Role of Engineering Deptt.

In meeting Corporate Objectives of

Indian Railways

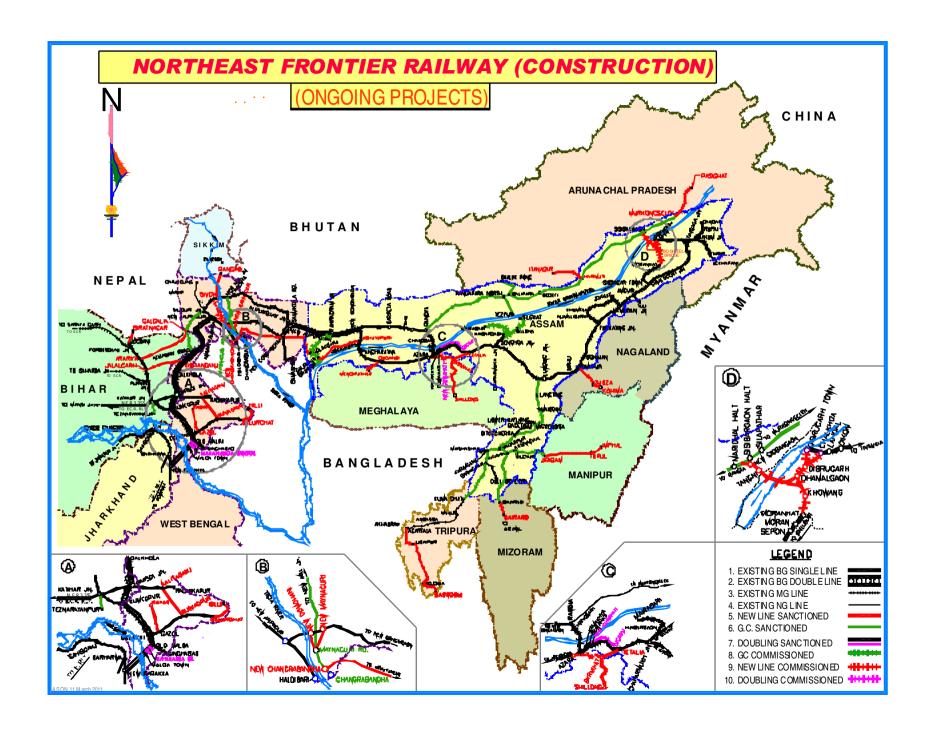
By

V.P.Srivastava, CE/CON, N.F.Rly This Paper deals with Role of Engg Deptt particalarly N.F.Railway through construction in meeting Corporate Objectives of Indian Railways.

 The deptt has undertaken rail infrastructure development projects viz. New Lines, Gauge conversion, and Doubling in West Bengal, Bihar and all the States of the North East ,namely Arunachal Pradesh, Assam, Nagaland, Mizoram, Tripura, Manipur, Meghalaya and Sikkim.

- Engg deptt through N.F.Railway Construction organisation is presently executing 19 New Line, 7 Gauge Conversion and 4 Doubling projects in these States.
- 11 projects (9 New line and 2 Gauge Conversion) are National projects and all are in Northeast Region.

 Engg deptt through N.F. Railway Construction org has contributed 790 km New Line 1670 Km Gauge Conversion and 287 Km Doubling since 1979.



RAILWAYNETWORKIN N.F. RAILWAY (As on 31.3.2010)

State	Broad Gauge	Meter Gauge	Narrow Gauge	Total
Arunachal Pradesh	-	1.26	-	1.26
Assam	1376.22	1057.12	-	2433.34
Tripura	-	151.40	-	151.40
Nagaland	11.13	1.72	-	12.85
Manipur	-	1.35	-	1.35
Mizoram	-	1.50	-	1.50
Meghalaya	-	-	-	-
Sikkim	-	-	-	-
Total NE Region	1387.35	1214.35	-	2601.70
Bihar	260.85	69.31	-	330.16
West Bengal	781.89	106.14	87.48	975.51
Total N.F. Rly	2430.09	1389.80	87.48	3907.37

MAJOR NEW LINE PROJECTS COMPLETED

S. NO	PROJECT	LENGTH (KM)	YEAR
1.	New Bongaigaon to Guwahati	164.00	1984
2.	RAILLINKS TO N.E.STATES		
	(a) Balipara (Assam) to Bhalukpong (Arunachal Pradesh) – MG line	35.46	1990
	(b) Lalabazar (Assam) to Bhairabi (Mizoram) -MG line	48.15	1991
	(c) Silchar (Assam) to Jiribam (Manipur) – MG line	49.16	1990
	(d) Dharmanagar to Kumarghat (Tripura) – MG line	33.00	1990
	(e) Amguri (Assam) to Tuli (Nagaland)	14.65	1990
3.	Jogighopa to Guwahati	142.54	2000
4.	Eklakhi to Balurghat	87.11	2002-04
5.	Kumarghat to Agartala (i) Kumarghat – Manu (ii) Manu – Ambassa (iii) Ambassa – Agartala	20.573 20.00 69.00	2002-03 2008 2008
6.	Manihari-Teznarayanpur Restoration of MG line	4.50	2006
7.	Bogibeel Rail-cum-Road Bridge (i) South Bank link fron Chalkhoa to Moranhat	44	2009
8	New Coochbehar-Golakganj of New Mainaguri-Jogighopa	58	2011

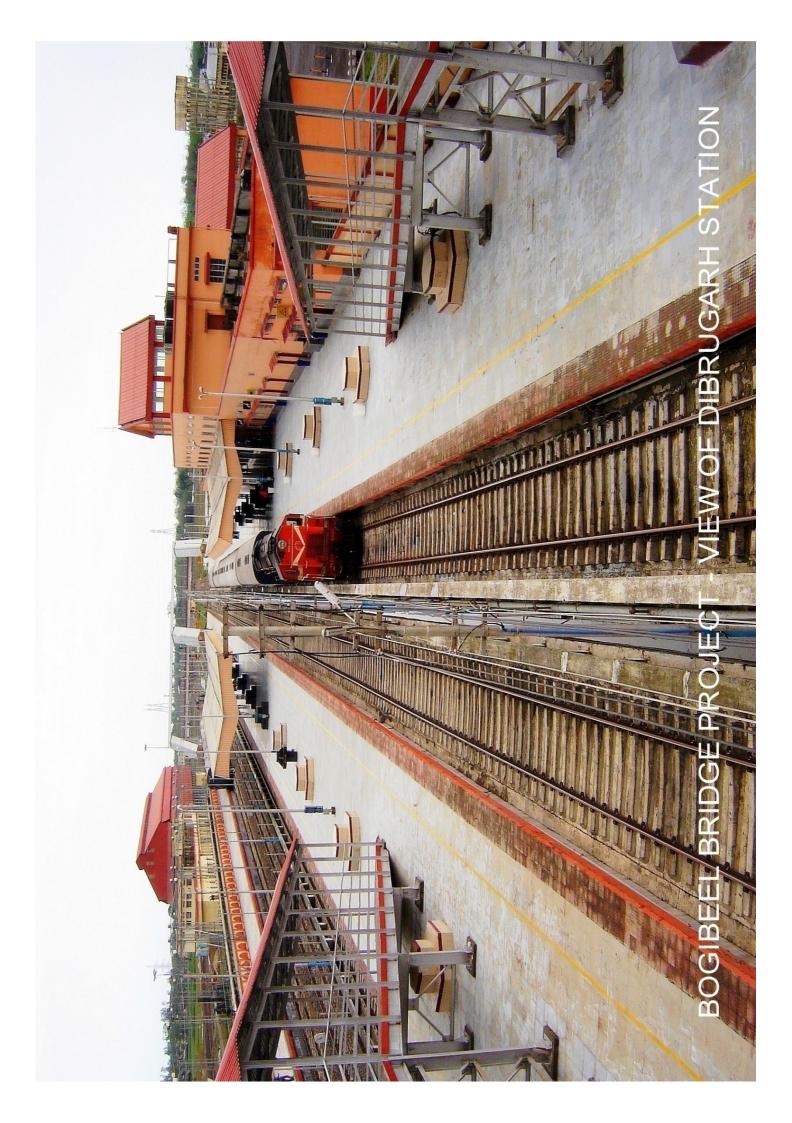
MAJOR GAUGE CONVERSION COMPLETED

S.	PROJECT	LENGTH	YEAR OF COMMI-
NO		(KM)	SSIONING
1.	Guwahati to Lumding including branch lines	216.50	1995
2	(A)Lumding to Dibrugarh including branch lines	621.66	1995-2002
	(B)Restoration with gauge conversion		
	(i) Senchoa – Silghat Town	62	2008
	(ii) Haibargaon to Mairabari	44	2009
3	(A)New Jalpaiguri – Siliguri Jn-New Bongaigaon (Main	280	2003-2006
	line)		
	(B) Branch lines from Alipurduar to Bamanhat and Fakiragram to Dhubri		
	(i) Alipurduar – Bamanhat	75	2007
	(ii) Fakiragram to Dhubri	66	2010
4	Jogbani – Katihar—Barsoi-Radhikapur		
	(i) Barsoi – Radhikapur	53	2006
	(ii) Katihar – Barsoi	34	2007
	(iii) Katihar – Jogbani	108	2008
	(iv) Katihar – Manihari	24	2010
	(v) Manihari-Tejnarainpur	10	2011
5	Aluabari-Siliguri	76	2010-11

MAJOR PROJECTS COMPLETED (Contd.)

S. NO	PROJECT	LENGTH (KM)	YEAR OF COMMI- SSIONING
	DOUBLING		
1.	Malda town – Eklakhi-Harischandrapur- Kumedpur	26.10	1991
2	Kumedpur-Barsoi-Dhulabari-New Jalpaiguri	80.81	1993
3	Barsoi-Dalk hola-Dhulabari-Aluabari	34.00	1994
4.	Aluabari Road –Kishanganj-New Jalpaiguri-Ambari Falakata & cabins on Mahananda bridge	40.00	1995
5	Dalkhola - Kishanganj	28.00	2001
6	Harischandrapur - Kumarganj	30	2005 – 06
7.	Kumarganj - Eklakhi	6	2006
8.	Seemapur - Katihar – Katihar yard work	6	2006
9.	Malda Town-Old Malda	1.2	2010
10.	New GuwahatiDigaru	34	2010-11
	MEGA BRIDGES		
1.	Kaliabhomora Road Bridge over river Brahmaputra at Tezpur	3.015	1987 -88
2.	Rail-Cum-Road Bridge across river Brahmaputra at Jogighopa	2.28	1998 - 99
	YARD REMODELLING & RRI WORK		
1.	Katihar - Yard remodeling & Route Relay Interlocking work	-	2008
2.	Kamak hya coaching terminal	-	2010





ONGOING PROJECTS IN N.F.RAILWAY OVERVIEW

Plan Head	New Line	Gauge Conversion	Doubling
Projects in progress	19	7	4
Anticipated Throwforward as on 1.04.2011 (Rs. in Cr.)	18628	8704.17	578.98
Length of ongoing Projects as on 1.4.2011 (Km)	1143	1287	97
National Projects (no.)	9	2	-

S. No	Name of Project	State	Length (km)	Cost (Rs. in Cr.)	Remarks	Target
Ne	w Lines					
1	Bogibeel Rail-cum- Road Bridge	Assam	73.0	3230.02	National Project	Dec'14
2	New Maynaguri- Jogighopa	Assam W.Bengal	245.68	1655.80	-	Mar'14
3	Tetelia-Byrnihat	Meghalaya, Assam	22.36	384.04	National Project	Mar'14
4	Dudnoi-Mendipathar	Meghalaya, Assam	21.75	86.22	-	Mar'13
5	Byrnihat – Shillong	Meghalaya	108.40	4083.02	National Project	Mar'17

S. No.	Name of Project	State	Length (km)	Latest P.B.Cost (Rs. In Cr.)	Remarks	Target
	NEW LINES(Contd.)					
6	Harmuti- Naharlagun(Itanagar)	Arunachal, Assam	21.75	254.29	-	Mar'12
7	Bhairabi- Sairang (Aizwal)	Mizoram	50.9	619.34	National Project	Mar'14
8	Jiribam-Tupul (Imphal)	Manipur	84.0	3056.85	National Project	Mar'14
9	Dimapur-Zubza (Kohima)	Nagaland	88.0	850.0	National Project	Mar'15
10	Sivok - Rangpo	Sikkim, West Bengal	44.39	1339.48	National Project	Dec'15
11	Agartala- Sabroom	Tripura	111.79	1141.75	National Project	Mar'14
12	Kumarghat-Agartala	Tripura	109.0	984.98	National Project	Completed

S. No.	Name of Project	State	Length (km)	Latest PB Cost (Rs. In Cr.)	Remarks	Target
	NEW LINES(Contd.)					
13	Eklakhi-Balurghat & Gazole-Itahar & Raiganj - Itahar	W.Bengal	136.91	415.23	Eklakhi- Balurghat completed	Not fixed
14	Balurghat-Hilli	W. Bengal	29.0	242.22	-	Not fixed
15	Kaliyaganj-Buniadpur	W. Bengal	33.13	222.21	-	Not fixed
16	Araria-Galgalia (Thakurganj)	Bihar	100.0	529.88	-	Not fixed
17	Jalalgarh-Kishanganj	Bihar	50.0	359.86	-	Not fixed
18	Jogbani-Biratnagar	Bihar & Nepal	18	238.83	-	Not fixed
19	Murkongselek - Pasighat	Assam & Arunachal Pradesh	30.62	165.82	-	Not fixed

S. No.	Name of Project	State	Length (km)	Latest PB Cost (Rs. In Cr.)	Remarks	Target
Gaug	ge Conversion					
1	Lumding-Silchar-Jiribam & Badarpur-Kumarghat, Baraigram – Dulabchara & Karimganj - Mahishasan	Assam, Tripura, Manipur	408.24	4255.37	National Project	Dec'13
2	Rangia-Murkongselek alongwith linked fingers	Assam, Arunachal Pradesh	510.33	1556.23	National Project	Mar'14
3	Katakhal-Bhairabi	Assam, Mizoram	84.15	223.01	-	Dec'13
4	Lumding — Dibrugarh including Senchoa — Silghat & Haibargaon — Mairabari Branch lines	Assam	628	956,29	Completed	-
5	New Jalpaiguri-Siliguri-New Bongaigaon including Alipurduar-Bamanhat & Fakiragram-Dhubri branch lines and Material Modification for Chalsa — Naxalbari - NL	W. Bengal & Assam	433	1237.50	Completed	-

S. No.	Name of Project	State	Length (km)	Latest PB Cost (Rs. In Cr.)	Remarks	Target
Gau	ge Conversion(Contd.)					
6	Aluabari-Siliguri	W.Bengal & Bihar	76	415.50	-	Mar'11
7	Jogbani – Katihar – Barsoi – Radhikapur , Katihar – Tejnarayanpur and Material Modification for Raiganj - Dalkhola	Bihar & W.Bengal	283.23	1041.791	Completed except Raiganj- Dalkhola	Mar'11

S. No.	Name of Project	State	Length (km)	Latest PB Cost (Rs. In Cr.)	Remarks	Target
Doub	oling					
1	New Guwahati-Digaru	Assam	29.81	137.50	-	Mar'11
2	Malda Town-Old Malda	W. Bengal	1.2	33.05	Completed	-
3	Ambari Falakata – New Maynaguri	W. Bengal	36.52	257.90	New Work	Not fixed
4	New Coochbehar – Samuktala Road	W. Bengal	29.02	190.40	New Work	Not fixed

RAIL CONNECTIVITY TO STATE CAPITALS OF NORTH EAST REGION

	OI IVO.		LOIOII
State	Capital	Name of Project	Remarks & Target date
Assam	Guwahati (Dispur)		Already connected.
Arunachal	Itanagar	Harmuti-	March'2012
Pradesh		Naharlagun	
		(Itanagar)	
Manipur	Imphal	Jiribam-Tupul	Jiribam-Tupul: March'2014
			Tupul- Imphal: March'2016
Nagaland	Kohima	Dimapur-Zubza	March'2015
			Extn. to Kohima will be
			processed after detailed
			survey.
	Assam Arunachal Pradesh Manipur	Assam Guwahati (Dispur) Arunachal Itanagar Pradesh Manipur Imphal	Assam Guwahati (Dispur) Arunachal Itanagar Harmuti- Pradesh Naharlagun (Itanagar) Manipur Imphal Jiribam-Tupul

RAIL CONNECTIVITY TO STATE CAPITALS OF NORTH EAST REGION

S. No	State	Capital	Name of Project	Remarks & Target date
5	Mizoram	Aizwal	Bhairabhi-Sairang	March'2014
6	Tripura	Agartala	Kumarghat- Agartala	Commissioned (Oct.'2008)
7	Meghalaya	Shillong	Tetelia-Byrnihat & Byrnihat-Shillong	Tetelia-Brynihat – March'2014
8	Sikkim	Gangtok	Sivok-Rangpo	Sivok-Rangpo taken up. –Dec"2015. Proposal of Rangpo- Gangtok processed.

PLAN SUMMARY FOR 2010-11 & 2011-12

SN.	Plan Head	2010-11	2011-12
		Revised Gran (Rs. In Cr.)	Pink Book Outlay (Rs. In Cr.)
1	New Line	584.01 ABS: <u>670.08</u> 1254.09	1633.00
2	Gauge Conversion	495.32 ABS 576.62 Dep: <u>0.62</u> 1072.56	729.01
3	Doubling	39.90	30.54
	TOTAL:	1119.23 ABS 1246.70 Dep: <u>0.62</u> 2366.55	2392.55

Dep: Deposit Fund ABS: Addl. Budgetary Support for National Projects

- The New Lines, Gauge Conversions and Doublings already commissioned are playing great role in meeting the transportation needs of the common man.
- The numbers and frequency of coaching trains has increased considerably after Gauge Conversions and Doublings, resulting better public mobility and comfort.
- The connectivity of these areas with other parts of the country has been established.

- It has brought people of remote areas of North East into the national mainstream of development.
- These lines are serving as a critical infrastructure facilitator for the carriage of goods.
- Rolling Stocks are runnig with essential goods on these lines to remote places. In fact these rail lines are playing a great role in transportation of food grains to N.E.States.

 Regarding Connectivity to the State capitals of North East Region, capital of Assam is already connected, that of Tripura has been connected in 2008 and work is in progress for connectivity to or near the capitals of ArunachalPradesh, Manipur, Nagaland, Mizoram, Tripura, Meghalaya and Sikkim.

- Due to execution of ongoing projects of the tune of about Rs. 2366 Cr. per year, considerable number of employment has been generated in the region.
- It has contributed over all economic growth of the people of theregion.
- The outcome of all these activities will be Expansion of Rail Network and creation of capacity.

From above delibarations we see that Engg Deptt is playing a great role meeting Corporate Objectives Indian of Railways.

THANK YOU