

No. RCIL-CO0NTP(PPLAN)/8/2024-O/o ADDL.GM/NTP/CNOC/RCIL (4365)

Dated: 27.09.2024

Corrigendum-III

Sub: Design, Supply, Installation, Testing & Commissioning of MDWDM system including Integration with the existing network of RailTel.

Ref: RailTel/Tender/OT/CO/Project/2024-25/MDWDM/013 Dated: 19.08.2024.

In reference to the above referred tender, following amendments in the tender document are issued:

SN	Clause No.	Existing Clause	Proposed Clause
1	3.A.3.5-10-F-2-vi (IP-MPLS Router)	New Clause	For Non 100G traffic sites, Bidder can propose any interface configuration for IP-MPLS to meet the requirement of Traffic matrix of Annexure-V.
2	3.A.3.5-10-F-2-vi (OTN Switch)	New Clause	For Non 100G traffic sites, Bidder can propose any interface configuration for OTN switch to meet the requirement of Traffic matrix of Annexure-V.
3	3.A.3.5-10-F-3-2 (IP-MPLS Router)	FRR, LFA, RLFA & TI-LFA with 50ms switching.	FRR or equivalent for 50ms switching.
4	3.A.3.5-10-F-3-11 (IP-MPLS Router)	Management: SSH, SNMP (V2 & V3), Netconf, OpenConfig, Telemetry & Console or Out-of-band management.	Management: SSH, SNMP (V2 & V3), Netconf/OpenConfig & Console or Out-of-band Management.
5	Annexure-IV		Updated Annexure-IV attached
6	Annexure-V		Updated Annexure-V attached
7	3.A.3.5-1-i	The DWDM OADM and ILA-OADM system at each location shall have the capability to support additional 400G (2x100G/200G) line traffic capacity after equipped with photonic layer and traffic card as per traffic matrix requirement.	Deleted
8	3.A.3.5-12-ii	ILA-OADM sites are equipped with a minimum of 2 Nos. of Channel Mux/De-mux (minimum) at each direction and should also have an express port to pass through channels, if it's not dropping in between nodes.	ILA-OADM sites should be equipped with a minimum of 2 ports Channel Mux/De-mux (minimum) at each direction and should also have an express port to pass through channels. However, ILA-OADM & FOADM Sites are not mandatory. ILA may be proposed in place of ILA-OADM sites to meet the requirement of Traffic matrix of Annexure-IV & Annexure-V.

9	3.A.3.2-4	<p>RailTel will provide Rack Space (Maximum 4 RU) per location per direction for OADM & ILA-OADM and Rack Space (Maximum 4 RU) for ILA & FOADM Locations and power (DC) for equipment Installation & Commissioning. In case the offered equipment requires more Rack Space, in that case bidder shall provide & install Smart Telecom Rack (42 RU) with inner air conditioning (Min 1 KW & external outdoor unit and SNMP monitoring of Temperature). In this case DCDB, MCBs, power cables (approx. 15 meters per site) required for extending power from Power distribution point shall be provided by the bidder.</p>	<p>RailTel will provide Rack Space (Maximum 4 RU) per location per direction for OADM & ILA-OADM and Rack Space (Maximum 4 RU) for ILA & FOADM Locations and power (DC) for active & passive equipments/chassis Installation & Commissioning. In case the offered equipment requires more Rack Space, in that case bidder shall provide & install Telecom Rack (42 RU) with Industrial air conditioner (Min -2x2 Ton, 24x7 Operations & external outdoor unit and controller). In this case DCDB, MCBs, power cables (approx. 15 meters per site) shall be provided by bidder.</p>
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Last Date and Time of Submission of bid: 18.10.2024 upto 15:00 hrs

Date and Time of opening of bid: 18.10.2024 at 15:30 hrs

All other terms and conditions of the Tender document and previous corrigenda, if any will remain unchanged.

(Ravi Vishvakarma)
Sr. DGM/Project
For General manager/TP

100G Optical Layer Traffic Matrix

SN	Section	Links	Client side capacity	Path (protected/ Linear)	Route
1	SR: Villupurm- Virudhu Nagar	Villupurm- Trichy	100G	Linear	Villupurm- Tanjore-Trichy
2		Trichy- Virudhu Nagar	100G	Linear	Trichy- Karaikkudi-Virudhu Nagar
3	SR: Chikjajur- Bellary	Chikjajur- Bellary	100G	Linear	Chikjajur- Chitradurga-Bellary
4	SR: Solapur-Gadag	Solapur-Gadag	100G	Linear	Solapur-Almatti-Gadag
5	ER: North East Network (Rangiya-Jorhat)	Dibrigarh-Duliajan	100G	Linear	Direct
6		Guwahati-Ranagapara North	100G	Linear	Direct
7		Ranagapara North-Dibrigarh	100G	Linear	Direct
8		Duliajan-Jorhat	100G	Linear	Duliajan--Moran Oil-Jorhat
9		Jorhat-Lumding	100G	Linear	Jorhat-Lumding(Alien DCM Based-10G)
10		Lumding-Guwahati	100G	Linear	Lumding-Guwahati (Alien DCM Based-10G)
11	Jorhat-Guwahati	100G	Linear	Jorhat-Guwahati (Alien DCM Based-10G)	
12	ER: Rayagada-Kottavalasa	Rayagada-Kottavalasa	100G	Linear	Rayagada-Laxmipur Road-Koraput-Araku-Kottavalasa
13	NR: Moradabad-Bareilly	Moradabad-Rampur	100G	Linear	Direct
14		Rampur-Bareilly	100G	Linear	Direct
15		Moradabad-Lal Kuan	100G	Linear	Via Kashipur
16		Lal Kuan-Bareilly	100G	Linear	Direct
17		Rampur-Lal Kuan	100G	Linear	Direct
18	SR: Akola-Purna	Akola-Purna	100G	Linear	Akola-Washim-Chondi-Purna
19	ER: Narkatiyaganj-Hazipur	Samastipur-Valmikinagar	100G	Linear	Samastipur-Darbhanga-Sitamani-Narkatiyaganj-Valmikinagar
20	WR: Guna-Shivpuri-Gwalior	Gwalior-Guna	100G	Linear	Guna-Bhadarwas-Shivpuri-Padar Khera-Gwalior
21	WR: KRCL: Panvel-Ratnagiri-Madgaon	Panvel-Roha	100G	Linear	Direct
22		Roha-Ratnagiri	100G	Linear	Direct
23		Ratnagiri-Kudal	100G	Linear	Direct
24		Kudal-Madgaon	100G	Linear	Direct
25		Madgaon-Pune	100G	Linear	Madgaon-LD-Pune-Pune (Alien)
26	WR: Ratlam-Kota	Ratlam-Kota	100G	Linear	Direct

27		Maksi-Bhopal	100G	Linear	Direct (Alien)
28		Itarsi-Bhopal	100G	Linear	Direct (Alien)
29		Bhopal-Bina	100G	Linear	Direct (Alien)
30		Bina-Katni	100G	Linear	Direct (Alien)
31		Katni-Itarsi	100G	Linear	Direct (Alien)
32		Pratapnagar-Ahmedabad	100G	Linear	Direct (Alien)
33		Itarsi-Bhusawal	100G	Linear	Direct (Alien)
34		Ahmedabad-Kota	100G	Linear	Direct (Alien)
35		Kota-Bina	100G	Linear	Direct (Alien)
36		Kota-Nagda	100G	Linear	Direct (Alien)
37		Bhusawal-Nagpur	100G	Linear	Direct (Alien)
38		Bhusawal-Manmad	100G	Linear	Direct (Alien)
39		Nagpur-Itarsi	100G	Linear	Direct (Alien)
40		Maksi-Nagda	100G	Linear	Direct (Alien)
41		Nagda-Ratlam	100G	Linear	Direct (Alien)
42		Ratlam-Pratap Nagar	100G	Linear	Direct (Alien)
43		NIC/Belapur-Panvel	100G	Protected	NIC/Belapur-Panvel (both path)
44	WR: Different customer deliveries	Mahalakshmi-LVSB	100G	Protected	MX-MX (LVSB) both path
45		Karajat-Pune	100G	Linear	Direct (Alien)
46		Panvel-Karajat	100G	Linear	Direct (Alien)
47		Panvel-Vashi	100G	Linear	Direct (Alien)
48		Panvel-Kopar	100G	Linear	Direct (Alien)
49		Vashi-Kurla	100G	Linear	Direct (Alien)
50		Mahalakshmi-Bandra	100G	Linear	Direct (Alien)
51		Bandra-Vasai	100G	Linear	Direct (Alien)
52		Vasai-Kopar	100G	Linear	Direct (Alien)
53		Kopar-Thane	100G	Linear	Direct (Alien)
54		Thane-Vashi	100G	Linear	Direct (Alien)
55		Thane-Kurla	100G	Linear	Direct (Alien)
56		Kurla-Mahalakshmi	100G	Linear	Direct (Alien)
57		Karajat-Kalyan	100G	Linear	Direct (Alien)
58		Kalyan-Kopar	100G	Linear	Direct (Alien)
59		Kalyan-Manmad	100G	Linear	Direct (Alien)
60		Kurla-CSTM	100G	Linear	Direct (Alien)
61		CSTM-Mahalakshmi	100G	Linear	Direct (Alien)
62		Manmad-Pune	100G	Linear	Direct (Alien)
63		NR: RGIPT/Amethi	Lucknow-RAE BARELI	100G	Linear
64	JANGHAI-RAE BARELI		100G	Linear	Direct (Alien)
65	JANGHAI-VARANSI		100G	Linear	Direct (Alien)
66	NR: Jodhpur-Jaisalmer	Phalodi-Jaisalmer	100G	Linear	Direct
67	NR: Okhla-Jhansi	Okhla-Faridabad	100G	Linear	Okhla-Faridabad (Direct-Alien)
68		Faridabad-Mathura	100G	Linear	Faridabad-Palwal-Kosi-Mathura (Direct-Alien)
69		Mathura-Jhansi	100G	Linear	Mathura-Agra-Dholpur-Gwalior-Dabra-Jhansi (Direct-Alien)
70	WR: Shifting of Surat Pop	Surat-Pratap Nagar	100G	Linear	Surat-Palej-Pratap Nagar (Direct-Alien)
71		Surat-Vasai	100G	Linear	Surat-Vasai(Direct-Alien)
72		Surat-Bhusawal	100G	Linear	Surat-Nardana-Jalgaon-Bhusawal (Direct-Alien)

73	WR: Saurashtra	AHEMEDABAD-GANDHINAGAR	100G	Linear	AHEMEDABAD- KHODIYAR GANDHINAGAR
74		GANDHINAGAR-CHANDLODIYA	100G	Linear	Direct
75		AHEMEDABAD-Mehsana	100G	Linear	AHEMEDABAD-KALOL-Mehsana (Alien)
76		AHEMEDABAD-CHANDLODIYA	100G	Linear	AHEMEDABAD-CHANDLODIYA (direct-Alien)
77		Mehsana-Palanpur	100G	Linear	Mehsana-Palanpur (direct)
78		Mehsana-VIRAMGAM	100G	Linear	Mehsana-KATOSAN RD-VIRAMGAM (Alien)
79		Mehsana-BHILDI	100G	Linear	Mehsana-PATAN-BHILDI
80		Palanpur-BHILDI	100G	Linear	Palanpur-BHILDI (direct)
81		Palanpur-Marwar Jn	100G	Linear	Palanpur-Abu Road-Marwar Jn
82		BHILDI-SAMAKHAYALI	100G	Linear	BHILDI-SATALPUR-SAMAKHAYALI
83		VIRAMGAM-GANDHIGRAM	100G	Linear	VIRAMGAM-TTSL -GANDHIGRAM (Alien)
84		VIRAMGAM-SURENDRANAGAR	100G	Linear	VIRAMGAM-SURENDRANAGAR (direct)
85		VIRAMGAM-MALIYA	100G	Linear	VIRAMGAM-DHANGADHRA-MALIYA
86		GANDHIGRAM-BOTAD	100G	Linear	GANDHIGRAM-Dholka-BOTAD
87		CHANDLODIYA-GANDHIGRAM	100G	Linear	CHANDLODIYA-GANDHIGRAM (direct-Alien)
88		SURENDRANAGAR-BOTAD	100G	Linear	SURENDRANAGAR-Chuda-BOTAD
89		JETALSAR-BOTAD	100G	Linear	JETALSAR-DHOLA -BOTAD
90		SURENDRANAGAR-WAKANER	100G	Linear	SURENDRANAGAR-VAGADIYA-WAKANER
91		WAKANER-MALIYA	100G	Linear	WAKANER-MORBI-MALIYA
92		WAKANER-RAJKOT	100G	Linear	WAKANER-RAJKOT (direct)
93		RAJKOT-JETALSAR	100G	Protected	Path-1: RAJKOT-GONDAL-JETALSAR Path-2: RAJKOT-JAMNAGAR-JETALSAR
94		MALIYA -SAMAKHAYALI	100G	Linear	MALIYA -SAMAKHAYALI (direct)
95		VIRAMGAM-CHANDLODIYA	100G	Linear	VIRAMGAM-CHANDLODIYA (direct)

10G/STM-16 Layer Traffic Matrix

SN	Section	Links	Client side capacity	Path (Protected/Linear)	Route
1	ER: North East Network (Rangiya-Jorhat)	Guwahati-Rangapara North	2*10G & STM-4	Linear	Direct (New DWDM)
2		Rangapara North-Dibrugarh	2*10G & STM-4	Linear	Direct (New DWDM)
3		Dibrugarh-Duliajan	2*10G & STM-4	Linear	Direct (New DWDM)
4		Duliajan-Jorhat	2*10G & STM-4	Linear	Direct (New DWDM)
5		Guwahati-Jorhat	4*10G & STM-16	Protected	
6		Rangapara North-Chaparmukh	1*10G	Linear	Direct (New DWDM)
7		Shimalguri-Duliajan	1*10G	Linear	Direct (New DWDM)
8		Shimalguri-Dibrugarh	1*10G	Linear	Direct (New DWDM)
9		Guwahati-Chaparmukh	1*10G	Linear	Alien DCM Based-10G
10		Chaparmukh-Lumding	1*10G	Linear	Alien DCM Based-10G
11		Mariani-Lumding	1*10G	Linear	Alien DCM Based-10G
12		Mariani-Jorhat	1*10G	Linear	Alien DCM Based-10G
13		Shimalguri-Mariani	1*10G	Linear	Direct (New DWDM)
14		Bankura-Burdwan	1*10G	Linear	Bankura-Patrasayer-Burdwan
15	ER: Bankura-Ranaghat	Burdwan-Dum Dum	1*10G	Linear	Burdwan-Bandel-Dum Dum
16		Dum Dum-Habra	1*10G	Linear	Dum Dum-Barasat-Habra
17		Habra-Ranaghat	1*10G	Linear	Habra-Bongaon-Ranaghat
18	WR: KRCL: Panvel-Ratnagiri-Madgaon	Panvel-Pen	2*10G & STM-16	Linear	Linear path
19		Pen-Nagothane	2*10G & STM-16	Linear	Linear path
20		Nagothane-Roha	2*10G & STM-16	Linear	Linear path
21		Roha-Kolad	2*10G & STM-16	Linear	Linear path
22		Kolad-Indapur	2*10G & STM-16	Linear	Linear path
23		Indapur-Mangon	2*10G & STM-16	Linear	Linear path
24		Mangaon-Goregaon	2*10G & STM-16	Linear	Linear path
25		Goregaon-Veer	2*10G & STM-16	Linear	Linear path
26		Veer-Sapevamne	2*10G & STM-16	Linear	Linear path
27		Sapevamne-Karanjadi	2*10G & STM-16	Linear	Linear path
28		Karanjadi-Vihare	2*10G & STM-16	Linear	Linear path
29		Vihare-DWV	2*10G & STM-16	Linear	Linear path
30		DWV-Kalambani	2*10G & STM-16	Linear	Linear path
31		Kalambani-Khed	2*10G & STM-16	Linear	Linear path
32		Khed-Anjani	2*10G & STM-16	Linear	Linear path
33		Anjani-Chiplun	2*10G & STM-16	Linear	Linear path
34		Chiplun-Kamathe	2*10G & STM-16	Linear	Linear path
35		Kamathe-Savarda	2*10G & STM-16	Linear	Linear path
36		Savarda-Aravli	2*10G & STM-16	Linear	Linear path
37		Aravli-Kadwai	2*10G & STM-16	Linear	Linear path
38		Kadwai-Sangameshwar	2*10G & STM-16	Linear	Linear path
39		Sangameshwar-Uksi	2*10G & STM-16	Linear	Linear path
40		Uksi-Bhoke	2*10G & STM-16	Linear	Linear path
41		Bhoke-Ratnagiri	2*10G & STM-16	Linear	Linear path
42		Ratnagiri-Nivasar	2*10G & STM-16	Linear	Linear path
43		Nivasar-Adavali	2*10G & STM-16	Linear	Linear path
44		Adavali-Verawali	2*10G & STM-16	Linear	Linear path
45		Verawali-Vilvade	2*10G & STM-16	Linear	Linear path
46		Vilvade-Rajapur	2*10G & STM-16	Linear	Linear path
47		Rajapur-Kharepatan	2*10G & STM-16	Linear	Linear path
48		Kharepatan-Vaibhavwadi	2*10G & STM-16	Linear	Linear path
49		Vaibhavwadi-Achirene	2*10G & STM-16	Linear	Linear path
50		Achirene-Nandgaon	2*10G & STM-16	Linear	Linear path
51		Nandgaon-Kankavali	2*10G & STM-16	Linear	Linear path
52		Kankavali-Sindhurg	2*10G & STM-16	Linear	Linear path
53		Sindhurg-Kudal	2*10G & STM-16	Linear	Linear path
54		Kudal-Zarap	2*10G & STM-16	Linear	Linear path
55		Zarap-Sawantwadi	2*10G & STM-16	Linear	Linear path
56		Sawantwadi-Madure	2*10G & STM-16	Linear	Linear path
57		Madure-Pernem	2*10G & STM-16	Linear	Linear path
58		Pernem-Thivim	2*10G & STM-16	Linear	Linear path
59	Thivim-Karmali	2*10G & STM-16	Linear	Linear path	
60	Karmali-Verna	2*10G & STM-16	Linear	Linear path	
61	Verna-Majroda	2*10G & STM-16	Linear	Linear path	
62	Majroda-Madgaon	2*10G & STM-16	Linear	Linear path	
63	Panvel-Roha	STM-16	Protected		
64	Roha-Ratnagiri	STM-16	Protected		
65	Ratnagiri-Kudal	STM-16	Protected		
66	Kudal-Madgaon	STM-16	Protected		
67	Madgaon-Panvel	STM-16	Protected		

68	WR: CCG EXCG-Badhwar Park-PRS/CSTM	CCG EXCG- Nariman Point	1*10G & STM-16	Linear	CCG EXCG- CBI NP-Nariman Point
69		Nariman Point-Badhwar Park	1*10G & STM-16	Linear	Nariman Point-Navy Nagar-Badhwar Park
70		CSTM-CCG EXCG	1*10G & STM-16	Linear	PRS/CSTM-CCG EXCG
71		Badhwar Park-CSTM	1*10G & STM-16	Linear	Badhwar Park-BSE-PRS/CSTM
72		CSTM-BSE	1*10G & STM-16	Linear	PRS/CSTM-Fort Mint-BSE
73		CSTM-DIT Mantralaya	1*10G & STM-16	Protected	
74	WR: Different customer deliveries	Ujjain-Maksi	1*10G	Linear	Direct
75		Ujjain-Nagda	1*10G	Linear	Direct
76		Ujjain-Indore	1*10G	Protected	Path-1: Ujjain-Fatehabad-Indore Path-2: Ujjain-Maksi-Dewas-Indore
77		Indore-IIT/Indore	1*10G	Protected	Indore-IIT/Indore (both path)
78		Bhopal-NIC/Bhopal	1*10G	Protected	Bhopal-NIC/Bhopal (both path)
79		Nagpur-NIC/Nagpur	1*10G	Protected	Nagpur-NIC/Nagpur (both path)
80		Kurla-SBI Rabale	1*10G	Protected	
81		Kurla-Mankhurd	1*10G	Protected	
82		Thane-Sify Airoli	1*10G	Protected	
83		Kalyan-BSNL Kalatalab	1*10G	Protected	
84		Pune-NIC Pune	1*10G	Protected	
85		Bhopal-Itarsi	2*10G	Protected	
86		Panvel-CSTM	2*10G	Protected	
87		Panvel-Nagpur	2*10G	Protected	
88		Vasai-LVSB	2*10G	Protected	
89		Maksi-Bhopal	2*10G	Protected	
90		Pune-Panvel	2*10G	Protected	
91		Mahalakshmi-Kurla	2*10G	Protected	
92		Kurla-Panvel	2*10G	Protected	
93		Mahalakshmi-Bandra	2*10G	Protected	
94	WR: Saurashtra	AHEMEDABAD-GANDHINAGAR NIC	4*10GbE	Protected upto GANDHINAGAR	
95		AHEMEDABAD-Mehsana	2*10GbE & Stm-16	Protected	
96		AHEMEDABAD-SURENDRANAGAR	2*10GbE & Stm-16	Protected	
97		AHEMEDABAD-JETALSAR	2*10GbE & Stm-16	Protected	
98		AHEMEDABAD-Rajkot	2*10GbE & Stm-16	Protected	
99		AHEMEDABAD-Palanpur	2*10GbE & Stm-16	Protected	
100		AHEMEDABAD-BOTAD	2*10GbE & Stm-16	Protected	
101		Palanpur-BHILDI	2*10GbE & Stm-4	Protected	
102		SURENDRANAGAR-VIRAMGAM	2*10GbE & Stm-4	Protected	
103		VIRAMGAM-BOTAD	2*10GbE & Stm-4	Protected	
104		SURENDRANAGAR-RAJKOT	2*10GbE & Stm-4	Protected	
105		SURENDRANAGAR-JETALSAR	2*10GbE & Stm-4	Protected	
106		AHEMEDABAD-CHANDLODIYA	2*10GbE & Stm-4	Protected	