSs & should target to replace Electromagnetic relay by numerical relays.

4.2 Tower Wagon Maintenance

There are 373 nos. 4 wheeler tower wagon & 107 nos 8 wheeler tower wagon across Indian railways. Tower wagon failures are increasing day by day. The failure pattern of last three month is attached in **Annex-EEM 2**. All the railways have been advised for a nominated depot for POH. There is a need to review the policy of tower wagon maintenance to ensure timely completion of POH and other maintenance schedules.

4.3 Review of important ongoing work :

The list of important works related to safety (**Annex-EEM 3**) and capacity enhancement works (**Annex-EEM 4**) are enclosed for review.

4.4 Creation of Gazetted & Non-gazetted posts:

The details of different posts under creation at Board level is enclosed at **Annex – EEM 5 & 6**. Different railways have been advised vide CRB DO letters to GM for creation of 50% posts required as per yardstick for newly opened Railway Electrification routes. Railways are advised to process the cases that have been closed by Board due to non reply of requisite information or rejected due to insufficient justification. All individual Gazetted post creation case shall be processed separately giving justification based on yardstick, giving details of work/new line/RE/new Shed recently created in the prescribed performa. In view of problems in creation of posts, Railways shall consider alternate methods of maintenance including outsourcing of certain activities

5.0 Elect(Dev.)

5.1 Setting up of Greenfield electric loco manufacturing factory

Physical possession of 152.85 acres of land has already been taken over. Rs. 6.60 Cr.As compensation been distributed to land losers. For construction of 132/33 kV substation, draft agreement with M/s PGCIL and detailed estimate is under finalization. For rail & road connectivity work, detailed estimated is under approval at ECR. Total funds spent upto Set'2011 is Rs. 58.51 Cr.

5.2 Setting up of loco assembly & ancillary unit for CLW

Hon'ble MR has approved for setting of ancillary unit of CLW at Dankuni as departmental Production Unit and has been communicated to GM/CLW & GM/ER.

Annexures

Status of VCD

IC Electricals

S. No.	Rly	P.O. quantity	Supplied quantity	Commissioned	Shed wise details
1	NR	30	30	30	GZB:30
2	SCR	283	167	36	LGD:33, ET:3
3	WCR	24	24	24	ET:24
4	SER	387	30	20	BNDM:10,TATA:10,ASN:10
5	ER	-	-	-	-
6	BHEL	20	20	20	BIA:20
7		744	271	140	140

Plan: Balance 473 by Feb'12.

Constraints:

- 2000 No. PO of buzzer on WOAMA, 440 supplied. As per the Woama- the supply (400 nos) will be: 50 nos by 01/12-supplied on 01/12, 50 nos by 10/12, 100 nos by 17/12, 50 nos by 28/12, 50 nos by 4/1 and 50 nos by 25/1.
- Ack push button, reset push button, LED indication and foot switch order placed on m/s Hotline on 02.12.11. Delivery schedule of hotline given below*.

*

I C ELECTRICALS									
Item Description	Qty	Immediate	Dispatches in month of December 2011				Balance	Dispatches in month of January 2012	
			20.12.11	28.12.11	25.12.11	28.12.11		20.01.12	Balance
LED Indication Lamp as per CLW No.CLW/ES/3/0072/Alt.C	400	100	1	300			0		0
LED Indication Lamp as per CLW No.CLW/ES/3/0072/Alt.C	800	200		600			0		0
LED Indication Lamp as per CLW No.CLW/ES/3/0072/Alt.C	400	100		300			0		0
Foot Switch - Loaded for Vigilance as per CLW No. CLW/ES/3/0032/Alt.C	400	48	67	69		100	116	116	0
Flush type Push Button along with Element (1NO1NC) (Yellow) as per CLW No. CLW/ES/3/0072/Alt.C	400				400		0		0
Booted type Push Button along with Element (1NO) as per CLW No.CLW/ES/3/0072/Alt.C	400				400		0		0

Stessalit

S. No.	Rly	P.O. details	Supplied quantity	Commissioned	Shed wise details
1	SR	250	20	14	ED:14
2	CR	150	5 +25	4	AQ:4
3	WR	160	0	0	
4	WR	90	25	24	BRC:23, BL:01
5	SECR	50	0	0	
6	ECR	233	0	0	
		933	50	42	42

Plan: 50 under despatch, 833 balance by Mar'12.

Constraints:

- 1000 No. PO of relay on ABB. Delivery schedule given by ABB – Nov'11-50-Supplied, Dec'11-150, Jan'12-200, feb'12-200, Mar'12-200, Apr'12-200 (Spoke to Susanta Roy, VP to expedite)
- 1800 No. PO of buzzer on WOAMA, 400 supplied. As per the Woama- the supply will be: 120nos by 21/12, 100 nos by 31/12, 100 nos by 11/01, 150 nos by 21/01, 100 nos by 29/01 and the bal by 29/02.

Medha

S. No.	Rly	P.O. details	Supplied quantity	Commissioned	Shed wise details
1	NCR(JHS)	105	55	20	JHS:20
2	NCR(CNB)	60	60	03	CNB:03
3	SER	166	70	49	TATA:26,BNDM:9, SCR:10, KGP:4, Total:49
4	CLW	130	130	09	CLW: 9
5	WR	-	55	53	BRC:28, VL:25
6	ER	15	15 (10 HWH, 5 ASN)	2	HWH:1, ASN:1
		476	400	136	136

Plan: Balance 76 by Feb'12 mid.

Constraint:

- 1000 No PO of buzzer on WOAMA, 800 supplied. As per Woama, balance 200 nos will be supplied between 15/12 and 15/01.
- 125 balance PO of relay on WOAMA will be supplied between 15/12 and 15/01.

Saitronik					
S. No.	Rly	P.O. details	Supplied quantity	Commissioned	Shed wise details
1	CR	138	0	0	-
2	SCR	173	50	34	BZA: 34
3	ECOR	96	20	0	-
4	BHEL	35	15	8	NCR: 8
		442	85	42	42
Plan: Balance 357 by Feb'12					
Constraints: ##					

##

S.No	Description	Ordered Qty	Received Qty	Pending Qty	Remarks
I. WOAMA Electricals - Kolkata.					
1	Buzzer	900	220	680	As per the Woama- the supply will be: 120nos by 03/12- supplied on 02/12, 100 nos by 17/12, 100 nos by 31/12 and the bal by 15/01/12.
2	RELAY (110VDC COIL VOLTAGE)	450	110	340	As per the Woama- the supply will be : 30nos by 03/12. The bal qty supply will be after 15/12 on wards and will complete by 15/01/12.
II. M/s.INDFOS, Chennai.					
1	Pressure Switches RT-18-SB-X (Cut in 4.5, Cut out 4.8kg/cm ²) A9,BP	900	380	520	Supply details: as per the Indfos: 50% of the bal qty before 31.12.11 and the bal by 31.01.2012.
2	Pressure Switches RT-18-SB-X (Cut in 4.0, Cut out 3.5kg/cm ²)HORN1&2	900	350	550	Supply details: as per the Indfos: 50% of the bal qty before 31.12.11 and the bal by 31.01.2012.
3	Pressure Switches RT-200-SB-X (Cut in 1.0, Cut out 1.5kg/cm ²) SA9	450	220	230	Supply details: as per the Indfos: 50% of the bal qty before 31.12.11 and the bal by 31.01.2012.
III. M/s DRD IMPEX PVT. LTD. Gurgoan. Since the DRD dealership was cancelled now we are in touch with HOTLINE , NOIDA - directly.					
1	FOOT SWITCH (B.NO .0110/CLW/510)	900	200	700	Details given separately below**
2	LED_Green	900	200	700	-Do-
3	LED_Yellow	900	200	700	-Do-
4	LED_Red	1800	400	1400	-Do-

5	Reset push button switch (WHITE)	900	200	700	-Do-
6	Reset push Button Switch (yellow)	900	200	700	-Do-

**

SAITRONIKS									
Item Description	Qty	Dispatched	Dispatches in month of December 2011					Dispatches in month of January 2012	
			15.12.11	21.12.11	25.12.11	28.12.11	Balance	12.01.12	Balance
LED Indication Lamp as per CLW No.CLW/ES/3/0072/Alt.C	730		258			472	0		0
LED Indication Lamp as per CLW No.CLW/ES/3/0072/Alt.C	1460		516			944	0		0
LED Indication Lamp as per CLW No.CLW/ES/3/0072/Alt.C	730		258			472	0		0
Foot Switch – Loaded for Vigilance as per CLW No. CLW/ES/3/0032/Alt.C	701	101	0	150		200	250	250	0
Flush type Push Button along with Element (1NO1NC) (Yellow) as per CLW No. CLW/ES/3/0072/Alt.C	730		0		730		0		0
Booted type Push Button along with Element (1NO) as per CLW No.CLW/ES/3/0072/Alt.C	730		649		81		0		0

ANNEX - II**Maintenance Schedules and Periodicity of Electric Locomotives****(i) & (ii) Conventional Locos****Coaching locos - WAP-1/WAP-4/WAM-4**

(Ref. : Rly. Bd. Letter No. 92/Elect(TRS)/138/5 Pt. I, dated 18.01.2001
& Rly. Bd. Letter No. 92/Elect(TRS)/138/5 Pt. II, dated 21.12.2001)

Maintenance schedule	Periodicity		Duration
	Previously	Presently	
Trip inspection (TI)	After 2500kms or one trip whichever is later.	After 3000kms or one trip whichever is later.	2 hrs
IA	30 + 3 days	40 + 3 days	4 hrs
IB	60 + 3 days	80 + 3 days	6 hrs
IC	120 + 3 days	120 + 3 days	8 hrs
AOH	12 months + 15 days	12 months + 15 days	6 working days
IOH	36 months + 1 month or 3 lakh kms whichever is earlier.	36 months + 1 month or 4 lakh kms (6 lakh for WAP-1/4 loco) whichever is earlier.	9 working days
POH	6 years + 3 months or 8 lakh kms whichever is earlier.	6 years + 3 months or 8 lakh kms (12 lakh for WAP-1/4 loco) whichever is earlier.	28 working days

Freight locos - WAG-5 locos (Ref. : Rly. Bd. Letter No. 92/Elect(TRS)/138/5 Pt. I, dtd. 18.01.2001):

Maintenance schedule	Periodicity		Duration
	Previously	Presently	
Trip inspection (TI)	15 days (fitted with TAO TMs) 20 days (fitted with Hitachi TMs)	15 days (fitted with TAO TMs) 20 days (fitted with Hitachi TMs)	2 hrs
IA	30 + 3 days	45 + 3 days	4 hrs
IB	60 + 3 days	90 + 3 days	6 hrs
IC	120 + 3 days	135 + 3 days	8 hrs
AOH	12 months + 15 days	18 months + 10 days	6 working days
IOH	36 months + 1 month or 3 lakh kms whichever is earlier.	54 months + 1 month or 6 lakh kms whichever is earlier.	9 working days
POH	6 years + 3 months or 8 lakh kms whichever is earlier.	9 years + 3 months or 12 lakh kms whichever is earlier.	28 working days

Freight locos - WAG-7 locos (Ref. : RDSO's. Letter No. EL/3.6.1 dated 25.04.2011):

Maintenance schedule	Periodicity		Duration
	Previously	Presently	
Trip inspection (TI)	15 days (fitted with TAO TMs) 20 days (fitted with Hitachi TMs)	15 days (fitted with TAO TMs) 20 days (fitted with Hitachi TMs)	2 hrs
IA	45 + 3 days	60 + 3 days	4 hrs
IB	90 + 3 days	120 + 3 days	6 hrs
IC	135 + 3 days	180 + 3 days	8 hrs

AOH	18 months + 10 days	18 months + 10 days	6 working days
IOH	54 months ± 1 month or 6 lakh kms whichever is earlier.	54 months ± 1 month or 6 lakh kms whichever is earlier.	9 working days
POH	9 years ± 3 months or 12 lakh kms whichever is earlier.	9 years ± 3 months or 12 lakh kms whichever is earlier.	28 working days

(iii) 3-Ph. ABB locomotives (Ref. : Rly. Bd. Letter No. 97/Elect(TRS)/440/18/44(3-Ph, dt. 23.02.07)

Coaching Locos - WAP5/WAP7 locos

Maintenance schedule	Periodicity	Duration
Trip Inspection	3000 kms or one trip, whichever is later	2 hrs
IA	90 days	6 hrs
IB	180 days	6 hrs
IC	270 days	8 hrs
MOH	18 months	6 working days
IOH	4.5 years + 6 months or 12 lakh kms. whichever is earlier.	11 working days
POH	9 years + 6 months or 24 lakh kms. whichever is earlier.	28 working days

Freight Locos - WAG9/WAG9H locos

Maintenance schedule	Periodicity	Duration
Trip Inspection	45 days	4 hrs
IA	90 days	6 hrs
IB	180 days	6 hrs
IC	270 days	8 hrs
MOH	18 months	6 working days / 8 working days for 2 nd MOH
IOH	6 years ± 6 months or 12 lakh kms. whichever is earlier.	11 working days
POH	12 years ± 6 months or 24 lakh kms. whichever is earlier.	28 working days

Ongoing works for setting up of Electric Loco sheds sanctioned in different Budgets under Plan Head-42.

Fig. in "000" of Rs.

Rly.	Description of work	PB item no of 11-12	Yr. of sanction	Anti. Cost	Outlay upto 2010-11	Outlay 11-12	Balance to complete.	Status
EC.Rly.	BJU: New shed to home 100 locos.	506	2010-11	496000	500	3043	492457	Detailed estimate sanctioned & approved by GM. Earth & boundary work under approval of CAO/Const.
N.Rly.	KGY: New shed to home 100 locos	655	2008-09	608034	134998	6085	466951	Contract awarded on 25.3.09. Physical progress 15%, Fincial progress 20%
SC.Rly	GTL: Loco shed to home 100 locos.	469	2008-09	793015	10101	6085	776829	Earth levelling work & compound wall work is in progress. 95% completed. 9 indents on COFMOW.
SE.Rly.	BKSC: Loco shed to home 100 locos.	383	1996-97	429986	302140	3085	124761	Physical progress 95%, 63 nos M&P items received and 11 indents at COFMOW.
SEC.Rly.	RIG/BSR: Loco shed to home 100 locos	309	2008-09	368600	5300	12170	351130	LOA issued, Boundary wall & earth levelling completed, Fabrication work held up. Funds to the tune of Rs. 8.0 Cr. is required during 11-12.

Ongoing works for Shed Augmentation sanctioned in different Budgets under Plan Head-42.

Rly.	Description of work	PB item no of 11-12	Yr. of sanction	Anti. Cost	Outlay upto 2010-11	Outlay 11-12	Balance to complete	Status
C.Rly	KYN: Renov. For homing AC locos	317	2007-08	49745	21485	4501	23759	LOA issue, Civil work almost comp. Work held up for funds.
	AQ: Aug. from 120 to 175 locos.	329	2009-10	91850	10010	3000	78840	Drawings prepared by Cy.CEE/Const/AQ under approval at CE/Const/CSM.
	KYN: Facilities to home 3 ph. Locos	330	2009-10	157838	10038	2000	145800	LOA issued for civil work on 27.7.10.M&P indents on COFMOW
	GMO: Aug. from 100-120	487	2007-08	34492	500	6357	27635	Re-tender on 23.6.10 under TC,LOA for elect work issued, M&P s under procurement.
EC.Rly	MGS: Aug from 120 to 150 locos	498	2008-09	29367	15692	2130	11545	LOA issued. Physical progress-65%. Out of 41 M&P items 28 items received.
	GMO: Aug. from 120-175	512	2011-12	142500	0	304	142196	Detailed Estimate prepared under vetting. Physical progress 0%.
ECo.Rly	VSKP: Aug of shed upto 175 locos.	374	2009-10	126100	500	6085	119515	Estimate sanctioned, Tender schedule under preparation.
	ANGL: Aug. from 100 to 150 locos	377	2011-12	150000	0	304	149696	Estimate sanctioned, Tender schedule under preparation.
	GZB: Aug from 120 to 150 locos	666	2009-10	173640	500	6357	166783	Detailed Estimate costing Rs. 21.9 Cr. sanctioned, M&P indents sent to COFMOW
N.Rly	GZB: Aug from 150 to 175 locos	669	2010-11	80000	500	6085	73415	Detailed Estimate costing Rs. 10.2 Cr. sanctioned, Indents under vetting, work in progress.
	LDH: Aug fro 150 to 175 locos.	670	2010-11	80000	500	6085	73415	Detailed Estimate is under preparation.
	CNB: Aug from 120 to 150 locos.	486	2007-08	65788	29845	6357	29586	Physical progress almost 80%, OHE work under progress, S&T tender opened on 12.5.11.
	JHS: Aug from 120 to 150 locos.	487	2007-08	83713	13660	6357	63696	Building work 25%, Contract for elect. Work awarded & work is under progress.
NC.Rly.	JHS: Aug from 150 to 1750 locos.	492	2009-10	85904	5601	6357	73946	Detailed Estimate sanctioned.
	CNB: Aug from 150 to 175 locos.	495	2010-11	96500	500	6357	89643	Detailed Estimate under preparation.
	RPM: Aug from 50 to 100 locos.	518	2008-09	157328	34496	6085	116747	Contract awarded & work is in progress, funds to the tune of Rs. 7.8 cr. is required, work held up.
S.Rly.	ED: Aug from 120 to 175 locos.	519	2008-09	127356	21118	6085	100153	Civil contract awarded, work held up for funds. 26 M&P indents placed, 04 received.
	AJJ: Aug from 120 to 150 locos.	524	2009-10	96445	15020	6085	75340	Detailed estimate sanctioned on 13.9.10, tender not yet floated for want of funds.
	LGD: Aug from 100 to 150 locos.	464	2008-09	69937	11900	6357	51680	Work startd in Jan-09 and work is under p/progress. 20 M&P indents placed, balance under process.
SC.Rly	BZA: Aug from 120 to 175 locos.	465	2008-09	127652	7501	6357	113794	Contract awarded in Jan-10 & work is under progress. 55 M&P indents placed, balance under process.
	KZJ: Aug from 100 to 125 locos.	481	2010-11	100000	500	6357	93143	Tender opened on 03.06.11 is under finalisation. 7 M&P indents placed.
	LGD: Aug from 150 to 175 locos.	489	2011-12	70700	0	304	70396	Detailed estimate under preparation.
SE.Rly.	BNDM: Aug to home 175 elect. Locos	392	2009-10	102120	13500	6085	82535	LOA issued, Foundation & fabrication work completed. Elect. LOA issued work not started.
	TATA: Facilities to home 3 ph locos.	398	2010-11	70000	500	6085	63415	Estimate sanctioned. Tender opened on 03.11.2011.
SEC.Rly	BIA: Aug of shed from 150 to 175 locos	308	2008-09	120000	66235	15213	38552	Contract for Civil Engg. Work awarded on 28.1.11 and work is under progress.
	BRC: Aug of shed to home 150 locos	408	2009-10	74148	50228	6085	17835	Civil work completed, M&P indents for EOT cranes etc. on COFMOW.
W.Rly.	BRC: Aug from 150 to 175 locos.	411	2010-11	110398	20000	6085	84313	LOA issued for civil works. For elect. Work tender opened & discharged for fund.
	BL: Aug from 100 to 125 locos.	412	2010-11	80000	500	6357	73143	Detailed estimate sanctioned. NIT for Engg. Work issued.
	NKJ: Aug from 120 to 175 elect. Loco	390	2008-09	97913	54159	6357	37397	Civil & Elect. Contract awarded, 40% work completed. M&P indents sent to COFMOW.
WC.Rly.	TKD: Aug from 120 to 175 elect. Locos	391	2008-09	99959	53605	9535	36819	Civil & Elect. Contract awarded, 35% work completed. 21 M&P out of 27 received.
	ET: Aug from 120 to 175 elect. Locos	395	2009-10	119100	15000	6085	98015	Civil Engg. Tender cancelled once for want of fund, re-tender opened on 12.10.10 under TC.

ANNEX III

Ongoing works for setting up of new shop / Shop Augmentation sanctioned in different Budgets under Plan Head-42.

Rly.	Description of work	PB item no of 11-12	Yr. of sanction	Anti. Cost	Outlay upto 2010-11	Outlay 11-12	Balance to complete	Status
NC.Rly.	CNB: Facilities for 3 ph. TM rewinding	500	2011-12	84000	0	318	83682	Detailed Estimate under preparation.
W.Rly.	DHD: MTR capacity from 54 to 108.	413	2010-11	280000	500	6357	273143	Detailed estimate under account vetting. Work frozen for 2011-12.
W.Rly.	BRC: Setting up of POH shop at Dabohi for 100 locos	414	2007-08	1178824	508435	14498	655891	TC under approval of GM for seeding it for acceptance of Hon'ble MR. Boundry wall & 47 staff quarter work completed.

Ongoing works for setting up of new shop / CLW Augmentation sanctioned in different Budgets under Plan Head-42.

Rly.	Description of work	PB item no of 11-12	Yr. of sanction	Anti. Cost	Outlay upto 2010-11	Outlay 11-12	Balance to complete	Status
CLW	CLW: Aug for production of 200 locos	9	2006-07	925104	484080	38681	402343	Contract for civil work awarded & is under progress. PCMIS: Hardware PO placed. For M&P items indents on COFMOW.
CLW	CLW: Aug for prod. Of 50 3 Ph. Locos	10	2007-08	155247	16311	24340	114596	Tender of paint booth opened in Mar-11 under TC. 58 additional computers have been procured. Extension of bay-9 dropped.
CLW	CLW: Aug for prod. From 200 to 275	15	2010-11	1300000	500	12170	1287330	Detailed estimate sanctioned. Tender documents & indents under preparation.
CLW	CLW: Centre of excellence	16	2010-11	420000	0	6085	413915	Tender for consultancy opened & LOA issued to M/s E.C.Engg. Poland on 15.4.11..
CLW	DKU: Setting up of loco assembly & ancillary unit for CLW.	11	2009-10	653163 576837	46976 330000	36511 100000	569676 146837	Hon'ble MR has approved for setting up of ancillary unit of CLW at DKU as departmental P.U.
EC.Rly.	Madhepura: Setting up of greenfield elect. Loco manufacturing factory.	495	2007-08	12935700 6670000	712617 1000000	30426 500000	12192657 5170000	Land possession of 152.85 acres completed. Detailed estimate for 132/11 kV SS is under finalization

Sr.	Date	Rlys	Division	Section Code	Rly feed back
1	10-Sep-11	ECR	DNR	DNR-MKA	Tower wagon no. 868/BKP (Mark-IV, four wheeler) failed for smoke emission from control junction box and wire melted. Section cleared by DSL loco.
2	2-Oct-11	ECR	DNR	DNR-MKA, MGS-DNR	TW No. 6512/8 wheeler /DNR failed for MCB 36 tripped due to 24 V ckt wire no. 805 & 800 over heated & open circuit. DSL loco given.
3	10-Oct-11	SECR	BSP	APR-BSP	Tower wagon no. 6023 of APR/depot. (Mark-II, 4 wheeler) failed for engine seized. R/engine given.
4	22-Oct-11	ECR	DNR	DNR-MKA	After tower wagon shunting at MKB station point no-55B flashing due to point operated rod bent. Being refuted.
5	23-Oct-11	ECR	DNR	MKA-JAJ	After tower wagon shunting at MKB station point no-55B flashing due to point operated rod bent. Being refuted.
6	24-Oct-11	ECR	DHN	BRKA-CRP	
7	25-Oct-11	CR	BB	KYN-IGP	Tower wagon no. 1882/VSD (Mark-2, 4 wheeler) failed for engine gear box circlip broken and stuck up. R/engine given.
8	6-Nov-11	ECOR	KUR	GBK-BHC	After OHE power block, tower wagon 710008/CAP (Make-Faltus/mark-3) failed for pneumatic gear stuck up due to valve lever disconnected. R/engine given.
9	8-Nov-11	SR	TVC	SRR-CHTS	TW No. 2011060057/CKI(4 Wheeler) detained for MR pressure dropped due to unloder valve stuck up in open condition. Same isolated then worked.
10	17-Nov-11	NCR	JHS	JHS-AGC	Tower wagon no. 8408 (4 wheeler, Mark-II) of ALD/Depot. shut down due to lube oil filter nut bolt loosen. R/engine given.
11	19-Nov-11	WCR	KOTA	GGC-MTJ	After OHE power block tower wagon no. ERU-31/BET Depot.(Mark-2) 4 wheeler failed for propeller shaft bolt broken. Block section cleared by manual pushing.

List of Electrical Works related to Safety

SN.	PB Item No 2011-12	Particulars	RLY	Year of Inclusion	Alloc	Latest Anticipated Cost	Outlay expected to end of 2010-11	Outlay proposed for 2011-12	Balance to complete work	Category
1	284	Mumbai - Repl. of 500 mt steel structure	CR	07-08	DRF	12,29,30*	8,79,30	50,00	3,00,00	T-SAFETY
2	294	Mumbai Division - Repl. of 500 mt steel structure	CR	08-09	DRF	12,24,54*	1,09,42	1,00,00	10,15,12	T-SAFETY
3	302	Mumbai - Repl of 250 mt steel structure	CR	10-11	DRF	6,12,57*	5,00	50,00	5,57,57	T-SAFETY
4	516	Asansol Division - Repl. of mast at critical implantion phase -vi 300 nos.	ER	09-10	DRF	8,22,53	1,79,25	1,00,00	5,43,28	T-SAFTEY
5	518	Howrah Division - Repl. of overhead equipment structure & removal of light implantion masts/portlis	ER	09-10	DRF	6,17,84	10,00	1,00,00	5,07,84	T-SAFTEY
6	357	Chakradharpur Division - Improvement of horizontal clearance phase-v	SER	08-09	DRF	5,70,10	4,22,42	50,00	97,68	T-SAFTEY
7	360	Adra Division - Improvement of implantation of overaged equipment mast having critical of implantation (750 nos)	SER	09-10	DRF	5,22,71*	2,00,00	1,00,00	2,22,71	T-SAFTEY
8	374	Chakradharpur Division - Improvement of horizontal clearance of traction masts from central lines of track (Ph-VII).	SER	2011-12	DRF	52,000	-	500	51,500	T-SAFETY

List of Electrical Works related to augmentation of Capacity

(Figures in thousand of Rupees)

SN.	PB Item No 2011-12	Particulars	RLY	Year of Inclusion	Allocation	Latest Anticipated Cost	Outlay expected to end of 2010-11	Outlay proposed for 2011-12	Balance to complete work
1	278	Pachora & Chalisgaon - Repl. of transformers by 21.6 mva with switchgear 2 nos.	CR	07-08	DRF	6,37,19*	6,01,16	36,00	3
2	279	Betul & Multai - Repl of transformers by 132 kva 21.6 mva.	CR	07-08	DRF	7,11,56*	2,97,54	2,00,00	2,14,02
3	292	Malkapur - Repl. of 13.5 / 20 mva traction transformer by 21.6/30 mva 2 nos.	CR	08-09	DRF	5,17,48	1,01,52	2,00,00	2,15,96
4	509	Bandel-Saktigarh - Conversion of unregulated overaged equipment to regulated one phase-I.	ER	07-08	DF(3)	17,57,00	4,29,79	75,00	12,52,21
5	510	Howrah-Bandel - Conversion of unregulated overhead equipment to regulated one phase-II.	ER	07-08	DF(3)	17,36,03	4,42,06	75,00	12,18,97
6	514	Shaktigarh-Bardhaman - Conversion of unregulated DC system based overhead equipment to conventional regulated AC equipment in 4-line section.	ER	08-09	DRF	12,91,83	65,67	50,00	11,76,16
7	617	Parwanoo - 132 / 25 kv traction substation.	NR	08-09	DF(3)	11,48,39	6,27,95	60,22	4,60,22
8	618	Ballabgarh - Repl. of power transformers of 12.5 mva by 21.6 mva capacity 2 nos.	NR	08-09	DRF	6,64,34	6,14,34	25,00	25,00
9	620	Ghaggar (Traction Sub-station) - 2nd transformer.	NR	08-09	DF(3)	6,37,02	5,35,92	30,50	70,60
10	436	Vijayawada-Gudur - Upgradation of 12.5 mva transformer to 21.6/30.24 mva with associated switchgear & control equipment.	SCR	08-09	DRF	7,58,53	4,98,20	1,50,00	1,10,33

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11	437	Vijaywada-Gudur - Upgradation of 12.5 mva transformer to 21.6/30.24 mva with associated switchgear & control equipment.	SCR	08-09	DRF	7,58,97	3,51,06	2,50,00	1,57,91
12	438	Sirpur Kagaznagar - Repl. of 13.5 mva transformers by 21.6/30.24 mva with associated switchgear 4 nos.	SCR	09-10	DF(3)	7,43,47	3,00,00	2,15,00	2,28,47
13	446	Nalgonda & Ramagundam - Repl of 12.5 mva traction transformers by 21.6/30.24 mva capacity with associated switchgear 1 nos.	SCR	10-11	DRF	7,00,00	5,00	50,00	6,45,00
14	350	Banspani - 132 / 25 kv railway owned traction sub station.	SER	04-05	DF(3)	10,78,09*	10,42,52	35,57	0
15	351	Hijli & Dalbhumgarh - New railway owned traction sub station.	SER	06-07	DRF	21,73,65*	20,19,97	1,53,68	0
16	353	Kolaghat - Repl. of State Electricity Board operated / maintained TSS by railway owned sub station.	SER	08-09	DRF	14,34,00*	12,58,33	1,75,67	0
17	359	Adra-Bhujudih - Conversion of unregulated overhead equipment into regulated one.	SER	09-10	DRF	6,14,45*	3,72,07	50,00	1,92,38
18	362	Purulia - 132/25 kv railway owned TSS in repl. Of feeding post.	SER	10-11	DRF	17,64,00	4,00,00	3,00,00	10,64,00
19	363	Rajkharwan - Repl of sub-stations.	SER	10-11	DF(3)	17,73,36	4,00,00	50,00	13,23,36
20	365	Salgajhari - Augmentation of power transformer with switchgear.	SER	10-11	DRF	9,62,86	4,00,00	3,00,00	2,62,86
21	366	Bondamunda - 220/25 kv railway owned traction sub station.	SER	10-11	DF(3)	37,71,15	4,00,00	1,00,00	32,71,15
22	382	Limkheda - Addl. 21.6 mva traction sub-station with transmission line 2 nos.	WR	10-11	Cap.	14,90,00	1,00	3,90,00	10,99,00
23	384	Churchgate-Virar - Conversion of DC to AC in mumbai suburban.	WR	96-97	Cap.	114,21,00	48,37,59	10,00,00	55,83,41
24	389	Borivali-Virar - Conversion of unregulated overhead equipment to regulated one left over patches through lines incl. improvement of layout.	WR	08-09	DRF	6,17,76	2,98,46	2,50,00	69,30

25	341	Kottavalasa-Kirandul Augmentation of traction distribution system by upgrading 2 traction sub station with 21.6 transformers each 2 nos.	ECOR	06-07	DF(3)	10,00,10	9,86,55	13,55	..
26	342	Kottavalasa-Kirandul Augmentation of traction distribution system by upgrading 2 traction sub station with 21.6 transformers each 2 nos.	ECOR	07-08	DF(3)	11,45,00	9,94,08	75,00	75,92
27	343	Duvvada - 132/25 kv traction sub-station.	ECOR	07-08	DF(3)	5,99,00	4,23,14	75,86	1,00,00
28	295	Himgir - New traction substation and associated 132 kv transmission line from orissa state electricity board 30 km.	SECR	08-09	DF(3)	18,26,75	10,04,81	50,00	7,71,94
29	365	Sukhisewaniya - Repl. of 132/27 kv 13.5 mva 50 hz single phase traction power by 21.6 mva 2 nos.	WCR	06-07	DF(3)	5,74,33	5,35,30	39,03	..
30	36	Bhopal Divisions - Repl. of 13.5 mva traction power transformer by 21.6 mva Gulabganj & Obdeullaganj.	WCR	07-08	DRF	15,07,00	9,07,74	1,00,00	4,99,26
31	370	Powerkheda, Gurla & Sawai Madhopur - Repl. of 13.5 mva traction power transformers by 21.6 mva 1 nos. Each	WCR	08-09	DRF	12,54,95	10,44,69	1,90,00	20,26
32	372	Bina & Sawaimadhapur - Repl of 12.5 / 21.6 mva traction power transformer by 30 mva 2&1 nos. respectively.	WCR	09-10	DRF	29,66,72	1,05,00	1,00,00	27,61,72
33	373	Budhni - Add. traction sub-station.	WCR	10-11	DF(3)	15,56,39	5,53	1,30,00	14,20,86
34	268	Mumbai Division - 1500 v DC traction system to 25 KV system	CR	96-97	DRF	4,342,600	632,779	100,000	1,526,821
35	308	Kalyan Traction Distribution - Arrangement of 110KV, 3-phase 18 MVA additional power supply totaling to 30 MVA at Igatpuri for Igatpuri-Kasara section of Mumbai Division.	CR	2012-13	DF	53,711	-	500	W

36	311	Bhusawal Traction Distribution - Augmentation of traction transformer capacity by replacing 10.5 MVA Scott connected transformer by 21.6 / 30 MVA Transformer along with HV & LV switchgear at Pachora & Manmad Grid Substations in Bhusawal Division of Central railway.	CR	2012-13	DRF	69,442	-	500	68,900
37	503	Chennai Dn: Augmentation of capacity from 21.6 to 30MVA and shifting of Traction Sub Station nearer to Feeding post in Railway land of Tambaram Traction sub station.	SR	2012-13	DF	146,300	-	500	145,800
38	376	Jharagram-New railway owned Traction Sub-station.	SER	2012-13	CAP	188,793	-	500.00	188,200
39	391	Vadodara Division:- Provision of New Traction Sub station at Lakodara alongwith transmission line.	WR	2012-13	CAP	178,900	3,000	6,357	69,669
40	375	Kota Division- Replacement of existing 132 / 25 kV, 13.5 MVA Traction power transformers with 21.6 Traction power transformer at Suvasara-02, Bharatpur -1 Ramganjmandi-1 Traction sub-station (Total 04 Nos).	WCR	2012-13	DRF	128,000	-	500	38,487
41	474	Provision for a new TSS at Runkuta station and 01 No.SPs at Raja ki mandi station in Agra division.	NCR	2012-13	CAP	50,000	-	500	51,500

Position of proposals of IRSEE cadre pending in Board (As on 12.12.11)

Rly.	Name of Posts	No	File No.	Current status
NR	Creation of revenue posts: DEEIMU/GZB	1	2002 E(GC)6-27 (Pt.)	Railway advised. on 28.06.2006 & 05.07.2007 to furnish matching savings, gazetted set up & other information. Reminder issued on 24.01.2008, 06.03.2009 and 30.11.2009. Case Closed as reply not received from Railway.
	AEE/TRDI/MB	1		
	ELSILDH/Sr. Scale Jr. Scale	1		
	ACOS/MEMU/SRE	2		
		1		
	Sr. DEEIMEMU/SRE	1	2008E(GC)6-9 (Pt.)	Pending for want of matching savings. Reply not received. Case closed advising to manage with available set-up.
	Extension of temporary posts		2008E(GC) 16-8	Put up to EDFIE on 10.10.2011 for further extension.
RDSO	SAGI ED (PS&EMU)	1	2009 E(GC)6-12	Put up to Finance on 08.11.2011 draft sanction for further extension of the post.
RB	Transfer/Creation of Jr. Scale post from CR to RB	1	2011E(GC) 12-22	File sent to DDFIE-n on 24.10.2011.
SER	SAG/Adra Power Plant	1	2009E(GC)6-18	Back reference on 18.01.2010. Reply not received. Case closed Railway advised vide Board's letter No. 2009 E (GC) 6-18 dated 21.01.2011.
SCR	Up gradation: AEE - DEE/CRS/TPTY	1	2005E(GC)6-10 (Dup.)	Back reference on 20.08.09. Reply not received. Case closed.
	Up gradation: Jr. Scale/ Group-B Principal/ETT/CIBZA	1	2008 E(GC) 1-15	Railway advised to submit the proposal through Personal department with concurrence of F A&CAO & approval of GM. Case closed as no reply received from Railway.
NCR	Creation of regular posts: Loco-8, General-5, TRD-7 JAG'	20	2009 E(GC)6-9	Not agreed. to. Railway advised on 16.09.2009. Again processed but no new pointes were raised by Railway & not agreed to. Railway advised vide Board's letter No. 2009 E (GC) 6-9 dated 15.11.2011.
	Sr. Scale	03		
	Jr. Scale	08		
CR	DEEITROIBB	1	2009 E(GC)6-20	Back reference on 03.12.09. Reply not received. Case closed on 17.01.2011.

Rly.	Name of Posts	No	File No.	Current status
SR	DEE/TRD/MDU	1	2009E(GC) 6-15	Not agreed to for want of matching savings. Railway advised vide Board's letter No. 2009 E (GC) 6-15 dated 08.01.2010
	ADEE/TRD/TRC	1	2008E(GC)6-17	Not agreed. One post of DEE/RS/RPM sanctioned vide Board's letter No. 2008 E(GC) 6-17 (129) dated 16.20.2009.
	DEE/TRD/MDU	1		
	Sr. DEE/RD/Royalpuram	1		
	ADEE/RS/RPM	1		
SAG/CEE (Wind Mill)	1	2010E(GC)6-3	Not agreed to. Railway advised on 31.08.2010. Railway advised on 09.11.2010 for sending a fresh proposal as & when additional fund are sanctioned for the project. Again advised on 29.09.2011 to formulate a fresh proposal for creation of a work charged SAG post against the new available fund. Reply not received.	
ECR	TRD/Sonpur division- JAG	1	2009E(GC)6-6	Proposal sent to EDE (GC) on 21.10.2010 & again sent on 08.11.2010. Back reference on 19.05.2011 & Reminder on 28.11.2011. Reply not received.
	Sr. Scale	1		
	Jr. Scale	2		
	Ext of currency /CEE/Plg	1		
BHEL	SAG Work charge	1		Proposal sent to EDE (GC) on 27.09.2011. Reminder issued to RDSO on 08.11.2011. Reply not received.
	Creation of Revenue charge posts for TRD Organisation	2	2009E(GC)6-8	Back reference on 17.07.2009, 21.09.2011 & Reminder issued on 28.11.2011. Reply not received.
SWR	Creation of Rev. Charge posts	2	2011E(GC)6-1	Not agreed to. Railway advised vide Board's letter No. 2011 E(GC) 6-1 dated 28.03.2011.
	Sr. Scale	2		
	Jr. Scale	2		

Details of Proposals for creation of Non-Gazetted posts

NR					
	Supervisors	Tech	Khalasi	Others	Total
Posts asked for	60	140	164	30	394
Under App.	34	61	-	4	99
As per CRB letter to GM- 50 % of yardstick for new RE section					446 posts

SCR					
	Supervisors	Tech.	Khalasi	Others	Total
Posts asked for	---	184	101	---	285
Under App.	-	-	-	-	-
As per CRB letter to GM - 50 % of yardstick for new RE section Kadappa-Kondapuram					43 posts

ECR					
	Supervisors	Tech	Khalasi	Others	Total
Posts asked for	13	HI	52	---	176
Under App.	8	49	-	-	57

WCR					
	Supervisors	Tech	Khalasi	Others	Total
Posts asked for	4	10	28	6	48
Under App.	2	4	-	1	7
As per CRB letter to GM - 50 % of yardstick for new RE section- Bina-Kota					94 posts

SR					
	Supervisors	Tech	Khalasi	Others	Total
Posts asked for	---	---	---	---	---
Under App.	-	-	-	-	-
As per CRB letter to GM - 50 % of yardstick for new RE section- Trichy-Madurai					101 posts