GOVERNMENT OF INDIA MINISTRY OF RAILWAYS RAILWAY BOARD.

BY FAX SN24

No. 98/Elect(G)/138/6

New Delhi, dated 29.05.06

Chief Electrical Engineers, Central Railway, CSTM, Mumbai Western Railway, Churchgate, Mumbai West Central Railway, Jabalpur. Eastern Railway, Fairlie Place, Kolkata South Eastern Railway, Garden Reach, Kolkata East Central Railway, Hajipur East Coast Railway, Bhubaneswar South East Central Railway, Bilaspur South Western Railway, Hubli Northern Railway, Baroda House, New Delhi North Central Railway, Allahabad North Western Railway, Jaipur North Eastern Railway, Gorakhpur Northeast Frontier Railway, Maligaon, Guwahati Southern Railway, Chennai South Central Railway, Secunderabad. Integral Coach Factory, Chennai. Rail coach Factory, Kapurthala.

Sub: Revised codal life of Assets.

Ref: Rly Bd's letter no. 2002/AC-II/10 dt. 24.5.06

Board's vide letter no. 2002/AC-II/10 dt. 24.5.06 have issued the advance correction slip no. 62 of Indian Railway Finance Code Vol-I (reprint edition 1998) Para 219 for revised codal life of assets. A copy of the same is enclosed herewith for information and necessary action please.

DA: As above.

(Sanjay Kubba) Jt. Director Electrical Engg.(G)

Railway Board.

Government of India Ministry of Railways (Railway Board)

RBA No. 25/2006

No.2002/AC-II/1/10

New Delhi, Dated 2/1/05/06

1.General Managers/FA&CAOs etc.(As per standard list I)

2. All attached offices/subordinate offices (As per standard list II)

Sub:- Revised Codal life of Assets

The matter regarding reassessment of codal life of assets has been under Board's consideration for quite some time. To reassess the codal/ service life of assets, a multidisciplinary Executive Director's Committee was constituted. The recommendations of the committee have since been accepted by Board. Accordingly Advance correction slip no.62 amending Para 219/F-1 detailing normal life of various classes of railway assets is placed below for information and necessary action.

Kindly acknowledge receipt.

Executive Director Account Railway Board.

Copy to:

1. Dy.C&GA of India (Railways), Room No.224, Rail Bhawan, New Delhi. (with 45

2. GM/const./NFR, CAO/CE (Const.) /All Indian Railways.

3. EDCE (Plg.), EDCE(B&S), EDCE(G), ED/Track(M), ED/Track(MC), ED(Project), Adv.EE(RS), EDEE(G), EDEE(Dev.), ED(RE), EDFX-I, EDFX-II, EDF/S, EDF/B, ED/C&IS, EDME (Cg), EDME(Ft.), EDME(Tr.), EDME(W), EDME(Dev.), ED/Sig., ED(TD)

4. AC I (Comp.), AC III (6 copies), AC-IV, Code Revision, Accounts Inspection, Accounts Appropriation, Finance (Budget).

Executive Director (Accounts)

Railway Board

ADVANCE CORRECTION SLIP No. 62

Indian Railway Finance Code Vol.-I (Reprint Edition 1998) Para 219:-

(i) Substitute table below Para 219 showing normal life of the various classes of railway assets with the following:-

(i) CIVIL ENGINEERING ASSETS

S.N	O. Class of assets	A	verage lif	e in ve	ars
			ROU		
1 D	ATT Q TO COMPANY	A & B	C(Sub)	D	E
1. K.	AIL & FASTENTING etc.			<u> </u>	
(a).	Rail & Fastenings			T^{-}	
(a). (b).	Rails	20	15	30	*30
(c.1)	Wooden Sleepers	10	10	10	*10
	Metal sleepers (Cast Iron & Steel)	20	20	20	*20
(c.2)	Fittings steel trough	10	10	10	*10
d).	Concrete sleepers	35	35	40	*40
e).	Elastic Fastenings			40.	*40
i)	Elastic Rail clips	5-8	5-8	8-10	*0 :
ii).	Rubber Pads/ Liners	2-4	···2-4	4	*8-1
f).	Switches	4	2/3	5	*5
g).	Crossings	5	4/5	8	*8
	MAJOR BRIDGES		. 415	_ • 1	- 8
1).	Bridges work- Steel work		60		
)).	Bridge Masonry		100		
)	Structures Steel		60		
).	Structure- masonry and cement concrete	7.	65		
).	RCC Bridge Works		60		
	Pre-stressed concrete-Bridge work	+	40	 ,	
(B).	MINOR BRIDGES		40		
).	Bridges work-Steel work		60	 	
).	Bridge Masonry		60 100		
	Structures Steel		60	-	
	Structure- masonry and cement concrete		65		
	RCC Bridge Works			······································	7 7.
	Pre-stressed concrete-Bridge work		60 40		
FOO	T OVER BRIDGES		40		
	Bridges work-Steel work	·			
	Bridge Masonry		60		
	Structures Steel		100		
	Structure- masonry and cement concrete,		60		
			65		
	RCC Bridge Works		60		
	Pre-stressed concrete-Bridge work		40		
RACK MACHINE (All Categories)		15			

^{*} The service life as indicated in the table is general life/service life for track components. However renewal/replacement will be subject to various criteria laid down in IRPWM about its condition.

Shiraji Rakshit 1 EDA 23/5/06

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(ii) COMPUTERS AND OTHER IT SYSTEMS

S.No.	Class of assets	Average life in years
		Mary 1981, with 1991
1	Passive Networking equipt (viz.Network Cabling)	10
2	Larger Multiuser system (s) & Active Networking Equipt (viz. MIS systems including external storage systems and their inter connects)	6
3.	PRS systems	4.
4	Small Multi-user system(s) and Power Supply equipments (viz. Individual office LANs, UPS)	4
5	PCs	3
6	Secondary Systems (viz. Printers, Portable computers, Dumb Terminals)	3

(iii) **ELECTRICAL ASSETS**

S.No.	Class of assets	Average life in years
		and the second s
1.	Electric Locomotives	35
2.	EMU/Metro Motor Coaches	25
3.	EMU/Metro Trailor Coaches	25
4.	Over Head Power Lines	40
5.	Over Head Traction Line excluding	60
	contact wire	
6.	Electric under ground Cables	30
7 (a)	Electric contact wire (Alm.)	25
(b)	Electric contact wire (Copper)	40
8.	Electric Power plant excluded oil	25
	engine driven	
9. ·	Electric Plant above 25 HP	25
10.	Electric power plant oil engine	15
	driven (diesel)	
11.	Overhead traction lines contact	40 .
	wire	+ 6:
12.	Electric Machinery others	30
13.	Electric Sub Station Building	50
14.	Water Cooler, Refrigeration, Air	5
	Conditioner, hospital and domestic	
	appliance	
15.	Internal wiring of building	10
16.	Switch Gear	25
17.	Instruments	25



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S.No.	Class of assets	Average life in y	ears
18.	Electric Pumps		
19.	Electric Lifts & Hoist		
20.	Ceiling Fans	20	
21.	Electric Battery charging set	20	
22.	Flood Light Projection	15	
23.	Battery lead Acid	10	
4.	Coach wiring	4	* * *
5.	Carriage Fans	12	
6.	Air conditioner Central unit –above	10	· · · · · · · · · · · · · · · · · · ·
	3 tons	10	

B) Equipments required for replacement through DRF/ Sinking Fund.

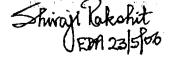
,	· · · · · · · · · · · · · · · · · · ·	T - TY DINKING FUNG.
S.N	O Class of assets	
-		Average life in years
27	AC EQUIPMENT	
(i)	25 KV Inverter	
(ii)	AC Control Panel (As per F-I codal	15
	life is 12 yrs.	15
(iii)	Inverter Panel	
28	TL Power Equipment	15
(i)	4.5/18/22.75/25 KW Alternator (As	
	per F-I codal life of Dynamo is 20	12
	years)	
(ii)	800 A.H.L.A Battery	market and the second s
(iii)	1100 AH VRLA (SMF) Battery	4
(iv) 3	Diesel Engine for Powers Car	4
(v)	Alternator for Power Car	15
29	Electric Locomotive Equipments	15
(i)	All Electric rotating machines up to	
	25 HP used on Electric	12
	Locomotives, EMU's Coaches and	
	for stationary items	
i)	All Electric rotating machines	(w
	above 25 HP and upto 750 HP used	12
	on Electric Locomotives, EMU's	The state of the s
_	Coaches and for stationary items	
ii)	Traction Motor	
v)	Traction Converters	18
)	Auxiliary Converters	18
i)	Control Electronics	18
ii)	Tap-Changer	18
iii)	Rectifier Block	35
()	Traction Gears	18
	Motor Suspension	12
	Bogies with Wheel	12
i) /	Armature for Traction Motors	18
10:	The Haction Motors	15

Shivaji Rakohit

S.No	Class of assets	Average life in years
(xiii)	Stator for Traction Motor	18
(xiv)	Commutator for Traction Motor	15
(xv)	Locomotive re-cabling	18
30.	Microprocessor based control and	12
	fault diagnostic system	·
31.	Speedometer cum recorder and	10
	monitoring system	
32.	BA Panel	18
33.	VCB	18
34.	DBR(roof mounted)	9
35.	DBR(vertical mounted)	9
36.	Pantograph	tras en la francia
37.	TRD Equipments	
(i)	Current/Potential/transformer	30
(ii)	Earthing system in sub-station etc.	15
(iii)	Lighting arrestor (Gapless type)	15
(iv)	Lighting arrestor (Convertor type)	15
(v)	Buster & Terminal connection	30
(vi)	Battery charger	15
(vii)	Relay (Electromechanical)	15
(viii)	Relay (Electronic)	15
(ix)	Instruments (Electrical)	30
(x)	Instruments (Electronic)	30
(xi)	Relay testing kit & other testing	15
	equipment	<u> </u>

C), Equipments required for replacement through Revenue

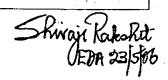
S.No.	Class of assets	Average life in years
1	Electric Loco Equipment	
(i)	Armature for Traction Motor	15 (4.7.)
(ii)	Stator for Traction Motor	18
(iii)	Commutator for Traction Motor	15
(iv)	Auxiliary Motor	18
(v) .	Arno Converter	18 14 14 14 14 14 14 14 14 14 14 14 14 14
(vi)	Blower Impeller/Casing	200 April 10
(vii)	Locomotive re-cabling	18 A A A A A A A A A A A A A A A A A A A
(viii)	Power Cables	18
(ix)	Control Cables	18
(x)	Compressor with exhausters	10/15
,	complete recondition /replacement	
2	AC Equipment	NW. The second
(i)	Compressor ACCEL/ CARRIER	10
(ii)	Sealed Compressor KCL make	5
(iii)	Sealed Compressor Maneurope make	8



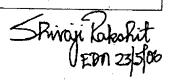
S.Nu.	Class of assets	Average life in years
(iv)	Compressor Motor DC	10
(v)	Compressor Motor AC	15
(vi)	Condenser Fan Motor (DC)	8
(vii)	Condenser Fan Motor (AC)	10
(viii)	Condenser Fan Motor (RMPU)	10
(ix)	Evaporater Fan Motor (AC)	10
(x)	Evaporater Fan Motor (DC)	10
(xi)	Evaporater Fan Motor (RMPU)	12
(xii)	Condenser Unit	8
(xiii)	Condenser Unit (RMPU)	10
(xiv)	Evaporater unit	and defending 10
(xv)	Evaporater unit (RMPU)	10
(xvi)	Mercury in glass thermostat	5
3	TL/Power Equipment	4.189
(i)	4.5/18/22.75/25 KW alternator	12
	regulator	en e
(ii)	Emergency 90 AH L!A. Battery	3
(iii)	120 AH VRLA (SMF) Batttery	4
(iv)	290 AH starting L.A. Batteries for Power Car	3.
(v)	Power Car power panel	15
(vi)	Power panel (AC coaches)	15 15
(vii)	Pre Cooling cum battery charging	12
() /	transformer rectifier unit	
(viii)	50 KVA 750/415 V transformer unit	15
(ix)	3 KVA 415/190 V transformer	15
(x)	Water Raising Apparatus (WRA)	5
(xi)	Water Boiler for Pantry	5
(xii)	Hot Case for Pantry	5 4 4
(xiii)	Bottle Cooler cum deep freezer	5
(xiv)	Ventilation Blower Motor for Power	12
	Car	12
(xv)	Radiator for Power car	10
(xvi)	Radiator Motor for Power Car	15

(IV) MECHANICAL ASSETS

S.No.	Class of assets	Average life in years	
	Machinery & Plant		
··]	Machine Tools like Lathes, Planners, Drilling, Boring and Milling machines etc.	15	
2	High Precision and special purpose machines like wheel Lathes etc.	15 HAT PER LE	



<u> </u>	S.No.	Class of assets	Average life in years
	3	Tool Room and Testing Laboratory equipment	15
	4	Foundry and Forge Equipment	15
	5	Heat Treatment Equipment	15
	6	Cranes-EOT	25
Ĺ	7	Power Generation Machinery & Switches	15
	8	General purpose light machinery e.g. band saws, floor grinder etc.	10
L	9	Air Compressors	15
	10	Other miscellaneous machines e.g. light cleaning machines, test equipment in diesel sheds, workshops, depots & sick lines	15
L	11	(i). Construction Machinery	15
L		(ii). Track Maintenance equipment	20
L	12	Station machinery e.g. weighing machines etc.	15
	13	Miscellaneous machinery and equipment for hospital, offices etc.	10
_	4	Mechanical Weigh Bridges	15
-	5	Electronic in motion Weigh Bridges	08
_	6	Diesel Pumps	10
	7	Welding equipment including diesel welding sets	10
	8	Diesel refrigeration equipment	15
1	9	Material handling equipment like FLT, Lister trucks etc.	10
2	0	Traversers	25
2	1	Fuel Station Dispensation Equipment	10
2	2	Bulldozers and other earth moving equipment	15
2:		Motor Boats	
2		Hydraulia sa sailina a sai	10
1	<u>'</u>	Hydraulic re-railing equipment	15
25		ROAD VEHICLES	
26		Staff Cars including Jeeps Light Motor Vehicles	07
27		Heavy Motor Vehicles	10
28		Tractors	10
		ROLLING STOCK	10
29			
30		Diesel Electric/ Hydraulic Locomotives	36
31		Diesel Engine	18
32		Shunting Locomotives	36
33		Steam Locomotives	40
34		Boiler and Tender Steam Cranes	20
35			30
<u>35</u>		Diesel Hydraulic Cranes	25
		teel Body Coaches including	25
200	<u> L</u>	DMUs/EMUs, Restaurant Cars etc.	

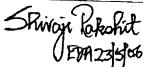


S.No	Class of assets	Average life in years
37	Full Stainless Steel Body Coaches including DMUs/EMUs, Restaurant Cars etc.	30
38	Light utilisation categories of coaches (steel body) like inspection carriages etc.	40
39	IRS Coaches	30
40	Open Bogie wagons with air brakes and Casnub bogies	30
41	Bogie tank wagons with air brakes and Casnub bogies	40
42	All other types of Bogie wagons with air brakes and Casnub bogies	35
43	Open wagons with vacuum brakes and UIC bogies	25
4	Other wagons with vacuum brakes and UIC bogies	30
5	4- Wheeler wagons (open and covered)	30
6	4- Wheeler tank wagons (with plain bearings)	35
7	4-Wheeler tank wagons (with roller bearings)	35

(V) SIGNAL & TELECOMMUNICATION ASSETS

(A) SIGNALLING SYSTEM

S.No.	Class of assets	Routes	Average life in years	
1.	Electrical/ Mechanical Signalling System	 Route-'A' Route-'C'/Sub Urban section Big Yards on all Routes 	25 Yrs.	
		Routes- 'B'Route 'D'Route 'D'-special'	25 to 28 Yrs depending upon location & condition	
		Routes-'E'Route 'E- Special'	30 Yrs	
	Electronic Signalling sys AFTC, IPS etc.	15 years or based on obsolescence.		



(B) SIGNALLING EQUIPMENT

S No	1		Average life in years					
	assets	terms of operations	Routes					
			· A	В	C/ Suburban	D & D-	E & E-Spl	
1	Cranks and Compensat ors	50,000	2	2	I	4	4	
2	Lock Bar Clips	1,00,000	3	3	3	5	7	
3	Facing Point Lock with bolt detection	3,00,000	8	8	8	15	15	
4	Mechanica 1 Detectors	5,00,000	-	15		20	25	
5	Circuit breakers	5,00,000	15	15	15	25	30	
	Lever locks	-	7	7	7	12	15	
6	EK Transmitt er		10	10	10	15	15	
7	SM's Slide Frame	~	30	30	30	30	30	
8	Electric Point Detector & Reversors	-	15	15	15	20	20	
9	Signal Machines	1,50,000	-	10	-	20	20	
10	Signal Wire Transmiss ion	-	3	3 .	3	3	3	
11	Point Machine	3,00,000	12	12	7	15	15	
12	Plug-in and Shelf type relays	10,00,000	25	28	25	28	30	
3	Track Feed battery chargers	-	1.0	10	10	10	10	

Skrigi Rakohit

S No	Class of assets	Life in	Average life in years Routes					
,		terms of operations						
			A	В	C/ Suburban	D & D-	E & E-Spl	
	Signal Transform	-	12	12	12	Spl 12	12	
14	ers, Transform ers							
	Battery Chargers, DG Sets, Inverters,	-	10	10	10	10	10	
15	Batteries	-	4	4	4	4	4	
16	Block Instrument s	-	25	25	25	25	25	
17	Cable	_	20	20	20	20	20	
18	Block Instrumen t Electro Mechanic	-	20	20	20	20	20	
	al					1		

(C) TELECOMMUNICATION EQUIPMENT

SNo.	Class of assets	Average life in years
1	Microwave Equipment	12-15 Years
2	Exchange & accessories including Telephone equipment	12-15 Years
3	Under Ground Cables	Quad}-20 Years PIJF}
4	Oriodadali	OFC -20 Years
	Overhead alignment	25 Years
5	All other electronic/ wireless items including OFC equipment	12-15 Years
6	Cell Phones	5-8 Years
7	FAX	10 Years
8	Walkie-Talkie Sets/VHF	5-8 Years
9	Datacomm. Equipment, Routers, Modems, PCs etc.	5-8 Years

Shivaji Rakohit JEDA 23/5/06