

Corrigendum-II

Sub: “Provisioning of MDWDM in Konkan Railway Route & CSMT-CCG via Badhwar Park Route for RailTel’s OFC based Network”

Ref: E-Tender Notice No. RailTel/WR/E-Tender/OT/2021-22/MDWDM KRCL dated 24.05.2021

With reference to the above mentioned open e-tender, based on the bidders queries, amendments to the tender conditions enclosed as Annexure-A are being issued (amended clauses/amendments only are being published with the rest of the document remaining as it is).

The last date of submission of bids is also extended from 12.07.2021 to 20.07.2021. Tender will be opened at 15:30 Hrs. on 20.07.2021.

All other terms & conditions of tender document remain the same.

This issues with the approval of Competent Authority.

(Arvind Kumar)
Sr. Manager/O&M/Proc/WR
For & on behalf of RailTel Corporation of India Ltd.

DA: (i) Annexure-A (total 13 pages)

(ii) Bidders Queries and Clarifications (total 10 pages)

iii) RailTel office order Number- RCIL-CO0OP (CORR)/1/ 2021- O/o ED/Operations/CO/RCIL (E 14736) dated 04.06.2021 given as Annexure- A(v)(total 03 pages)

Annexure-A

AMENDMENTS TO THE TENDER CONDITIONS

Ref: RailTel/WR/E-Tender/OT/2021-22/MDWDM KRCL dtd 24.05.2021

SN	Clause no. & Chapter no.	Page no.	Sub-clause no./ Point no.	Tender Clause	Revised Clause																				
1	Chapter No. IV Clause No. 1.1	36	a /S. N. 01	<table><tr><th>S.N</th><th>Links</th><th>Client-side Capacity</th><th>Link type</th><th>MDWDM Route</th></tr><tr><td>1</td><td>Mahalaxmi-Panvel</td><td>10X10G (Linear)</td><td>Muxponder on alien wavelength</td><td>Path 1: Mahalaxmi –Kurla-Vashi-Panvel.</td></tr></table>	S.N	Links	Client-side Capacity	Link type	MDWDM Route	1	Mahalaxmi-Panvel	10X10G (Linear)	Muxponder on alien wavelength	Path 1: Mahalaxmi –Kurla-Vashi-Panvel.	<table><tr><th>S.N</th><th>Links</th><th>Client-side Capacity</th><th>Link type</th><th>MDWDM Route</th></tr><tr><td>1</td><td>Mahalaxmi-Panvel</td><td>10X10G (Protected)</td><td>Muxponder on alien wavelength</td><td>Path 1: Mahalaxmi –Kurla-Vashi-Belapur-Panvel ((Alien wavelength). Path 2: Mahalaxmi-Bandra-Vasai-Bhiwandi-Kopar-Panvel (Alien wavelength).</td></tr></table> Existing network link losses details for Path -1 and Path -2 for above requirement refer Annexure- A (i) and Annexure-A(ii).	S.N	Links	Client-side Capacity	Link type	MDWDM Route	1	Mahalaxmi-Panvel	10X10G (Protected)	Muxponder on alien wavelength	Path 1: Mahalaxmi –Kurla-Vashi-Belapur-Panvel ((Alien wavelength). Path 2: Mahalaxmi-Bandra-Vasai-Bhiwandi-Kopar-Panvel (Alien wavelength).
S.N	Links	Client-side Capacity	Link type	MDWDM Route																					
1	Mahalaxmi-Panvel	10X10G (Linear)	Muxponder on alien wavelength	Path 1: Mahalaxmi –Kurla-Vashi-Panvel.																					
S.N	Links	Client-side Capacity	Link type	MDWDM Route																					
1	Mahalaxmi-Panvel	10X10G (Protected)	Muxponder on alien wavelength	Path 1: Mahalaxmi –Kurla-Vashi-Belapur-Panvel ((Alien wavelength). Path 2: Mahalaxmi-Bandra-Vasai-Bhiwandi-Kopar-Panvel (Alien wavelength).																					
2	Chapter No. IV Clause No. 1.1	37	a	Note: A pair of general optical path protection module (OPPM) required to place at Panvel and Madgaon for protection of 10G/100G channel. The module should be integrated in new proposed supplied chassis under this tender or existing available chassis of DWDM equipment of RailTel DWDM network.	Deleted																				

3	Chapter No. IV Clause No. 1.1	38	d.	For 10X10G Muxponder circuits a pair of switching module should be provided by bidder so that channel can be protected within ring in future. Traffic must survive against single fiber cut in ring independently or simultaneously. The switching time must be less than 50 ms.	Deleted
4	Entire tender document			Added New clause as 38 under chapter III for EMD. This clause will supersede all EMD Clauses of tender document.	The earnest Money applicable for this contract shall be as per RailTel office order Number- RCIL-CO00P (CORR)/1/ 2021- O/o ED/Operations/CO/RCIL (E 14736) dated 04.06.2021 given as annexure-A(v) of Corrigendum-II.
5	Entire tender document			Added new clause as 39 under chapter III.	Wherever there is a requirement of submission of any document on the stamp paper/ notarized stamp paper and owing to the lockdown if the stamp papers are not obtainable, bidders may submit such document on its letter head. However, required documents on stamp paper/ notarized stamp paper (as the case may be) needed to be submitted by the successful bidder(s) before issuance of LOA.
6				Added new clause as 1.9 under chapter IV.	In case of fiber loss variations is more than 4 dB in 1st Fiber Loss and 2nd Fiber Loss of same fiber pair. In that case Bidder is allowed to consider average of both these fiber loss value for Link engineering.
7	Chapter No. IV Clause No. 1.3	41	a	Main OADM sites should be equipped with Minimum 8 Channel Mux/Demux (with express port) with 100 GHz channel spacing.	Main OADM sites (Panvel, Ratnagiri ,Madgaon ,CCG,CSTM and Badhwar Park) should be equipped with Minimum 8 Channel Mux/Demux with 100 GHz channel spacing at each directions. May also refer annexure-A (iii) for more detailing.
8	Chapter No. IV Clause No. 1.3	41	b	OADM sites (17 No. sites for KRCL route + 03 No.sites for CCG-CSTM route) may be equipped with Minimum 4 Channel Mux/Demux with express port with 100 GHz channel spacing and common channel frequencies with minimum 8 Channel Mux/Demux (Main OADM Node).	OADM sites may be equipped with Minimum 4 Channel Mux/Demux with express port with 100 GHz channel spacing at each directions and common channel frequencies with minimum 8 Channel Mux/Demux at each directions (Main OADM Node). May also refer annexure-A(iii) for more detailing.
9	Chapter No. IV Clause No. 1.3	41	c	OADM Passive Sites (POADM) (19 No. sites for KRCL route +06 No.sites for CCG-CSTM route) should be equipped with Minimum 8 Channel Mux/Demux with express port with 100 GHz	Deleted

				channel spacing. The proposed 8 Channel Mux/Demux (minimum) should have common channel frequencies with minimum 8 Channel Mux/Demux (Main OADM node).	
10	Chapter No. III Clause No. 2	10	b	The tenderer must have received contractual payments in the previous three financial years and the current financial year up to the date of inviting of tender, at least 150% of the advertised value of the tender. The tenderers shall submit Certificates to the effect which may be an attested certificate from the concerned department / client or Audited Balance Sheet duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited balance sheet. (Note: Client certificate from other than Govt. Organization should be duly supported by from 16A/26AS generated through TRACES of Income Tax Department of India)	The bidder should have minimum cumulative turnover of 150% of tendered value or above during the last 3 financial years (i.e. current year and/or three previous financial years). The bidder should provide Audited Balance Sheets / annual reports as documentary evidence and for current year, the Statutory Auditor's certificate for turnover of current year up to the date of bid opening for which Balance Sheet/P&L may not be available. In case of photocopy of Balance Sheet/P&L the same should be certified by Chartered Accountant as true copy.
11	Chapter No. IV Clause No. 1	41	1.8	Bidder shall consider fiber losses 6 dB fiber repair margin and max fiber loss can be considered upto 33 db per span in New MDWDM backbone system (e.g. if current fiber losses is 30 db, fiber repair margin will be 3db, this will not applicable for those spans where optional ILA sites are available in annexure-I). In case of span fiber loss is equal or more than 33 db in that case 1 dB additional fiber repair margin per span shall be considered. Bidder is also required to submit full link budget calculation of required channels 8 along with input parameters Vs output of planning tool.	Bidder shall consider fiber losses 4 dB fiber repair margin for new sections as well as alien sections. Bidder is also required to submit full link budget calculation of required channels 8 along with input parameters Vs output of planning tool. Fiber Characteristic – Forward and reverse path for New MDWDM ILA /OADM and RailTel existing ADVA make DWDM Network Locations are placed as Annexure-A(iv)

				Fiber Characteristic – Forward and reverse path for New MDWDM ILA /OADM and RailTel existing ADVA make DWDM Network Locations are placed as Annexure-I	
12	Chapter-III Clause No.20.	17	20	The tenderer may quote, supply and be paid in major foreign currency such as US dollars. EURO or British pounds etc. for imported items. Tenderer shall invoice based on CIP destination Value and RailTel shall pay the applicable Custom duty/ IGST directly to custom authorities without further deduction from this CIP destination Value due to Tenderer.	Deleted
13	Chapter No. IV Clause No. 9.1.3	48	9.1.3.1.1	0G Muxponder shall support several Ports with OC-3/STM-1,OC-12/STM-4,OC-48/STM-16,OTU1 client rates.	10G Muxponder shall support several Ports with OC-3/STM-1,OC-12/STM-4,OC-48/STM-16,OTU1 client rates.
14	Chapter No. IV	60-61		Annexure-II	Annexure –II replaced by Annexure-A(iii)
15	Chapter No. IV	58-59		Annexure-I	Annexure –I replaced by Annexure-A(iv)

16	Chapter No. IV Clause No.1.1	38	c	SDH MUX side STM-16 SFP (DWDM coloured SFP) shall be supplied by Bidder as per technical specification given in clause 9.4.6 of Chapter IV. Bidder can also propose transponder/muxponder instead of DWDM SFP (SDH MUX side) as per specifications given in clause 9.1.3.1 of Chapter IV of MDWDM Technical Specifications. In that case, Transponder/Muxponder should have minimum line/client-side ports as per traffic matrix requirement. Clients side should be equipped with STM-16 SFP (1310nm).	SDH MUX side STM-16 SFP (DWDM coloured SFP) shall be supplied by Bidder as per technical specification given in clause 9.4.7 of Chapter IV. Bidder can also propose transponder/muxponder instead of DWDM SFP (SDH MUX side) as per specifications given in clause 9.1.3.1 of Chapter IV of MDWDM Technical Specifications. In that case, Transponder/Muxponder should have minimum line/client-side ports as per traffic matrix requirement. Client's side should be equipped with STM-16 SFP (1310nm).
17				Added new clause as 9.2.1.13 under chapter IV.	9.2.1.13 Bidder/OEM shall also have option for establishing the communication channel in between the NEs and the NMS using out band management (Thru Ethernet Network of RailTel) in place of OSC/GCC.
18				Added New clause as 40 under chapter III for Reverse Auction. This clause will supersede all Reverse Auction Clauses of tender document.	Reverse Auction will not be applicable for this tender.

All other term & conditions of tender documents will remain same.

Existing network link losses details for Path -1 and Path -2 of traffic matrix Chapter-IV clause-1.1 a S.N.-1:

S.N.	Segment	Direction	Length (in Kms)	Fiber Type	Fiber Loss (In db)
1	MX -BANDRA	Forward	15 KMS	G652D	10.5
		Reverse		G652D	15.4
2	BANDRA -VASAI	Forward	42 KMS	G652D	32.2
		Reverse		G652D	34.6
3	VASAI-BHIWANDI	Forward	33 KMS	G652D	17.1
		Reverse		G652D	19.7
4	BHIWANDI-KOPAR	Forward	9 KMS	G652D	21.1
		Reverse		G652D	26.2
5	KOPAR -PANVEL	Forward	33 KMS	G652D	28.0
		Reverse		G652D	24.5
6	PANVEL -CBD BELAPUR	Forward	15km	G652D	20.3
		Reverse		G652D	19.9
7	CBD Belapur -VASHI	Forward	22km	G652D	23.7
		Reverse		G652D	13.5
8	VASHI -KURLA	Forward	15 KMS	G652D	12.0
		Reverse		G652D	17.0
9	KURLA -MX	Forward	15 KMS	G652D	18.2
		Reverse		G652D	21.6

ADVA DWDM MUMBAI METRO NETWORK EDFA AND DCF STATUS						
S.N.	Source Node	Sink Node	Section length in Kms	Source Node Tx Power EDFA	Sink Node Rx Power EDFA	DCF placed / not placed
1	MX	BANDRA	15 KMS	40CSM Tx	1-5 EDFA -DGCV	Not placed
	BANDRA	MX		40CSM Tx	6-17 EDFA -DGCV	Not placed
2	BANDRA	VASAI	42 KMS	1-16 EDFA -SGCB	1-6 EDFA -DGCV	Not placed
	VASAI	BANDRA		1-5 EDFA -DGCV	1-17 EDFA -DGCV	Not placed
3	VASAI	BHIWANDI	33 KMS	1-16 EDFA -DGCV	1-17 EDFA -DGCV	Not placed
	BHIWANDI	VASAI		1-16 EDFA -DGCV	1-17 EDFA -DGCV	Not placed
4	BHIWANDI	KOPAR	9 KMS	1-5 EDFA -DGCV	1-6 EDFA -DGCV	DCF Placed at bhiwandi towards kopar. DCF(40)
	KOPER	BHIWANDI		1-5 EDFA -SGCB	1-6 EDFA -DGCV	Not placed
5	KOPAR	PANVEL	33 KMS	1-16 EDFA -DGCV	1-6 EDFA -DGCV	Not placed
	PANVEL	KOPAR		1-5 EDFA -SGCB	1-17 EDFA -DGCV	DCF placed at Panvel towards kopar. DCF(50)
6	PANVEL	CBD Belapur	12km	1-14 EDFA-SGCB	2-6 EDFA -DGCV	Not placed
	CBD Belapur	PANVEL		2-5 EDFA -DGCV	1-17 EDFA -DGCV	Not placed
7	CBD Belapur	Vashi	12km	2-16 EDFA -DGCV	1-17 EDFA -DGCV	Not placed
	Vashi	CBD Belapur		40CSM Tx	2-17 EDFA -DGCV	Not placed
8	VASHI	KURLA	15 KMS	40CSM Tx	1-17 EDFA -DGCV	Not placed
	KURLA	VASHI		40CSM Tx	1-5 EDFA -DGCV	Not placed
9	KURLA	MAHALAXMI	15 KMS	2-5 EDFA-SGCB	11-6 EDFA -DGCV	Not placed
	MAHALAXMI	KURLA		11-5 EDFA-SGCB	2-6 EDFA -DGCV	Not placed

List of locations for New MDWDM:**1) Section Name: Panvel –Ratnagiri-Madgaon**

SN	Site Name	ILA or OADM	OADM Degree	Nos. of Channel required at OADM (in Each directions)
1	Panvel	OADM	1	8
2	Pen	OADM	2	4
3	Nagothane	OADM	2	4
4	Roha	OADM	2	4
5	Kolad	OADM	2	4
6	Mangon	OADM	2	4
7	Veer	OADM	2	4
8	Karanjadi	OADM	2	4
9	Vinhare	OADM	2	4
10	DWV	OADM	2	4
11	Khed	OADM	2	4
12	Anjani	OADM	2	4
13	Chiplun	OADM	2	4
14	Kamathe	OADM	2	4

15	Savarda	OADM	2	4
16	Aravali Rd	OADM	2	4
17	Sangameshwar	OADM	2	4
18	Uksi	OADM	2	4
19	Bhoke	OADM	2	4
20	Ratnagiri	OADM	2	8
21	Nivsar	OADM	2	4
22	Adavali	OADM	2	4
23	Vilvade	OADM	2	4
24	Rajapur	OADM	2	4
25	Vaibhavwadi	OADM	2	4
26	Nandgaon	OADM	2	4
27	Kankavali	OADM	2	4
28	Sindhurg	OADM	2	4
29	Kudal	OADM	2	4
30	Zarap	OADM	2	4
31	Sawantwadi	OADM	2	4
32	Madure	OADM	2	4
33	Pernem	OADM	2	4
34	Thivim	OADM	2	4

35	Karmali	OADM	2	4
36	Verna	OADM	2	4
37	Majroda	OADM	2	4
38	Madgaon	OADM	1	8

2) Section Name: CSTM- CCG via Badhwapark Route

SN	Site Name	ILA or OADM	OADM Degree	Nos. of Channel required at OADM (in Each directions)
1	CCG	OADM	2	8
2	DIT	OADM	2	4
3	CBI	OADM	2	4
4	Nariman Point	OADM	2	4
5	Navy Nagar	OADM	2	4
6	Badhwar Park	OADM	2	8
7	BSE	OADM	2	4
8	Fort Mint	OADM	2	4
9	CSTM	OADM	2	8

Note: Bidder/OEM should have to design the optical layer in such a way so that 10G in between CSTM-Badhwar Park and Badhwar Park –CSTM via CCG should work without any additional hardware requirement in the optical layer.

Fiber Characteristic for MDWDM Routes**Section Name: Panvel-Ratnagiri-Madgaon**

SN	END A	END A Type : OADM or ILA	END B	END B Type: OADM or ILA	Fiber Length (in KM)	Fiber Type	1st Fiber Loss (in dBm)	2nd Fiber Loss (in dBm)
1	Panvel	OADM	Pen	OADM	40	G652B	24.71	22.21
2	Pen	OADM	Nagothane	OADM	27	G652B	28	26.4
3	Nagothane	OADM	Roha	OADM	16	G652B	25.3	26.2
4	Roha	OADM	Kolad	OADM	17	G652B	13.1	12.4
5	Kolad	OADM	Mangaon	OADM	15	G652B	14.7	15.3
6	Mangaon	OADM	Veer	OADM	17	G652B	11.05	8.79
7	Veer	OADM	Karanjadi	OADM	17	G652B	8.45	12.31
8	Karanjadi	OADM	Vinhare	OADM	11	G652B	9.7	11.3
9	Vinhare	OADM	DWV	OADM	9	G652B	10.3	9.8
10	DWV	OADM	Khed	OADM	19	G652B	12.4	13.6
11	Khed	OADM	Anjani	OADM	14	G652B	17.07	16.19
12	Anjani	OADM	Chiplun	OADM	17	G652B	12.41	10.67
13	Chiplun	OADM	Kamathe	OADM	11	G652B	16.02	15.67
14	Kamathe	OADM	Savarda	OADM	10	G652B	13.18	11.5
15	Savarda	OADM	Adavali	OADM	11	G652B	11.32	13.47
16	Adavali	OADM	Sangameshwar	OADM	15	G652B	13.1	10.18
17	Sangameshwar	OADM	Uksi	OADM	14	G652B	19.83	21.9
18	Uksi	OADM	Bhoke	OADM	14	G652B	12.73	14.75
19	Bhoke	OADM	Ratnagiri	OADM	8	G652B	4.4	7.87
20	Ratnagiri	OADM	Nivsar	OADM	16	G652B	9.25	13.23

21	Nivsar	OADM	Adavali	OADM	18	G652B	16.65	13.21
22	Adavali	OADM	Vilvade	OADM	16	G652B	21.28	21.02
23	Vilvade	OADM	Rajapur	OADM	18	G652B	9.47	10.17
24	Rajapur	OADM	Vaibhavwadi	OADM	17	G652B	16.75	17.87
25	Vaibhavwadi	OADM	Nandgaon	OADM	17	G652B	13.56	15.73
26	Nandgaon	OADM	Kankavali	OADM	16	G652B	9.09	9.69
27	Kankavali	OADM	Sindhurg	OADM	19	G652B	10.73	9.18
28	Sindhurg	OADM	Kudal	OADM	12	G652B	16.27	14.43
29	Kudal	OADM	Zarap	OADM	11	G652B	9.87	9.15
30	Zarap	OADM	Sawantwadi	OADM	11	G652B	8.81	9.56
31	Sawantwadi	OADM	Madure	OADM	11	G652B	9.36	9.12
32	Madure	OADM	Pernem	OADM	12	G652B	11.5	10
33	Pernem	OADM	Thivim	OADM	13	G652B	11	12
34	Thivim	OADM	Karmali	OADM	18	G652B	15.73	17.81
35	Karmali	OADM	Verna	OADM	17	G652B	9.5	7.79
36	Verna	OADM	Majroda	OADM	6	G652B	7.32	6.71
37	Majroda	OADM	Madgaon	OADM	9	G652B	8.41	9.47

Section Name: CSTM- CCG via Badhwapark Route

SN	END A	END A Type : OADM or ILA	END B	END B Type: OADM or ILA	Fiber Length (in KM)	Fiber Type	1st Fiber Loss (in dBm)	2nd Fiber Loss (in dBm)
1	CCG	OADM	DIT	OADM	3	G652D	5	6
2	DIT	OADM	CBI	OADM	2	G652D	5	5
3	CBI	OADM	Nariman Point	OADM	1	G652D	5	3
4	Nariman Point	OADM	Navy Nagar	OADM	6	G652D	8	7
5	Navy Nagar	OADM	Badhwar Park	OADM	5	G652D	7	8
6	Badhwar Park	OADM	BSE	OADM	5	G652D	8	7
7	BSE	OADM	Fort Mint	OADM	3	G652D	5	6
8	Fort Mint	OADM	CSTM	OADM	2	G652D	3	5

The last date of submission of bids is also extended from 12.07.2021 to 20.07.2021. Tender will be opened at 15:30 Hrs. on 20.07.2021.

All other term & conditions of tender documents will remain same.



No. RCIL-COOP(CORR)/1/2021-O/o ED/Operations/CO/RCIL (E 14736)
Dt. 04.06.2021

Executive Directors/Regional General Manager
RailTel Corporation of India Ltd.
Northern Region/New Delhi,
Eastern Region/Kolkata,
Southern Region/Secunderabad,
Western Region/Mumbai.

Sub: Indian Railways Standard General Conditions of Contract, July 2020 (Bid Security/Earnest Money Deposit & Additional Performance Security in case of Abnormally Low Bids).

Ref: (i) Railway Board Letter No. 2020/CE-I/CT/3E/GCC/Policy Dt. 30.12.20.
(ii) Ministry of Finance MO No. F9/4 2020-PPD Dt. 12.11.2020.

In compliance with Govt. Of India, Ministry of Finance vide OM No. F.9/4/2020 – PPD Dt. 12.11.2020 and Railway Board Policy Letter 2020/CE-I/CT/3E/GCC/Policy Dt. 30.12.2020 (referred (i)), it has been decided by RailTel to modify in Bid Security/Earnest Money Deposit and Additional Performance Security in case of Abnormally Low Bids are placed below:

1. Bid Security/Earnest Money Deposit:

- 1.1 No provisions of Earnest Money Deposit should be kept in the Bid documents in future and only Bid Security Declaration should be kept in the Bid Documents. This will be applicable for all tenders issued till 31.12.2021.
- 1.2 In lieu of Bid Security, bidder may be asked to sign "Bid Security Declaration" in the format attached as Annexure –I accepting that if they withdraw or modify their bids during period of validity etc., they will be banned for the period of Three years.
- 1.3 Whenever, there is compelling circumstances to ask for Bid Security, the same should be done only with the approval of the next higher authority to the authority competent to finalise the particular tender.

2. Additional Performance Security in case of Abnormally Low Bids:

- 2.1 No provisions should be kept in the Bid documents regarding Additional Security Deposit/Bank Guarantee (BG) in case of Abnormally low Bids.

रेलटेल कॉर्पोरेशन ऑफ इंडिया लिमिटेड (भारत सरकार का उपक्रम)
RailTel Corporation of India Ltd. (A Government of India Undertaking)
CIN : U64202DL2000GOI107905

Corporate Office : Plate-A, 6th Floor, Office Block-2, East Kidwai Nagar, New Delhi-110023, T : +91 11 22900600, F +91 11 22900699
Regd. Office : 6th Floor, IIIrd Block, Delhi Technology Park, Shastri Park, Delhi - 110053
Website : www.railtelindia.com

SURESH KUMAR

Digitally signed
SURESH KUMAR
Date: 2021.06.04
12:35:23 +05'30'

- 2.2 Whenever, there is compelling circumstances to ask for Additional Security Deposit/Bank Guarantee (BG) in case of Abnormally Low Bids, the same should be done only with the approval of the next higher authority to the authority competent to finalise the particular tender.

This shall be followed in all tenders/contracts of RailTel Corporation of India Ltd. with immediate effect.

This is being issued with the approval of Chairman and Managing Director.

**SURESH
KUMAR** Digitally signed by
SURESH KUMAR
Date: 2021.06.04
12:36:36 +05'30'

**(Suresh Kumar)
Executive Directors/POM**

For & on Behalf of RailTel Corporation of Ltd.

- DA: (i) Format for Bid Security Declaration as per Annexure –I.
(ii) Railway Board Letter's mentioned above.
(iii) MO's of Ministry mentioned above.

- Copy to : 1. OSD to CMD for kind information to CMD.
2. DPOM, DNPM & DF for their kind information.
3. Sr. Manager/P&A – for uploading on RailTel Intranet website.
4. All EDs/GGMs/GM Addl. GMs in CO through mail.

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Format for Bid Security Declaration

(On Non-judicial stamp paper of Rs. 100/-)

Whereas, I/We _____ (Name of Agency) has submitted bid for _____ (Name of Work and Tender No.) and whereas Earnest Money Deposit is being exempted in the aforesaid tender to give relief to the bidders as per Govt. of India guidelines due to severe financial crunch on account of slowdown in the economy due to the pandemic,

I/We hereby submit the following "Bid Security Declaration" in lieu of exemption from submitting Earnest Money Deposit :-

- 1) If I/We withdraw or modify my/our bid during the bid validity period (including extended validity of tender) specified in the tender documents;

Or

- 2) If, after the award of work, I/We fail to accept LOA/LOI, or to sign the contract agreement or fail to submit performance guarantee or fail to commence the work within stipulated time period prescribed in tender documents;

Or

- 3) If I/We furnish any incorrect or false statement / information/ document;

Or

- 4) If I/We hide any relevant information or do not disclose any material fact in the tender;

Or

- 5) If I/We commit any breach of integrity Pact;

I/We may be disqualified and banned for a period of three years and shall not be eligible to bid for future tenders in RailTel Corporation of India Ltd. for the period of three years from date of issue of such orders.

(Signed by the Authorized Representative of Firm)

Name of Authorized Representative
Name of Firm
Date

**Vikas
Singh**

Digitally signed
by Vikas Singh
Date: 2021.06.04
12:21:03 +05'30'

BIDDERS QUERIES AND CLARIFICATIONS

Ref: E-Tender Notice No. RailTel/WR/E-Tender/OT/2021-22/MDWDM KRCL dtd 24.05.2021

Pre-Bid queries E-Tender Notice No - RailTel/WR/E-Tender/OT/2021-22/MDWDM KRCL						
SN	Clause no. & Chapter no.	Page no.	Sub-clause no./ Point no.	Clause Description	Query from Bidder	RailTel's Response
1	1.1	37	1.1	Note: A pair of general optical path protection module (OPPM) required to place at Panvel and Madgaon for protection of 10G/100G channel. The module should be integrated in new proposed supplied chassis under this tender or existing available chassis of DWDM equipment of RailTel DWDM network.	We understand that acc to service matrix given in tender, there is no requirement of any protection module as all services are linear in nature. Request you to remove the requirement.	Please see the point No.1 ,2 and 3 of corrigendum -II
2	1.1	37	1.1	Note: A pair of general optical path protection module (OPPM) required to place at Panvel and Madgaon for protection of 10G/100G channel. The module should be integrated in new proposed supplied chassis under this tender or existing available chassis of DWDM equipment of RailTel DWDM network.	We understand that OPPM is not standard term used in DWDM technology and looks like OEM specific term. If, it needs to be provided, please provide more details about the module along with switching criterias.	Please see the Point No.1 ,2 and 3 of corrigendum -II
3	1.1	38	b	RailTel invites solution for following routes with traffic matrix on MDWDM network (CSTM-CCG via Badhwapark Route)	We understand that 10G plugables do not have any FEC available and FEC for 10G line is available on board. But routers do not have any FEC on board. So, request Railtel team to make the use of transponders/muxponders	Routers does not have FEC support however bidder should propose a solution based on the traffic requirement. Proposed SFP should be compatible with OEM equipments like CISCO , Juniper,D Link Edge Core , Tejas ,Fibcom .Bidder can also propose transponder/ muxponder instead of coloured SFP based solution and also read clause –1.1 e and clause – 9.4.8 Chapter –IV of

					mandatory for services originating from router.	Tender Document.
4	1.1	38	b	RailTel invites solution for following routes with traffic matrix on MDWDM network (CSTM-CCG via Badhwapark Route)	If bidder proposed 10G pluggables on router and regeneration is required as FEC is not available on routers, please confirm the availability of router ports on 3R locations.	FEC support is not available on Routers and SDH MUXs bidder should propose solution based on traffic matrix requirement. Any additional hardware/ software will not be provided at 3R sites by Railtel. Bidder can also propose transponder/ muxponder instead of coloured SFP based solution and also read clause –1.1 e and Clause -9.4.8 Chapter –IV of Tender Document.
5	1.1	38	b	RailTel invites solution for following routes with traffic matrix on MDWDM network (CSTM-CCG via Badhwapark Route)	Also confirm all the router interfaces are SFP+ form factor, not XFP form factor	SFP+ may be considered.
6	1.1	38	d.	For 10X10G Muxponder circuits a pair of switching module should be provided by bidder so that channel can be protected within ring in future. Traffic must survive against single fiber cut in ring independently or simultaneously. The switching time must be less than 50 ms.	As per tender, all the services are linear in nature. So, there is no use of any protection module. Request railtel to remove the clause.	Please see the point No.3 of corrigendum -II
7	1.1	38	d.	For 10X10G Muxponder circuits a pair of switching module should be provided by bidder so that channel can be protected within ring in future. Traffic must survive against single fiber cut in ring independently or simultaneously. The switching time must be less than 50 ms.	If switching module is mandatory, please confirm the type of switching railtel requires i.e. Client/line/DXC based protection. Also confirm the switching criterias.	Please see the point No.3 of corrigendum –II

8	1.4	41	1.4	Bidder/OEM can use RailTel existing DWDM Network of same OEM make components like chassis, OSC system and modules in MDWDM Network at common locations/paths without impacting traffic and functionality of DWDM Network. In case if the cards/modules/Licenses in the existing DWDM hardware is proposed, OEM shall provide Undertaking for long term support for 8 years for all existing components irrespective of End of Life of the existing hardware.	For offering level playing opportunity to all bidders, all the bidders should mandatorily propose new equipments at all the sites otherwise incumbent bidders will have an unfair advantage of not proposing new chassis at the sites. Please confirm.	Tender clause is very clear. No change is proposed.
9	1.7	41	1.7	The proposed locations nodes can be used as OADM and ILA-OADM. List of location and Segments for New MDWDM is placed at Annexure-II.	We understand by term "ILA-OADM" as the chassis in which new modules can be inserted and can be upgraded to OADM in future. It is not fixed ILAs. Please confirm if our understanding is correct.	ILA-OADM is also an OADM site where bidder should provide minimum 4 channel Mux/D-Mux with express port. In this sites bidder can provide Fixed coloured SFP based solution or transponder/muxponder based solution for required traffic matrix as per clause -9.4.7 and clause -9.4.8 Chapter -IV of Tender Document.
10	2.9	43	2.9	MDWDM Line port shall be provided with tunable laser covering the complete C-band for 40 discrete wavelengths at 50/100 GHz spacing for fast provisioning of transparent end-to-end services and spare part reduction.	As per clause 9.4.7 Page-56 & clause 9.4.8, Page-57 of tender, fixed 10G SFP on router is required while clause 2.9 refers to Tunable Lasers. As there is a conflict on the above two clause, please clarify if the Bidder is required to offer fixed colored 10G Laser or Tunable 10G DWDM SFPs. Kindly confirm	RailTel has invited solution for the defined traffic matrix mentioned in tender document, bidder may offer transponder/muxponder Tunable DWDM SFPs based solution or fixed colored SFP based solutions on Switch/Router/SDH MUX as per clause -9.4.7 and clause -9.4.8 Chapter -IV of Tender Document.. If bidder offer transponder based solution then provide tunable laser and if provide coloured SFP based solution then provide fixed SFP as per the specification mentioned under clause 9.4.7 (for DWDM coloured STM-16 SFP) and 9.4.8.(for DWDM coloured 10G SFP+).

11	Annexure-1	58	24		For the same span, loss between Fwd and reverse path is different and difference is very high. It is very difficult to design the network with the losses. Please confirm which losses needs to be considered.	Please see the Point No.6,11,15 and Annexure-A(iv) of corrigendum –II.
12	9.1.2	48	9.1.2.5.2	9.1.2.5.2 DWDM filters for low channel count in form of cable	Please elaborate "DWDM filters for low channel count in form of cable"	Tender condition is very clear. Bidder should submit BOM based on solution required in tender document.
13	9.1.2	48	9.1.2.5.2	9.1.2.5.4 Electronically Variable Optical Attenuator (EVOA)	EVOA are already integrated in the amplifier. Please confirm the use case of plugable EVOA.	Tender condition is very clear. Bidder should submit BOM based on solution required in tender document. If solution demand EVOA, bidder should proposed that if solution not demand bidder need not to propose.
14	1.3	41	a	a) Main OADM sites should be equipped with Minimum 8 Channel Mux/Demux (with express port) with 100 GHz channel spacing.	Please elaborate "Main OADM Site"	Please see the point No.7 and Annexure –A(iii) of corrigendum –II
15	1.3	41	b	b) OADM sites (17 No. sites for KRCL route + 03 No.sites for CCG-CSTM route) may be equipped with Minimum 4 Channel Mux/Demux with express port with 100 GHz channel spacing and common channel frequencies with minimum 8 Channel Mux/Demux (Main OADM Node).	Please elaborate "OADM Site"	Please see the point No.8 and annexure –A(iii) of corrigendum –II

16	1.3	41	c	c) OADM Passive Sites (POADM) (19 No. sites for KRCL route +06 No.sites for CCG-CSTM route) should be equipped with Minimum 8 Channel Mux/Demux with express port with 100 GHz channel spacing. The proposed 8 Channel Mux/Demux (minimum) should have common channel frequencies with minimum 8 Channel Mux/Demux (Main OADM node).	Please elaborate "POADM Site"	Please see the point No.9 of corrigendum –II
17					We understand that new MDWDM route requires both 10G & 100G to co-exist on new routes in future and bidder needs to proposed DCM in the network to 10G to work. Please confirm if understanding is correct.	Tender condition is very clear. Bidder should submit BOM based on solution required in tender document.
18					Request railtel to confirm the each client type to be LR or SR.	Tender condition is very clear. Bidder should submit BOM based on solution required in tender document. Bidder can offer LR or SR or combination of SR and LR.
19					Please confirm End of life channel count for new MDWDM is 8.	Tender condition is very clear. Please see the clause-2.1 Chapter-IV of Tender Document.
20					Please provide optical details of mentioned Adva network including Amps',DCM, no. of channels running,End of life design details.	1. Please see the annexure –A(i) of Corrigendum -II for Optical details. 2. Please see the annexure –A(ii) of Corrigendum –II for EDFA and DCM deployment in ADVA DWDM Network. 3. 29 no of channels currently running in the ADVA network. 4. End of Life is 15 years.

21					Please confirm requirement of VOA and power monitoring cards for 10G and STM-16 network	Tender condition is very clear. Bidder should submit BOM based on solution required in tender document.
22	Chapter-III 2. Eligibility Criteria for Bidder:	10	C	c) Bidder should have authorization specific to this tender from respective as per Form No.5.	Please clarify the following: 1) Whether an OEM can authorize multiple partners to bid their product in case OEM is not bidding. 2) Whether an OEM can authorize multiple partners to bid their product in case OEM is also bidding.	Tender Condition is very clear. No change proposed. OEM can authorize multiple partners even though OEM itself participating. There is no restriction for participation.
23	Chapter-III 20. Bid Prices, Taxes & Duties	17	20	The tenderer may quote, supply and be paid in major foreign currency such as US dollars. EURO or British pounds etc. for imported items. Tenderer shall invoice based on CIP destination Value and RailTel shall pay the applicable Custom duty/ IGST directly to custom authorities without further deduction from this CIP destination Value due to Tenderer.	We understand that price bid should be in single currency (Indian Rupee only) as per letter no P-45021/2/2017-PP(BE-II) issued by department for promotion of industry and internal trade dated 16.09.2020 and letter no 2017/Trans/01/Policy/Pt-S dt 28.03.2018 issued by Ministry of Railways. Also as per tender SOR and Annexure format the currency is mentioned in Indian Rupees. Kindly confirm the same.	Please see the point No.12 of corrigendum –II
24	Chapter-III 2. Eligibility Criteria for Bidder:	10	D	d) In the event of Foreign Original Equipment Manufacturer (OEM), Indian Subsidiary or its 100% subsidiary fully authorized for bidding on behalf of OEM is allowed to participate with the experience and financial credential of parent company with specific authorization for doing so from the OEM. The specific	We understand that any company with specific authorization of OEM should be considered as a bidder and should have its own credentials for qualification criteria and eligibility criteria for bidder mentioned in tender. we suggest to set a separate eligibility criteria for bidder as well as for OEM to clear this point. Pls confirm.	Tender clause is very clear. No change proposed.

				authorization addressed to RailTel should be submitted by the tenderer.		
25	37.10 Services Level Agreement Values (SLA):	24	37.10-ii	Duration of Repair - Deduction/Penalties 1. More than 30 days and upto 40 days 1.10% of the cost of affected part/module (from the date of receipt) 2. More than 40 days and upto 50 days 2.25% of the cost of affected part/module (from the date of receipt) 3. More than 50 days and upto 60 days 3.75% of the cost of affected part/module (from the date of receipt) 4. More than 60 days (from the date of receipt) 4. Full cost of affected part/module receipt)	1. Ideally the penalty % should be AMC cost of the affected part/module. Please clarify whether the Penalty % is based on the AMC cost of the affected part/module or Supply cost of the affected part/module. 2. Please clarify whether 30 days SLA is as per calendar days or Business Days.	Its supply cost of affected part/module. 30 days SLA will be count by calendar days.
26	E-Tender Notice	2		Cost of Tender and Earnest Money (EMD) shall be submitted through online, in https://www.railtel.enivida.com e-procurement portal only.	There is a Railtel E-Nivida Portal issue to make payments through corporate bank account. We understand that bidder can also make payment in railtel bank account as per detail mention at point Xi page no -4 and can submit receipt as a proof.	Tender clause is very clear. For EMD, please see the point no.4 of Corrigendum-II.
27	IV	37	1.1	A pair of general optical path protection module (OPPM) required to place at Panvel and Madgaon for protection of	As per Traffic matrix all service are linear then why protection switching module is required	Please see the Point No.1 ,Point No.-2 and Point No.3 of Corrigendum-II

				10G/100G channel. The module should be integrated in new proposed supplied chassis under this tender or existing available chassis of DWDM equipment of RailTel DWDM network.	Panvel & Madgaon location, please confirm	
28	IV	41	1.3.a	Main OADM sites should be equipped with Minimum 8 Channel Mux/Demux (with express port) with 100 GHz channel spacing.	As per traffic matrix it seems traffic requirement is less at intermediate site so please allow for 4 channel mux/demux system as well. OADM degree is max 2 at every location then why need express port, please confirm	Please see the Point No.7 Ponit No.8, Point No.9 and Annexure –A(iii) of Corrigendum-II
29	IV	41	1.8	Bidder shall consider fiber losses 6 dB fiber repair margin and max fiber loss can be considered upto 33 db per span in New MDWDM backbone system (e.g. if current fiber losses is 30 db, fiber repair margin will be 3db, this will not applicable for those spans where optional ILA sites are available in annexure-I). In case of span fiber loss is equal or more than 33 db in that case 1 dB additional fiber repair margin per span shall be considered. Bidder is also required to submit full link budget calculation of required channels 8 along with input parameters Vs output of planning tool. Fiber Characteristic – Forward and reverse path for New	As per span losses detail, link distance is so less(<20km) and fiber repair margin is required 6dB 6dB margin is recommended if distance is >60KM so it is request to reduce fiber repair margin 6dB to 3dB.	Please see the Point No.11 of Corrigendum-II.

				MDWDM ILA /OADM and RailTel existing ADVA make DWDM Network Locations are placed as Annexure-I		
30	IV	58	Annexure - I	Anjani OADM Chiplun OADM 17 G652B 20.98 9.43	Fiber loss difference is >12dB at mostly location that would be difficult for link planning so it is request please allow to OEM to propose single fiber based solution.	Please see the Point No.6 ,Point No.11 and annexure-A(iv) of Corrigendum-II
31	IV	56	9.4.7	DWDM Coloured STM16 SFP & 10GSFP+ Should be compatible with OEM equipment's like Tejas and Fibcom.	Please ensure Tejas & Fibcom SDH mux system suport third party DWDM coloured SFP & SFP+.	Bidder should ensure that proposed SFP/SFP+ should be compatible with OEM equipment's like Cisco, Juniper, D Link, Edge Core, Tejas and Fibcom. As per the clause 9.4.7 and clause 9.4.8 of Chapter-IV "Bidder can also propose STM-16/10G capacity transponder/Muxponder instead of DWDM 10G coloured SFP+ (Router side) / STM-16 coloured SFP (SDH Mux side) as per specifications given in clause 9.1.3 of Chapter IV of MDWDM Technical Specifications. In that case, Transponder should have minimum line/clientside ports as per traffic matrix requirement. Clients side should be equipped with 10G SFP+/XFP(1310nm)/STM-16 SFP"
32	III	22	35.2	Reverse Auction	Reverse auction should not be mandatory for such low value. Pls refer tender# 001, recently published by CO (valuing ~ INR 64 Cr), is not carrying RA clause.	Please see the point No.18 of Corrigendum-II.

33	IV	51	9.2.13	DWDM System shall support Optical Supervisory Channel (OSC) or GCC that is inserted and extracted at each node. All network elements shall be managed through the offered OSC/GCC.	As Tender is based on low cost DWDM system so it is our request please remove NE management communication through OSC. NE management communication still can through NE ethernet port & GCC(Transponder/Muxponder) bytes, Even GCC bytes are down still there would be redundancy through LAN port	Please see the point No.17 of Corrigendum-II
34		10	Financial Eligibility criteria(2.b)	Certificates to the effect which may be an attested certificate from the concerned department / client or Audited Balance Sheet duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited balance sheet. (Note: Client certificate from other than Govt. Organization should be duly supported by from 16A/26AS generated through TRACES of Income Tax Department of India	The bidder would like to mention that as a proof of Financial capability Audited Balance Sheet are sufficient as the same are signed and stamped by a authorized chartered accountant. There is no need for Form 16A/26AS from client as these forms are internal document of our client and are for private use only. Moreover these forms do not show the nature of transaction , thereby does not have any meaningful impact of financial capability clause	Please see the Point No.10 of Corrigendum-II
35				General term	Is Eligible MSEs are exempted from cost of EMD?	Please see the Point No.4 of Corrigendum-II