

Tender Document

Name of the Work:

Comprehensive Signalling and Telecommunication works for provision of Automatic Block Signalling system in Sirpur Kaghaznagar-Asifabad road, Rechni road - Mandamari, Manikgarh-Balharshah sections of Secunderabad division in South Central Railway.

Tender Notice No. C_SG_C_36_5_413 Dated: 19.08.2025

Office of Dy. CSTE/Projects
Secunderabad

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Notice Inviting Tender

The Particulars can be obtained from Indian Railways website www.ireps.gov.in. Tenderers who wish to participate in tenders invited on www.ireps.gov.in have to register on the website mandatorily. Please refer website for more details.

Instructions & Guidelines for Submitting e-Tenders

INSTRUCTIONS & GUIDELINES FOR SUBMITTING E-TENDERS REVISED AS PER GCC APRIL 2022

- A. All information and documents submitted by the tenderer shall be complete and legible. In case of any information/document submitted by the tenderer, as visible/downloaded from IREPS portal, being incomplete or illegible, the offer shall be evaluated based on the information/document submitted by the tenderer and legible to Railway. Decision of Railways in this regard shall be final and binding on the tenderer.
- B. Tenderers shall go through the entire tender documents and familiarize themselves with schedule of work, scope of work, conditions of contract, technical specifications, regulations of the tender etc. and submit their offer complete in all respects, duly furnishing all the documents and details required for a valid offer. Railway reserves the right to evaluate the tenders as per their own standards/practices. No claim of the tenderer shall be entertained/accepted on account of any ignorance of the tenderer, any information/document not submitted by them or any incomplete/illegible document submitted by them.
- C. Tenderers/are advised to read the instructions given below and strictly ensure that all the compulsory & important documents as mentioned herein, are uploaded before submitting their tender. No document submitted after Tender Closing Time shall not be considered for evaluation of tender, unless specifically mentioned in this tender document.
- 1. Submission of tenders shall be **ONLY** through e-tendering on the website <u>www.ireps.gov.in</u>
- 2. The tenderer shall clearly specify whether the tender is submitted on his own (proprietary Firm) or on behalf of a Partnership Firm/Company/Joint Venture (JV)/Registered Society/Registered Trust/Hindu Undivided Family (HUF)/Limited Liability Partnership (LLP), etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.

If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm/Partnership Firm/Joint Venture/Registered Company, etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.

The tenderer whether sole proprietor/a company or a partnership firm/joint venture (JV)/registered society/registered trust/HUF/LLP, etc., if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender

and further to deal with the Tender/Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed/Memorandum of Understanding/Article of Association/ Board resolution, failing which tender shall be summarily rejected.

A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.

Note: If the Power of Attorney is executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille Certificate.

(Ref: Clause 14(i), 14(iii) & 15 of TENDER FORM (Second Sheet) of GCC APRIL 2022).

- 3. The tender must be accompanied by a Bid Security as mentioned in Para 5 of Part-1, Instruction to Tenderers (ITT) of GCC APRIL 2022, Para 6(a), 17.5 & 18.6 of TENDER FORM (Second Sheet) along with Annexure-VIA of GCC APRIL 2022, failing which the tender shall be summarily rejected.
- 4. Following documents mentioned at (a) to (h) below, should be furnished along with tender and should be submitted online at the time of tender bidding. **Tenders not accompanied by these documents will be summarily rejected.** No post tender communication, in any form will be made or entertained, after opening of tenders, in this regard. Railways may however call for the originals of the credentials for verification or any clarifications/confirmations on the contents of the documents submitted.
- i. TENDER FORM (First Sheet) (Ref: Annexure-I to Part-I of GCC APRIL 2022).
- ii. Works(s) completion certificate(s) as per the requirement of Technical eligibility criteria (Ref: Clause 10.1 and for tenderer participating as JV firm Clause 17.15.1 of TENDER FORM (Second Sheet) of GCC APRIL 2022 as modified vide Special Conditions of Contract and Appendix-IIA of Tender Document.
- iii. Documents as per the requirement of financial eligibility criteria (<u>Ref:</u> Clause 10.2 and for tenderer participating as JV firm Clause 17.15.2 of TENDER FORM (Second Sheet) along with Annexure-VIB of GCC APRIL 2022)
- iv. Documents for evaluating the Bid Capacity, for tenders having advertised value more than Rs.20.00 crore (Ref: Clause 10.3 and for tenderer participating as JV firm Clause 17.15.3 of TENDER FORM (Second Sheet) along with Annexure-VI of GCC APRIL 2022 and Appendix-III).
- v. **Certificate**, stating that the tenders/s are liable to be disqualified and all their statements/documents submitted along with bid are true and factual, as per **Annexure-V** (<u>Ref:</u> Para 6.1 of Part-1, Instruction to Tenderers (ITT) of GCC APRIL 2022).

vi. In case the tenderer is **other than Joint Venture (JV) firm**, tenderer has to submit all the documents as mentioned below (<u>Ref:</u> Clause 14(ii) (a) to (c), (e) to (g), (iv) and 18.10 of TENDER FORM (Second Sheet) of GCC APRIL 2022).

Type of Firm	Documents to be submitted
(a)Sole Proprietorship Firm:	All documents in terms of Para 10 of the Tender Form (Second
	Sheet) of GCC APRIL 2022.
(b) HUF:	(i) A copy of notarized affidavit on Stamp paper declaring that he
	who is submitting the tender on behalf of HUF is in the
	position of Karta of Hindu Undivided Family (HUF) and he has
	the authority, power and consent given by other members to
	act on behalf of HUF.
	(ii) All other documents in terms of Para 10 of the Tender Form
	(Second Sheet) of GCC APRIL 2022.
(c) Partnership Firm:	(i) A notarized copy of the Partnership Deed or a copy of the
	Partnership deed registered with the Registrar.
	(ii) A notarized or registered copy of Power of Attorney in favour
	of the individual to tender for the work, sign the agreement,
	etc. and create liability against the firm.
	(iii) An undertaking by all partners of the partnership firm that
	they are not blacklisted or debarred by Railways or any other
	Ministry/Department of the Govt. of India from participation
	in tenders/contracts as on the date of submission of bids,
	either in their individual capacity or in any firm/LLP in which
	they were/are partners/members. Any concealment/wrong
	information in regard to above shall make the bid ineligible
	or the contract shall be determined under Clause 62 of the
	Standard General Conditions of Contract.
	(NOTE: THIS DOCUMENT SHOULD BE SIGNED BY ALL THE
	PARTNERS OF THE FIRM)
	(iv) All other documents in terms of Para 10 of the Tender Form
	(Second Sheet) of GCC APRIL 2022.
(d) Company registered under	(i) The copies of MOA (Memorandum of
Companies Act-2013:	Association)/ AOA (Articles of
	Association) of the company.
	(ii) A copy of Certificate of Incorporation.
	(iii) A copy of Authorization/Power of Attorney issued by the
	Company (backed by the resolution of Board of Directors)
	in favour of the individual to sign the tender on behalf of
	the company and create liability against the company.
	ı

	Note: In case of submission of a "Specific Resolution of Board of Directors" related to the instant tender, then it should be supported by a Specific Authorization/Power of Attorney." (iv) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC APRIL 2022.
(e) LLP (Limited Liability	(i) A copy of LLP Agreement.
Partnership) registered under	(ii) A copy of Certificate of Incorporation.
LLP Act 2008:	(iii) A copy of Power of Attorney/ Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP.
	(iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry/Department of the Govt. of India from participation in tenders/contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were/are partners/members. Concealment/wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.
	(NOTE: THIS DOCUMENT SHOULD BE SIGNED BY ALL THE
	PARTNERS OF THE FIRM)
	(V) All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC APRIL 2022.
(f)Registered Society &	(i) A copy of Certificate of Registration.
Registered Trust:	 (ii) A copy of Memorandum of Association of Society/Trust Deed. (iv) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust.
	(v) A copy of Rules & Regulations of the Society.
	(vi) All other documents in terms of Para 10 of the Tender form (Second Sheet) of GCC APRIL 2022.

After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm/Partnership Firm/Registered Company/Registered Trust/ Registered Society/ HUF/LLP etc. shall be neither asked nor considered, if submitted after closing of tender.

vii. In case the tenderer is a Joint Venture (JV) firm, tenderer has to submit all the documents as mentioned below:

i. Copy of Memorandum of Understanding (MoU) duly executed by the JV members on a stamp paper, shall be submitted by the JV along with the tender. The complete details of the members of the JV, their share and responsibility in the JV etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU. (Ref: Clause 17.6 of TENDER FORM (Second Sheet) of GCC APRIL 2022 & Appendix-VIII of the Tender Document).

ii Documents of JV Members:

(Ref: Clause 17.14 of TENDER FORM (Second Sheet) of GCC APRIL 2022).

In case one or more of the members of the JV is/are:

Type of Firm	Documents to be submitted
(a) Partnership Fir	rm: (i) A notarized copy of the Partnership Deed or a copy of the
	Partnership deed registered with the Registrar.
	(ii) A copy of consent of all the partners or individual authorized
	by partnership firm, to enter into the Joint Venture
	Agreement on a stamp paper.
	(iii) A notarized or registered copy of Power of Attorney in favour
	of the individual to sign the MOU/JV Agreement on behalf of
	the partnership firm and create liability against the firm.
	(iv) An undertaking by all partners of the partnership firm that they
	are not blacklisted or debarred by Railways or any other
	Ministry/Department of the Govt. of India from
	participation in tenders/contracts as on the date of
	submission of bids, either in their individual capacity or in
	any firm/LLP in which they were/are partners/members.
	Any concealment/wrong information in regard to above
	shall make the bid ineligible or the contract shall be
	determined under Clause 62 of the Standard General
	Conditions of Contract.
	(NOTE: THIS DOCUMENT SHOULD BE SIGNED BY ALL THE
	PARTNERS OF THE FIRM)
(b) Proprietary Fir	
HUF:	Concern is a proprietary Concern and he is the sole proprietor of
	the Concern OR he who is signing the affidavit on behalf of HUF is
	in the position of 'Karta' of Hindu Undivided Family (HUF) and he
	has the authority, power and consent given by other members to
	act on behalf of HUF.
(c) Companies:	(i) A copy of resolutions of the Directors of the Company
	permitting the company to enter into a JV Agreement,
	(ii)The copies of MOA (Memorandum of Association)/AOA (Articles
	of Association) of the company
	(iii) A copy of Certificate of Incorporation

	(iv) A copy of Authorization/copy of Power of Attorney issued by	
	(iv) A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of	
	Directors) in favour of the individual to sign the tender, sign	
	MOU/JV Agreement on behalf of the company and create	
	liability against the company.	
	Note: In case of submission of a "Specific Resolution of Board of	
	Directors" related to the instant tender, then it should be	
	supported by a Specific Authorization/ Power of Attorney."	
(d) LLP firm/s:	(i) A copy of LLP Agreement	
(u) LLF IIIII/3.	(ii) A copy of Certificate of Incorporation of	
	LLP.	
	(iii) A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV Agreement.	
	(iv) A copy of Authorization/copy of Power of Attorney issued by	
	the LLP firm (backed by resolution passed by the Partners) in	
	favour of the individual, to sign the tender and/or sign the	
	MOU/JV agreement on behalf of the LLP and create liability	
	against the LLP.	
	(v) An undertaking by all partners of the LLP that they are not	
	blacklisted or debarred by Railways or any other Ministry	
	/Department of the Govt. of India from participation in	
	tenders/contracts as on the date of submission of bids, either	
	in their individual capacity or in any firm/LLP or JV in which	
	they were/are partners/members. Any concealment /wrong	
	information in regard to above shall make the contract liable	
	for determination under Clause 62 of the Standard General	
	Conditions of Contract.	
	(NOTE: THIS DOCUMENT SHOULD BE SIGNED BY ALL THE	
	PARTNERS OF THE FIRM)	
(e) Society/s or Trust/s:	(i) A copy of certificate of Registration	
	(ii) A copy of Memorandum of Association of Society/Trust Deed	
	(iii) A copy of Rules & Regulations of the Society	
	(iv) A copy of Power of Attorney, in favour of the individual to sign	
	the tender documents and create liability against the	
	Society/Trust.	

- ii. All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC APRIL 2022.
- 5. Compliance of Employment/Partnership, etc. of Retired Railway Employees as per Clause 16 of TENDER FORM (Second Sheet) of GCC APRIL 2022, failing which contract is liable to be dealt in accordance with provision of Clause 62 of Standard General Condition of Contract of GCC APRIL

- **2022 (Note: Information/Certification should be given as per 'Appendix-IV'** of the Tender/Technical Bid Document).
- 6. Tenderers shall note that the submission of other following supporting documents, **is important** and they shall ensure the same at the time of online bidding of tender. However, Railways may seek clarifications/details/documents in this regard.
- (a) Copy of **Vendor Mandate Form as per Appendix-VII** of the Tender Document. All payments to the agency (including the refund of the Earnest Money (EMD) of the unsuccessful bidder) will be remitted through NEFT. The Tenderer is required to declare Bank details and A/C No. etc.in Vendor Mandate Form.
- (b) Copy of the **complete details of the firm as per Appendix-I** of the Tender/Technical Bid Document, to which all correspondences shall be made by the Railway.
- (c) Copy of Goods and Services Tax (GST) Registration Certificate containing GST Registration Number.
- (d) Copy of Certificate by tenderer for **site visit and familiarization** as **per Appendix-VI** of the Tender/Technical Bid Document.
- (e) Copy of the list of the Personnel/Organisation of the tenderer on hand and proposed to be engaged for this tender as per Appendix-IV of the Tender/Technical Bid Document.
- (f) Copy of list of the plants & machinery of tenderer available on hand and proposed to be inducted and hired for this tender as per Appendix-V of the Tender/Technical Bid Document.
- 7. The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall when so be required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the Railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the Railway there under.
- 8. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered
- All correspondence regarding the tender shall be addressed to:
 Office of Dy.CSTE (Project) Secunderabad

1st Floor Microwave Building, Adjacent to Rail Nilayam,

Secunderabad 500003.

dycstepsc@gmail.com

Part -C

Checklist for tenderer

Checklist for Tenderers			
SI. No	Requirements	Documents required/Remarks	Mandatory /Desirable
1	Tenderer shall download and submit Tender Document with the Digital Signature Certificate (DSC) in the name of participating Tendering Firm (Proprietorship/Partnership Firm / Company / Joint Venture (JV) / Registered Society /Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc., as applicable) or the person authorized to submit the Tender.		Mandatory
2	Digital Signature of Tenderer/Authorized Signatory on Tender Document & Supporting Document along with addresses and phone no. for communication.		Mandatory
3	Whether the tender is submitted on his own (Proprietary Firm) /Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.	Attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents to be signed by a person legally competent to sign them. If it is NOT mentioned in the submitted tender that the tender is being submitted on behalf of a Sole Proprietorship firm / Partnership Firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender. A copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender etc.	Mandatory
4	The tender must be ac	ccompanied by a Bid Security	Mandatory
5	TENDER FORM (First Sheet)		Mandatory
6	TENDER FORM (Second Sheet)		Desirable
7	Work(s) completion certificate(s) as per the requirement of technical eligibility criteria		Mandatory

8	Documents as per the requirement of financial eligibility criteria		Mandatory
9	Documents for evaluating the Bid Capacity, for tenders having advertised value more than Rs.20.00 crore		Mandatory
10	Certificate, stating that the tenderer/s are liable to be disqualified and all their statements / documents submitted along with bid are true and factual		Mandatory
	In case the tenderer i documents as mention	s other than Joint Venture (JV) firm, tenderer has to ned below	submit all the
11	Type of Firm	Documents to be submitted	
(a)	Sole Proprietorship Firm:	All documents in terms of Para 10 of the Tender Form (Second Sheet)	Mandatory
(b)	HUF:	 i. A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. ii. All other documents in terms of Para 10 of the Tender Form 	Mandatory
(c)	Partnership Firm:	 i. A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar. ii. A notarized or registered copy of Power of Attorney iii. An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm / LLP in which they were / are partners /members. NOTE: THIS DOCUMENT SHOULD BE SIGNED BY ALL THE PARTNERS OF THE FIRM. iv. All other documents in terms of Para 10 of the Tender Form 	Mandatory

(d)	Company registered under Companies Act-2013:	 i. The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company ii. A copy of Certificate of Incorporation. iii. A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company. iv. All other documents in terms of Para 10 of the Tender Form (Second Sheet) of GCC APRIL 2022. 	Mandatory
(e)	LLP (Limited Liability Partnership) registered under LLP Act-2008:	 i. A copy of LLP Agreement ii. A copy of Certificate of Incorporation iii. A copy of Power of Attorney/ Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP. iv. An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders /contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. NOTE: THIS DOCUMENT SHOULD BE SIGNED BY ALL THE PARTNERS OF THE FIRM. v. All other documents in terms of Para 10 of the Tender Form (Second Sheet) 	Mandatory
(f)	Registered Society & Registered Trust:	 i. A copy of Certificate of Registration. ii. A copy of the Memorandum of Association of Society / Trust Deed. iii. A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. iv. A copy of Rules & Regulations of the Society. v. All other documents in terms of Para 10 of the Tender Form (Second Sheet) 	Mandatory
12	In case the tenderer is the documents as me	a Joint Venture (JV) firm, tenderer has to submit all ntioned below.	

13	Copy of Memorandum of Understanding (MoU) duly executed by the JV members on a stamp paper, shall be submitted by the JV along with the tender. The complete details of the members of the JV, their share and responsibility in the JV etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU.		Mandatory
14	Documents of JV Mem	<u>nbers:</u>	
	Type of Firm	Documents to be submitted	
a)	Partnership Firm:	 i. A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar. ii. A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper, iii. A notarized or registered copy of Power of Attorney in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm. iv. An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. NOTE: THIS DOCUMENT SHOULD BE SIGNED BY ALL THE PARTNERS OF THE FIRM. 	Mandatory
b)	Proprietary Firm or HUF:	A copy of notarized affidavit on Stamp Paper declaring that his Concern is a proprietary Concern and he is sole proprietor of the Concern OR he who is signing the affidavit on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.	Mandatory
c)	Companies	 i. A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement; 	Mandatory

		 ii. The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company; iii. A copy of Certificate of Incorporation; and iv. A copy of Authorization / copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender, sign MOU / JV Agreement on behalf of the company and create liability against the company. 	
d)	LLP firm/s	 i. A copy of LLP Agreement ii. A copy of Certificate of Incorporation of LLP iii. A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement iv. A copy of Authorization /copy of Power of Attorney issued by the LLP firm (backed by resolution passed by the Partners) in favour of the individual, to sign the tender and/or sign the MOU/ JV agreement on behalf of the LLP and create liability against the LLP. v. An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. NOTE: THIS DOCUMENT SHOULD BE SIGNED BY ALL THE PARTNERS OF THE FIRM. 	Mandatory
e)	Society/s or Trust/s	i. A copy of Certificate of Registration ii. A copy of Memorandum of Association of Society/Trust Deed iii. A copy of Rules & Regulations of the Society iv. A copy of Power of Attorney, in favour of the individual to sign the tender documents and create liability against the Society/Trust.	Mandatory
15	Sheet)	in terms of Para 10 of the Tender Form (Second is also to be submitted by the bidder	Mandatory

16	Compliance of Employment / Partnership etc. of Retired Railway Employees as per Clause 16 of TENDER FORM (Second Sheet)	Desirable
17	Tenderers shall note that the submission of other following supporting documents, is important and they shall ensure the same at the time of online bidding of tender. However, Railways may seek clarifications / details / documents in this regard.	Desirable
18	Copy of Vendor Mandate Form	Desirable
19	Copy of the complete details of the firm to which all correspondences shall be made by the Railway.	Desirable
20	Copy of Goods and Services Tax (GST) Registration Certificate containing GST Registration Number.	Desirable
21	Copy of certificate by tenderer for site visit & familiarization as per Appendix-VI of the Tender / Technical Bid Document.	Desirable
22	Copy of the list of the Personnel / Organisation of the tenderer on hand and proposed to be engaged for this tender as per Appendix-IV of the Tender / Technical Bid Document.	Desirable
23	Copy of list of the plants & machinery of tenderer available on hand and proposed to be inducted & hired for this tender as per Appendix-V of the Tender / Technical Bid Document.	Desirable
24	Declaration of Local Content as per 'Public Procurement (Preference to Make in India) Order 2017 or latest issued by Department of Industrial Policy and Promotion under Ministry of Commerce and Industry	Mandatory
25	The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall when so be required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the railway thereunder.	

APPENDICES

e-Tender Notice No.:	Appendix-I

Name of Work:

PARTICULARS OF TENDER(S)

- Full name of Contractor / Construction firm
- 2. Year of Establishment of Firm
- 3. Registered head office Address Telephone no, Fax no, E-mail address
- 4. Branch office Address, Telephone no, Fax no, E-mail address
- Details of Constitution of firm, Names of Partners/ Executive/ Power of Attorney holders, etc.
- 6. Particulars of Registration with Government Semi-Govt. Organisation, Public Sector Undertaking & Local Bodies etc.

e-Tender Notice No.:

Name of Work:

<u>LIST OF WORKS COMPLETE in last 07 (seven) years, ending last day of month previous to the one in which tender is invited</u>

Sr. No.	Name of work	Name of Organization for whom	Contract agreemen t No and		Value of tract	Date of Com	mencement
		executed and Contract awarding authority	Date of Award	Agreeme nt Value	Final Value	Scheduled	Actual
1	2	3	4	5	6	7	8

Date o	of Finish	Period of	Completion	Main features of	Remarks
Scheduled	Actual	Scheduled	Actual	the work	
9	10	11	12	13	14

Note:

i.Supporting documents / certificates (duly attested) from the organisation with whom worked or working should be enclosed.

ii.Certificate from private individuals for whom such works are exe**c**uted / being executed shall not be accepted.

Work Completion certificate (Issued by Organization)

Name of Organization-

Postal address, Phone No., Email ID, Fax No-

Letter No. Date: -.....

1.	Name of work	
2.	Contract Agreement(C/A) No. and date	
3. (i)	Name of Contractor with address	
(ii)	In the case of JV Name and % share of individual firms.	
4.	Original value of contract agreement.	
5.	Date of award of contract	
6.	Has the work physically been completed in all respect,	
	If yes, then actual date of physical completion.	
7.	Work completion date as per contract agreement.	
8.	Total payment made in above contract till the date of	
	Issue of certificate.	
9.	Value of contract as completed final value if final	
	bill prepared	
10.	In case of composite work:	
	Scope of work covered in the Agreement such as Civil work, Signalling work, Telecom work etc. with	
	details of Signalling & Telecom works and payments	
	paid towards S&T works	
11.	Performance of the contractor:	

I hereby certify that above mentioned work has been physically completed/substantially completed in all respects per contract agreement.

(Signature)
Name and Designation of officer
Mobile No. of officer
Seal of officer

Details as part of Annexure VI of Part-I of GCC

e-Tender Notice No.:

Name of Work:

LIST OF WORKS ON HAND: DETAILS OF EXISTING COMMITMENTS. BALANCE AMOUNT OF ONGOING WORKS AND WORKS AWARDED NOT YET STARTED

All works in progress and also the works which are awarded to tenderer but yet not started up to the date of opening of tender. In case of no works in hand, a 'NIL' Statement should be furnished. This statement should be submitted duly verified by Chartered Accountant. Any certificate issued by Statutory Auditor / CA must include Unique Document Identification Number (UDIN)

Sr. No.	Name of work	Name of Organization for whom executed and Contract awarding authority	Contract agreement No and Date of Award	Approx.	Value of C	Contract	Date Commer	
		dutherity		Agreeme nt Value	Payme nt receive d	Approx. balance to be received	Scheduled	Actual
1	2	3	4	5	6	7	8	9

Date of Finis	h	Period of Co	mpletion	%age Prog	ress	Reasons	Main	Remarks
Scheduled	Expected	Scheduled	Expected	Physical	Financial	for	features	
						Delay,	of the	
						if any	work	
10	11	12	13	14	15	16	17	18

Note:

- i. Supporting documents / certificates (duly attested) from the organisation with whom working or has been awarded work should be enclosed.
- ii. Certificate from private individuals for whom such works are being executed or has been awarded work shall not be accepted.

e-Tender Notice No.	nder Notice No.:
---------------------	------------------

Name of Work:

LIST OF PERSONNEL / ORGANISATION AVAILABLE ON HAND AND PROPOSED TO BE ENGAGED FOR THE SUBJECT WORK

Sr. No.	Name & Designation	Qualification	Professional Experience	Remarks

Note: - Supporting documents should be attached

I hereby certify that no retired Engineer/Gazetted Officer of the Railways who has retired within 1 year of date of submission of tender and has not obtained permission of competent authority has been engaged by me/our firm. I also certify that none of my relative is engaged in Engineering or any other Department in South Central Railway.

Signature of Tenderer(s)

LIST OF PLAN	IT & MACHI	NERY PROP	OSED TO BE HIR	RED FOR THE	WORK	
S.No. Partic	ulars of equ	ipment's	No. of units	Capacit	СУ	Remarks

Appendix-V

e-Tender Notice No.:

e-Tender Notice No.:

Name of Work:

DECLARATION FOR SITE VISIT

I/We hereby solemnly declare that I /We visited the sites of work personally and have made myself/ourselves fully conversant of the conditions therein and in particular the following:

- i) Topography of the area
- ii) Soil strata at site of work
- iii) Sources and availability of construction materials
- iv) Rates for construction materials, water, electricity including all local takes, royalties, octroi, etc.
- v) Availability of local labour (both skilled and unskilled) and relevant labour rates and labour laws
- vi) Existing roads, approaches, pathway to site of work
- vii) Space for stacking of materials, stores, offices etc.
- viii) Availability and rates of private land, etc. required for various purposes
- ix) Trees, shrubs, bushes, debris etc. required to be removed for site clearance
- x) Need of dewatering / pumping etc.
- xi) Climate conditions and availability of working days and working hours
- xii) Frequency / pattern of rail traffic, electrified tracks, road traffic etc.
- xiii) Availability of rail/road traffic block
- xiv) Law and order situation.
- xv) Any other conditions, which may affect rates.
- xvi) Signalling and Telecom installations including stations, Huts and LC Gates and Signal and Telecom gears connected thereto.

I/We have quoted my/our rates for various items in the tender schedule taking into account all the above factors likely to be encountered during execution of work. I/We shall not be entitled for any claim against the Railway on account of the above factors.

I/We hereby declare that no such retired engineer or Gazetted Officer (as defined in clause 17.1 of this tender document) retired from government service within one year prior to opening of this tender is working or associated with us.

Signature of Tenderer(s)

Signature of Tenderer(s)

MANDATE FORM FOR	PAYMENT THROUGH ECS/NEFT
Firm's Name	
Firm's address/ Tel. No. /FAX no. /Email.ID	
Name of the bank	
Bank Branch Name Address / Tel. No. /Fax No. /Emial.ID	
Account no. (as per Core Baking)	
Type of Account	Saving / Current / others (please specify)
MICR Code & IFSC Code	

quickly to the unsuccessful tenderers through ECS/NEFT.

Page **26** of **211**

MEMORANDUM OF UNDERSTANDING

FOR JOINT VENTURE AGREEMENT

1.	1. This Memorandum of understanding executed this $_$	day of20						
	between(Name of Co.)	a company registered under the						
	Companies Act 1956 having in registered office at	represented through its Director /						
	Authorized Representative (he							
	which expression shall	unless repugnant to the context thereof						
	includes its successors) of the FIRST PART.							
	OR							
	M/s	a partnership firm registered under the						
	Indian Partnership Act 1932, having its registered office	e at						
	represented through its Partner Shri							
	Representative	(hereinafter referred to as						
	which expres	ssion shall unless repugnant to the context						
	thereof includes its successors) of the FIRST PART.							
	AND							
2.	2. M/s	(Name of Co.) a						
	company registered under the Companies Act 1956 h							
	represented through its							
	Representative	(hereinafter referred to as						
	which expression shall	unless repugnant to the context thereof						
	includes its successors) of the SECOND PART.							
	OR							
	M/s	a partnership firm registered under the						
	Indian Partnership Act 1932, having its registered office							
	(hereinafter referred to as wl							
	context thereof includes its successors) of the SECOND PART.							
	AND							
3.	3. This Memorandum of understanding executed this $_$	day of20						
	between (Name of	Co.) a company						
	registered under the Companies Act							
	office throug							
	Representative	(hereinafter referred to as						
		unless repugnant to the context thereof						
	includes its successors) of the THIRD PART.							
	OR							
	M/s	a partnership firm registered under the						
	Indian Partnership Act 1932, having its registered office at							
	Partner or Authorized Representative	(hereinafter referred to as						

	which expression shall unless repugnant to the context thereof includes its successors) of the THIRD PART.
	AND
4.	This Memorandum of understanding executed this day of
	OR M/s a partnership firm registered under the Indian Partnership Act 1932, having its registered office through its Partner or Authorized Representative (hereinafter referred to as which expression shall unless repugnant to the context thereof includes its successors) of the FOURTH PART. AND
5.	This Memorandum of understanding executed this day of20
	M/s
	M/s(details to be supplied of the expertise in their field). Whereas, the party of the second part i.e.
	M/s (details to be supplied of the expertise in their field). Whereas, the party of the third part i.e.
	M/s (details to be supplied of the expertise in their field)

Whereas, the party of the fourth part	t i.e.
M/s	(details to be supplied of the expertise in their field).
Whereas, the party of the fifth part i.	e.
M/s	(details to be supplied of the expertise in their field).
AND whereas parties to this MOU, ha	ave agreed to co-operate with each other to associate jointly and
to form a Joint Venture Firm to partic	cipate in the SCR Tender of Indian Railways.
Now, therefore, in consideration o	f the premises and mutual promises and of the undertaking
contained herein, it is hereby agreed	as follows: -
1.The purpose of MOU –	and agree to co-
operate with each other for the pur	pose of joint participation in the SCR Tender and in the event, the tute the contract. The board interface and scope of work of each
2. The parties, hereto, represent thaa) They are in possession of all appropriate MOU.b) They have not entered into any a SCR Tender.	roval's valid authorization for the purpose of the executive of this agreement/MOU of equal or similar nature with any third for the
its individual experience, technical responsibility, including the provi	grees and undertake to place at the disposal of the JV, benefits of knowledge and skill and shall in all respects bear its share of the sion of information advice and other assistance required in are and the participation of the partners in the JV shall broadly be
M/s	%
Lead Member:	

That one of the members of the JV shall be its lead member who shall have a majority (at least 51%) share of interest in the JV. The other members shall have a share of not less than 20% each in case of JV with up to three members and not less than 10% each in case of JV with more than three members. In case of JV with Foreign member(s), the Lead Member has to be an Indian firm/company with a minimum share of 51%.

And all rights, interest, liabilities, obligation, work experience and risks (net profits or net losses) arising out of the contract shall be shared or borne by the Parties in proportionate to these shares. Each of the parties shall bound by guarantees, sureties required for the work as well as its proportionate share in working capital and other financial requirements.

- 3. The Parties to this MOU undertake:
- a) That after submission of the tender, the MOU shall not be modified / altered / terminated during the validity of the tender except when modification becomes inevitable due to succession laws etc., provided further that there is no change in qualification of minimum eligibility criteria by JV after change of composition. The parties to this MOU further agree that, the Lead Member shall continue to be the Lead Member of the JV.
- b) That after the contract is awarded the constitution of the J.V. firm shall not be altered during the currency of contract except when modification becomes inevitable due to Succession Law etc. but no case the minimum eligibility criteria should get vitiated.

4. JOINT & SEVERAL LIABILITY:

In respect of the SCR Tender, all terms shall be complied by each party on back-to-back basis as per specifications of the SCR Tender or any other mutually agreed terms with the Owner/Customer. The Parties hereto shall, if awarded the contract for the project for which the Joint Venture is formed, be jointly and severally liable to the Indian Railways for executive of the project in accordance with the contract. The Parties hereto also undertake to be liable jointly and severally for the loss, damages caused to the Indian Railways in course of execution or due to non-execution of the contract or part thereof or arising out of the contract.

- 5. Shri ______ shall be authorized partner/person on behalf of the Joint Venture to deal with tender, to sign the agreement or enter into contract in respect of the said tender, to receive payment, to witness joint measurement of work done, to sign measurement books, and similar such action in respect of SCR tender/Contact. All notices/correspondence with respect to the contract would be sent only to this authorized member of the JV Firm.
- **6.** Notwithstanding anything contained herein, in respect of the SCR Tender with regard to the internal relationship, the inter se liabilities between the parties shall be in proportion to their respective scope of work and shall be subject to the provisions of this MOU.
- **7.** The parties agree that with respect of the SCR Tender neither Party, nor any subsidiary company of either Party, nor any joint venture company or any other entity, in which the Party/ies, is or are in any way interested, shall complete together with or through any third party, nor shall the partied advise, consult for, engage in or otherwise assist in any way any person or entity or any affiliate thereof in respect of any orders or contracts related to the SCR Tender.

8. Responsibility

Each party shall assume and accept full responsibility for its Scope of Work and the obligations imposed in the Contract and in this MOU as if it was, with regard to its Scope of Work, an independent partner contracting individually with the Customer. In the event of any third party in relation to or as

a consequence of any failure to meet the performance specification the Party, within whose Scope of Work the claim arises, shall be entirely responsible for the claim and shall indemnify and hold harmless the other Party from any liability, demand, claim burden cost, expense attorney's fees and costs arising from thereof.

9. Assignability

No Party to the Joint Venture has right to assign or transfer the interest, right or liability in the contract without the written consent of the other party and that of the Railway.

10. Use of Machinery, Instruments, Labour Force etc.

The Parties here to undertake that whatever the machinery, instruments, Labour force (including unskilled, skilled, inspectors, Engineers etc.) they possess at the time of entering into Joint Venture Agreement or which subsequently shall come in their possession and if such machinery, instruments, labour force is required for the speedy and efficient executive of the work, the Party/Parties having the control over the said machinery, instruments, labour force etc. without having any regard to their share of profit and loss agreed to between the Parties in Joint Venture Agreement shall hand over the same at the disposal of the other party who is actually executing the work for purpose of execution of the contract without any hindrances and obstacle.

- **11. Duration of MOU:** It shall be valid during entire currency of contract including the period of extension, if any and also till the maintenance period is over or till all the contractual liabilities including warranty/guarantee obligations are discharged completely.
- **12. Applicable law:** This MOU and any arrangement/agreements regarding the performance shall be construed and interpreted in accordance with and governed by the Laws of India and shall be subject to the exclusive jurisdiction of the courts at SECUNDERABAD.
- **13. Settlement of Disputes:** In the event of disputes arising from this MOU, the Parties to the MOU undertakes to endeavour to settle the said disputes amongst them amicably. However, if the parties fail to resolve the disputes amongst them amicably, the said disputes arising out of or in connection with the present MOU shall be resolved through Arbitration as per the provisions enshrined under the Arbitration and Conciliation Act, 1996 or/and amendments thereof.
- **14.** All communication or notices provided for herein shall be in English Language and be delivered, mailed, or Tele-faxed to the parties addresses as indicated below: -

M/s		
M/s		
All correspondence and n	 otices to the Joint Venture shall	be addressed to the Lead Member,
i.e. M/s	/ Shri	at the address stated
herein below:-M/s		

Such communication or notices shall be deemed to have been duly given when so delivered or, if mailed, when received at destination.

15. Each shall have full and sole responsibility to bear the expenses of and effect the payment of any taxes, duties, special insurance, fees or assessments of any nature whatsoever (including personal income taxes level or imposed on any of its employees or personnel or any of its sub-contractor's

employees or personnel) including penalties and interest, if any, levied in connection with the execution of this MOU.

16. The Parties to this MOU declare and certify that they have not been black listed or debarred by Railways or any other Ministry/Department of the Govt. Of India/State Govt. from participation in tender/contract on or before the date of opening of bids either in their individual capacity or the JV firm or partnership firm in which they were member/partners.

In witness whereof, the Parties have caused this MOU to be executed by their respective authorized representative on the date and year mentioned herein above.

Signature:-	Signature:-	Signature:-	
Shri	of Shri	of Shri	of
M/s	M/s	M/s	
Signature: -	Signature:-		
Shri	of Shri	of	
M/s	M/s		
Witnesses: -			
1. Name:	A	ddress: -	
2. Name:	А	ddress: -	

^{**} The contents in italics are only for guidance purpose. Details as appropriate are to be filled in suitably by tenderer.

Δ_1	Γρη	d	٥r	N	o ti	6	No.	•
e- I	еп	u	21	IV	ULI	LE	INU	

Name of Work:

STATEMENT OF DEVIATIONS FROM TENDER DOCUMENT

S.No.	Part and Clause no.	•	Deviation proposed by	
	of Tender	Railway	Contractor	of Deviation on
	Document			Railways

Signature of Tenderer(s)

Part -D
Special Conditions of Contract

I	General
II	Construction of ABS huts
III	Design of ABS system
IV	Explanatory notes for electronic
	interlocking
V	List of annexures for execution of work

I. General:

SI. No	Description					
1	The contract shall be governed by Indian Railways Standard General Conditions of Contract April 2022 as amended/corrected from time to time (GCC).					
2	These special conditions supplement the Regulations for tenders and contracts, the General Conditions of Contract (April 2022 with latest ACS) and the notes appearing under the relevant chapters and sub-chapters of the Standard Schedule of Rates, 2024 and should be considered a part of the contract document					
3	The General Conditions of Contract (GCC) shall mean the Indian Railways Standard General Conditions of Contract April 2022 as amended and/or corrected from time to time at the date of opening of tender.					
4	Definition of Similar Nature of Work: (Ref: Lr No. SCR-HQOSNT(TEND)/6/2019 (e 15262) dated 12.08.2025 from Office of the Principal Chief Signal & Telecom Engineer)					
	"Supply, Installation, Testing and Commissioning of Panel Interlocking / Route Relationary Relationship / Electronic Interlocking, Indoor and/or Outdoor works or IBS works or BPAG works or Digital Axle Counter works or interlocking of LC gates or Double Distant Signal work or Automatic Block Signalling works or TCAS / KAVACH works or CBTC works or S&T works in connection with Railway Electrification or Telecommunication work."					
5	Various designs & documents attached with the tender document are tentative and for guidance to the agency. Approvals shall be taken for the same before supply of material and execution of work.					
6	SCOPE OF WORK:					
	 Construction of Automatic block signalling huts of masonry type Trenching, laying and termination of signalling and telecommunication cables and all associated works 					
	 Foundation, erection and wiring of location boxes and signals, earthing arrangements Fabrication and fixing of various boards, painting of all signalling gears with particulars. 					
	Indoor works such Viz supply and erection of relay racks, supply and wiring of relays, circuit alterations, testing, commissioning and any other works required for commissioning of automatic block signalling					

➤ Alterations in the existing electronic interlocking system to integrate the same with automatic signalling system Provision of Fire Alarm & security cameras. supply, installation, wiring, testing of MSDAC, UFSBI, Non-vital mux and integrating them with ABS system Provision of power supply system in ABS huts and augmentation of existing power supply systems in stations Provision of fire alarm and security cameras. > Supply, installation, integration, testing, validation, networking and commissioning of Data loggers. The work also involves augmentation, alteration and validation of existing Data Logger at stations, LC Gates and any other locations > supply, installation and wiring of earthing arrangements for all new equipment installed as per OEM recommendations, RDSO Code of Practice and Zonal Railway practice. Supply, installation and commissioning of Display System of Automatic Signals and track occupation status at Station & ABS huts > System Integration, Testing and commissioning of both indoor and outdoor installations of Automatic Block Signalling system along with all associated works. > Submission of as Made documents Releasing of unused Material. > Any other signalling and telecommunication works required for making the automatic block signalling system functional The Railway reserves the right to supply its own materials if the contractor fails to supply within a reasonable period and the contractor will execute the labour portion as directed by the Engineer. Liquidity damages will be imposed for non-supply of material. Thus, if the material is used from railway stocks due to non-supply from the contractor, a deduction of 21.5% of the contracted amount for the corresponding item for quantity used for the work but defaulted by the contractor as applicable at the time of execution will be made from contractor's bills. The engineer's interpretation regarding quantities used is final The contractor shall be liable to render full accountal for all the materials issued by the Railway. If any quantity of Railway materials is consumed in excess or wasted or damaged or lost or otherwise not satisfactorily accounted for, recovery shall be made from the contractor at twice the issued rate prevailing at the time of last issue of the materials consumed in excess or wasted or damaged or lost or not satisfactorily accounted for. The work needs to be executed as per the details and technical specifications mentioned. TIME OF COMPLETION: a. All works including documentation shall be completed within the period as mentioned in NIT inclusive of the intervening monsoon period from the date of issue of acceptance letter, excluding Training of staff. The contractor should adhere to the progress of works as per the accepted completion period. Liquidated damages as per rules in force will be

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levied on the belated supply of materials and execution of work in the event of failure on

part of the contractor to complete the supplied and execution of work within the period of completion of work as stated.

b. In the event of failure of the part of the contractor for maintaining the progress. Thoroughly/commensurate progress with reference to time limit given in contract, the Railway reserves the right to terminate or to withdraw the whole balance work or part thereof at the discretion of the engineer-in-charge the security deposit and performance guarantees shall be forfeited by them as per relevant clauses.

11 Payment terms

а

The following table shows the schedule wise payment conditions.

Schedule	Payment Terms
Schedule A:	90% on supply and acceptance of material at Railway
Supply (SOR)	Stores/site.
	10% on commissioning
Schedule B:	a. Payment for Composite Items in Labour Portion:
Labour (SOR)	Where labour items are composite in nature, such as "Supply and Laying/Installation/Fixing etc.":
	70% payment on supply and acceptance of material at Railway Stores/site.
	> 20% on satisfactory installation of the material with OEM
	certification (wherever required).
	10% on commissioning of the station.
	b. Items with complete Labour portion
	> 100% on Installation
Schedule C:	a. 90% on supply and acceptance of material at Railway
Supply (Non	Stores/site.
SOR)	b. 10% on commissioning
Schedule D:	a. Payment for Composite Items in Labour Portion:
Labour (Non SOR)	Where labour items are composite in nature, such as "Supply and Laying/Installation/Fixing etc.":
	> 70% payment on supply and acceptance of material at
	Railway Stores/site.
	> 20% on satisfactory installation of the material with OEM
	certification (wherever required).
	10% on commissioning of the station.
	b. Items with complete Labour portion
	> 100% on Installation
Schedule E:	➤ 90% Payment on Supply and Submission of test certificates
(IPS supply)	10% on commissioning of the station.

	Schedule F:	> 90% Payment on Supply and Submission of test certificates
	Cables	10% on commissioning
	Schedule G:	70% payment on supply and acceptance of material at
	MSDAC	Railway Stores/site.
		20% on satisfactory installation of the material with OEM
		certification (wherever required).
		> 10% on commissioning
	Schedule H:	70% payment on supply and acceptance of material at
	UFSBI	Railway Stores/site.
		20% on satisfactory installation of the material with OEM
		certification (wherever required).
		> 10% on commissioning
	Sch I & Sch J	100% on Completion of Specific Item
	(Construction	
	of Masonry	
	Huts &	
	Electrical	
	Portion)	
b	"ON Account Payment	': On account payment made to the contractor shall be without
l D		kking up of the accounts (except where measurements are specifically
		ent book is final measurements and such have been signed by the
	contractor) and shall in no respect be considered or used as if evidence of any particular	
	quantity, of work having been executed nor of the manner of its execution being satisfactory.	
	Each on account bill/final bill shall invariably be accompanied by the joint material statement	
	•	he stores vs. Material utilized at site on the work for which materials
	have been drawn from F	ailway Store). Contractor shall intimate at least one month in advance
	in writing of his intention	n to claim any Bill exceeding Rs. 10 lakhs either for supply or for labour
	Portion so as to plan Fin	ances. Without such notice, his bill is liable to be withheld for want of
	funds. Billing Cycle-Odd	months or Even months will be followed (as per contractor's choice)
	except in March Month.	
С	In case of any dispute in	interpretation of Payment clauses, the decision of Railways is final and
	binding on the Tenderer	
d	The contractor shall sub	mit bills/gate passes/ invoices for the materials purchased by them to
"		of supplying the materials to nominated Railway Stores Depot or
	nominated Railway site	, 5
	-	charges shall be borne by the contractor. For the signalling materials
е	•	
	I to he inchected by the	RINCO/RILES the contractor chall have directly to RINCO/RILES thoir
		RDSO/RITES, the contractor shall pay directly to RDSO/RITES their e rate of 1% of the rate accepted under the agreement

f	No stores will be considered ready for delivery until RDSO/RITES have certified in writing they have been inspected and approved by them. Facilities must be given by the contractor to the Railway or their nominee for inspection of stores, manufacturer and fabrication. The materials mentioned with RDSO Specification implies that the item to be referred with the existing latest Specification.
g	PFA/Construction, Secunderabad, South Central Railway will be the accounts officer-in- charge of payment etc., under this contract.
h	Warranty & Maintenance Period: The warranty for this tender will be for a period of 12months from the date of commissioning. Maintenance Period for a period of 12 months shall be applicable from the date of issue of Final Completion Certificate. Since the essence of the equipment being provided is the reliability & proneness for trouble free working at site, the Contractor shall confirm that in case the equipment provided do not meet the Railways requirement and end objective, they shall replace and take away the equipment at no cost to the Railways. Any payment done by Railways shall be refunded back.
12	DESIGNs, DRAWINGs AND DOCUMENTs: Any drawing/document required can be obtained from the Dy. Chief Signal and Telecom. Engineer (Project), Secunderabad South Central Railway. Tentative Signalling Plans of station(s) are attached in the Tender Booklet
13	Approved Signal Interlocking Plans (SIPs) and Table of Control (TOC) and Typical circuits will be issued in due course, and within 02 months of supplying above documents Contractor is required to provide Application Logic Circuit and Interface Circuit to Railway for approval.
14	Left blank
15	Deploying Qualified / Trained Manpower: a. Tenderer shall deploy an adequate number of competent and trained personnel for work as per instructions of Engineer in charge of Railways. It is the responsibility of the contractor to deploy skilled staff. The number of personnels to be deployed will be decided by the officer in charge.
	b. All contractors' staff & Supervisors must display Identity Badges while working in Railway Premises and put on Helmets & Fluorescent coloured Safety Jackets while
	working on Tracks duly name of Firm/Contractor labeled on Rear side. No extra payments will be made for the above Items. OEM's authorized Installation Engineers must be mobilized well in advance for commissioning of E.I. Dataloggers, BPAC etc as the case may be, without fail. Safety at work Site to be ensured as per (Chief admin. Officer/Con/Sc's letter No. W.Con/496/PL/C/T&C/XIX(Safety), dated 29.02.2016).

	&Telecom. Engineer (Projects), Secunderabad, South Central Railway, will be the final authority and his decision shall be final and binding on the contractor
17	Functional requirements
a	Pre-commissioning check list of supplied equipment duly certified by OEM, shall be provided by the tenderer before commissioning. Tenderer is responsible for certification of OEM' that this equipment has been installed as per OEM/RDSO checklist. The commissioning support by OEM for all items supplied by the tenderer shall be ensured at least one month before and after commissioning. Tenderer is responsible for obtaining technical system application approval from RDSO/SCRly HQs vide railway board Ir.No.2012/Sig/ATSS dtd 03.05.2012 or as per latest instructions/guidelines. All teething troubles post commissioning (up to 1 month) must be attended within 6 Hrs.
b	For EI works, OEM shall prepare and submit floor drawings, equipment layout drawings and any other drawings required for execution of work and shall get approved by railways.
С	Certificates and Documents confirming RDSO approval for software and hardware versions shall be enclosed with tender documents.
18	Inspection of material
a	The material having value more than Rs. 5,50,000/-or critical items asper RailwayBoardletterNo.74/RS(G)/379/2Pt.dated4/3/91and18/6/91shallbe supplied duly inspected by RDSO/RITESAll the inspection charges shall be borne by the contractor. The inspection charges for material to be inspected by RITES will be as per Railway Board letter No.2022/RS(G)779/9 Dated.01.12.2022orlatestRailwayBoardguidelines. Normally, the inspecting agency shall not be changed. However, in case the nominated inspecting agency is not in a position to carryout inspection due to policy changes/or any other reason, the inspection shall be carried out asper Authority's decision. In such a case, cost of inspection charges as applicable for RDSO/RITES shall be deducted from the contractor's bills
b	Material with RDSO specifications shall be procured from RDSO approved vendors only. If no RDSO approved vendor is available, material shall be procured from other sources as approved by Authority.
С	Notwithstanding any approval which the inspecting officer may have given in respect of the stores or any materials or the work or work man ship in volved in the performance of the contract (Whether with or without any test carried out by the contractor or the Inspecting officer or under the direction of the Inspecting officer) and not withstanding delivery of the stores where so provided to the interim consignee, it shall be lawful for the consignee, on behalf of the purchaser ,to reject the stores or any part, portion of consignment thereof within are as on able time after actual delivery thereof to him at the place or destination specified in the contract if such stores or part, portion of consignment thereof is

	notinallrespectsinconformitywiththetermsandconditionsofthecontract whether on account of any loss, deterioration damage before dispatch or delivery or during transit or otherwise whatsoever.
19	Execution of work:
а	The work shall be executed as per the standard drawings and approved drawings.
b	Material with RDSO specifications shall be procured from RDSO approved vendors only. If no RDSO approved vendor is available, material shall be procured from other sources as approved by Authority.
С	All the equipment shall be installed and commissioned by OEM's authorised Engineers. OEM Installation certificates, testing certificates, Pre- commissioning checklists etc., shall be arranged by the contractor. Procedures specified in the latest RDSO TAN shall be followed
d	All tools & plants, measuring instruments etc. required for inspection, installation, testing & commissioning shall be arranged by the contractor and shall be the property of the contractor.
е	The contractor shall fill the salient details of contract labourers engaged in the contract and ensure updating of each wage payment to them on Shramik Kalyan portal on monthly basis and the record shall be made available for the inspection.
f	Augmentation/Alterations and Interfacing with Existing Equipment
	The existing working equipment such as EI, IPS, Data loggers, etc. shall be augmented as per the requirement of project scope duly supported by technical details and calculation. The contractor shall arrange for all the necessary hardware, software, interfaces, alterations in the existing equipment viz EI, IPS, data logger etc. for commissioning of Automatic Block Signalling. The contractor shall arrange and coordinate with the OEMs of existing system for interfacing with hardware / software with necessary alterations
g	Installation and Commissioning
	All the equipment shall be installed and commissioned by OEM's authorised Engineers. OEM Installation certificates, testing certificates, Pre commissioning checklists etc., shall be arranged by the contractor. Procedures specified in the latest RDSO TAN shall be followed.
h	Tools &Plants
(i)	All tools &plants, measuring instruments etc. required for inspection, installation, testing & commissioning shall be arranged by the contractor and shall be the contractor's property.

i	Safety &Security at Work Sites
	Contractor shall adhere to all safety instructions, circulars and norms issued by
	Railway when working close to the track to ensure safety of trains as well as staff
	working in the vicinity of the track. Contractor shall deploy adequate lookout men
	while working on track with all necessary safety devices, tools and gadgets.
	Instructions laid down in PCE/SCR Engineering Standing Orders No. 89 dated
	29.07.2020 and No. 65 dated 05.07.2010 or latest are to be followed and shall be the
	basis of the safety plan.

${\rm II.}$ Design of ABS system

SI. No	Description
i	The scheme as per SCR Drg no: 5755 for system configuration for automatic signalling over south-central railway (Triple line) will be adopted for ABS signalling.
ii	The proposed cable route path for trenching shall be prepared by carrying out a site survey. The survey report shall be prepared in a diagrammatic representation, showing the existing cable paths, distances of various cable paths from the nearest track centre, railway land boundary etc. for both main and redundant paths. Both Cable paths i.e. main & redundant shall be preferably planned at a distance of one metre inside the railway boundary.
iii	Cable Route plan, Cable Core plan, Cable Termination details in relay room and location boxes, location wiring plan, Fuse particulars, Power supply scheme, equipment disposition / floor plan, indoor circuits both logic and interface, shall be designed and checked as per SCR practice / Typical circuits and submitted for approval.
iv	The signalling cables shall be planned in such a way that a minimum of 20% of working conductors are kept as spare. In station yards, the cables shall be planned as described below. i. For Home Signal - One no of new 1.5 sq mm X 30 Core copper cable and Two nos of new 1.5 sq mm X 12 Core copper cables shall be laid. ii. For Main line starter/Last Stop Signal- Three nos of new 1.5 sq mm X 12 Core copper cables shall be laid. iii. In the Block Section, beyond the home signal of one station to the home signal of adjacent station, the cables shall be planned and laid as per SC.RLY. DRG.NO.C5755. iv. Loading of functions in 6Q cables shall be planned in such a way that minimum two quads must be kept spare in each 6Q cable
V	For ease of maintenance and cost-effective inventory management, MSDAC, UFSBI/FNMUX, IPS, batteries, Data logger, Relays, ELD's, Changeover modems, Telecom equipment and other equipment of uniform make shall be used for the entire project.

III. Construction of ABS huts

SI. No	Description
I.	Scope of the work: Design & construction of Automatic Block Signalling huts as per the layout plan attached as Annexure 14 with Bid document and construction as per the approved drawings at the specified location along with supply of all electrical fittings & carrying out necessary electrical wiring with all the related works as per approved designs and drawings.
II.	ABS huts shall be masonry structures of approved design. The layout plan, all types of designs shall be checked and approved by a qualified proof checker by the executing agency before submitting to railways for approval.
III.	The flooring shall be provided with double vitrified tiles of size not less than 600 mm x 600 mm.
IV.	Cable duct of size 300 mm x 300 mm shall be provided as indicated in the layout plan. Arrangements shall be made inside the ABS hut to fix cable trays, supporting angles of cable termination racks, relay racks and supports for various equipment. After completion of cable laying, cable ducts shall be provided with matching tiles.
V.	Arrangements shall be made on the roof of the ABS huts to erect Class A protection system as per SCR Drawing No. 5777. Base plate for installation of the mast for Class A protector as per the drawing shall be embedded in the roof while casting Slab. Hooks for connecting stay wires of class A protection mast shall be provided in the slab as per SCR Drawing No. 5777.
VI.	Provision for Cable entry shall be provided in ABS hut for not less than 60 cables as close as possible to CT rack and OFC rack as per layout plan.
VII.	The contractor is responsible for loading, unloading and transportation of all construction material of ABS hut to site.
VIII.	Fencing as per Annexure 17 shall be provided around the hut leaving a minimum 1500 mm gap from the building. Earth work with protection shall be done to level the earth around the building inside the fencing.
IX.	All the materials used shall be as per the approved list issued by PCE vide Lr No. SCR-HQ0ENGG(SOR)/1/2020-Dy. CE/WORKS/SCR dt. 24.05.2022.
X.	All the new ABS huts both at stations and block sections shall be provided with double locking arrangements and door sensor arrangement. Closing/Opening of ABS hut door should be monitored through door sensor connected with Data logger
XI.	All the huts shall be provided with electrical arrangements as per annexure 16.

(IV) Explanatory notes for EI alterations:

SI. No	Description
1	Scope of the work : The alterations in existing EI system should be carried out to integrate the EI system with automatic block signalling works. EI works as specified in the Scope and tender shall be executed in close coordination with the outdoor works.
2	The material required for carrying out alterations shall be supplied as per RDSO Specifications No. RDSO/SPN/192/2019 VER 2.0 OR Latest
3	Supply of Relay racks, fixtures, mounting arrangements, Ladder, runway and accessories is also part of this item. Note: Relay racks which are being supplied shall have 25% spare capacity for future use. All the RDSO part listed items shall be got inspected by RDSO
4	All interface relays in the relay room except QSPA1, required lamp proving relays and point operation relays in the relay room required for commissioning of the electronic interlocking are to be supplied under this item. All Point Operation Relays in Relay Room like QBCA1 & QL1 relays are also to be supplied under El scope for outdoor point operation as per RDSO Standard diagram. All these relays are to be got tested by RDSO
5	Supply, wiring and installation of Protective devices like fuses, lightening protectors, fuse links, fuse blocks, all terminals used for connecting wires/cables in indoor including those used for cable termination racks), Tag blocks with covers etc. as per requirement and recommended by manufacturer and RDSO is in the scope of the item. All the RDSO part listed items to be inspected by RDSO.
6	Supply of Wiring Materials, wire coils, all connecting material, 6-way terminals/ wago terminals/phoenix terminals, indoor signalling cables required for El system, is covered in this item. All the RDSO part listed items to be inspected by RDSO.
7	Design, wiring, testing, energisation, preparation of pre-commissioning checklists and commissioning involved in the alterations of EI shall be executed by Competent Engineers of OEM
8	Factory Acceptance Test (FAT) and Site Acceptance Test (SAT) are to be conducted as per RDSO's guidelines. On receiving Head Quarter approved Drawings, Internal FAT including square sheet testing to be conducted by the Contractor. Qualified Team and clear Documentary proof/Log to be maintained for the same
9	Design, Drawing, Installation, Wiring, testing, soldering of all EI equipment with contractor's material including wiring & soldering of relays, in Goomties (where ever provided) as well as central EI location and bring the functions up to cable termination Rack is in the scope of the item

10	Supply of all related consumable materials like rosin core, lacing thread, PVC
	bunching tape and buttons eyelets of sizes, etc. required for the work is part of
	this item.
11	Testing of the system: The testing which is part of the item includes -Functional
	testing, selection table testing with contractor's simulation panel (Both FAT &
	SAT)
12	Any other petty items required for making the EI system functional shall be
12	arranged by the contractor
13	Any other related work required for bringing the electronic interlocking system
	to functional and integrate with the new ABS system is in the scope of the work
14	Submission of as Made Documents: - Preparation and supply of 4 sets of as made
	documents in hard and soft copies for each station as per the practice of south-
	central railway is in the scope of the item. After execution of the work, the
	tenderer has to supply four sets of documents listed in the table below along
	with system details, site installation details/drawing, maintenance manual, and
	operation procedure in a bound book as per practice of S.C. Railway consisting
	of the following shall be submitted.
	Wiring diagrams.
	Application programme listing.
	3. Relay / Cable termination particulars.
	4. Input / Output Assignment details.
	5. Relay lay out and contact analysis chart.
	6. Equipment deposition layout.
	7. Details of Power Supply arrangement.
	8. Any other document as the existing practice of railways.
	These drawings shall be prints taken from original drawings arranged in plastic
	folders. Each sheet shall be put in a separate plastic folder. All the other
	documents are to be supplied as per clause 10.1 of RDSO Specifications or latest.
	A full record of tests conducted shall be maintained by the tenderer and handed
	over to the railway along with the installation. Only signalling plans and table of
	control will be issued by railways. All indoor work details shall be prepared by
	the tenderer and submitted to railways for approval

(V) List of annexures:

Annexure no	Description of the annexure
1	Main Signal Foundation in Between Tracks
2	Drawing for Main signal foundation
3	Typical drawing for RCC Cable Duct .pdf
4	Cable laying when rock faced at 600mm depth
4A	Drawing for Cable laying when rock faced at 300mm depth from ground level
4B	Cable laying when rock faced at 400mm depth .pdf
5	Cable laying on the bed of culvert or under culvert .pdf
6	Cable laying on culverts with high flood level
7	Typical drawing for Cable chamber
8	Typical drawing for Protection of cable at Less depth
9	Typical details of clamping arrangement for passing of service cables on open web Girder
10	Typical drawing for Full location box foundation
11	Typical drawing for location box and signal earthing
12	Typical Horizontal Boring
13	Drawing for track road crossing
14	ABS Hut Layout Plan .pdf

Annexure no	Description of the annexure
15	ABS HUT Earthing arrangement .pdf
16	ABS HUT Electrical arrangement.pdf
17	ABS HUT FENCING RDSO DRG .pdf
18	Typical Drawing for Upright and anticlimbing Fencing.pdf
19	Tie bar fencing .pdf
20	Railing for ABS HUT .pdf
21	IPS scheme for ABS HUT .pdf
22	Typical drawing for Class A protection system
23	Drawing for RE protection scheme
24	Bracket arrangement for passing of signal telecom cables parallel to track over steel girder .pdf
25	Cable trough for metallic bridge pdf
26	Signalling legend boards Drg
27	Typical drawing for Gland plate
28	System Configuration For Auto Signalling Triple Line.pdf
29	ABS_VDU layout at Station 3RD line
30	Indication Panel at ABS HUT 3RD Line.pdf
31	Typical Cable Distribution Plan for ABS at station Triple line pdf
32	LC GATE Panel Diagram for ABS Triple line pdf
32A	AWS scheme for Mid-Section LC gates
33	DC DB Panel at Station Triple Line.pdf
34	Typical schematic of input output Multiplexer .pdf
35	Typical drawing for Automatic fire detection alarm system .pdf
36	Relay rack assembly

37	CT rack assembly
37A	Ladder for indoor wiring
38	Telecom Circuits Channelling Plan.pdf
38A	Telecom Circuits Connectivity Diagram .pdf
39	Networking of MSDAC
40	OEM installation certificate
41	Left blank
42	Policy for Standardization and Implementation of Non-Vital Mux in ABS section
43	Configuration diagram for UFSBI in triple line for automatic block signalling works.

Part -E Technical Guidelines for S&T Works

A. General Technical Conditions and Specifications

1.0	GENERAL:
1.1	The detailed Specification for the work which is to be carried out by the contractor are as stipulated here under. Not with standing whatever contained in the specifications, the field supervisor/Executive engineer for the work shall decide as per site conditions and shall be binding on the contractor. In case of any dispute regarding soil condition/type of trenching and other conditions the decision of the Engineer for the work shall be final and binding. The work shall be carried out according to the drawings approved by the
	Railways and shall confirm to the provision of Codes, Signal Engineering Manual, RE Manual, Block Manual and Schedule of Dimensions are deemed to be a part of the Contract Agreement. The contractor shall be solely responsible for the proper execution of the work as per specification.
1.3	The respective drawings can be obtained from the office of the Dy. CSTE/Proj./SC.
2.0	CABLE LAYING:
2.1	CABLE PLAN:
	Cable route plan and cable distribution chart for each cable shall be prepared
	by contractor for each station and block section leaving adequate spare
	conductors overall i.e., 20% of working conductors overall shall be left spare
	up to outer most points and 10% beyond outer most points. These plans shall
	be approved by railways before starting the cable laying works.
2.2	CABLE TRENCHING:
2.2.1	The entire process of trenching and cable laying shall be video recorded and a soft copy in pen drive or hard disc shall be submitted.
2.2.2	Trenching and laying of cable ducts, Signalling, telecommunication, Power cables, termination of cable on terminals with supply of all necessary fixtures and material, blowing of OFC, splicing, jointing, provision of joint chambers and loop chambers, termination of fibres on FDMS of OFC and testing of cables and fibres and associated works is in the scope of the work. Practices as specified in IR Telecom Manual, guidelines issued by RDSO for signal cable laying vide RDSO/SI/G/2010 Ver 1.1 or latest, SCR technical guidelines shall be followed. In the RE area special precautions laid down in RDSO guidelines shall be followed.
2.2.3	Requirements of micro-tunnelling / trenchless laying, laying of RCC duct / Polyolefin Duct / HDPE pipe / RCC pipes / GI Pipe and protection arrangements etc. shall be assessed based on site survey and shall be indicated in the cable route plan and submitted for approval of Authority Engineer. Cable shall be

laid as per approved cable route plan and cable core / distribution plan. An extra cable loop of 6 to 8 meters shall be kept at each end of the main cable / tail cable / power cables / 6Q cable, at apparatus cases, at signal foundations, ABS huts / Relay rooms, major bridges and culverts. If the cables are to be laid in the station area/ circulating area by breaking concrete/ road/ platform/ any other surface, the work area shall be brought back to its original state after completion of cable laying

2.2.4

Trenching and cable laying shall be carried out in Two paths. One is called the main path and another one is called the redundant path. Main and Redundant path for cable laying shall be on the opposite side of tracks.

- a) The main path must be with an RCC duct from one station to another adjacent station.
- b) In the main path, the duct shall be laid at a depth not less than 600 mm. All signalling, Power, HDPE duct shall be drawn in the duct.
- c) The RCC duct shall be laid for the main cable path and also for the tail cables trench that is from main cable path up to the function.
- d) RCC duct shall be filled with River sand / Sieved quarry dust not less than 50 mm above the cable top. The joints of RCC duct covers shall be sealed with cement mortar. The trench shall be refilled after closing of the duct
- e) 230V power cables shall be laid in a separate trench drawing the cables through HDPE duct.
 - f) RCC duct (as per SCR drawing no: 5778A) has to be used.
- g) When cables are to be laid in rocky areas, in the path nominated for RCC duct, the rock shall be cut to a depth of not less than 400 mm, place the RCC duct and concrete the remaining portion up to ground level, with 1:3:6 concrete mix after laying of cables
- h) In areas where continuous sheet rock is encountered, the cables shall be laid in GI pipes of adequate diameter and complete length of the GI pipe shall be clamped and concreted with 1:3:6 concrete mix up to the height/width of 300 mm above /adjacent to the GI Pipe.
- i) In the redundant path, signalling, telecom and power cables shall be buried directly at a depth not less than 1.0 mtrs. Wherever the above-mentioned depth of 1.0 mts cannot be achieved due to site conditions, protection arrangements as per SCR Drawing No. 5771 shall be provided. A minimum depth of 600 mm shall be dug for the above protection arrangement.
- j) The trench path shall be straight as far as possible. The trenching shall be carried out without causing damage to the working cables. A qualified engineer shall be deployed at the work spot continuously. The guidelines issued vide Railway Board Lr No.2021/Tele/5(2)/3-Part(1)(3425647) dated 12.06.2023 for taking up digging activity near S&T cables shall be followed. Necessary bushes/trees/jungle shall be cleared before taking up the trenching.
- k) When rock is encountered, the cable laying shall be done as per Drawing Nos.15-D2 of IRSEM
- I) Trenching and cable laying shall be carried out in one path for short distance only, where it is not feasible to provide in two separate paths duly taking approval from Engineer In charge.

2.2.5

- a) Track Crossings, Road crossings, Platform crossings, Trenching in Circulating area, shall be carried out by Micro tunneling / Trench less digging to the extent possible. Micro tunneling / trenchless digging shall also be adopted in difficult terrains/marshy areas/water logged areas if it is found advantageous for quick delivery of the project but not envisaged during the survey shall be decided by the Authority Engineer. Micro tunnelling shall be carried out at a depth of not less than 1.5m from rail level. Microtunneling / trenchless digging shall include supply and insertion of HDPE duct of Dia 110 mm, PE 80 (IS 4984).
- b) If micro tunnelling is not feasible for track crossings / Road crossings, horizontal boring method vide SCR Drawing No. 5770 shall be followed. For track crossings, micro tunnelling/ horizontal boring shall be done at a depth not less than 1.0 mts from the bottom of the sleeper.
- c) If both the above-mentioned methods are not feasible, manual track crossing / road crossing shall be done as per SCR Drawing No. 5768A as decided by the Authority Engineer.
- d) RCC pipe used for manual crossing shall be of non-pressure NP2 class (light duty) of 150 mm dia. with collars joined with a stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc.
- e) The surface area shall be brought back to its original state after completion of cable laying.
- f) Wherever the above three options are not feasible, cables shall be taken over the foot over bridge in lieu of track crossing as decided by the Authority Engineer. Cable shall be laid inside HDPE pipe of Dia 110 mm, PE 80 (IS 4984) of suitable diameter properly clamped to the FOB structure.
- g) A cable chamber as per SCR Drawing No. 5766 shall be constructed near the Relay room, ABS Hut, LC Gate and cable coil loops shall be kept in this chamber duly filled in with sand and sealed with RCC slab.

2.2.6

Cable Laying on Bridges: a) Cable laying on important/ major bridges having steel girders shall be either through GI trough vide DRG No.15-D6 of IRSEM (Supporting channels vide DRG No. S&T/RE/78/2/76 page 1, galvanized to Spec IS 2629-1985) or through Medium class GI pipe conforming to IS.1239 (part-I) 1990 and galvanized to specification IS.4736 1986 of adequate diameter supported by 'C' Channels of size not less than 100mm x 50mm x 1200 mm thickness 5mm galvanized to specification IS 2629-1985. GI Pipe shall be perforated at regular intervals. No drilling of holes on girders is permitted. b) Cable laying on important/major Bridges with concrete girders and having built in duct shall be laid through HDPE pipe of Dia 110 mm, to specification PE 80 (IS 4984). Masonry brick blocks of size 500 x 500 mm (width X height) shall be provided at either end of the bridge to cover exposed HDPE pipe completely. c) Cable laying on important/major Bridges with concrete girders without built in duct shall be done through GI pipes of adequate diameter. Concrete masonry of 300X300X300 mm above GI pipes shall be provided at every 2 mts .The GI pipes shall be clamped at every 1 mt. The GI pipes and concrete masonry shall not infringe as per IRSOD. Both ends of the GI pipes are to be closed with brick masonry. d) Cable laying on all minor bridges / culverts shall be as per DRG No. 15-D8 of IRSEM. Medium class GI Pipes of adequate diameter for laying cable on the culvert shall be used. When the cables are to be laid on the bed of culverts or under culvert, the laying shall be done as per IRSEM drawing no DRG No. 15-D7. This procedure shall be adopted for minor bridges/culverts where there is no perennial water flow. The pipe shall be of non-pressure NP2 class

	(light duty) of 150mm dia R.C.C. pipes with collars jointed with a stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand).
2.2.7	When the cables have to be taken inside a relay room / ABS hut / Dy. SS room / LC gate hut etc, the cables shall be laid & bunched over powder coated MS ladder of appropriate width made of angle of size 38mm X 38 mm X 3 mm and taken inside the relay room. The base of the ladder shall be properly concreted with 1:3:6 concrete. The above arrangement shall be protected by constructing a brick masonry block around the ladders.
2.2.8	When the cables are required to be taken inside working location boxes / Signal Post, the cable shall be taken from underneath the location box foundation. Inside of the location box shall be sand filled, plastered after taking the cables inside. For working functions, the planning shall be such that it is possible to change over without disconnection of working function or with bare minimum disconnection. Wherever there is paucity of space in the existing locations, new wired location with foundation shall be done and existing cables shall be jumpered from the existing location to the new wired location and existing location shall be converted into Junction Box.
2.2.9	 6 Quad cable laying: (a) Separate 6Q cables shall be laid for main & redundant DPs. 6 quad cables for main and redundant DPs shall be laid in separate paths. (b) 6Q cable shall be jointed using jointing kits to specification IRS TC 77/2012 Rev 3 with latest amendments. These joints shall be kept in a separate new Full Location Box duly fixing with teak wood reapers on both ends of the joint without any sharp bends.
	(C) 6 Q cable shall be terminated on WAGO / Phoenix terminals which shall confirm to RDSO Specification No. 189/2004 or latest at location boxes near DPs of MSDAC. 6Q cable pairs shall be twisted before termination.
2.2.10	OFC Cable Laying: a) Laying of HDPE duct and blowing of OFC Cable shall be done as per guidelines given in Section VIII of Chapter 13 of IR Telecom Manual. OFC cable shall be blown through HDPE duct confirming to specification RDSO/SPN/TC/45/2013. HDPE duct shall be laid in both main and redundant paths as required. Both Main & Redundant OFC cables shall be blown through HDPE duct using a blowing machine and no manual pulling is permitted. Before blowing of OFC cable, Duct Integrity test shall be carried out on HDPE duct as per procedure laid down in Para Annexure-I Chapter 13 of IR Telecom Manual and readings shall be recorded before blowing OFC cables. OFC cable shall be jointed as detailed in Section X Chapter 13 of IR Telecom Manual. After splicing OFC shall be tested and readings recorded as per format in Para 13.10.23 of IR Telecom Manual / South Central Railway formats. b) All the fibres of OFC shall be terminated in FDMS in LC Gates / ABS huts / Stations / Cabins as per system requirement. These FDMS shall be housed in a suitable standard make 42U rack such as Vero President / Rittal / AEW etc. at the ABS Huts / Stations and rack of suitable size in LC Gates. The rack shall have cooling fans, Power managers, cable managers, equipment trays of adequate numbers. OFC Patch cords of adequate length shall be provided to connect OFC cables to Equipment.

	c) A total of 4 Numbers of 48 Fiber OFC cables, two in each, main and redundant paths from station to station shall be laid. d) The existing OFC in the sections shall be terminated at all ABS huts / LC Gates, two numbers of 48F OFC cables shall be laid in HDPE duct and spliced at the nearest joint chamber and terminated at FDMS in ABS Huts / LC Gates.
	e) Provision of FRP Loop chambers at every one Km, on both ends of track crossing, both ends of major bridges etc. are in the scope of work.
	f) RFID markers shall be of STANLEY/3M/LEGRAND or any other reputed make
	are to be provided as per approved specifications. RFID markers shall be
	programmed with details approved by Authority Engineer. It shall support web based/smart phone-based viewing of cable path and other details
2.2.11	The entire cable path (both main and redundant paths) shall be provided with
	cable route markers as per DRG. No. 15-D1 of IRSEM. The cube test reports of each sample of the concrete batch shall be submitted. The Cable markers shall be provided at an interval of 50 mtrs. Additional cable markers shall also be
	provided at every cable joint/cable diversion. Cable markers shall be painted
	with standard colour code. RFID Cable route markers shall be provided in both
	main and redundant trenches at every 100 mts and at the locations of Track
2.2.12	crossing and OFC Loop Chamber. The complete trenching, cable laying activity shall be video recorded and
	submitted in CD / Pen drive along with stage payment certificate.
2.2.13	a) 6 Quad Cable for signalling applications available in the section shall be
	brought to the ABS Huts and terminated for emergency use.
	b) 6 Quad Cable used for block, BPAC, EC and LC Gates communication shall
	also be brought and terminated at ABS Huts.
3.0	Location Box/apparatus case foundations
a.	The apparatus case shall be installed as per cable core plan by Excavation of Pit,
	Casting foundation as per SCR Drawing No. 5781. The top surface of the foundation shall normally be at rail level in a plain area. For all location box foundations strengthening of foundation with stone pitching shall be done up to a height of 40 cm covering an area of one meter around the Location box foundation. The foundation shall be lime washed with two coats after completion of erection of location box.
b.	New separate location boxes shall be cast for each new signal location. Where two new signals of the same direction are located at a distance less than 10 mts , the same location box can be used for both signals. Separate Location Boxes shall be provided for each Home Signal. New separate location box shall be cast for each MSDAC DP location. Where MSDAC DPs are located at a distance more than 20 mts
C.	The apparatus case shall be painted with one coat of primer after preparing the surfaces smooth by emery paper polishing. The apparatus case shall be painted with two coats of aluminium paint on outer surface and two coats of white paint inside. The paints shall be of make Berger / Asian / British / JSW etc.
d.	Supply & Fixing of Teak wood Reapers / Teak wood Block / 10 mm hylam sheet, Cable termination, Supply and fixing of 1 Way / 6 Way terminal / WAGO Terminal, Supply and fixing of Fuse blocks and fuses, wire coils, relays, earthing and earth connections. All signalling cables shall be terminated on ARA

	terminals. For terminating the cables, a hylam sheet of 10 mm thickness / teak wood reapers of size 75mm x 20mm, 25mm x 20mm, 50mm x 50mm with two coats of wood primer as per requirement shall be provided inside the location box. The size of the hylam sheet shall be such that it covers the full open space below the relay frames in the location box. Gland Plate as per SCR Drawing no. 5774, earthing of Location Box / equipment, anti-tilting arrangement for equipment and all other associated work required to complete the work is in the scope of work.
e.	All the underground cables shall be provided with punched name plates showing Drum No, total no. of cores, and from and to details etc. Location box particulars in prescribed format, shall be printed on a good quality flute board and fixed in the location box.
f.	The apparatus case in which any equipment like MSDAC / DCDP / Charger need to be kept shall be provided with teak wood planks of size 940 X 470 X 20 mm neatly finished and applied with two coats of wood primer.
g.	The apparatus case in which any relays need to be fixed shall be provided and fixed with powder coated relay fixing frame of size 940mm x 150mm and made of MS angle of 25mm x 25mm x 3mm. the frame shall be painted with two coats of paint.
h.	A cable loop pit of size not less than 1mtr depth and 1.5 mtr diameter shall be made near every location box and a loop of 6 to 8 mtr of each cable shall be coiled and kept in the pit. Individual cable coils shall be tied with released cable pieces and kept in the pit on top of the other, if multiple cables are to be terminated in the same location box. The loop pit shall be refilled and rammed. In any case the depth of the top most cable shall not be less than 1 mtr
I.	Stone pitching around all location boxes, tie bar fencing in urban areas and miscreant activity prone areas as decided by authority engineer is in the scope of the project.
j.	The location box shall be painted and numbered as per the existing practice of SCR. To the extent possible, location Boxes shall be pre-wired at a central location and erected on foundations. For ease of maintenance, the wiring and terminations shall be uniform throughout the section. Infringement particulars, earth resistance particulars of Location box shall be painted on the track side of the location box.
4.0	Signal foundations
a.	New foundations shall be cast for all the automatic/semi-automatic signals, including existing 4 aspect signals.
b.	The signal foundation shall be casted as per SCR DRG No. 5772 for signal on one side of the track and as per DRG No. RDSO/M-00011/R4 for signals in between tracks which are likely to infringe as per IRSOD. The top surface of the signal foundation shall normally be at rail level. Strengthening of signal foundation shall be done for all those signals whose foundation is not surrounded by rammed earth on all four sides for at least 40 cms width
C.	The complete signal unit with all accessories like ladder, stage, ladder shoe and signal hood etc., shall be erected duly taking all safety precautions and adhering to IRSOD. The signal unit shall be fixed with a "X" marker (signal not in use indication) made of hardwood of size 1000mm x 100mm x 20mm till it is

1	
	commissioned. The cross bar shall be painted white as per IRSEM and fixed with suitable MS flat clamp.
d.	The signal post shall be suitably plumbed to make it straight. The Gap between CLS Base and Signal Post shall be filled with glass wool and lead sealed.
e.	The complete signal shall be painted with two coats of Enamel / Aluminum
	paint after preparing the surfaces smooth by emery paper polishing. The signal
	infringement distance shall be painted on the signal surface base towards the
	track side. The paints shall be of make Berger / Asian / British / JSW etc.
f.	Signal post height shall be 3.6 mtrs or higher as per site conditions to achieve
	required visibility. Necessary offset brackets shall be provided wherever
	required to achieve visibility as per IRSEM.
g.	A cable loop pit of size not less than 1 mtr depth and 1.5 mtrs diameter shall
	be made near every signal and a loop of 6 to 8 mtrs of each cable shall be
	coiled and kept in the pit. Individual cable coils shall be tied with released
	cable pieces and kept in the pit on top of the other, if multiple cables are to
	be terminated in the same signal. The loop pit shall be refilled and rammed.
	In any case the depth of the top most cable shall not be less than 1 mtr. The
	tail cables shall be taken through the foundation, signal post and terminated
	in the signal unit using 6 way terminals. The wiring from 6 way terminal to
	signal LED shall be carried out using adequate dia. flexible PVC pipe and 28/0.3
	mm copper wire with lugs of suitable size
h.	For the Colour Light signals in the RE area which are coming in the infringing
	zone, screening arrangement as per SCR Drawing No.5767 shall be provided.
	The screen shall be made of MS wire-mesh and shall be fixed on MS angles of size 25mm x 25mm x 6mm with suitable fixing clamps, bolts and nuts and
	painted with one coat of red oxide and two coats of black paint of make Berger
	/ Asian / British / JSW etc.
i.	Route Indicators shall be mounted on the top of the signal post firmly. The tail
	cables for route indicators shall be taken through signal post without any
	damage to the insulation and armour, skinned and terminated on route
	indicators. Route indicators shall be wired with 28/0.3mm copper wire as per
	the approved circuit diagram. Hoods shall be fixed properly and examined
	during day time and if required extension of hoods shall be made to have
	proper visibility.
j	Calling on signals/ 'A' marker/'AG' marker/ Shunt signals shall be fitted on the
	signal posts at required height using suitable off-set brackets. Suitable hole
	shall be drilled on the signal post to bring the cable/jumper wires with
	minimum outside exposure. The cable/ jumper wires shall be taken to calling
	on signal, 'A' marker/'AG' marker/Shunt signal through suitable steel hose
	pipes and wired. The calling on signals shall be provided with 'C' marker and 'Automatic signals with 'A'/'AG' marker. Number plates to be fixed and painted
	as per the standard practice of South-Central Railway
k	In Case of signals with horizontal clearance less than 2.36 mtrs from the nearest
	track centre, blanking arrangement shall be provided as per IRSOD. The ladder
	of the signal shall be blanked off to a height of 300 mm between 2060 mm and
	2360 mm above rail level using MS plate not less than 8 mm thickness. The end
L	5 ,

	portions of the plate shall be rounded off and no sharp edges shall be protruding. The plate shall be painted with two coats of black colour. The signal post shall be painted as per Annexure 19-A1of IRSEM. The paints shall be Berger/ Asian/ British/ JSW make.
L	"Entering into Automatic Block Territory" & "Entering into Absolute Block Territory" boards of size 1000mm X 600mm X 3mm shall be provided as per SIP.
5	Power supply arrangements
а	Integrated power supply for ABS huts shall be supplied and installed as per scheme (annexure 21) plan attached with tender document.
b	The existing power supply arrangements need to be augmented to suit
	the requirements for commissioning ABS system.
6	LC gates
а	The existing interlocked gates are to be integrated with ABS system by
	carrying out necessary circuit alterations in the existing LC gate circuits.
b	Approach Warning System as per SCR Drawing No. 5784 (Annexure 9)
	shall be provided for all LC gates in the block section to warn the
	Gateman of the approaching trains. The AWS system shall be designed
	to give audio warning & visual indication of any approaching train to
	the Gateman. The AWS system shall be effective for all lines of the
	section in both UP, DN and UD directions. System shall trigger an audio
	buzzer and indication at a distance of 4.0 Kms from the LC Gate.
	Additional cables and hardware required are in the scope of work.
7	Indoor wiring
i	The contractor shall submit equipment disposition plan / floor plan of
	the ABS hut, Relay room, LC gate hut indicating the position of various
	equipment and racks for the approval of Authority Engineer. Equipment
	layout, relay positioning, cable terminations, fuse positioning and
	wiring shall be identical in all ABS huts and location boxes throughout the project.
ii	All the contacts of relay shall not be used, at least one front contact and
	one back contact shall be kept as spare for future requirements.
iii	Relay bases of only the correct configuration shall be used. Under no
	circumstances, configuration of bases shall be disturbed.
iv	All the material required for carrying out indoor wiring at ABS huts,
	Panels and existing relay rooms such as Q-style / metal to metal relays,
	wiring material, Automatic Fuse changeover system, relay racks, cable
	termination racks, power Racks, ladders, 6 way / 1 way / WAGO
	terminals, wire coils, lugs, indoor cable, fuse blocks, fuse links, LVR etc.
	is in the scope of work.

V	Wiring shall be done as per approved circuits and practices adopted in South Central Railway. All the wiring should comply with the EI / ABS (equipment) OEM checklist, latest RDSO TANs. All wiring is to be properly bunched with lacing twine or cable ties.
vi	Newly laid outdoor signalling cables shall be terminated on cable termination racks of approved design in the ABS huts / relay rooms / LC gates.
vii	Details of wires / cables to be used for various types of indoor wiring is listed below:
	a) Relay to relay, relay to cable termination rack, relay to fuse blocks: 16/0.2mm wire coils ATC as per IRS S76/89 Amendment No.2 or latest.
	b) Power supply wiring: 35 sq.mm (277/0.4 mm)/10 sq.mm wire coils (140/0.3 mm) as per IRS S76/89 Amendment No.3 or latest according to load calculations / OEM recommendation.
	c) Relay rack to panel: 60 core indoor cable as per IRS-S-76/89 Amendment-2 or latest / signalling cable as per specification IRS 63/2014 Rev 4 or latest.
	d) Earthing: Multistrand copper conductor of appropriate dia. shall be used for connection of equipment / earth bus bar as per RDSO code of practice for earthing.
	e) Data logger wiring: i) Tag Block to data logger: 60 core indoor cable as per IRS-S-76/89, Amendment-2 or latest. ii) Relay to Tag Block 16/0.2mm wire coils ATC as per IRS.S76/89 or latest.
	f) MSDAC, USFBI, FN MUX, EI: as per OEM recommendations.
viii	All the flexible wires shall be terminated using suitable size lugs. These lugs shall be crimped and soldered. Wire identification tags / sleeves / Ferrules of insulation material shall be provided at both ends of the wire with terminal particulars printed on it. Soldering shall be carried out as per Para 19.1.2 of IRSEM.At fuses i.e., on busbar side, wiring shall be in ring fashion.
ix	Relay name and number shall be painted / printed on the relay racks as per the standard practice (both in front and rear side of each relay) and CT rack termination particulars, fuse particulars shall be painted / printed on the CT rack / power rack in addition to the details displayed on the nearby wall.
х	Relays flashing shall be done before plugging in the relays and flashing readings shall be recorded.
xi	Testing of wiring shall be in accordance with the IRSEM Para 19.8.5.
	First testing shall be carried out by the Competent Engineer of the contractor before offering for testing to railways. Testing shall be offered to railways at two stages:
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	Stage 1: Wire to wire test with buzzer before soldering Stage 2: Wire to wire test with buzzer after soldering
	The wiring will be tested separately by SSE & Officer nominated by Authority Engineer at each stage. Different colour ink shall be used for marking during testing at different stages.
	Necessary manpower required for testing of circuits by SSE & Officer shall be arranged by the contractor.
xii	Supply, wiring, testing and commissioning of Fuse Auto Changeover system at ABS huts as per RDSO specification RDSO/SPN/209/2012 Ver. 2 or latest. Potential free contacts of remote sensor / alarm unit of the fuse automatic changeover unit shall be wired to datalogger.
xiii	Earth Leakage Detectors as per RDSO specification RDSO/SPN/256/2002 or latest shall be provided at each ABS hut and all external power cables shall be connected to Earth Leakage Detector. The power cables of either side of the ABS hut shall be connected to different channels.
	Pre commissioning checklist and OEM installation certificate shall be prepared and submitted. All the power cables shall be in healthy condition as per earth leakage detector set values. Potential free contacts of Earth Leakage Detector shall be wired to data logger.
xiv	All the cable entries shall be closed properly using concrete / Silica Gel or any other compound to avoid entry of rodents or cable theft.
xv	Arrangement shall be made by way of proximity switch or any other means to monitor the opening of ABS hut through data logger.
xvi	Required alterations in the existing knob type panels / push button panels shall be carried out to suit Automatic Block Signalling in the section and in the scope of the work.
xvii	Powder coated Aluminium ladder as per SCR Drawing No. 5769 required for drawing different types of cables shall be supplied and installed by the contractor. In case of alterations at EI stations, the ladder shall match with the already available ladder in the relay room.
xviii	Suitable arrangements shall be made in the relay rack for fixing condenser and resistance units as per the circuit design requirement. Letter painting shall be made against each unit to identify the circuit for which it is used.
8	Outdoor wiring
i	The contractor shall submit location box particulars with equipment disposition, fuse, termination details and outdoor wiring diagrams for the approval of Authority Engineer. Equipment layout, relay

	positioning, cable terminations, fuse positioning and wiring shall be identical in all location boxes throughout the project. Wiring shall be designed to improve the reliability by paralleling of contacts.
ii	The installation in location boxes and wiring shall be done as per the approved wiring diagrams.
	First testing shall be carried out by the Competent Engineer of the contractor before offering for testing to railways for final testing. The contractor has to arrange for necessary manpower for the testing of circuits / functional testing by railway officials.
iii	Wherever necessary, the existing tail cables of signals/Location Boxes shall be released from the existing signals / Location Boxes and new tail cables shall be drawn to the functions and terminated as per approved scheme. This work shall be planned in such a way that disconnection required is either nil or bare minimum. If felt advantageous, new foundations shall be casted for signals to eliminate the need for disconnections.
iv	a) All the flexible wires shall be terminated using suitable sized lugs. These lugs shall be crimped and soldered. Wire identification tags / sleeves / Ferrules of insulation material shall be provided at both ends of the wire with terminal particulars printed on it. Soldering shall be carried out as per Para 19.1.2 of IRSEM.
	b) At fuses i.e., on the busbar side, wiring shall be in ring fashion.
	c) All cables to be clamped properly using Cable Gland Plates.
vi	Consequent to introduction of new circuits or alterations to existing circuits in apparatus cases / CTBs, new nomenclature should be painted on the cable sleeve. And also, the new particulars / corrections to existing particulars shall be painted/ printed/ displayed on the inner side of the doors.
9	Electronic interlocking
i	Supply of hardware, alteration of Interface Circuits / Application Logic / VDU layout duly certified by OEM, wiring, loading of the software, FAT, SAT and commissioning of alteration in EI system for Automatic Block Signalling. The logic and interface circuits of the alterations duly certified by OEM shall be submitted for approval.
ii	Design, wiring, testing, energization, preparation of pre-commissioning checklists and commissioning involved in the alterations of EI shall be executed by Competent Engineers of OEM. Factory Acceptance Test and Site Acceptance Test shall be conducted as per RDSO guidelines and as per instructions of Authority Engineer. Contractor shall prepare and submit documentation for TSAA and NI readiness for the approval of

	competent authority.
	TAT and CAT shall be servied out as you Dailyou, Dagred letter No.
iii	FAT and SAT shall be carried out as per Railway Board letter No.
	2017/SIG/3/85 th SSC dtd 04.12.2018 or latest. FAT, SAT and
	correspondence testing is to be first carried out by the OEM with
	Competent Engineers before offering to Railways. All the necessary
	arrangements for FAT, SAT such as wiring, interface equipment,
	simulation panel, manpower needed for testing shall be arranged by the contractor.
iv	The El alteration shall be carried out in the working electronic
	interlocking system and these alterations need to be carried out in the
	Traffic blocks / Disconnection. The contractor has to arrange for
	•
	sufficient manpower required to complete the work within the allotted
	time.
V	The work is planned to be commissioned in different phases. Phase
	alterations shall be required to be carried out in the Electronic
	Interlocking at following stations. Alterations to be carried out in both
	the phases is part of the work.
10	Multi Section Digital Axle Counters (MSDAC):
i	Detailed design showing system architecture with separate evaluators
	for main & redundant systems of UP, DN and UD lines, showing the
	locations of evaluators, power supply arrangement, and placement of
	DPs shall be submitted by the contractor for approval of railways, which
	shall be based on the approved ABS System configuration attached
ii	Installation of Central Evaluator in the relay room / ABS hut and wiring from
	CT rack to Central Evaluator, installation of the reset box, LV box, power
	supply, all other materials and work required to make the system functional
	and to integrate with the ABS system is in the scope of work.
	Separate track clearance relay shall be picked up for each main and redundant
	track section.
	Evaluators shall be interconnected with main and redundant OFC with
	auto changeover facility. However, during emergencies it shall be
	possible to connect these evaluators on 6 Quad cable also. Necessary
	hardware required for auto changeover from OFC to OFC and for
	manual changeover from OFC to 6 Quad is in the scope of work.
iii	MSDAC Evaluators shall be networked to monitor from divisional signal
-	control room. All hardware & software required for networking shall be
	in the scope of the project.
iv	The resetting provision for MSDAC shall be as per the approved design.
ıv	It shall have both auto reset, supervisory reset & manual reset
	it shall have both auto reset, supervisory reset & manual reset

	provision. All resets shall be of preparatory type only. Common reset
	box for all track sections kept at the dispatch station and a co-operation
	button kept in the reception station shall enable this operation.
	Supervisory Reset:
	 a) Supervisory Reset shall be as per Annexure 20 -A1 of IRSEM and configured as per the Approved SIP. Successful bidder shall submit the scheme of supervisory reset and Circuits for the approval of Authority Engineer. b) Supervisory sections shall be configured for main and redundant DPs
	independently.
	 c) Supervisory sections shall be configured independently for UP line and Down Line in case of Double line Sections and UP line, Down Line and U/D line for triple line sections.
	d) SUPR shall be picked up separately or can be programmed in the MSDAC Evaluator as per OEM requirements and SUPR relays (if picked up externally) shall be proved in the datalogger.
	e) Two Automatic Block Sections shall be Configured as one Supervisory section after LSS and In the remaining Automatic Block Signalling Sections Maximum of Three Automatic Block Signalling sections shall be configured in one supervisory section for reset.
	 f) There should be an overlap of one Automatic Block Signalling section in each supervisory section.
	LC gate holding DP's shall be covered in the concerned Supervisory section.
V	Separate quad cable shall be laid for Main & Redundant DPs, in UP line, DN Line and UD line as per system configuration attached as Annexure- 28.
vi	Earthing arrangements for MSDAC Evaluators and DPs shall be as per OEM recommendations.
vii	Deflector plates are to be installed on both sides of detectors for protection.
viii	Event logger with diagnostic feature shall be provided at each station of the Project and signal control room of the division. Details of Event logger (In-Built) & portable diagnostic terminal with monitoring software shall be as below:
	a) Event logger Diagnostic software for each station / auto section.
	b) Event logger Diagnostic PC as per following specification:
	(i) Processor: Intel Core i7, 3.1GHz Processor or Higher(ii) RAM: 8 GB
	(iii) HDD: 1 TB SATA (Minimum)
	(iv) Ports: 2 USB-2, 2 PCI slot
	(v) Screen: 15.4" 1920 x 1080 LED or better.

11.0	UFSBI
11.0	Event logs
	d. Alarms generated in the evaluators
	c. Number of supervisory resets initiated
	b. Number of hard resets initiated
	a. Number of soft resets initiated
	section wise, block section wise or any combinations thereof
	4. It shall be possible to extract following exception reports track
	d. Individual modules in evaluators
	c. Networking Devices
	b. Detection Points
	following failures a. Evaluators
	3. There shall be a pop up window with audio and visual alarms for
	2. A dash board with GUI shall be provided
	monitor from the Divisional test room.
	1. All MSDAC Evaluators shall be networked and shall be able to
xi	MSDAC Networking – Functional Requirements
	tests as per IS9000.
	be 250 for black / yellow and must be able to withstand the climatic
	bolt. Minimum reflectivity of Retro Reflective High intensity film shall
	to MS angle of size 75mm x 75mm x 6mm of 3 mts length with nut and
	This board shall be made up of Aluminium alloy sheet of thickness 0.25 to 0.30mm with 3mm x 25mm M.S flat welded at the borders and fixed
	format of size 1000mm X 600mm X 3 mm shall be provided on either side of each MSDAC DP with concrete base of size 300mm X 300mm X 300mm.
	DIP Lorries Prohibited. TT Machine Driver! Beware of Axle Counter" in bilingual
	background and Black letters of suitable size reading "Un insulated Trolleys &
	consistent quality with minimum guarantee life of 5 years) of yellow
Х	Warning boards with Retro Reflective High intensity film (IS 9002 certified for
	installation certificates shall be prepared and submitted.
	Competent Engineers of OEM. Pre-Commissioning checklists and OEM
ix	Wiring, installation and commissioning shall be carried out by
	(x) RS-232 Compatible in-built Modem OS: Windows 11 or better
	(ix) Built in camera and Bluetooth
	(viii) Keyboard & Optical mouse
	(vii) Wireless: 802.11a/b/g/n Wi-Fi and Bluetooth
	(vi) Network interface: Integrated 10/100/1000 Gb E LAN

a.	UFSBI equipment, as per the system configuration of SCR attached as
d.	Annexure 28, along with other required items conforming to IRS: S- 104/2012,
	ver. 0 with latest amendment with Pre-wired cabinets, automatic media
	changeover system, secondary modem along with other accessories as Input/
	Output gatherer for exchange of information of signal aspects, track occupancy
	information and any other Vital / Non-Vital information between ABS huts-
	Stations, ABS Huts- ABS huts and ABS huts-LC gates etc shall be supplied
	,installed and commissioned.
b.	USFBI shall be wired, installed and commissioned by Competent Engineers of
	OEM. Pre commissioning check lists shall be prepared and signed by an
	authorised representative of OEM
C.	The arrangement of equipment shall be as per the configuration diagram for
	UFSBI ,attached with the tender document as annexure 43.
d	The following spares shall be supplied with each pair of UFSBI .
	1 Input Card DES/UFSBI/INPUT 1 Nos
	2 CPU Card 1 Nos
	3 Output Card DES/UFSBI/CPU 1 Nos
	4 COMMCARD 1 Nos
	5 DC-DC Converter 1 Nos
	6 Reset Box 1 Nos
	7 MODEM 1 Nos
	8 6UMotherboard 1 Nos
	9 Auto Changeover Modem 1 No
12	Earthing:
i	All the equipment viz. apparatus cases, signal posts, MSDAC, UFSBI/ FN MUX,
	Power supply equipment, IPS, Power panels, outdoor cables, all indoor
	equipment and LC gate equipment etc. shall be earthed as per OEM
	recommendations, SCR practice, IRSEM, IR Telecom Manual and ACTM.
ii	Earthing of Location boxes & Signals
	a) Earths as per SCR Drawing No. 5775 shall be provided for all Signals,
	Location boxes. All nuts / bolts used to connect MS Flat to function and MS
	Flat welded to earth electrode shall be galvanized.
	b) The earth resistance achieved shall not be more than 10 Ohm Additional
	Earths shall be provided and paralleled if required to achieve final earth
	b) The earth resistance achieved shall not be more than 10 Ohm. Additional Earths shall be provided and paralleled if required to achieve final earth

	resistance of less than 10 ohms.
	c) Earth Chamber shall be filled with River sand / Robo sand.
	Earth resistance value shall be painted on the function with date of
	measurement
iii	Earthing of Cables
	 a) All the signalling and telecommunication cable armours shall be earthed properly. Both Sheath & Armour of Main cables are to be earthed. All cable armours shall be soldered with released cable copper conductors of required length and the other end of the conductors shall be connected to Cable gland plate. Armour of OFC shall be earthed at both ends. 6Q cable armour, sheath and screen shall be earthed at both ends.
iv	Earthing at ABS Huts
	One ring earth, containing not less than four maintenance free earths as per SCR Drawing No. 5776 and 5777 shall be provided at each ABS hut. All four earth pits shall be interconnected using 35 x 6 mm GI flat duly welded. The earth resistance of ring earth shall be less than 1 ohm.
	If the desired earth resistance is not achieved, additional earth pits shall be provided till earth resistance of less than one ohm is achieved. The distance between two earth pits shall not be less than 3 mtrs in any case. Internal and external connections to earth pits, earth bus bars and various equipment in ABS hut shall be as per SCR Drawing No. 5776 and 5777. All materials viz. wire coils, copper bus bar, copper strip, exothermic welding materials etc. is in the scope of the project.
V	Class A Lightning Protection
	The class A protection shall be given by installation of "FRANKLIN ROD" as per NFPA- 780 Standards. Installation to be done as per SCR Drawing No.5777. It also includes connection of down conductor with Franklin Rod and running of down conductor through PVC pipes and connecting the same to nearby earth electrode. All material required for installation to be supplied by the contractor.
vi	Electrical Earth
	Separate earths for electrical wiring of ABS hut and ATs shall be provided as per code of earthing for electrical installations.
13	Indications display systems in station & ABS huts

а Indications of signals aspects, track occupation, incoming and outgoing YR's status of entire automatic block sections adjoining the station shall be displayed on a separate VDU of size 55" for each block section at station. VDU shall be a commercial grade LED screen of Sony / LG / Samsung / Toshiba / Panasonic make along with an industrial grade PC. VDUs shall be fixed at a visible distance from the point of operation of signalling gears by making suitable fixing arrangements preferably by a floor mounted stand. The scheme for the above display system shall be submitted for approval. Indication at Station shall be provided as described below: SNo Indication required Purpose All The aspects of the signals For the maintainer to have 1 controlled from the hut including A information during failure /AG markers rectification 2 Track sections (main & Redundant) For the maintainer to have information about the track section failures Resetting indications of main and For maintenance 3 redundant track sections b All software, hardware, networking equipment, cables, power supply etc. required to make the display system functional and to integrate with the ABS system shall be arranged by the contractor. С An indication panel of approved size shall be provided at each ABS hut for displaying the status of automatic signal aspects, track section occupation status controlled from the ABS hut. Indications of incoming YR's and Outgoing YR's shall be provided on the indication panel. Indications of supervisory sections shall be provided on the indication panel. 14 Fire Alarm & Detection System i The fire alarm and detection system must be supplied as per RDSO Spec. No. RDSO/SPN/217/2016, Ver. 2.0 or latest. ii Supply must be done through RDSO approved vender only. Inspection of materials to be done by RDSO.

iii	Firm must supply all sensors and equipment listed in para 2.1 of the RDSO
	specification. This includes Multi Sensor, Aspirating type smoke detector, Linear Heat
	Detector, manual call point, Control unit, GSM/cellular module, cables, relay, audio
	visual alarm etc. as per the specification. Ten nos of sensors must be installed in each ABS Hut.
iv	Left Blank
V	Left Blank
vi	The installation of equipment is to be done by OEM or its authorised representative
	only. RDSO pre-commissioning Checklist to be prepared with Railway Representative
	and is to be submitted before commissioning.
vii	All the accessories and material required for installation & commissioning of Fire Alarm
	System shall be arranged by contractor
viii	Two nos of Fire Extinguisher of CO2 type (Capacity Minimum 5 KG) shall be supplied
	and installed at all ABS Huts both at Station Section & Block Section.
15.0	OEM'S SITE INSTALLATION CERTIFICATE:
	OEM certification for the installation before commissioning to be issued for each
	of the equipment meticulously: (as applicable)
	(a) EI; (b) SSDAC / MSDAC/HA-SSDAC; (c) UFSBI / BPAC; (d) AFTC; (e) IPS; (f) DATA
	LOGGER,(g) Class A Protection/Ring Earth
	(b) OEM is required to issue "Site Installation Certificate" addressed to CSTE of the
	Railway, as per format given at Annexure-40.

Part - F General Conditions of Contract

Instructions to Tenderers (ITT)

- 1.0 Applicability: These instructions and conditions of contract shall be applicable for all the tenders and contracts of railways for execution of 'Works' as defined in GFR 2017.
- Order of Precedence of Documents: In a contract agreement, in case of any difference, contradiction, discrepancy, with regard to conditions of tender/contract, specifications, drawings, Bill(s) of Quantities etc., forming part of the tender/contract, the following shall be the order of precedence:
 - Letter of Award/Acceptance (LOA)
 - ii. Bill(s) of Quantities
 - iii. Special Conditions of Contract
 - iv. Technical Specifications as given in tender documents
 - v. Drawings
 - vi. Indian Railways Standard General Conditions of Contract updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
 - vii. Indian Railways Unified Standard Specification (IRUSS-2019) updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract.
 - viii. CPWD Specifications 2019 Vol I & II updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract.
 - ix. Indian Railways Unified Standard Specifications (Works and Material) 2010 updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents, if applicable in the contract.
 - x. IR Specifications/Guidelines updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
 - xi. Relevant B.I.S. Codes updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.

- **1.1 Interpretation:** These Instructions to Tenderers shall be read in conjunction with the Standard General Conditions of Contract which are referred to herein and shall be subject to modifications additions or suppression by Special Conditions of Contract and/or Special Specifications, if any, annexed to the Tender Forms.
- **1.2 Definition:** In these Instructions to Tenderers, the following terms shall have the meanings assigned hereunder except where the context otherwise requires:
 - (a) "Railway" shall mean the President of the Republic of India or the administrative officers of the Railway or Successor Railway authorized to deal with any matter, which these presents are concerned on his behalf.
 - (b) "General Manager" shall mean the Officer-in-Charge of the general superintendence and control of the Zonal Railway/Production Unit and shall also include Addl. General Manager, General Manager (Construction) and shall mean and include their successors of the Successor Railway.
 - (c) "Chief Engineer" shall mean the Officer-in-Charge of the Engineering Department of Railway and shall also include Chief Engineer (Construction), Chief Electrical Engineer, Chief Electrical Engineer (Construction), Chief Signal & Telecom Engineer, Chief Signal & Telecom Engineer (Construction), Chief Mechanical Engineer and shall mean and include their successors of the Successor Railway.
 - (d) "Divisional Railway Manager" shall mean the Officer-in-Charge of a Division of Zonal Railway and shall mean and include Divisional Railway Manager of the Successor Railway.
 - (e) "Engineer" shall mean the Divisional Engineer or Executive Engineer, Divisional Signal & Telecom Engineer, Divisional Electrical Engineer, Divisional Mechanical Engineer in executive charge of the works and shall include the superior officers, both Open Line and Construction Organisations, of Engineering, Signal & Telecom, Mechanical and Electrical Departments, i.e. the Senior Divisional Engineer/Deputy Chief Engineer, Senior Divisional Signal & Telecom Engineer / Dy. Chief Signal & Telecom Engineer, Senior Divisional Electrical Engineer / Deputy Chief Electrical Engineer, Senior Divisional Mechanical Engineer and shall mean & include the Engineers of the Successor Railway.
 - (f) "Tenderer" shall mean the person / firm / co-operative or company whether incorporated or not who tenders for the works with a view to execute the works on contract with the Railway and shall include their representatives, successors and permitted assigns.
 - (g) "Limited Tenders" shall mean tenders invited from all or some contractors on the approved or select list of contractors with the Railway.
 - (h) "Open Tenders" shall mean the tenders invited in open and public manner and with adequate notice.

- (i) "Works" shall mean the works contemplated in the drawings and Bill(s) of Quantities set forth in the tender forms and required to be executed according to the specifications.
- (j) "Specifications" shall mean the Specifications for Materials and Works of the Railway as specified under the authority of the Ministry of Railways or Chief Engineer or as amplified, added to or superseded by special specifications if any, appended to the Tender Forms.
- (k) Standard Schedule of Rates (SSOR) shall mean the schedule of Rates adopted by the Railway, which includes-
 - 1. "Unified Standard Schedule of Rates of the Railway (USSOR)" i.e. the Standard Schedule of Rates of the Railway issued under the authority of the Chief Engineer from time to time, updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents;
 - 2. "Delhi Schedule Of Rates (DSR)" i.e. the Standard Schedule of Rates published by Director General/ Central Public Works Department, Government of India, New Delhi, as adopted and modified by the Railway under the authority of the Chief Engineer from time to time, updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
- (I) "Drawings" shall mean the maps, drawings, plans and tracings, or prints thereof annexed to the Tender Forms.
- (m) "Contractor's authorized Engineer" shall mean a graduate engineer or equivalent, having more than 3 years' experience in the relevant field of construction work involved in the contract, duly approved by the Engineer.
- (n) Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.
- (o) "Bill of Quantities" shall mean Schedule of Item(s) included in the tender document along with respective quantities.
- **1.3** Words importing the singular number shall also include the plural and vice versa where the context requires.

CREDENTIALS OF CONTRACTORS

2. Application for Registration and Approved list of contractors:

- 2.1 Works of construction and of supply of material shall be entrusted for execution to contractors whose capabilities and financial status have been investigated and approved to the satisfaction of the Railway. A list of approved contractors may also be maintained by the Railway. The said list be revised periodically once in a year or so by giving wide publicity through advertisements etc. For registration, the contractor including a contractor who is already on the approved list shall apply to the concerned General Manager (Construction) / Chief Administrative Officer (Construction) / Principal Chief Engineer / Principal Chief Signal & Telecommunication Engineer / Principal Chief Mechanical Engineer / Principal Chief Electrical Engineer/ Divisional Railway Manager, furnishing particulars regarding:
 - (a) his position as an independent contractor specifying engineering organization available with details of partners / staff / engineers employed with qualifications and experience;
 - (b) his capacity to undertake and carry out works satisfactorily as vouched for by a responsible official or firm; details about the transport equipment, construction tools and plants etc. required for the work, maintained by him;
 - (c) his previous experience of works similar to that to be contracted for, in proof of which original certificates or testimonials may be called for and their genuineness verified, if needs be, by reference to the signatories thereof;
 - (d) his knowledge from actual personal investigation of the resources of the area/zone or zones in which he offers to work;
 - (e) his ability to supervise the work personally or by competent and duly authorized agent;
 - (f) his financial position;
 - **2.2** An applicant shall clearly state the categories of works and the area/zone/division(s)/district(s) in which he desires registration in the list of approved contractors.
 - **2.3** The selection of contractors for enlistment in the approved list would be done by a committee for different value of slabs as notified by Railway.
 - **2.4** An annual fee as prescribed by the Railway from time to time would be charged from such approved contractors to cover the cost of sending notices to them and clerkage for tenders etc. Notices shall be sent to them on registered *e*-mail address and registered postal address.

TENDERS FOR WORKS

- **3. Tender Form:** Tender Forms shall embody the contents of the contract documents either directly or by reference and shall be as per specimen form, Annexure-I. e-Tender Forms shall be issued free of cost to all tenderers.
- 4. Omissions & Discrepancies: Should a tenderer find discrepancies in or omissions from the drawings or any of the Tender Forms or should he be in doubt as to their meaning, he should at once notify the authority inviting tenders. The tender inviting authority may, if deemed necessary, clarify the same to all tenderers. It shall be understood that every endeavour has been made to avoid any error which can materially affect the basis of tender and successful tenderer shall take upon himself and provide for the risk of any error which may subsequently be discovered and shall make no subsequent claim on account thereof.

5. Bid Security:

(1) (a) The tenderer shall be required to submit the Bid Security with the tender for the due performance with the stipulation to keep the offer open till such date as specified in the tender, under the conditions of tender. The Bid Security shall be as under:

Value of the Work	Bid Security
For works estimated to	2% of the estimated cost of the work
cost up to ₹1 crore	
For works estimated to	₹ 2 lakh plus ½% (half percent) of the excess of
cost more than ₹ 1 crore	the estimated cost of work beyond ₹ 1 crore
	subject to a maximum of ₹1 crore

Note:

- (i) The Bid Security shall be rounded off to the nearest ₹100. This Bid Security shall be applicable for all modes of tendering.
- (ii) Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'Startups' shall be exempted from payment of Bid Security detailed above.
- (iii) Labour Cooperative Societies shall submit only 50% of above Bid Security detailed above.
- (b) It shall be understood that the tender documents have been issued to the tenderer and the tenderer is permitted to tender in consideration of stipulation on his part, that after submitting his tender he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to the Engineer. Should the tenderer fail to observe or comply with the said stipulation, the aforesaid amount shall be liable to be forfeited to the Railway.

- (c) If his tender is accepted, this Bid Security mentioned in sub para (a) above will be retained as part security for the due and faithful fulfilment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation that may happen thereto while in their possession, nor be liable to pay interest thereon.
 - (2) The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India or as mentioned in tender documents. The Bank Guarantee bond shall be as per **Annexure-VIA** and shall be valid for a period of 90days beyond the bid validity period.
 - (3) In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured:
 - i. A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender.
 - ii.The original Bank Guarantee should be delivered in person to the official nominated as indicated in the tender document within 5 working days before closing date for of deadline of submission of bids (i.e. excluding the last date of submission of bids).
 - iii.Non submission of scanned copy of Bank Guarantee with the bid on e-tendering portal (IREPS) and/or non-submission of original Bank Guarantee within the specified period shall lead to summary rejection of bid.
 - iv. The Tender Security shall remain valid for a period of 90 days beyond the validity period for the Tender.

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- v.The details of the BG, physically submitted should match with the details available in the scanned copy and the data entered during bid submission time, failing which the bid will be rejected
- vi.The Bank Guarantee shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification "**Bid for the** ***** **Project**" and shall clearly indicate the name and address of the Bidder. In addition, the Bid Due Date should be indicated on the right-hand top corner of the envelope.
- vii.The envelope shall be addressed to the officer and address as mentioned in the tender document.
- viii.If the envelope is not sealed and marked as instructed above, the Railway assumes
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no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.

6. Care in Submission of Tenders:

- (a) (i) Before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate and all-inclusive to accord with the provisions in Clause-37 of the Standard General Conditions of Contract for the completion of works to the entire satisfaction of the Engineer.
- (a)(ii) Tenderers will examine the various provisions of The Central Goods and Services Tax Act, 2017(CGST)/ Integrated Goods and Services Tax Act, 2017(IGST)/ Union Territory Goods and Services Tax Act, 2017(UTGST)/ respective state's State Goods and Services Tax Act (SGST) also, as notified by Central/State Govt.& as amended from time to time and applicable taxes before bidding. Tenderers will ensure that full benefit of Input Tax Credit (ITC) likely to be availed by them is duly considered while quoting rates.
- (a)(iii) The successful tenderer who is liable to be registered under CGST/IGST/UTGST/SGST Act shall submit GSTIN along with other details required under CGST/IGST/UTGST/SGST Act to railway immediately after the award of contract, without which no payment shall be released to the Contractor. The Contractor shall be responsible for deposition of applicable GST to the concerned authority.
- (a)(iv) In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/ SGST Act, the railway shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned authority.
- (b) When work is tendered for by a firm or company, the tender shall be signed by the individual legally authorized to enter into commitments on their behalf.
- (c) The Railway will not be bound by any power of attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. It may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.

(a)(v) Contractor shall be liable to pay/refund the amount collected as GST to the Indian Railways along with interest and penalties, if any imposed by the authorities, in case GST input tax credit of Indian Railways is denied/rejected by the tax authorities due to reasons mentioned below but not limited to:

Wrong/incorrect invoices issued by Contractor;
No-filing of GST returns;
Non-payment of GST collected from Indian Railways to the authoritie

Non-payment of GST collected from Indian Railways to the authorities; Any other non-compliance done by Contractor;

General Indemnity: Contractor hereby agrees to indemnify and hold harmless the Indian Railways from and against any and all losses, including loss on account of Input Tax Credit and all losses incurred by the Indian Railways relating to or arising out of or in connection with any actual or threatened claim, legal action, proceedings, prosecution or inquiry by or against the Indian Railways arising out, directly or indirectly, of failure by the contractor to comply with the provisions of GST and related laws, or based upon or arising from any failure by the Contractor.

Retention Money: Any payment liable to be paid by Indian Railways to contractor against the goods or services or both supplied by such contractor to Indian Railways shall be kept on hold in case supplier makes any non-compliance of any of the GST law provisions including non-reporting of invoices in GST returns. Such payment shall be released after proper verification of records and availability of ITC to Indian Railways as per provisions of GST Law.

6.1 The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as Annexure-V. In addition to Annexure-V, in case of other than Company/Proprietary firm, Annexure -V(A) shall also be submitted by each member of a Partnership Firm / Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. as the case may be. Non submission of above certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.

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CONSIDERATION OF TENDERS

- 7. **Right of Railway to Deal with Tenders:** The Railway reserves the right of not to invite tenders for any of Railway work or works or to invite open or limited tenders and when tenders are called to accept a tender in whole or in part or reject any tender or all tenders without assigning reasons for any such action. In case if tender is accepted in part by Railway administration, Letter of Acceptance shall be issued as counter offer to the Tenderer, which shall be subject to acceptance by the Tenderer.
- **7A. Two Packets System of Tendering:** With a view to assess the tenders technically without being influenced by the financial bids, 'Two Packets System of tendering' shall be adopted wherein tender documents provide for the same.
- **7B. Pre-Bid Conference:** Intenders having advertised value more than Rs 50 Crore or as mentioned in the tender document, Railway shall conduct Pre-Bid Conference(s) with the prospective bidders.
- **7C. Make in India Policy:** Provisions of Make in India Policy 2017 issued by Govt. of India, as amended from time to time, shall be followed for consideration of tenders.
- 7D. **Permission to Bid for a bidder from a country which shares Land boundary with India:** Any bidder from the countries sharing a land border with India will be eligible to bid in any procurement of works (including turnkey projects) only if the bidder is registered with the Competent Authority. The Competent Authority for registration will be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), Government of India. For interpretation of this para, Department of Expenditure, Ministry of Finance, Government of India letter F.No.6/18/2019-PPD dated 23/07/2020 shall be referred.
- **7E. Clarification of Bids:** To assist in the examination, evaluation & comparison and prequalification of the Tender, the Railway may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder that is not in response to a request by the Railway shall not be entertained or considered. The Railway request for clarification and the response of the bidder in this regard shall be in writing.

However, if a Bidder does not provide clarification of its bid by the date and time communicated in the Railway request for clarification, the bid shall be evaluated as per the documents submitted along with the bid.

8. Execution of Contract Document: The Tenderer whose tender is accepted shall be required to appear in person at the office of General Manager/General Manager (Construction), Chief Administrative Officer (Construction), Divisional Railway Manager or concerned Engineer, as the case may be, or if tenderer is a firm or corporation, a duly authorized representative shall appear (there would be no need for appear in person if agreement is signed digitally) and execute the contract

agreement within seven days of notice from Railways that the Contract Agreement is ready. Failure to do so shall constitute a breach of the agreement affected by the acceptance of the tender. The Contract Agreement shall be entered into by Railway only after submission of valid Performance Guarantee by the Contractor. In such cases the Railway may determine that such tenderer has abandoned the contract and there upon his tender and acceptance thereof shall be treated as cancelled and the Railway shall be entitled to forfeit the full amount of the Bid Security and other dues payable to the Contractor under this contract. The failed Contractor shall be debarred from participating in the re-tender for that work.

- **9. Form of Contract Document:** Every contract shall be complete in respect of the document it shall so constitute. Not less than 2 copies of the contract document shall be signed by the competent authority and the Contractor and one copy given to the Contractor (there would be no need of signing two copies if agreement is signed digitally).
- (a) For Zone Contracts, awarded on the basis of the percentage above or below the applicable chapter(s) of Standard Schedule of Rates (SSOR) for the whole or part of financial year, the contract agreement required to be executed by the tenderer whose tender is accepted shall be as per specimen form, Annexure-II. During the currency of the Zone Contract, work orders as per specimen form Annexures-III, for works not exceeding ₹5,00,000 each, shall be issued by the Divisional Railway Manager / Executive Engineer under the agreement for Zone Contract.
- (b) For contracts for specific works, the contract document required to be executed by the tenderer whose tender is accepted shall be an agreement as per specimen form Annexure- IV.

_____ RAILWAY

TENDER FORM (First Sheet)

Ten	der No
Nar	me of Work
То	
The	President of India
Act	ing through the Railway
for and offe qua	I/We have read the various conditions to tender attached eto and agree to abide by the said conditions. I/We also agree to keep this offer open acceptance for a period of days from the date fixed for closing of the tender in default thereof, I/We will be liable for forfeiture of my/our "Bid Security". I/We are to do the work for Railway, at the rates quoted in the attached bill(s) of ntities and hereby bind myself/ourselves to complete the work in all respects within months from the date of issue of letter of acceptance of the tender.
Cor acco as 1	I/We also hereby agree to abide by the Indian Railways Standard General aditions of Contract, with all correction slips up-to-date and to carry out the work ording to the Special Conditions of Contract and Specifications of materials and works aid down by Railway in the annexed Special Conditions/Specifications, Standard edule of Rates (SSOR) with all correction slips up-to-date for the present contract.
	A Bid Security of ₹ has already been deposited online/ submitted as k Guarantee bond. Full value of the Bid Security shall stand forfeited without udice to any other right or remedies in case my/our Tender is accepted and if:
(a)	I/We do not submit the Performance Guarantee within the time specified in the Tender document;
(b)	I/We do not execute the contract documents within seven days after receipt of notice issued by the Railway that such documents are ready; and
(c)	I/We do not commence the work within fifteen days after receipt of orders to that effect.
up	(a) I/We am/are a Startup firm registered by
5.	We are a Labour Cooperative Society and our Registration No. is

6.	Until a formal agreement is prepared and executed, acceptance of this tender shall
consti	tute a binding contract between us subject to modifications, as may be mutually
agreed	d to between us and indicated in the letter of acceptance of my/our offer for this
work.	-
	Cionatura of Tandorou(a)
	Signature of Tenderer(s)
	Date
	Address of the Tenderer(s)
	

TENDER FORM (Second Sheet)

1. Instructions to Tenderers and Conditions of Tender: The following documents form part of Tender / Contract:
(a) Tender Forms - First Sheet and Second Sheet
(b) Special Conditions/Specifications (enclosed)(c) Bill(s) of quantities (enclosed)
(d) Standard General Conditions of Contract and Standard Specifications (Works and Materials) of Indian Railways as amended/corrected up to latest correction slips, copies of which can be seen in the office of or obtained from the office of the Chief Engineer, Railway on payment of prescribed charges.
(e) Standard Schedule of Rates (SSOR) as amended / corrected up to latest correction slips, copies of which can be seen in the office of or obtained from the office of the Chief Engineer, Railway on payment of prescribed charges.
(f) All general and detailed drawings pertaining to this work which will be issued by the Engineer or his representatives (from time to time) with all changes and modifications.
2. Drawings for the Work: The Drawing for the work can be seen in the office of the and / or Chief Engineer, Railway at any time during the office hours. The drawings are only for the guidance of Tenderer(s). Detailed working drawings (if required) based generally on the drawing mentioned above, will be given by the Engineer or his representative from time to time.
3. The Tenderer(s) shall quote his / their rates as a percentage above or below the Standard Schedule of Rates (SSOR) of Railway as applicable to Division except where he/they are required to quote item rates and must tender for all the items shown in the Bill(s) of Quantities attached. The quantities shown in the attached Bill(s) of Quantities are given as a guide and are approximate only and are subject to variation according to the needs of the Railway. The Railway does not guarantee work under each item of the Bill(s) of Quantities. The tenderer(s) shall quote rates / rebates only at specified place in Tender Form supplied by Railway. Any revision of rates / rebates submitted (quoted) through a separate letter whether enclosed with the bid (Tender Form) or submitted separately or mentioned elsewhere in the document other than specified place shall be summarily ignored and will not be considered.

- **4.** Tenders containing erasures and / or alterations of tender documents are liable to be rejected. Any correction made by tender(s) in his/their entries must be attested by him / them.
- **5.** The works are required to be completed within a period of _____ months from the date of issue of acceptance letter.

6. Bid Security:

- (a) Subject to exemptions provided under para 5(1) (a) of Part-1 (ITT) of this document, the tender must be accompanied by a Bid Security as mentioned in tender documents, failing which the tender shall be summarily rejected.
- (b) The Tenderer(s) shall keep the offer open for a minimum period of 60 days (in case of two packet system of tendering 90days) from the date of closing of the Tender. It is understood that the tender documents have been issued to the Tenderer(s) and the Tenderer(s), is / are permitted to tender in consideration of the stipulation on his / their part that after submitting his / their tender subject to the period being extended further, if required by mutual agreement from time to time, he will not resile from his offer or modify the terms and conditions thereof in a manner not acceptable to ________ Railway. Should the tenderer fail to observe or comply with the foregoing stipulation, the amount deposited or Bank guarantee bond submitted as Bid Security for the due performance of the above stipulation, shall be forfeited to the Railway.
 - (c) If his tender is accepted,
 - (i) the Bid Security mentioned in sub para(a) above deposited in cash through epayment gateway will be retained as part security for the due and faithful fulfilment of the contract in terms of Clause 16 of the Standard General Conditions of Contract;
 - (ii) the Bid Security mentioned in sub para(a) above submitted as Bank guarantee bond, will be encashed as part security for the due and faithful fulfilment of the contract in terms of Clause 16 of the Standard General Conditions of Contract. The Bid Security of other Tenderers shall, save as herein before provided, be returned to them, but the Railway shall not be responsible for any loss or depreciation to the Bid Security that may happen thereto while in their possession, nor be liable to pay interest thereon.
 - (d) In case Contractor submits the Term Deposit Receipt/Bank Guarantee Bond towards either the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security so retained as per sub para(c) above, to the Contractor.
- 7. **Rights of the Railway to deal with Tender:** The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/ their tender nor

- the Railway to assign reasons for declining to consider or reject any particular tender or tenders.
- **8.** If the tenderer(s) deliberately gives / give wrong information in his / their tender or creates / create circumstances for the acceptance of his / their tender, the Railway reserves the right to reject such tender at any stage.
- 9. If any partner(s) of a partnership firm expires after the submission of its tender or after the acceptance of its tender, the Railway shall deem such tender as cancelled/contract as terminated under clause 61 of the Standard General Conditions of Contract, unless the firm retains its character as per partnership agreement. If a sole proprietor expires after the submission of tender or after the acceptance of tender, the Railway shall deem such tender as cancelled / contract as terminated under clause 61 of the Standard General Conditions of Contract.

10. Eligibility Criteria:

10.1 Technical Eligibility Criteria:

- (a) The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:
- (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or
- (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or
- (iii) One similar work costing not less than the amount equal to 60% of advertised value of the tender.
- (b) (1) In case of tenders for composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges substructure, superstructure etc.), tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:
 - (i) Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or
 - (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or
 - (iii) One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender.

Note for b(1): Separate completed works of minimum required values shall also be considered for fulfilment of technical eligibility criteria for different components.

- (b)(2)In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity.
- (b) (3) To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause 7 of the Standard General Conditions of Contractor through subcontractor fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract or jointly i.e., partly himself and remaining through subcontractor, with prior approval of Chief Engineer in writing.

However, if required in tender documents by way of Special Conditions, a formal agreement duly notarised, legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be submitted along with the offer for considering subletting of that scope of work towards fulfilment of technical eligibility. Such subcontractor must fulfil technical eligibility criteria as follows:

The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be subletted, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract.

Note: for subletting of work costing up to Rs 50 lakh, no previous work experience of subcontractor shall be asked for by the Railway.

In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract, with prior approval of Chief Engineer in writing.

Note for Item 10.1:

Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates.

In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.

10.2. Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of 1.5 V/N or 'V' whichever is less; where

V= Advertised value of the tender in crores of Rupees

N= Number of years prescribed for completion of work for which bids have been invited.

The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.

The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.

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- **10.3 Bid Capacity:** The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI.
- **10.4** No Technical and Financial credentials are required for tenders having advertised value up to Rs 50 lakh.
- **10.5** Credentials if submitted in foreign currency shall be converted into Indian currency i.e., Indian Rupee as under:

The conversion rate of US Dollars into Rupees shall be the daily representative exchange rates published by the Reserve Bank of India or entity authorized by RBI to do so for the relevant date or immediately previous date for which rates have been published. Where, relevant date shall be as on the last day of month previous to the one in which tender is invited. In case of any other currency, the same shall first be converted to US Dollars as on the last day of month previous to the one in which tender is invited, and the amount so derived in US Dollars shall be converted into Rupees at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date or immediately previous date for which rates have been published.

[Explanation for Para 10 of the Tender Form (Second Sheet) including Para 10.1 to 10.5 - Eligibility Criteria:

- 1. Substantially Completed Work means an ongoing work in which payment equal to or more than 90% of the present contract value (excluding the payment made for adjustment of Price variation (PVC), if any) has been made to the contractor in that ongoing contract and no proceedings of termination of contract on Contractor's default has been initiated. The credential certificate in this regard should have been issued not prior to 60 days of date of invitation of present tender.
- 2. In case a work is started prior to 07 (seven) years, ending last day of month previous to the one in which tender is invited, but completed in last 07 (seven) years, ending last day of month previous to the one in which tender is invited, the completed work shall be considered for fulfillment of credentials.
- 3. If a work is physically completed and completion certificate to this extent is issued by the concerned organization but final bill is pending, such work shall be considered for fulfillment of credentials
- 4. In case of completed work, the value of final bill (gross amount) including the PVC amount (if paid) shall be considered as the completion cost of work. In case final bill is pending, only the total gross amount already paid including the PVC amount (if paid) shall be considered as the completion cost of work.
 - In case of substantially completed work, the total gross amount already paid including the PVC amount (if paid), as mentioned in the certificate, shall be considered as the cost of substantially completed work.
- 5. If a bidder has successfully completed a work as subcontractor and the work experience certificate has been issued for such work to the subcontractor by a Govt. Organization or public listed company as defined in Note for Item 10.1 Para 10 of the Tender Form (Second Sheet), the same shall be considered for the purpose of fulfillment of credentials.
- 6. In case a work is considered similar in nature for fulfillment of technical credentials, the overall cost including the PVC amount (if paid) of that completed work or substantially completed work, shall be considered and no separate evaluation for each component of that work shall be made to decide eligibility.
- 7. In case of newly formed partnership firm, the credentials of individual partners from previous propriety firm(s) or dissolved previous partnership firm(s) or split previous partnership firm(s), shall be considered only to the extent of their share in previous entity on the date of dissolution / split and their share in newly formed partnership firm. For example, a partner A had 30% share in previous entity and his share in present partnership firm is 20%. In the present tender under consideration, the credentials of partner A will be considered to the extent of 0.3*0.2*value of the work done in the previous entity. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
- 8. In case of existing partnership firm, if any one or more partners quit the partnership firm, the credentials of remaining partnership firm shall be re-worked out i.e., the quitting partner(s) shall take away his credentials to the extent of his share on the date of quitting the partnership firm(e.g. in a partnership firm of partners A, B & C having share 30%, 30% & 40% respectively and credentials of Rs 10 crore; in case partner C quits the firm, the credentials of this partnership firm shall remain as Rs 6 crore). For this purpose, the tenderer

- shall submit along with his bid all the relevant documents which include copy of previous partnership deed(s), dissolution deed(s) and proof of surrender of PAN No.(s) in case of dissolution of partnership firm(s) etc.
- 9. In case of existing partnership firm if any new partner(s) joins the firm without any modification in the name and PAN/TAN no. of the firm, the credentials of partnership firm shall get enhanced to the extent of credentials of newly added partner(s) on the same principles as mentioned in item 6 above. For this purpose, the tenderer shall submit along with his bid all the relevant documents which include copy of previous partnership deeds, dissolution/splitting deeds and proof of surrender of PAN No.(s) in case of dissolution of partnership firm etc.
- 10. Any partner in a partnership firm cannot use or claim his credentials in any other firm without leaving the partnership firm i.e., In a partnership firm of A&B partners, A or B partner cannot use credentials of partnership firm of A&B partners in any other partnership firm or propriety firm without leaving partnership firm of A&B partners.
- 11. In case a partner in a partnership firm is replaced due to succession as per succession law, the proportion of credentials of the previous partner will be passed on to the successor.
- 12. If the percentage share among partners of a partnership firm is changed, but the partners remain the same, the credentials of the firm before such modification in the share will continue to be considered for the firm as it is without any change in their value. Further, in case a partner of partnership firm retires without taking away any credentials from the firm, the credentials of partnership firm shall remain the same as it is without any change in their value.
- 13. In a partnership firm "AB" of A&B partners, in case A also works as propriety firm "P" or partner in some other partnership firm "AX", credentials of A in propriety firm "P" or in other partnership firm "AX" earned after the date of becoming a partner of the firm AB shall not be added in partnership firm AB.
 - 14. In case a tenderer is LLP, the credentials of tenderer shall be worked out on above lines similar to a partnership firm.
 - 15. In case company A is merged with company B, then company B would get the credentials of company A also.]

11. Tenderer Credentials:

Documents testifying tenderer previous experience and financial status should be produced along with the tender.

Tenderer(s) who is / are not borne on the approved list of the Contractors of _______ Railway shall submit along with his / their tender:

- (i) Certificates and testimonials regarding contracting experience for the type of job for which tender is invited with list of works carried out in the past.
- (ii) Audited Balance Sheet duly certified by the Chartered Accountant regarding contractual payments received in the past.

- (iii) The list of personnel / organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work.
- (iv) A copy of certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-V. In addition to Annexure-V, in case of other than Company/Proprietary firm, Annexure -V(A) shall also be submitted by each member of a Partnership Firm / Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. as the case may be. Non submission of a copy of certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self-attested / digitally signed by which they/he are/is qualifying the Qualifying Criteria mentioned in the Tender Document.
- (v) The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the Railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the Railway there under.
- (vi) (a) In case of any information submitted by tenderer is found to be false, forged or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security besides banning of business for a period of up to <u>two</u> five years.
 - (b) In case of any information submitted by tenderer is found to be false, forged or incorrect after the award of contract, the contract shall be terminated. Bid Security, Performance Guarantee and Security Deposit available with the railway shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing business for a period of up to two five years.

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12. Non-compliance with any of the conditions set forth therein above is liable to result in the tender being rejected.

13.	Execution of Contract Documents: The successful Tenderer(s) shall be required t
	execute an agreement with the President of India acting through the
	Railway for carrying out the work according to the Standard General
	Conditions of Contract, Special Conditions / Specifications annexed to the tender
	and Standard Specifications (Works and Materials) of Railway a

amended/corrected up to latest correction slips, mentioned in tender form (First Sheet).

14. Documents to be Submitted Along with Tender

- (i) The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be.
- (ii) Following documents shall be submitted by the tenderer:

(a) Sole Proprietorship Firm:

1. All documents in terms of Para 10 of the Tender Form (Second Sheet) above.

(b) HUF:

- 1. A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.
- 2. All other documents in terms of Para 10 of the Tender Form (Second Sheet) above.

(c) **Partnership Firm:**

- 1. All documents as mentioned in para18 of the Tender Form (Second Sheet).
- (d) **Joint Venture (JV):** All documents as mentioned in para 17 of the Tender Form (Second Sheet).
- (e) Company registered under Companies Act2013:
 - (i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company
 - (ii) A copy of Certificate of Incorporation
 - (iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company.
 - (iv) All other documents in terms Para 10 of the Tender Form (Second Sheet) above.

(f) LLP (Limited Liability Partnership):

- (i) A copy of LLP Agreement
- (ii) A copy of Certificate of Incorporation
- (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP.
- (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.
- (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet).

(g) Registered Society & Registered Trust:

- (i) A copy of Certificate of Registration
- (ii) A copy of Memorandum of Association of Society/Trust Deed
- (iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust.
- (iv) A copy of Rules & Regulations of the Society
- (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) above.
- (iii) If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender.
- (iv) After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF/LLP etc. shall be neither asked nor considered, if submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted.
- (v) A tender from JV shall be considered only where permissible as per the tender conditions.
- (vi) The Railway will not be bound by any change of power of attorney or in the composition of the firm made subsequent to the submission of tender. Railway may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.

15. The tenderer whether sole proprietor / a company or a partnership firm / joint venture (JV) / registered society / registered trust / HUF / LLP etc if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association / Board resolution, failing which tender shall be summarily rejected.

A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required.

Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.

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16. Employment/Partnership etc. of Retired Railway Employees:

- (a) Should a tenderer
 - i) be a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, whether in the executive or administrative capacity or whether holding a pensionable post or not, in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, OR
 - ii) being partnership firm / joint venture (JV) / registered society / registered trust etc have as one of its partners/members a retired Engineer of the gazetted rank or any other gazetted officer working before his retirement, OR
- i) being an incorporated company have any such retired Engineer of the gazetted rank or any other gazetted officer working before his retirement as one of its directors

AND

in case where such Engineer or officer had not retired from government service at least 1 year prior to the date of submission of the tender

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the tenderer will give full information as to the date of retirement of such Engineer or gazetted officer from the said service and as to whether permission for taking such contract, or if the Contractor be a partnership firm or an incorporated company, to become a partner or director as the case may be, has been obtained by the tenderer or the Engineer or officer, as the case may be from the President of India or any officer, duly authorized by him in this behalf, shall be clearly stated in writing at the time of submitting the tender.

- b) In case, upon successful award of contract, should a tenderer depute for execution of the works under or to deal matters related with this contract, any retired Engineer of gazette rank or retired gazetted officer working before his retirement in the Engineering or any other department of any of the railways owned and administered by the President of India for the time being, and now in his employment, then the tenderer will ensure that retired Engineer or retired gazetted officer had retired from government service at least 1 year prior to the date of his employment with tenderer and in case he had retired from service within a year then he possesses the requisite permission from the President of India or any officer, duly authorized by him in this behalf, to get associated with the tenderer.
- c) Should a tenderer or Contractor being an individual, have member(s) of his family or in the case of partnership firm/ company / joint venture (JV) / registered society / registered trust etc. one or more of his partner(s)/shareholder(s) or member(s) of the family of partner(s)/shareholder(s) having share of more than 1%in the tendering entity employed in gazetted capacity in the Engineering or any other department of the railway, then the tenderer at the time of submission of tender, will inform the authority inviting tenders the details of such persons.

Note: -If information as required as per 16.a), b), c) above has not been furnished, contract is liable to be dealt in accordance with provision of clause 62 of the Standard General Condition of contract.

JOINT VENTURE (JV) IN WORKS TENDERS

- **17. Participation of Joint Venture (JV) in Works Tender:** This para shall be applicable for works tenders wherein tender documents provide for the same.
- **17.1** Separate identity/name shall be given to the Joint Venture.

- 17.2 Number of members in a JV shall not be more than three, if the work involves only one department (say Civil or S&T or Electrical or Mechanical) and shall not be more than five, if the work involves more than one Department. One of the members of the JV shall be its Lead Member who shall have a majority (at least 51%) share of interest in the JV. The other members shall have a share of not less than 20% each in case of JV with up to three members and not less than 10% each in case of JV with more than three members. In case of JV with foreign member(s), the Lead Member has to be an Indian firm/company with a minimum share of 51%.
- **17.3** A member of JV shall not be permitted to participate either in individual capacity or as a member of another JV in the same tender.
- 17.4 The tender form shall be purchased and submitted only in the name of the JV and not in the name of any constituent member. The tender form can however be submitted by JV or any of its constituent member or any person authorized by JV through Power of Attorney to submit tender.
- **17.5** Bid Security shall be submitted by JV or authorized person of JV either as:
 - (i) Cash through e-payment gateway or as mentioned in tender document, or
 - (ii) Bank Guarantee bond either in the name of JV, or in the name of all members of JV as per MOU irrespective of their share in the JV if the JV has not been constituted legally till the date of submission of tender.
- 17.6 A copy of Memorandum of Understanding (MoU) duly executed by the JV members on a stamp paper, shall be submitted by the JV alongwith the tender. The complete details of the members of the JV, their share and responsibility in the JV etc. particularly with reference to financial, technical and other obligations shall be furnished in the MoU.
- 17.7 Once the tender is submitted, the MoU shall not normally be modified / altered / terminated during the validity of the tender. In case the tenderer fails to observe/comply with this stipulation, the full Bid Security shall be liable to be forfeited.
- 17.8 Approval for change of constitution of JV shall be at the sole discretion of the Railway. The constitution of the JV shall not normally be allowed to be modified after submission of the bid by the JV, except when modification becomes inevitable due to succession laws etc., provided further that there is no change in qualification of minimum eligibility criteria by JV after change of composition. However, the Lead Member shall continue to be the Lead Member of the JV. Failure to observe this requirement would render the offer invalid.
- 17.9 Similarly, after the contract is awarded, the constitution of JV shall not be normally

allowed to be altered during the currency of contract except when modification become inevitable due to succession laws etc. and minimum eligibility criteria should not get vitiated. Failure to observe this stipulation shall be deemed to be breach of contract with all consequential penal action as per contract conditions.

- 17.10 On award of contract to a JV, a single Performance Guarantee shall be submitted by the JV as per tender conditions. All the Guarantees like Performance Guarantee, Bank Guarantee for Mobilization Advance, Machinery Advance etc. shall be accepted only in the name of the JV and no splitting of guarantees amongst the members of the JV shall be permitted.
- 17.11 On issue of LOA (Letter of Acceptance), the JV entity to whom the work has been awarded, with the same shareholding pattern as was declared in the MOU/JV Agreement submitted along with the tender, shall be got registered before the Registrar of the Companies under 'The Companies Act -2013' (in case JV entity is to be registered as Company) or before the Registrar/Sub-Registrar under the 'The Indian Partnership Act, 1932' (in case JV entity is to be registered as Partnership Firm) or under 'The LLP Act 2008' (in case JV entity is to be registered as LLP). A separate PAN shall be obtained for this entity. The documents pertaining to this entity including its PAN shall be furnished to the Railways before signing the contract agreement for the work. In case the tenderer fails to observe/comply with this stipulation within 60 days of issue of LOA, contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit the full amount of the Bid Security and other dues payable to the Contractor under this contract. The entity so registered, in the registered documents, shall have, inter-alia, following Clauses:
- 17.11.1 Joint and Several Liability Members of the entity to which the contract is awarded, shall be jointly and severally liable to the Railway for execution of the project in accordance with General and Special Conditions of Contract. The members of the entity shall also be liable jointly and severally for the loss, damages caused to the Railways during the course of execution of the contract or due to non-execution of the contract or part thereof.
- **17.11.2** Duration of the Registered Entity It shall be valid during the entire currency of the contract including the period of extension, if any and the maintenance period after the work is completed.
- **17.11.3** Governing Laws The Registered Entity shall in all respect be governed by and interpreted in accordance with Indian Laws.
- 17.12 Authorized Member Joint Venture members in the JV MoU shall authorize Lead member on behalf of the Joint Venture to deal with the tender Contract, sign the agreement or enter into contract in respect of the said tender, to receive payment,

to witness joint measurement of work done, to sign measurement books and similar such action in respect of the said tender/contract. All notices/correspondences with respect to the contract would be sent only to this authorized member of the JV.

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- 17.13 No member of the Joint Venture shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other members and that of the Railway in respect of the said tender/contract.
- **17.14** Documents to be enclosed by the JV along with the tender:
- **17.14.1** In case one or more of the members of the JV is/are partnership firm(s), following documents shall be submitted:
 - (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar.
 - (ii) A copy of consent of all the partners or individual authorized by partnership firm, to enter into the Joint Venture Agreement on a stamp paper,
 - (iii) A notarized or registered copy of Power of Attorney in favour of the individual to sign the MOU/JV Agreement on behalf of the partnership firm and create liability against the firm.
 - (iv) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract.
- **17.14.2** In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed:
- 1. A copy of notarized affidavit on Stamp Paper declaring that his Concern is a proprietary Concern and he is sole proprietor of the Concern OR he who is signing the affidavit on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF.
- 17.14.3 In case one or more members of the JV is/are companies, the following documents shall be submitted:
 - (i) A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement,
 - (ii) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company
 - (iii) A copy of Certificate of Incorporation

- (iv) A copy of Authorization/copy of Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual, to sign the tender, sign MOU/JV Agreement on behalf of the company and create liability against the company
- **17.14.4** In case one or more members of the JV is/are LLP firm/s, the following documents shall be submitted:
 - (i) A copy of LLP Agreement
 - (ii) A copy of Certificate of Incorporation of LLP
 - (iii) A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement
 - (iv) A copy of Authorization /copy of Power of Attorney issued by the LLP firm (backed by resolution passed by the Partners) in favour of the individual, to sign the tender and/or sign the MOU/ JV agreement on behalf of the LLP and create liability against the LLP.
 - (v) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract.
 - 17.14.5 In case one or more members of the JV is/are Society/s or Trust/s, the following documents shall be submitted:
 - (i) A copy of Certificate of Registration
 - (ii) A copy of Memorandum of Association of Society/Trust Deed
 - (iii) A copy of Rules & Regulations of the Society
 - (iv) A copy of Power of Attorney, in favour of the individual to sign the tender documents and create liability against the Society/Trust.

17.14.6 All other documents in terms of Para 10 of the Tender Form (Second Sheet) above.

17.14.7 A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.

17.15 Credentials & Qualifying Criteria: Technical, financial eligibility and Bid capacity of the JV shall be adjudged based on satisfactory fulfilment of the following criteria:

17.15.1 Technical Eligibility Criteria ('a' or 'b' mentioned hereunder):

(a) For Works without composite components

The technical eligibility for the work as per para 10.1 above, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV'.

Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for the work as per para 10.1 above, shall have technical capacity of minimum 25% 10% of the cost of work i.e., each non-lead member of JV member must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 25% 10% of advertised value of the tender.

(b) For works with composite components

The technical eligibility for <u>major component</u> of work as per para 10.1 above, shall be satisfied by either the 'JV in its own name & style' or 'Lead member of the JV' and technical eligibility for <u>other component(s)</u> of work as per para 10.1 above, shall be satisfied by either the 'JV in its own name & style' or 'any member of the JV'.

Each other (non-lead) member(s) of JV, who is/ are not satisfying the technical eligibility for any component of the work as per para 10.1 above, shall have technical capacity of minimum 25% 10% of the cost of any component of work mentioned in technical eligibility criteria. i.e., each other (non-lead) member of must have satisfactorily completed or substantially completed during the last 07 (seven) years, ending last day of month previous to the one in which tender is invited, one similar single work for a minimum of 25% 10% of cost of any component of work mentioned in technical eligibility criteria.

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Note for Para 17.15.1:

- a) The Major component of the work for this purpose shall be the component of work having highest value. In cases where value of two or more component of work is same, any one work can be classified as Major component of work.
- b) Value of a completed work done by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above-mentioned technical eligibility criteria in the tender under consideration.

17.15.2 Financial Eligibility Criteria

The JV shall satisfy the requirement of "Financial Eligibility" mentioned at para 10.2 above. The "financial capacity" of the lead member of JV shall not be less than 51% of the financial eligibility criteria mentioned at para 10.2 above.

The arithmetic sum of individual "financial capacity" of all the members shall be taken as JV's "financial capacity" to satisfy this requirement.

Note: Contractual payment received by a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying compliance of the above-mentioned financial eligibility criteria in the tender under consideration.

17.15.3 Bid Capacity

The JV shall satisfy the requirement of "Bid Capacity" requirement mentioned at para 10.3 above. The arithmetic sum of individual "Bid capacity" of all the members shall be taken as JV's "Bid capacity" to satisfy this requirement.

18. Participation of Partnership Firms in works tenders:

- 18.1 The Partnership Firms participating in the tender should be legally valid under the provisions of the Indian Partnership Act.
- 18.2 The partnership firm should have been in existence or should have been formed prior to submission of tender. Partnership firm should have either been registered with the Registrar or the partnership deed should have been notarized as per the Indian Partnership Act, prior to submission of tender.
- 18.3 Separate identity / name should be given to the partnership firm. The partnership firm should have PAN / TAN number in its own name and PAN / TAN number in the name of any of the constituent partners shall not be considered. The valid constituents of the firm shall be called partners.
- 18.4 Once the tender has been submitted, the constitution of the firm shall not normally be allowed to be modified / altered / terminated during the validity of the tender as well as the currency of the contract except when modification becomes inevitable due to succession laws etc., in which case prior permission should be taken from Railway and in any case the minimum eligibility criteria should not get vitiated. The re-constitution of firm in such cases should be followed by a notary certified Supplementary Deed. The approval for change of constitution of the firm, in any case, shall be at the sole discretion of the Railways and the tenderer shall have no claims what-so-ever. Any change in the constitution of Partnership firm after submission of tender shall be with the consent of all partners and with the

signatures of all partners as that in the Partnership Deed. Failure to observe this requirement shall render the offer invalid and full Bid Security shall be forfeited.

If any Partner/s withdraws from the firm after submission of the tender and before the award of the contract, the offer shall be rejected and Bid Security of the tenderer will be forfeited. If any new partner joins the firm after submission of tender but prior to award of contract, his / her credentials shall not qualify for consideration towards eligibility criteria either individually or in proportion to his share in the previous firm. In case the tenderer fails to inform Railway beforehand about any such changes / modification in the constitution which is inevitable due to succession laws etc. and the contract is awarded to such firm, then it will be considered a breach of the contract conditions liable for determination of the contract under Clause 62 of the Standard General Conditions of Contract.

- 18.5 A partner of the firm shall not be permitted to participate either in his individual capacity or as a partner of any other firm in the same tender.
- 18.6 The tender form shall be submitted only in the name of partnership firm. The Bid Security shall be submitted by partnership firm. The Bid Security submitted in the name of any individual partner or in the name of authorized partner (s) shall not be considered.
- 18.7 On issue of Letter of Acceptance (LOA) to the partnership firm, all the guarantees like Performance Guarantee, Guarantee for various Advances to the Contractor shall be submitted only in the name of the partnership firm and no splitting of guarantees among the partners shall be acceptable.
- 18.8 On issue of Letter of Acceptance (LOA), contract agreement with partnership firm shall be executed in the name of the firm only and not in the name of any individual partner.
- 18.9 In case the Letter of Acceptance (LOA) is issued to a partnership firm, the following undertakings shall be furnished by all the partners through a notarized affidavit, before signing of contract agreement.
 - (a) Joint and several liabilities:

The partners of the firm to which the Letter of Acceptance (LOA) is issued, shall be jointly and severally liable to the Railway for execution of the contract in accordance with General and Special Conditions of the Contract. The partners shall also be liable jointly and severally for the loss, damages caused to the Railway during the course of execution of the contract or due to non-execution of the contract or part thereof.

(b) Duration of the partnership deed and partnership firm agreement:

The partnership deed/partnership firm agreement shall normally not be modified/altered/ terminated during the currency of contract and the maintenance period after the work is completed as contemplated in the conditions of the contract. Any change carried out by partners in the constitution of the firm without permission of Railway, shall constitute a breach of the contract, liable for determination of the contract under Clause 62 of the Standard General Conditions of Contract.

- (c) Governing laws: The partnership firm agreement shall in all respect be governed by and interpreted in accordance with the Indian laws.
- (d) No partner of the firm shall have the right to assign or transfer the interest right or liability in the contract without the written consent of the other partner/s and that of the Railway.
- 18.10 The tenderer shall clearly specify that the tender is submitted on behalf of a partnership firm. The following documents shall be submitted by the partnership firm, with the tender:
 - (i) A notarized copy of the Partnership Deed or a copy of the Partnership deed registered with the Registrar.
 - (ii) A notarized or registered copy of Power of Attorney in favour of the individual to tender for the work, sign the agreement etc. and create liability against the firm.
 - (iii) An undertaking by all partners of the partnership firm that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP in which they were / are partners/members. Any Concealment / wrong information in regard to above shall make the bid ineligible or the contract shall be determined under Clause 62 of the Standard General Conditions of Contract.
 - (iv) All other documents in terms of Para 10 of the Tender Form (Second Sheet) above.

18.11 Evaluation of eligibility of a partnership firm:

Technical and financial eligibility of the firm shall be adjudged based on satisfactory fulfilment of the eligibility criteria laid down in Para 10 of the Tender Form (Second Sheet) above.

19.0 Advances to Contractor -

If specifically provided in Tender Documents of tender having advertised value more than Rs 50 Crores, Railway shall make payment, as an Interest bearing advances, as per Contractor's request. These advances shall carry a simple interest _____ as indicated in the Tender documents. The payment and recovery of such advances shall be made as per manners prescribed in Clause 46.4 of the Standard General Conditions of Contract.

		(Signature)
		(Designation)
Signature of Tenderer(s)	Railway Date	

TENDER FORM (Third Sheet)

Name of Work:		
	BILL OF QUANTITIES	

1. Standard Schedule of Rates (SSOR) Items:

SL	Item No. of SSOR	Descriptio n of Item of Work	Approximat e Quantity	Uni t	Rates in Figures and Words to be filled by tenderer (₹)	Amount (₹)
1	2	3	4	5	6	7

2. Non-Standard Schedule of Rates (SSOR) Items:

SL	Item No.	Descriptio n of Item of Work	Approximat e Quantity	Uni t	Rates in Figures and Words to be filled by tenderer (₹)	Amount (₹)
1	2	3	4	5	6	7

The quantities shown in above Bill of Quantities are approximate and are as a guide to give the tenderer(s) an idea of quantum of work involved. The Railway reserves the right to increase/ decrease and/or delete or include any of the quantities given above and no extra rate will be allowed on this account.

I/We undertake to do the wo	rk at	% above/below	the Standard
Schedule of Rates (SSOR) of the	_ Railway as appli	cable to	Division or at
the rates quoted above for each item.			
Datad			

Signature of the Tenderer(s)

Note: Columns 1 to 5 shall be filled by the office of the Authority inviting tender. Columns 6 & 7 shall be filled by the Tenderer(s) only when percentage tenders are not invited.

AGREEMENT FOR ZONE CONTRACT

	CONTRACT	AGREEMENT	No	DA	TED	
ΑI	RTICLES OF AGRI	EEMENT made th	is	day of		_between
the	e President of Ind	ia acting through	n the _			Railway
he	reinafter called tl	ne "Railway" of	the on	e part and		
he	reinafter called the	e "Contractor" of t	he othe	r part.		
	WHEREAS th	e Contractor has a	greed	with the Railway du	ring the perio	d of
mo	onths from	to		for the perfor	rmance of:	
(a)		ing materials su		existing structures, s the contract valu	_	
(b)	and kilometre shall be deemed said period at	as will b and taken to be p % above/be	e set for eart of the elow th	cs at any site between rth in the work orden whis contract) that we estandard Schedule of the latest correction	ers (which wo ill be issued d e of Rates (SSC	ork orders luring the DR) of the
	Specifications of and the Special Grawings (if any)	the Conditions and S _I) that will be issue	Rail pecial S ed with	way corrected up to pecifications, if any the work order, afor t in which the public	latest correction conformity resaid AND W	etion slips with the HEREAS

NOW THIS INDENTURE PRESENTS WITNESSETH That in consideration of the payment to be made by the Railway, the Contractor will duly perform the works set forth in the said Work Order and shall execute the same with great promptness, care and accuracy, in a workman like manner to the satisfaction of the Railway and will complete the same on or before the respective dates specified therein in accordance with the said specifications and said drawings (if any) and said conditions of contract and will observe, fulfill and keep all the conditions therein mentioned, (which shall be deemed and taken to be part of this contract as if the same had been duly set forth herein), AND the Railway both here-by agree that if the Contractor shall duly perform the said work in the manner aforesaid and observe and keep the said terms and conditions, the Railway will pay or cause to be paid to the Contractor for the said works on the completion thereof the amount due in respect thereof at the rates specified above.

Contractor	Designation
Address	Railway
	(For President of India)
<u>Witnesses</u> (to signature of Contractor):	
Signature of witnesses with address	
Date	
Signature of witnesses with address	
Date	

ANNEXURE - III

WORK ORDER UNDER ZONE CONTRACT

WORI	K ORDEF	R NO, I	DATED	UNDE	R CONTRACT AC	GREEMENT
NO			DATEI)	·	
					_	
Sched	ule of Dra	awings				
Autho	ority					
Alloca	ition					
Rates invitir	ry out the (SSOR) c ng tender	e following work	s at% a , updated wit specified in the to	ibove/b h corre	is / are he below the Standard ction slips issued ocuments under Z	d Schedule of up to date of
SL	Item No.	Description of Item of Work	Approximate Quantity	Unit	Rates in Figures and Words (₹)	Amount (₹)
1	2	3	4	5	6	7
	•		Total Approxi	mate V	alue of Work = ₹ _	
The quot find the	uantities _I Standard	provided herein a I General Condition Ing tender or as of	re approximate a ons of Contract u herwise specified	and subjupdated	ed on or before ect to variation un with correction sl tender documents	der Clause 42 ips issued up s.
						Division
						Railway
Date _					for Presid	dent of India

I agree to complete the works herein set forth on or before the date specified under
the Zone Contract Agreement herein before referred to in conformity with the drawings
hereto annexed and in accordance with the General and Special (if any) Conditions of
Contract updated with correction slips issued up to date of inviting tender or as otherwise
specified in the tender documents and the Standard Specifications of Railway
updated with correction slips issued up to date of inviting tender or as otherwise
specified in the tender documents .
I also agree to maintain such works for the period specified below from the date
of completion:
(a) Repair and maintenance work including white/color washing: three calendar months from date of completion.
(b) All new works except earth work: Six calendar months from date of

SOUTH CENTRAL RAILWAY

CONTRACT AGREEMENT OF WORKS

CONTRACT AGREEMENT NO	DATED		
ARTICLES OF AGREEMENT made this	day of	20	
between President of India acting through the Railway	Administration h	ereafter called	
the "Railway" of the one part and	herein a	after called the	
"Contractor" of other part.			
WHEREAS the Contractor has agreed with the	Railway for perfc	ormance of the	
works set forth in the Bill(s) of	Quantities hereto	annexed upon	
the Standard General Conditions of Contract, updated v	vith correction slip	es issued up to	
date of inviting tender or as otherwise specified in	the tender docur	nents and the	
Specifications of updated with correct	ion slips issued	up to date of	
inviting tender or as otherwise specified in the tender	documents and	the applicable	
Standard Schedule of Rates (SSOR) of upda	ated with correction	on slips issued	
up to date of inviting tender or as otherwise specified is	n the tender docu	ments and the	
$Special\ Conditions\ and\ Special\ Specifications, if\ any\ and$	in conformity with	h the drawings	
here-into annexed AND WHEREAS the performance of	the said works is a	an act in which	
the public are interested.			
NOW THIS INDENTURE WITNESSETH that in o	consideration to th	ne payments to	
be made by the Railways, the Contractors will duly per	rform the said wo	rks in the said	
$\mbox{\sc Bill}(s)$ of Quantities set forth and shall execute the same	with great promp	tness, care and	
accuracy in a workman like manner to the satisfaction o	of the Railway and	will complete	
the same in accordance with the said specifications	and said draw	ings and said	
conditions of contract on or before the day of	20 and	d will maintain	
the said works for a period ofCalendar month	s from the certifie	ed date of their	
completion and will observe, fulfill and keep all the cond	litions therein mer	ntioned (which	
shall be deemed and taken to be part of this contract, as	s if the same have	been fully set	
forth herein), AND the Railway, both hereby agree the	nat if the Contrac	ctor shall duly	
perform the said works in the manner aforesaid and obse	erve and keep the	said terms and	
conditions, the Railway will pay or cause to be paid to the			
on the final completion thereof the amount due in respec	ct thereof at the rat	tes specified in	
the Bill(s) of Quantities hereto annexed.			

Contractor	_ (Signature)	Railway: Designation	
Address	(For Pr	resident of India)	
Date		Date	
Signature of Witnesses (to Signature of Contractor) with address: Witnesses :			

FORMAT FOR CERTIFICATE TO BE SUBMITTED / UPLOADED BY TENDERER ALONGWITH THE TENDER DOCUMENTS

I.		(Name	and	designation)	**appointed	as	the
attorne	y/authorized sig	gnatory of the tende	erer (in	cluding its cor	nstituents) ,		
M/s		(herei	nafter	called the tend	lerer) for the p	urpos	se of
the	Tender	documents	fo	r the	work		of
				_as per the ten	der No		of
	_(<i>Railway</i>)**, do	hereby solemnly a	ffirm a	nd state on th	e behalf of the	tend	lerer
includii	ng its constituen	its as under:					

- 1. I/we the tenderer (s) am/are signing this document after carefully reading the contents.
- 2. I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
- 3. I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in. I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
- 4. I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
- 5. I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
- 6. I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
- 7. I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.

- 8. I/we understand that if the contents of the affidavit certificate submitted by us are found to be forged/false or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security besides and may also lead to any other action provided in the contract including banning of business for a period of up to five two years. Further, I/we (insert name of the tenderer) **_____ and all my/our constituents understand that my/our offer shall be summarily rejected.
- 9. I/we also understand that if the contents of the affidavit certificate submitted by us are found to be false/forged or incorrect at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee besides and may also lead to any other action provided in the contract including banning of business for a period of up to five two year.
- 10. I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

SEAL AND SIGNATURE OF THE TENDERER

Place: Dated:

**The contents in Italics are only for guidance purpose. Details as appropriate are to be filled in suitably by tenderer.

This affidavit certificate is to be given by each member of JV or Partners of Partnership firm/LLP/etc.

ACS-1, 14.07.2022

ACS-2, 13.12.2022

ACS-3

ACS-4

ANNEXURE-V(A)

Reference -Para 6.1 of ITT

(This certificate is to be given by attorney/authorized signatory/each member of Partnership firm/Joint Venture (JV)/Hindu Undivided Family (HUF)/Limited Liability Partnership (LLP) etc.)

ACS-2, 13.12.2022

Reference -Para 10.3 & 17.15.3 of Tender Form (Second Sheet) of Annexure I of ITT

TENDERER'S CREDENTIALS (BID CAPACITY) RAILWAY

For tenders having advertised value more than Rs 20 crore wherein eligibility criteria include bid capacity also, the tenderer will be qualified only if its available bid capacity is equal to or more than the total bid value of the present tender. The available bid capacity shall be calculated as under:

Available Bid Capacity = $[A \times N \times 2] - 0.33 \times N \times B$

Where,

A = Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender), taking into account the completed as well as works in progress.

N= Number of years prescribed for completion of work for which bids has been invited.

B = Value of existing commitments and balance amount of ongoing works with the tenderer as on date one month prior to the tender closing date to be completed in next 'N' years. Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started up to the date of inviting of tender.

ACS-1 14.07.2022

Note:

- (a) The Tenderer(s) shall furnish the details of -
 - (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A, and
 - (ii) Existing commitments and balance amount of ongoing works with tenderer as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to tenderer but yet not started up to the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished. The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant. Any certificate issued by Statutory Auditor / CA must include Unique Document Identification Number (UDIN)
- (b) In case if a bidder is JV, the tenderer(s) must furnish the details of

- (i) Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) by each member of JV for calculating A, and
- (ii) Existing commitments and balance amount of ongoing works with each member of JV either in individual capacity or as a member of other JV as per the prescribed proforma of Railway for statement of all works in progress and also the works which are awarded to each member of JV either in individual capacity or as a member of other JV but yet not started up to the date of inviting of tender for calculating B. In case of no works in hand, a 'NIL' statement should be furnished.

The submitted details for (i) and (ii) above should be duly verified by Chartered Accountant.

- (c) Value of a completed work/work in progress/work awarded but yet not started for a Member in an earlier JV shall be reckoned only to the extent of the concerned member's share in that JV for the purpose of satisfying his/her compliance to the above-mentioned bid capacity in the tender under consideration.
- (d) The arithmetic sum of individual "bid capacity" of all the members shall be taken as JV's "bid capacity".
- (e) In case, the tenderer/s failed to submit the above statement along with offer, their/his offer shall be considered as incomplete and will be rejected **summarily**.
- (f) The available bid capacity of tenderer shall be assessed based on the details submitted by the tenderer. In case, the available bid capacity is lesser than estimated cost of work put to tender, his offer shall not be considered even if he has been found eligible in other eligibility criteria/tender requirement.

Para 5 of the Instructions to Tenderers

(Bid Security)

Bank Guarantee Bond from any scheduled commercial bank of India (On non-judicial stamp paper, which should be in the name of the Executing Bank).

President of India, Acting through, Dy.CSTE/Projects/SC South Central Railway,
Dy.CSTE/Projects/SC
South Central Railway
South Central Ranway,
Beneficiary: The Principal Financial Advisor (Construction),
Secunderabad, South Central Railway
Date:
Bank Guarantee Bond No.: Date:
In consideration of the President of India acting through (<i>Designation & address of Contract Signing Authority</i>),
AND
WHEREAS,[Insert Name of the Bank], with its Branch[Insert Address] having its Headquarters office at[Insert Address], hereinafter called the Bank, acting through[Insert Name and Designation of the authorised persons of the Bank], have, at the request of the Bidder, agreed to give guarantee for Bid Security as hereinafter contained, in favour of the Railway:

1. KNOW ALL MEN that by these present that I/We the undersigned [Insert name(s) of authorized representatives of the Bank], being fully authorized to sign and incur obligations for and on behalf of the Bank, confirm that the Bank, hereby, unconditionally and irrevocably guarantee to pay to the Railway full amount in the sum of [Insert required Value of Bid Security] as above stated.

- 2. The Bank undertakes to immediately pay on presentation of demand by the Railway any amount up to and including aforementioned full amount without any demur, reservation or recourse. Any such demand made by the Railway on the Bank shall be final, conclusive and binding, absolute and unequivocal on the Bank notwithstanding any disputes raised/ pending before any Court, Tribunal, Arbitration or any Authority or any threatened litigation by the Bidder or Bank.
- 3. The Bank shall pay the amount as demanded immediately on presentation of the demand by Railway without any reference to the Bidder and without the Railway being required to show grounds or give reasons for its demand of the amount so demanded.
- 4. The guarantee hereinbefore shall not be affected by any change in the constitution of the Bank or in the constitution of the Bidder.
- 5. The Bank agrees that no change, addition, modifications to the terms of the Bid document or to any documents, which have been or may be made between the Railway and the Bidder, will in any way absolve the Bank from the liability under this guarantee; and the Bank, hereby, waives any requirement for notice of any such change, addition or modification made by Railway at any time.
- 7. The Bank Guarantee is unconditional and irrevocable.
- 8. The expressions Bank and Railway herein before used shall include their respective successors and assigns.
- 9. The Bank hereby undertakes not to revoke the guarantee during its currency, except with the previous consent in writing of the Railway. This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No.758.
- 10. The Bank hereby confirms that it is on the SFMS (Structured Financial Messaging System) and shall invariably send the advice of this Bank Guarantee to the following bank details –

11.

IFSC CODE	SBIN000RAIL
IFSC TYPE	BRANCH
BANK NAME	STATE BANK OF INDIA
BRANCH NAME	RAIL

CITY NAME	NAVI SECUNDERABAD
ADDRESS	SECTOR-11, CBD BELAPUR, NAVI SECUNDERABAD
DISTRICT	NAVI SECUNDERABAD
STATE	MAHARASHTRA
BG ENABLED	YES

12. The

Guarantee shall be valid in addition to and without prejudice to any other security Guarantee(s) of Bidder in favour of the Railway. The Bank, under this Guarantee, shall be deemed as Principal Debtor of the Railway.

Date	
Place	Bank's Seal and authorized signature(s)
	[Name in Block letters]
No.]	[Designation with Code
Witness:	[P/Attorney] No.

- 1 Signature, Name & Address & Seal
- 2 Signature, Name& address & Seal

Bank's Seal

[P/Attorney]No.

Note: All italicized text is for guidance on how to prepare this bank guarantee and shall be deleted from the final document.

Reference -Para 10.2 & 17.15.2 of Tender Form (Second Sheet) of Annexure I of ITT

Each Bidder or each member of a JV must fill in this form separately:

NAME OF BIDDER/JV PARTNER:

Annual Contractual Turnover Data for the Previous 3/4 Years (Contractual Payment only)			
Year	Amount Currency	Exchange Rate	Indian National Rupees Equivalent
Averag	e Annual Contractual Tur	nover for last 3 years	

- 1. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover.
- 2. The information supplied shall be substantiated by data in the audited balance sheets and profit and loss accounts for the relevant years in respect of the bidder or all members constituting the bidder.
- 3. Contents of this form should be certified by a Chartered Accountant duly supported by Audited Balance Sheet duly certified by the Chartered Accountant. Any certificate issued by Statutory Auditor / CA must include Unique Document Identification Number (UDIN).

identification (deline).	
	SEAL AND SIGNATURE OF THE BIDDER
Certified that all figures and facts submitte consideration of all observations/notes in A	ed in this form have been furnished after full Auditor's reports.
	(Signature of Chartered Accountant) Name of CA: Registration No:
	(Seal)
n 11	10 c311

Part II

STANDARD GENERAL CONDITIONS OF CONTRACT

- **1. (1) Definitions:** In these Standard General Conditions of Contract, the following terms shall have the meaning assigned hereunder except where the context otherwise requires:
- (a) "Railway" shall mean the President of the Republic of India or the Administrative Officers of the Railway or of the Successor Railway authorized to deal with any matters which these presents are concerned on his behalf.
- (b) "General Manager" shall mean the Officer in-charge of the General Superintendence and Control of the Railway and shall also include Addl. General Manager, the General Manager (Construction) and shall mean and include their successors, of the successor Railway.
- (c) "Chief Engineer" shall mean the Officer in-charge of the Engineering Department of Railway and shall also include Chief Engineer (Construction), Chief Signal & Telecommunication Engineer, Chief Signal & Telecommunication Engineer (Construction), Chief Electrical Engineer, Chief Electrical Engineer (Construction), Chief Mechanical Engineer and shall mean & include their successors, of the Successor Railway.
- (d) "Divisional Railway Manager" shall mean the Officer in-charge of a Division of the Railway and shall mean and include the Divisional Railway Manager of the Successor Railway.
- (e) "Engineer" shall mean the Divisional Engineer or the Executive Engineer, Divisional Signal & Telecom Engineer, Divisional Electrical Engineer, Divisional Mechanical Engineer in executive charge of the works and shall include the superior officers of Open Line and Construction organisations on the Railway of the Engineering, Signal & Telecom, Electrical and Mechanical Departments, i.e. the Senior Divisional Engineer/Deputy Chief Engineer, Senior Divisional Signal & Telecom Engineer / Dy.Chief Signal & Telecom Engineer, Senior Divisional Electrical Engineer / Deputy Chief Electrical Engineer, Senior Divisional Mechanical Engineer and shall mean & include the Engineers of the Successors Railway.
- (f) "Engineer's Representative" shall mean the Assistant Engineer, Assistant Signal & Telecommunication Engineer and Assistant Electrical Engineer, Assistant Mechanical Engineer in direct charge of the works and shall include any Sr. Section/Junior Engineer of Civil Engineering/Signal and Telecommunication Engineering/Mechanical Engineering/Electrical Engineering Departments

- appointed by the Railway and shall mean and include the Engineer's Representative of the Successor Railway.
- (g) "Contractor" shall mean the Person/Firm/LLP/Trust/Co-operative Society or Company whether incorporated or not who enters into the contract with the Railway and shall include their executors, administrators, successors and permitted assigns.
- (h) "Contract" shall mean and include the Agreement, the Work Order, the accepted Bill(s) of Quantities or Chapter(s) of Standard Schedule of Rates (SSOR) of the Railway modified by the tender percentage for items of works quantified, or not quantified, the Standard General Conditions of Contract, the Special Conditions of Contracts, if any; the Drawing, the Specifications, the Special Specifications, if any and Tender Forms, if any.
- (i) "Works" shall mean the works to be executed in accordance with the contract.
- (j) "Specifications" shall mean the Standard Specifications for Materials &Works of Railway as specified by Railway under the authority of the Chief Engineer or as amplified, added to or superseded by Special Specifications, if any.
- (k) Standard Schedule of Rates (SSOR) shall mean the schedule of Rates adopted by the Railway, which includes-
 - 1. "Unified Standard Schedule of Rates of the Railway (USSOR)" i.e. the Standard Schedule of Rates of the Railway issued under the authority of the Chief Engineer from time to time, updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents;
 - 2. "Delhi Schedule Of Rates (DSR)" i.e. the Standard Schedule of Rates published by Director General/ Central Public Works Department, Government of India, New Delhi, as adopted and modified by the Railway under the authority of the Chief Engineer from time to time, updated with correction slips issued up to date of inviting tender or as otherwise specified in the tender documents.
- (l) "Drawing" shall mean the maps, drawings, plans and tracings or prints there of annexed to the contract and shall include any modifications of such drawings and further drawings as may be issued by the Engineer from time to time.
- (m) "Constructional Plant" shall mean all appliances or things of whatsoever nature required for the execution, completion or maintenance of the works or temporary works (as hereinafter defined) but does not include materials or other things intended to form or forming part of the permanent work.

- (n) "Temporary Works" shall mean all temporary works of every kind required for the execution completion and/or maintenance of the works.
- (o) "Site" shall mean the lands and other places on, under, in or through which the works are to be carried out and any other lands or places provided by the Railway for the purpose of the contract.
- (p) "Period of Maintenance" shall mean the specified period of maintenance from the date of completion of the works, as certified by the Engineer.
- (q) 'Contractor's authorized Engineer' shall mean a graduate Engineer or equivalent, having more than 3 years' experience in the relevant field of construction work involved in the contract, duly approved by Engineer.
- (r) Date of inviting tender shall be the date of publishing tender notice on IREPS website if tender is published on website or the date of publication in newspaper in case tender is not published on website.
- (s) "Bill of Quantities" shall mean Schedule of Item(s) included in the tender document along with respective quantities and rates, accepted by the Railway.
- **1. (2) Singular and Plural:** Words importing the singular number shall also include the plural and vice versa where the context requires.
- **1.(3) Headings and Marginal Headings:** The headings and marginal headings in these Standard General Conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof the contract.

GENERAL OBLIGATIONS

2. (1) Execution Co-Relation and Intent of Contract Documents: The contract documents shall be signed in triplicate by the Railway and the Contractor. The contract documents are complementary and what is called for by anyone shall be as binding as if called for by all, the intention of the documents is to include all labour and materials, equipment and transportation necessary for proper execution of work. Materials or works not covered by or properly inferable from any heading or class of the specifications shall not be supplied by the Railway to the Contractors unless distinctly specified in the contract documents. Materials or works described in words which so applied have a well-known technical or trade meaning, shall be held to refer to such recognized standards.

- 2.(2) If a work is transferred from the jurisdiction of one Railway to another Railway or to a Project authority or vice versa while contract is in subsistence, the contract shall be binding on the Contractor and the Successor Railway/Project in the same manner & take effect in all respects as if the Contractor and the Successor Railway/Project were parties thereto from the inception and the corresponding officer or the Competent Authority in the Successor Railway/Project will exercise the same powers and enjoy the same authority as conferred to the Predecessor Railway/Project under the original contract/agreement entered into.
- **2. (3)** If for administrative or other reasons the contract is transferred to the Successor Railway, the contract shall, notwithstanding any things contained herein contrary there to, be binding on the Contractor and the Successor Railway in the same manner and take effect in all respects as if the Contractor and the Successor Railway had been parties thereto from the date of this contract.
- **3. (1)** Law Governing the Contract: The contract shall be governed by the law for the time being in force in the Republic of India.
- 3.(2) Compliance to Regulations and Bye-Laws: The Contractor shall conform to the provision of any statute relating to the works and regulations and bye-laws of any local authority and of any water and lighting companies or undertakings, with whose system the work is proposed to be connected and shall before making any variation from the drawings or the specifications that may be necessitated by so confirming give to the Engineer notice specifying the variation proposed to be made and the reason for making the variation and shall not carry out such variation until he has received instructions from the Engineer in respect thereof. The Contractor shall be bound to give all notices required by statute, regulations or bye-laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.

3.(3) Environmental and Forest clearances:

- The Railway represents and warrants that the environmental and forest clearances pertaining to the work commensurate with the progress of work/agreed programme, will be obtained by Engineer. In the event of any delay in securing respective clearances leading to delay in execution of work, the Contractor shall be entitled to Extension of Time for the period of such delay in accordance with the provisions of Clause-17A(ii).
 - **4. Communications to be in Writing:** All notices, communications, reference and complaints made by the Railway or the Engineer or the Engineer's Representative or the Contractor inter-se concerning the works shall be in writing or *e*-mail on registered *e*-mail IDs i.e. the e mail id provided for correspondence in the contract

agreement, otherwise *e*mail id registered with IREPS and no notice, communication, reference or complaint not in writing or through e-mail, shall be recognized.

- 5. **Service of Notices on Contractors:** The Contractor shall furnish to the Engineer the name, designation and address of his authorized agent and all complaints, notices, communications and references shall be deemed to have been duly given to the Contractor, if delivered to the Contractor or his authorized agent or left at or posted to the address so given and shall be deemed to have been so given in the case of posting on day on which they would have reached such address in the ordinary course of post/ *e*-mail or on the day on which they were so delivered or left. In the case of contract by partners, any change in the constitution of the firm shall be forthwith notified by the Contractor to the Engineer.
- 6. Occupation and Use of Land: No land belonging to or in the possession of the Railway shall be occupied by the Contractor without the permission of the Railway. The Contractor shall not use, or allow to be used the site for any purposes other than that of executing the works. Whenever non-railway bodies/persons are permitted to use railway premises with competent authority's approval, conservancy charges as applicable from time to time may be levied.
- 7. Assignment or Subletting of Contract: The Contractor shall not assign or sublet the contract or any part thereof or allow any person to become interested therein in any manner whatsoever without the special permission in writing of the Chief Engineer, save as provided below. Any breach of this condition shall entitle the Railway to rescind the contract under Clause 62 of these Conditions and also render the Contractor liable for payment to the Railway in respect of any loss or damage arising or ensuing from such cancellation; provided always that execution of the details of the work by petty Contractor under the direct and personal supervision of the Contractor or his agent shall not be deemed to be sub-letting under this clause.

In case Contractor intends to subcontract part of work, he shall submit a proposal in writing seeking permission of Chief Engineer for the same. While submitting the proposal to railway, Contractor shall ensure the following:

- (a) (i) Total value of work to be assigned to sub-contractor(s) shall not be more than 50% of total contract value.
 - (ii) The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract in last 5 years, ending date of submission of proposal by Contractor to Railway, costing not less than 35% value of work to be Sublette, through a works contract. For fulfilment of above, Work Experience Certificate issued by a Govt. Department/Organisation shall be considered. Further, Work Experience Certificate issued by a Public listed company shall be considered provided the company is having average annual turnover of

Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, registered at least 5 years back from the date of submission of proposal by Contractor to Railway and work experience certificate issued by a person authorised by the Public Listed Company to issue such certificates.

Note: for subletting of work costing up to Rs 50 lakh no previous work experience shall be asked for by the Railway.

- (iii)In case contractor submits subcontractor's work experience certificate issued by public listed company, the contractor shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.
- (i) There is no banning of business with the sub-contractor in force over IR.
- (b) The Contractor shall provide to the Engineer a copy of the agreement to be entered into by Contractor with subcontractor. No subcontractor shall be permitted without a formal agreement between Contractor and subcontractor. This agreement shall clearly define the scope of work to be carried out by subcontractor and the terms of payment in clear & unambiguous manner.
- (c) On receipt of approval from Chief Engineer, Contractor shall enter into a formal agreement legally enforceable in Court of Law with subcontractor and submit a copy of the same to the Engineer.
- (d) The Contractor shall intimate to the Engineer not less than 7 days in advance, the intended date of commencement of subcontractor's work.
- (e) Once having entered into above arrangement, Contractor shall discontinue such arrangement, if he intends to do so at his own or on the instructions of Railway, with prior intimation to Chief Engineer.
- (f) The Contractor shall indemnify railway against any claim of subcontractor.
- (g) The Contractor shall release payment to the Sub-contractor(s) promptly and shall endeavour to resolve all issues amicably and speedily with the Sub-contractor(s), so that the execution of work is not affected in any manner whatsoever.
- (h) In addition to issuance of work experience certificate to Contractor, the Engineer, when, based on documents, is satisfied that subcontracted work has been carried out by subcontractor, shall issue work experience certificate to the subcontractor also for the portion of work subcontracted and successfully completed by the subcontractor.

Note: Work Experience Certificate to the subcontractor shall be issued only when the contractor's work is complete and contractor is entitled for the issuance of Work Experience

Certificate. However, in the same contract, when the Chief Engineer, based on documents, is satisfied that the subcontractor has successfully carried out subletted work; without issuance of work experience certificate to subcontractor at this stage, the Chief Engineer can, only once, consider the successfully completed subletted work for the fulfilment of eligibility for further subletting of work to the subcontractor in the same contract. When the contractor's work is complete and contractor is entitled for the issuance of work experience certificate, the subcontractor shall be issued one Work Experience Certificate for the total scope of work executed by the subcontractor in the contract.

- (i) The responsibility of successful completion of work by subcontractor shall lie with Contractor. Subcontracting will in no way relieve the Contractor to execute the work as per terms of the Contract.
- (j) Further, in case Engineer is of the view that subcontractor's performance is not satisfactory, he may instruct the Contractor to remove the subcontractor from the work and Contractor has to comply with the above instructions with due promptness. Contractor shall intimate the actual date of discontinuation of subcontract to Engineer. No claim of Contractor whatsoever on this account shall be entertained by the Railway and this shall be deemed as 'excepted matter' (matter not arbitrable).
- (k) The permitted subcontracting of work by the Contractor shall not establish any contractual relationship between the sub-contractor and the Railway and shall not relieve the Contractor of any responsibility under the Contract.
- 8. Assistance by Railway for the Stores to be obtained by the Contractor: Owing to difficulty in obtaining certain materials (including Tools & Plant) in the market, the Railway may have agreed without any liability therefore to endeavour to obtain or assist the Contractor in obtaining the required quantities of such materials as may be specified in the Tender. In the event of delay or failure in obtaining the required quantities of the aforesaid material, the Contractor shall not be deemed absolved of his own responsibility and shall keep in touch with the day to day position regarding their availability and accordingly adjust progress of works including employment of labour and the Railway shall not in any way be liable for the supply of materials or for the non-supply thereof for any reasons whatsoever nor for any loss or damage arising in consequence of such delay or non-supply.
- **9. Railway Passes:** No free railway passes shall be issued by the Railway to the Contractor or any of his employee/worker.
- **10.** Carriage of Materials: No forwarding orders shall be issued by the Railway for the conveyance of Contractor's materials, tools and plant by train which may be required for use in the works and the Contractor shall pay full freight charges at public tariff rates therefor.

- 11. Use of Ballast Trains: The Railway may agree to allow the Contractor use of the ballast or material trains under such conditions as shall be specially prescribed, provided that the Contractor shall pay for the use thereof charges calculated at public tariff rates on the marked carrying capacity of each vehicle subject to specified minimum charge per day or part of day and provided further that the Contractor shall indemnify the Railway against any claims or damages arising out of the use or misuse thereof and against any liabilities under the Workmen's Compensation Act, 1923 or any statutory amendments thereto.
- 12. Representation on Works: The Contractor shall, when he is not personally present on the site of the works place, keep a responsible agent at the works during working hours who shall on receiving reasonable notice, present himself to the Engineer and orders given by the Engineer or the Engineer's representative to the agent shall be deemed to have the same force as if they had been given to the Contractor. Before absenting himself, the Contractor shall furnish the name and address of his agent for the purpose of this clause and failure on the part of the Contractor to comply with this provision at any time will entitle the Railway to rescind the contract under Clause 62 of these Conditions.
- 13. Relics and Treasures: All gold, silver, oil, other minerals of any description, all precious stones, coins, treasures relics antiquities and other similar things which shall be found in or upon the site shall be the property of the Railway and the Contractor shall duly preserve the same to the satisfaction of the Railway and shall from time to time deliver the same to such person or persons as the Railway may appoint to receive the same.
- 14. Excavated Material: The Contractor shall not sell or otherwise dispose of or remove except for the purpose of this contract, the sand, stone, clay ballast, earth, trees, rock or other substances or materials which may be obtained from any excavation made for the purpose of the works or any building or produced upon the site at the time of delivery of the possession thereof but all the substances, materials, buildings and produce shall be the property of the Railway provided that the Contractor may, with the permission of the Engineer, use the same for the purpose of the works either free of cost or pay the cost of the same at such rates as may be determined by the Engineer.
- 15. Indemnity by Contractors: The Contractor shall indemnify and save harmless the Railway from and against all actions, suit, proceedings, losses, costs, damages, charges, claims and demands of every nature and description brought or recovered against the Railways by reason of any act or omission of the Contractor, his agents or employees, in the execution of the works or in his guarding of the same. All sums payable by way of compensation under any of these conditions shall be considered

as reasonable compensation to be applied to the actual loss or damage sustained, and whether or not any damage shall have been sustained.

16.(1) Security Deposit: The Security Deposit shall be 5% of the contract value. The Bid Security submitted by the Contractor with his tender will be retained/encashed by the Railways as part of security for the due and faithful fulfilment of the contract by the Contractor. Provided further that, if Contractor submits the Cash or Term Deposit Receipt issued from a Scheduled commercial bank of India or irrevocable Bank Guarantee Bond from a Scheduled commercial bank of India, either towards the Full Security Depositor the Part Security Deposit equal to or more than Bid Security, the Railway shall return the Bid Security, to the Contractor.

Balance of Security Deposit may be deposited by the Contractor in cash or Term Deposit Receipt issued from Scheduled commercial bank of India or irrevocable Bank Guarantee bond issued from Scheduled commercial bank of India, or may be recovered at the rate of 6% of the bill amount till the full Security Deposit is recovered. Provided also that in case of defaulting Contractor, the Railway may retain any amount due for payment to the Contractor on the pending "on account bills" so that the amounts so retained (including amount guaranteed through Performance Guarantee) may not exceed 10% of the total value of the contract.

The Irrevocable Bank Guarantee submitted towards Security deposit shall be initially valid up to the stipulated date of Maintenance period plus 60 days and shall be extended from time to time, depending upon extension of contract granted in terms of Clause 17A and 17B of the Standard General Conditions of Contract.

Note: Security Deposit deposited in cash by the Contractor or recovered from the running bills of a Contractor or submitted by contractor as Term Deposit Receipt(s) can be refunded/returned to the contractor, in lieu of irrevocable Bank Guarantee bond issued from scheduled commercial bank of India, to be submitted by him, for an amount equal to or more than the already available Security Deposit, provided however that, in a contract of value less than Rs. 50 Crore, such refund/ return of the already available Security Deposit is permitted up to two times and in a contract of value equal to or more than Rs. 50 Crore, such refund / return of the already available Security Deposit is permitted up to three times.

- **16.(2) (i) Refund of Security Deposit:** Security Deposit mentioned in sub clause (1) above shall be returned to the Contractor along with or after, the following:
 - (a) Final Payment of the Contract as per clause 51.(1) and
 - (b) Execution of Final Supplementary Agreement or Certification by Engineer that Railway has No Claim on Contractor and
 - (c) Maintenance Certificate issued, on expiry of the maintenance period as per clause 50. (1), in case applicable.

- **16. (2) (ii)** Forfeiture of Security Deposit: Whenever the contract is rescinded as a whole under clause 62 (1) of these conditions, the Security Deposit already with railways under the contract shall be forfeited. However, in case the contract is rescinded in part or parts under clause 62 (1) of these conditions, the Security Deposit shall not be forfeited.
- **16.(3)** No interest shall be payable upon the Bid Security and Security Deposit or amounts payable to the Contractor under the Contract, but Government Securities deposited in terms of Sub-Clause 16. (4)(b) of this clause will be payable with interest accrued thereon.

16.(4) Performance Guarantee

The procedure for obtaining Performance Guarantee is outlined below:

(a) The successful bidder shall have to submit a Performance Guarantee (PG) within 21 (Twenty-one) days from the date of issue of Letter of Acceptance (LOA). Extension of time for submission of PG beyond 21 (Twenty-one) days and up to 60 days from the date of issue of LOA may be given by the Authority who is competent to sign the contract agreement. However, a penal interest of 12% per annum shall be charged for the delay beyond 21(Twenty-one) days, i.e. from 22ndday after the date of issue of LOA. Further, if the 60thday happens to be a declared holiday in the concerned office of the Railway, submission of PG can be accepted on the next working day.

In all other cases, if the Contractor fails to submit the requisite PG even after 60 days from the date of issue of LOA, the contract is liable to be terminated. In case contract is terminated railway shall be entitled to forfeit Bid Security and other dues payable to the contractor against that particular contract, subject to maximum of PG amount. In case a tenderer has not submitted Bid Security on the strength of their registration as a Startup recognized by Department of Industrial Policy and Promotion (DIPP) under Ministry of Commerce and Industry, DIPP shall be informed to this effect.

The failed Contractor shall be debarred from participating in re-tender for that work.

- (b) The successful bidder shall submit the Performance Guarantee (PG) in any of the following forms, amounting to 5% of the original contract value:-
 - (i) A deposit of Cash;
 - (ii) Irrevocable Bank Guarantee;
 - (iii) Insurance Surety Bond as per Annexure-XVII.

Note:

- 1. The provision of Insurance Surety Bond shall be for all contracts having DOC within 36 months only.
- 2. In case DOC extends beyond 36 months, fresh Insurance Surety Bond or any other form of Performance Guarantee prescribed in GCC for the balance amount shall be submitted by agency, otherwise necessary action will be taken as per terms of Agreement.
- (iv) Government Securities including State Loan Bonds at 5% below the market value;
- (v) Pay Orders and Demand Drafts tendered by any Scheduled Commercial Bank of India;
- (vi) Guarantee Bonds executed or Deposits Receipts tendered by any Scheduled Commercial Bank of India;
- (vii) Deposit in the Post Office Saving Bank;
- (viii) Deposit in the National Savings Certificates;
- (ix) Twelve years National Defence Certificates;
- (x) Ten years Defence Deposits;
- (xi) National Defence Bonds and
- (xii) Unit Trust Certificates at 5% below market value or at the face value whichever is less. Also, FDR in favour of FA&CAO (free from any encumbrance) may be accepted.
- (c) The Performance Guarantee shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This P.G. shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case, the time for completion of work gets extended, the Contractor shall get the validity of P.G. extended to cover such extended time for completion of work plus 60 days.
- (d) The value of PG to be submitted by the Contractor is based on original contract value and shall not change due to subsequent variation(s) in the original contract value.
- (e) The Performance Guarantee (PG) shall be released after physical completion of the work based on 'Completion Certificate' issued by the competent authority stating that the Contractor has completed the work in all respects satisfactorily.
- (f) Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.
 - (g)The Engineer shall not make a claim under the Performance Guarantee except for amounts to which the President of India is entitled under the contract (not

withstanding and/or without prejudice to any other provisions in the contract agreement) in the event of:

- (i) Failure by the Contractor to extend the validity of the Performance Guarantee as described herein above, in which event the Engineer may claim the full amount of the Performance Guarantee.
- (ii) Failure by the Contractor to pay President of India any amount due, either as agreed by the Contractor or determined under any of the Clauses/Conditions of the Agreement, within 30 days of the service of notice to this effect by Engineer.
- (iii) The Contract being determined or rescinded under clause 62 of these conditions.
- Force Majeure Clause: If at any time, during the continuance of this contract, the 17. performance in whole or in part by either party of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, acts of public enemy, civil commotion, sabotage, serious loss or damage by fire, explosions, epidemics/pandemics, strikes, lockouts or acts of God (hereinafter, referred to events) provided, notice of the happening of any such event is given by either party to the other within 30 days from the date of occurrence thereof, neither party shall by reason of such event, be entitled to terminate this contract nor shall either party have any claim for damages against the other in respect of such non-performance or delay in performance, and works under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, and the decision of the Engineer as to whether the works have been so resumed or not shall be final and conclusive, PROVIDED FURTHER that if the performance in whole or in part of any obligation under this contract is prevented or delayed by reason of any such event for a period exceeding 120 days, either party may at its option terminate the contract by giving notice to the other party.
 - 17A Extension of Time in Contracts: Subject to any requirement in the contract as to completion of any portion or portions of the works before completion of the whole, the Contractor shall fully and finally complete the whole of the works comprised in the contract (with such modifications as may be directed under conditions of this contract) by the date entered in the contract or extended date in terms of the following clauses:
 - (i) Extension due to Modification: If any modifications have been ordered which in the opinion of the Engineer have materially increased the magnitude of the work, then such extension of the contracted date of completion may be granted as shall appear to the Engineer to be reasonable in the circumstances, provided moreover that the Contractor shall be responsible for requesting such extension of the date as may be considered necessary as soon as the cause thereof shall arise.
 - (ii) Extension for Delay not due to Railway or Contractor: If in the opinion of the Engineer, the progress of work has any time been delayed by any act or neglect of Railway's employees or by other Contractor employed by the Railway under Sub-Clause (4) of Clause 20 of these Conditions or in executing the work not forming

part of the contract but on which Contractor's performance necessarily depends or by reason of proceeding taken or threatened by or dispute with adjoining or to neighbouring owners or public authority arising otherwise through the Contractor's own default etc. or by the delay authorized by the Engineer pending arbitration or in consequences of the Contractor not having received in due time necessary instructions from the Railway for which he shall have specially applied in writing to the Engineer or his authorized representative then upon happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer within 15 days of such happening, but shall nevertheless make constantly his best endeavours to bring down or make good the delay and shall do all that may be reasonably required of him to the satisfaction of the Engineer to proceed with the works. The Contractor may also indicate the period for which the work is likely to be delayed and shall be bound to ask for necessary extension of time.

(iii) Extension for Delay due to Railways: In the event of any failure or delay by the Railway to hand over the Contractor possession of the lands necessary for the execution of the works or to give the necessary notice to commence the works or to provide the necessary drawings or instructions or any other delay caused by the Railway due to any other cause whatsoever, then such failure or delay shall in no way affect or vitiate the contract or alter the character thereof or entitle the Contractor to damages or compensation therefor, but in any such case, the Railway may grant such extension or extensions of the completion date as may be considered reasonable.

The Contractor shall indicate the period for which the work is likely to be delayed and shall seek extension of time as may be considered necessary under clause 17A(i) or/and 17A(ii) or/ and 17A(iii) above, as soon as the cause thereof shall arise and, in any case, not less than one month 15 days before the expiry of the date fixed for completion of the works. The Engineer shall consider the same and shall grant and communicate such extension of time as in his opinion is reasonable having regard to the nature and period of delay and the type and quantum of work affected thereby. No other compensation shall be payable for works so carried forward to the extended period of time; the same rates, terms and conditions of contract being applicable, as if such extended period of time was originally provided in the original contract itself.

The non-submission of request for extension or submission of request within less than one month **15 days** before the expiry of the date fixed for completion of the works, shall make him ineligible for extension under these sub clauses, subject to final decision of Engineer.

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17B Extension of Time with Liquidated Damages (LD) for delay due to Contractor: The time for the execution of the work or part of the works specified in the contract documents shall be deemed to be the essence of the contract and the works must be completed not later than the date(s) as specified in the contract. If the Contractor fails to complete the works within the time as specified in the

contract for the reasons other than the reasons specified in Clause 17 and 17A, the Railway may, if satisfied that the works can be completed by the Contractor within reasonable short time thereafter, allow the Contractor for further extension of time (Proforma at Annexure-VII) as the Engineer may decide. On such extension the Railway will be entitled without prejudice to any other right and remedy available on that behalf, to recover from the Contractor as agreed damages and not by way of penalty for each week or part of the week, a sum calculated at the *rate of Liquidated Damages as decided by Engineer, between 0.05% to 0.30 % of contract value of the works for each week or part of the week.* following rates of the contract value of the works.

For the purpose of this Clause, the contract value of the works shall be taken as value of work as per contract agreement including any supplementary work order/contract agreement issued. Provided also, that the total amount of liquidated damages under this condition shall not exceed 5% of the contract value or of the total value of the item or groups of items of work for which a separate distinct completion period is specified in the contract.

S.No.	Duration of extension of time under Clause 17B	Rate of Liquidated Damages
(i)	Up to Twenty Five percent of original period of completion including period of extension of time granted under Section 17A(i)	As decided by Engineer, between 0.01% to 0.05% of contract value for each week or part of the week
(ii)	Above Twenty Five percent but up to Fifty percent of original period of completion including period of extension of time granted under Section 17A(i)	0.10 % of contract value for each week or part of the week
(iii)	Above Fifty percent of original period of completion including period of extension of time granted under Section 17A(i)	0.30 % of contract value for each week or part of the week

Provided further, that if the Railway is not satisfied that the works can be completed by the Contractor and in the event of failure on the part of the contractor to complete the work within further extension of time allowed as aforesaid, the Railway shall be entitled without prejudice to any other right or remedy available in that behalf, to appropriate the contractor's Security Deposit and rescind the contract under Clause 62 of these Conditions, whether or not actual damage is caused by such default.

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NOTE:

In a contract, where extension(s) of time have been allowed once under clause 17B, further request(s) for extension of time under clause 17A can also be considered under exceptional circumstances. Such extension(s) of time under clause 17A shall be without any Liquidated damages, but the Liquidated damages already recovered during extension(s) of time granted previously under clause 17B shall not be waived. However, Price variation during such extension(s) shall be dealt as applicable for extension(s) of time under clause 17B.

17C Bonus for Early Completion of Work: In open tenders having advertised value more than Rs.50 crore and original period of completion 12 months or more, when there is no reduction in original scope of work by more than 10%, and no extension granted on either railway or Contractor's account, Contractor shall be entitled for a bonus of 1% for each 30 days early completion of work. The period of less than 30 days shall be ignored while working out bonus. The maximum bonus shall be limited to 5% of original contract value. The completion date shall be reckoned as the date of issuance of completion certificate by Engineer.

- 18.(1) Illegal Gratification: Any bribe, commission, gift or advantage given, promised or offered by or on behalf of the Contractor or his partner or agent or servant or anyone on his behalf, to any officer or employee of the Railway or to any person on his behalf in relation to obtaining or execution of this or any other contract with the Railway shall, in addition to any criminal liability which he may incur, subject Contractor to the rescission of the contract and all other contracts with the Railway and to the payment of any loss or damage resulting from such decision and the Railway shall be entitled to deduct the amounts so payable from the Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.
- 18.(2) The Contractor shall not lend or borrow from or have or enter into any monitory dealings or transactions either directly or indirectly with any employee of the Railway and if he shall do so, the Railway shall be entitled forthwith to rescind the contract and all other contracts with the Railway. Any question or dispute as to the commission of any such offence or compensation payable to the Railway under this Clause shall be settled by the General Manager of the Railway, in such a manner as he shall consider fit & sufficient and his decision shall be final & conclusive. In the event of rescission of the contract under this Clause, the Contractor will not be paid any compensation whatsoever except payments for the work done up to the date of rescission.

EXECUTION OF WORKS

- **19.(1) Contractor's understanding:** It is understood and agreed that the Contractor has, by careful examination, satisfied himself as to the nature and location of the work, the conformation of the ground, the character, quality and quantity of the materials to be encountered, the character of equipment and facilities needed preliminary to and during the progress of the works, the general and local conditions, the labour conditions prevailing therein and all other matters which can in any way affect the works under the contract.
- **19.(2) Commencement of Works:** The Contractor shall commence the works within 15 days after the receipt by him of an order in writing to this effect from the Engineer and shall proceed with the same with due expedition and without delay
 - 19.(3) Accepted Programme of Work: The Contractor who has been awarded the work shall as soon as possible but not later than 30 days after the date of receipt of the acceptance letter in respect of contracts with initial completion period of two years or less or not later than 90 days for other contracts have to submit the detailed programme of work indicating the time schedule of various items of works in the form of Bar Chart/PERT/CPM. He shall also submit the details of organisation (in terms of labour and supervisors), plant and machinery that he intends to utilize (from time to time) for execution of the work within stipulated date of completion. The programme of work amended as necessary by discussions with the Engineer, shall be treated as the agreed programme of the work for the purpose of this contract and the Contractor shall endeavour to fulfill this programme of work. The progress of work will be watched accordingly and the liquidated damages will be with reference to the overall completion date. Nothing stated herein shall preclude the Contractor in achieving earlier completion of item or whole of the works than indicated in the programme.

In Contracts for works of New Line/Gauge Conversion/Doubling/Railway Electrification, finalized through Tenders having advertised value more than Rs.50croresRs.100 crores, the Contractor shall submit a detailed time programme to the Engineer within 30 days after issue of LOA. The program shall include the physical and Financial Progress vis-à-vis program and forecast cash flow adopting Project Management Software such as Primavera/Sure Track/MS Project etc. The program must identify the milestones, interface requirements and program reporting elements. The Contractor shall supply, free of cost one set of authorized software to the Engineer and the soft copy of structured program for the project. This shall be updated every month. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress. Each programme shall include:

The order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage, Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing, each of these stages for work by each Subcontractor, if any, the sequence and timing of inspections and tests specified in the Contract, and a supporting report which includes:

A general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the Works, and

details showing the Contractor's reasonable estimate for the number of each class of Contractor's Personnel & Equipment, required on the Site for each major stage.

Unless the Engineer, within 21 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Engineer shall be entitled to rely upon the programme when planning their activities.

If, at any time, the Engineer gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contract or to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Engineer within 15 days in accordance with this Sub-Clause.

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19.(4) Setting out of Works: The Contractor shall be responsible for the correct setting out of all works in relation to original points, lines and levels of reference at his cost. The Contractor shall execute the work true to alignment, grade, levels and dimensions as shown in the drawing and as directed by the Engineer's representative and check these at frequent intervals. The Contractor shall provide all facilities like labour and instruments and shall co-operate with the Engineer's representative for checking of all alignment, grades, levels and dimensions. If, at any time, during the progress of the works any error appear or arise in any part of the work, the Contractor, on being required so to do by the Engineer's representative shall, at his own cost rectify such errors, to the satisfaction of the Engineer's representative.

Such checking shall not absolve the Contractor of his own responsibility of maintaining accuracy in the work. The Contractor shall carefully protect and preserve all bench marks, sight rails, pegs and other things used in setting out the work.

- **20.(1) Compliance to Engineer's Instructions:** The Engineer shall direct the sequence in which the several parts of the works shall be executed and the Contractor shall execute without delay all orders given by the Engineer from time to time; but the Contractor shall not be relieved thereby from responsibility for the due performance of the works in all respects.
- **20.(2) Alterations to be Authorized:** No alterations in or additions to or omissions or abandonment of any part of the works shall be deemed authorised, except under written instructions from the Engineer.
 - **20.(3)** Extra Works: Should works over and above those included in the contract require to be executed at the site, the Contractor shall have no right to be entrusted with the execution of such works which may be carried out by another Contractor or Contractors or by other means at the option of the Railway.
 - 20.(4) Separate Contracts in Connection with Works: The Railway shall have the right to let other contracts in connection with the works. The Contractor shall afford other Contractors reasonable opportunity for the storage of their materials and the execution of their works and shall properly connect and coordinate his work with theirs. If any part of the Contractor's work depends upon proper execution or result upon the work of another Contractor(s), the Contractor shall inspect and promptly report to the Engineer any defects in such works that render it unsuitable for such proper execution and results. The Contractor's failure so-to inspect and report shall constitute an acceptance of the other Contractor's work as fit and proper for the reception of his work, except as to defects which may develop in the other Contractor's work after the execution of his work.
 - **21. Instruction of Engineer's Representative:** Any instructions or approval given by the Engineer's representative to Contractor in connection with the works shall bind the Contractor as though it had been given by the Engineer provided always as follows:
 - (a) Failure of the Engineer's representative to disapprove any work or materials shall not prejudice the power of the Engineer thereafter to disapprove such work or material and to order the removal or breaking up thereof.
 - (b) If the Contractor shall be dissatisfied by reason of any decision of the Engineer's representative, he shall be entitled to refer the matter to the Engineer who shall there upon confirm or vary such decision.
- **22.(1)** Adherence to Specifications and Drawings: The site and the detailed drawings shall be made available to the contractor commensurate with the accepted programme of work submitted under clause 19(3). The whole of the works shall be executed in perfect conformity with the specifications and drawings of the contract. If Contractor performs any works in a manner contrary to the specifications or drawings or any of them and without such reference to the Engineer, he shall bear all the costs arising or ensuing therefrom and shall be responsible for all loss to the Railway.

- **22.(2) Drawings and Specifications of the Works:** The Contractor shall keep one copy of Drawings and Specifications at the site, in good order, and such contract documents as may be necessary, available to the Engineer or the Engineer's Representative.
- **22.(3) Ownership of Drawings and Specifications:** All Drawings and Specifications and copies thereof furnished by the Railway to the Contractor are deemed to be the property of the Railway. They shall not be used on other works and with the exception of the signed contract set, shall be returned by the Contractor to the Railway on completion of the work or termination of the Contract.
- **22.(4)** Compliance with Contractor's Request for Details: The Engineer shall furnish with reasonable promptness, after receipt by him of the Contractor's request, additional instructions by means of drawings or otherwise, necessary for the proper execution of the works or any part thereof. All such drawings and instructions shall be consistent with the Contract Documents and reasonably inferable there from.
- **22.(5) Meaning and Intent of Specification and Drawings:** If any ambiguity arises as to the meaning and intent of any portion of the Specifications and Drawings or as to execution or quality of any work or material, or as to the measurements of the works the decision of the Engineer thereon shall be final subject to the appeal (within 7 days of such decision being intimated to the Contractor) to the Chief Engineer who shall have the power to correct any errors, omissions, or discrepancies in aforementioned items and whose decision in the matter in dispute or doubt shall be final and conclusive.
 - 23. Working during Night: The Contractor shall not carry out any work between sunset and sun-rise without the previous permission of the Engineer. However, if the Engineer is satisfied that the work is not likely to be completed in time except by resorting to night work, he may order the same without confirming any right on the Contractor for claiming any extra payment for the same.
 - 24. Damage to Railway Property or Private Life and Property: The Contractor shall be responsible for all risk to the work and for trespass and shall make good at his own expense all loss or damage whether to the works themselves or to any other property of the Railway or the lives, persons or property of others from whatsoever cause in connection with the works until they are taken over by the Railway, although all reasonable and proper precautions may have been taken by the Contractor. In case the Railway shall be called upon to make good any costs, loss or damages, or to pay any compensation, including that payable under the provisions of the Workmen's Compensation Act or any statutory amendments thereof to any person or persons sustaining damages as aforesaid by reason of any act, or any negligence or omissions on the part of the Contractor; the amount of any costs or charges including costs and charges in connection with legal proceedings, which

the Railway may incur in reference thereto, shall be charged to the Contractor. The Railway shall have the power and right to pay or to defend or compromise any claim of threatened legal proceedings or in anticipation of legal proceedings being instituted consequent on the action or default of the Contractor, to take such steps as may be considered necessary or desirable to ward off or mitigate the effect of such proceedings, charging to Contractor, as aforesaid; any sum or sums of money which may be paid and any expenses whether for reinstatement or otherwise which may be incurred and the propriety of any such payment, defence or compromise, and the incurring of any such expenses shall not be called in question by the Contractor.

25. Sheds, Storehouses and Yards: The Contractor shall at his own expense provide himself with sheds, storehouses and yards in such situations and in such numbers as in the opinion of the Engineer is requisite for carrying on the works and the Contractor shall keep at each such sheds, storehouses and yards a sufficient quantity of materials and plant in stock as not to delay the carrying out of the works with due expedition and the Engineer and the Engineer's representative shall have free access to the said sheds, store houses and yards at any time for the purpose of inspecting the stock of materials or plant so kept in hand, and any materials or plant which the Engineer may object to shall not be brought upon or used in the works, but shall be forthwith removed from the sheds, storehouses or yards by the Contractor. The Contractor shall at his own expenses provide and maintain suitable mortar mills, soaking vats or any other equipment necessary for the execution of the works.

26. Provision of Efficient and Competent Staff at Work Sites by the Contractor:

- **26.1** The Contractor shall place and keep on the works at all times efficient and competent staff to give the necessary directions to his workmen and to see that they execute their work in sound & proper manner and shall employ only such supervisors, workmen & labourers in or about the execution of any of these works as are careful and skilled in the various trades.
- **26.2** The Contractor shall at once remove from the works any agents, permitted subcontractor, supervisor, workman or labourer who shall be objected to by the Engineer and if and whenever required by the Engineer, he shall submit a correct return showing the names of all staff and workmen employed by him.
- **26.3** In the event of the Engineer being of the opinion that the Contractor is not employing on the works a sufficient number of staff and workmen as is necessary for proper completion of the works within the time prescribed, the Contractor shall forthwith on receiving intimation to this effect deploy the additional number of staff and labour as specified by the Engineer within seven days of being so required and

failure on the part of the Contractor to comply with such instructions will entitle the Railway to rescind the contract under Clause 62 of these conditions.

26A. Deployment of Qualified Engineers at Work Sites by the Contractor:

- **26A.1** The Contractor shall also employ qualified Graduate Engineer(s) or equivalent, or qualified Diploma Engineer(s), as prescribed in the tender documents.
- **26A.2** In case the Contractor fails to employ the Engineer, as aforesaid in Para 26A.1, he shall be liable to pay liquidated damages at the rates, as prescribed in the tender documents.
- 26A.3 No. of qualified Engineers required to be deployed by the Contractor for various activities contained in the works contract shall be specified in the tender documents as 'Special Condition of Contract'.
- 27.(1) Workmanship and Testing: The whole of the works and/or supply of materials specified and provided in the contract or that may be necessary to be done in order to form and complete any part thereof shall be executed in the best and most substantial workman like manner with materials of the best and most approved quality of their respective kinds, agreeable to the particulars contained in or implied by the specifications and as referred to in and represented by the drawings or in such other additional particulars, instructions and drawings given during the carrying on of the works and to the entire satisfaction of the Engineer according to the instructions and directions which the Contractors may from time to time receive from the Engineer. The materials may be subjected to tests by means of such machines, instruments and appliances as the Engineer may direct and wholly at the expense of the Contractor.
- **27.(2) Removal of Improper Work and Materials:** The Engineer or the Engineer's Representative shall be entitled to order from time to time:
 - (a) The removal from the site, within the time specified in the order, of any materials which in his opinion are not in accordance with the specifications or drawings.
 - (b) The substitution of proper and suitable materials, and
 - (c) The removal and proper re-execution, notwithstanding any previous tests thereof or on account payments therefor, of any work which in respect of materials or workmanship is not in his opinion in accordance with the specifications and in case of default on the part of the Contractor in carrying out such order, the Railway shall be entitled to rescind the contract under Clause 62 of these conditions.
 - (d) The provision of Construction and Demolition Waste Management Rule 2016 issued by Ministry of Environment Forest and Climate Change dated 29.03.2016 and published in the Gazette of India, Part II, Section -3, Sub-section (ii) are binding

- upon the Contractor. Contractor shall implement these provisions at worksites, for which no extra payment will be payable.
- **28. Facilities for Inspection:** The Contractor shall afford the Engineer and the Engineer's Representative every facility for entering in and upon every portion of the work at all hours for the purpose of inspection or otherwise and shall provide all labour, materials, planks, ladders, pumps, appliances and things of every kind required for the purpose and the Engineer and the Engineer's Representative shall at all times have free access to every part of the works and to all places at which materials for the works are stored or being prepared.
- 29. Examination of Work before Covering Up: The Contractor shall give 7 days' notice to the Engineer or the Engineer's Representative whenever any work or materials are intended to be covered up in the earth, in bodies or walls or otherwise to be placed beyond the reach of measurements in order that the work may be inspected or that correct dimensions may be taken before being so covered, placed beyond the reach of measurement in default whereof, the same shall at the option of the Engineer or the Engineer's Representative be uncovered and measured at the Contractor's expense or no allowance shall be made for such work or materials.
- 30. Temporary Works: All temporary works necessary for the proper execution of the works shall be provided and maintained by the Contractor and subject to the consent of the Engineer shall be removed by him at his expenses when they are no longer required and, in such manner, as the Engineer shall direct. In the event of failure on the part of the Contractor to remove the temporary works, the Engineer will cause them to be removed and cost as increased by supervision and other incidental charges shall be recovered from the Contractor. If temporary huts are provided by the Contractor on the Railway land for labour engaged by him for the execution of works, the Contractor shall arrange for handing over vacant possession of the said land after the work is completed; if the Contractor's labour refuse to vacate, and have to be evicted by the Railway, necessary expenses incurred by the Railway in connection therewith shall be borne by the Contractor.
- **31.(1) Contractor to Supply Water for Works:** Unless otherwise provided in the Contract, the Contractor shall be responsible for the arrangements to obtain supply of water necessary for the works.
- **31.(2) Water Supply from Railway System:** The Railway may supply to the Contractor part or whole of the quantity of the water required for the execution of works from the Railway's existing water supply system at or near the site of works on specified terms and conditions and at such charges as shall be determined by the Railway and payable by the Contractor, provided that the Contractor shall arrange, at his own expense, to effect the connections and lay additional pipelines and accessories on

- the site and that the Contractor shall not be entitled to any compensation for interruption of failure of the water supply.
- **31.(3) Water Supply by Railway Transport:** In the event of the Railway arranging supply of water to the Contractor at or near the site of works by travelling water tanks or other means, the freight and other charges incurred thereby, including demurrage charges that may be levied, shall be paid by the Contractor in addition to the charges referred to in Sub-Clause (2) of the Clause provided that the Contractor shall not be entitled to any compensation for interruption or failure of the water supply.
- **31.(4)(a)** Contractor to Arrange Supply of Electric Power for Works: Unless otherwise provided in the contract, the Contractor shall be responsible for arrangements to obtain supply of Electric Power for the works.
 - (b) Electric Supply from the Railway System: The Railway may supply to the Contractor part or whole of the electric power wherever available and possible, required for execution of works from the Railway's existing electric supply systems at or near the site of works on specified terms and conditions and such charges as shall be determined by the Railway and payable by the Contractor provided the cost of arranging necessary connections to the Railway's Electric Supply systems and laying of underground/overhead conductor, circuit protection, electric power meters, transmission structure, shall be borne by the Contractor and that the Contractor shall not be entitled to any compensation for interruption or failure of the Electric supply system.
 - 32. Property in Materials and Plant: The materials and plant brought by the Contractor upon the site or on the land occupied by the Contractor in connection with the works and intended to be used for the execution thereof shall immediately be deemed to be the property of the Railway. Such of them as during the progress of the works are rejected by the Engineer under Clause 25 of these conditions or are declared by him not to be needed for the execution of the works or such as on the grant of the certificate of completion remain unused shall immediately on such rejection, declaration or grant cease to be deemed the property of the Railway and the Contractor may then (but not before) remove them from the site or the said land. This clause shall not in any way diminish the liability of the Contractor nor shall the Railway be in any way answerable for any loss or damage which may happen to or in respect of any such materials or plant either by the same being lost, stolen, injured or destroyed by fire, tempest or otherwise.
 - **33.(1)** Tools, Plant and Materials Supplied by Railway: The Contractor shall take all reasonable care of all tools, plant and materials or other property whether of a like description or not belonging to the Railway and committed to his charge for the

purpose of the works and shall be responsible for all damage or loss caused by him, his agents, permitted sub-contractor, or his workmen or others while they are in his charge. The Contractors shall sign accountable receipts for tools, plants and materials made over to him by the Engineer and on completion of the works shall hand over the unused balance of the same to the Engineer in good order and repair, fair wear and tear excepted, and shall be responsible for any failure to account for the same or any damage done thereto.

- **33.(2) Hire of Railway's Plant:** The Railway may hire to the Contractor such plant as concrete mixers, compressors and portable engines for use during execution of the works on such terms as may be specified in the special conditions or in a separate agreement for Hire of Plant.
- **34.(1) Precaution During Progress of Works:** During the execution of works, unless otherwise specified, the Contractor shall at his own cost provide the materials for and execute all shoring, timbering and strutting works as is necessary for the stability and safety of all structures, excavations and works and shall ensure that no damage, injury or loss is caused or likely to be caused to any person or property.
- **34.(2) Roads and Water Courses:** Existing roads or water courses shall not be blocked cut through, altered, diverted or obstructed in any way by the Contractor, except with the permission of the Engineer. All compensations claimed for any unauthorized closure, cutting through, alteration, diversion or obstruction to such roads or water courses by the Contractor or his agent or his staff shall be recoverable from the Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.
- **34.(3) Provision of Access to Premises:** During progress of work in any street or thoroughfare, the Contractor shall make adequate provision for the passage of traffic, for securing safe access to all premises approached from such street or thoroughfare and for any drainage, water supply or means of lighting which may be interrupted by reasons of the execution of the works and shall react and maintain at his own cost barriers, lights and other safeguards as prescribed by the Engineer, for the regulation of the traffic, and provide watchmen necessary to prevent accidents. The works shall in such cases be executed night and day, if so ordered by the Engineer and with such vigour so that the traffic way be impeded for as short a time as possible.
- **34.(4) Safety of Public:** The Contractor shall be responsible to take all precautions to ensure the safety of the public whether on public or railway property and shall post such look out men as may, in the opinion of the Engineer, be required to comply with regulations appertaining to the work. Contractor shall ensure placement of

- barricading / partitions at the place of work to ensure safety of habitants of adjacent area, failing which Engineer may advise stoppage of work as per his discretion.
- **34.(5) Display Board**: The Contractor shall be responsible for displaying the details of works i.e. name of work, approximate cost, expected date of completion, name and address of the Contractor and address of Engineer on a proper steel Board of size not less than $1 \text{m} \times 1 \text{m}$.
- 35. Use of Explosives: Explosives shall not be used on the works or on the site by the Contractor without the permission of the Engineer and then also only in the manner and to the extent to which such permission is given. Where explosives are required for the works, they shall be stored in a special magazine to be provided by and at the cost of the Contractor in accordance with the Explosive Rules. The Contractor shall obtain the necessary license for the storage and the use of explosives. All operations in which or for which explosives are employed shall be at the sole risk and responsibility of the Contractor and the Contractor shall indemnify the Railway in respect thereof.
- **36.(1) Suspension of Works:** The Contractor shall on the order of the Engineer, suspend the progress of the works or any part thereof for such time or times and in such manner as the Engineer may consider necessary and shall during such suspension properly protect and secure the work so far as is necessary in the opinion of the Engineer. If such suspension is:
 - (a) Provided for in the contract, or
 - (b) Necessary for the proper execution of the works or by the reason of weather conditions or by some default on the part of the Contractor, and or
 - (c) Necessary for the safety of the works or any part thereof, or
 - (d) Necessary for the safety of adjoining public or other property or safety of the public or workmen or those who have to be at the site, or
 - (e) Necessary to avoid disruption of traffic and utilities, as also to permit fast repair and restoration of any damaged utilities, or
 - (f) Due to instruction of The National Green Tribunal or any other statutory authority due to high level of pollution in the city of worksite.
- 36.(2) The Contractor shall not be entitled to the extra costs, if any, incurred by him during the period of suspension of the works, but in the event of any suspension ordered by the Engineer for reasons other than aforementioned and when each such period of suspension exceeds 14 days, the Contractor shall be entitled to such extension of time for completion of the works as the Engineer may consider proper having regard to the period or periods of such suspensions and to such compensations as

the Engineer may consider reasonable in respect of salaries or wages paid by the Contractor to his employees during the periods of such suspension.

36.(3) Suspension Lasting More than 3 Months: If the progress of the works or any part thereof is suspended on the order of the Engineer for more than three months at a time, the Contractor may serve a written notice on the Engineer requiring permission within 15 days from the receipt thereof to proceed with the works or that part thereof in regard to which progress is suspended and if such permission is not granted within that time the Contractor by further written notice so served may, but is not bound to, elect to treat the suspension where it affects part only of the works as an omission of such part or where it affects the whole of the works, as an abandonment of the contract by the Railway.

37. Rates for Items of Works:

(i) The rates, entered in the accepted Bill(s) of Quantities of the Contract are intended to provide for works duly and properly completed in accordance with the General and Special (if any) Conditions of the Contract and the Specifications and drawings together with such enlargements, extensions, diminutions, reductions, alterations or additions as may be ordered in terms of Clause 42 of these conditions and without prejudice to the generality thereof and shall be deemed to include and cover superintendence and labour, supply, including full freight of materials, stores, patterns, profiles, moulds, fittings, centerings, scaffolding, shoring props, timber, machinery, barracks, tackle, roads, pegs, posts, tools and all apparatus and plant required on the works, except such tools, plant or materials as may be specified in the contract to be supplied to the Contractor by the Railway, the erection, maintenance and removal of all temporary works and buildings, all watching, lighting, bailing, pumping and draining, all prevention of or compensation for trespass, all barriers and arrangements for the safety of the public or of employees during the execution of works, all sanitary and medical arrangements for labour camps as may be prescribed by the Railway, the setting of all work and of the construction, repair and upkeep of all center lines, bench marks and level pegs thereon, site clearance, all fees duties, royalties, rent and compensation to owners for surface damage or taxes and impositions payable to local authorities in respect of land, structures and all material supplied for the work or other duties or expenses for which the Contractor may become liable or may be put to under any provision of law for the purpose of or in connection with the execution of the contract and all such other incidental charges or contingencies as may have been specially provided for in the Specifications.

However, if rates of existing GST or cess on GST for Works Contract is increased or any new tax / cess on Works Contract is imposed by Statute after the date of opening of tender but within the original date of completion/date of completion extended

under clause 17 & 17A and the Contractor thereupon properly pays such taxes/cess, the Contractor shall be reimbursed the amount so paid.

Further, if rates of existing GST or cess on GST for Works Contract is decreased or any tax/cess on Works Contract is decreased / removed by Statute after the date of opening of tender, the reduction in tax amount shall be recovered from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.

38. Demurrage and Wharfage Dues: Demurrage charges calculated in accordance with the scale in force for the time being on the Railway and incurred by the Contractor failing to load or unload any goods or materials within the time allowed by the Railway for loading as also wharfage charges, of materials not removed in time, as also charges due on consignments booked by or to him shall be paid by the Contractor, failing which such charges shall be debited to the Contractor's account in the hands of the Railway and shall be deducted from any sums which may become due to him in terms of the contracts.

39.(1) Rates for Extra Item(s) of Works:

(a) Standard Schedule of Rates (SSOR) Items: Any item of work carried out by the Contractor on the instructions of the Engineer which is not included in the accepted Bill(s) of Quantities but figures in the Standard Schedule of Rates (SSOR), shall be executed at the rates set forth in the "Standard Schedule of Rates (SSOR)" modified by the tender percentage as accepted in the contract for that chapter of Standard Schedule of Rates (SSOR). However, the cumulative value of all such extra item(s) together (modified by the respective tender percentage) shall not exceed 10 % of the original contract value.

For item(s) not covered in this sub clause, the rate shall be decided as agreed upon between the Engineer and the Contractor before the execution of such items of work as per sub clause (b).

(b) Other Items: For any item of work to be carried out by the Contractor but not included in the accepted Bill(s) of Quantities and also not covered under sub clause (a) above, the Contractor shall be bound to notify the Engineer at least seven days before the necessity arises for the execution of such items of works that the accepted Bill(s) of Quantities does not include rate or rates for such extra work involved. The rates payable for such items shall be decided at the meeting to be held between the Engineer and Contractor, in as short a period as possible after the need for the special item has come to the notice. In case the Contractor fails to attend the meeting after being notified to do so or in the event of no settlement being arrived at, the Railway shall be entitled to execute the extra works by other means and the Contractor shall have no claim for loss or damage that may result from such procedure.

The assessment of rates for extra item(s) shall be arrived at based on the prevailing market rates of labour, machinery & materials and by taking guidance from the following documents in order of priority:

- i. Analysis of Rates for "Unified Standard Schedule of Rates of Indian Railways (USSOR)"
- ii. Analysis of Rates for "Delhi Schedule of Rates issued by CPWD (DSR)"
- iii. Market Analysis

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- .39.(2) Provided that if the Contractor commences work or incurs any expenditure in regard thereto before the rates as determined and agreed upon as lastly hereunto fore-mentioned, then and in such a case the Contractor shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of determination of the rates as aforesaid according to the rates as shall be fixed by the Engineer. However, if the Contractor is not satisfied with the decision of the Engineer in this respect, he may appeal to the Chief Engineer within 30 days of getting the decision of the Engineer, supported by analysis of the rates claimed. The Chief Engineer's decision after hearing both the parties in the matter would be final and binding on the Contractor and the Railway.
- **40.(1) Handing over of Works:** The Contractor shall be bound to hand over the works executed under the contract to the Railway complete in all respects to the satisfaction of the Engineer. The Engineer shall determine the date on which the work is considered to have been completed, in support of which his certificate shall be regarded as sufficient evidence for all purposes. The Engineer shall determine from time to time, the date on which any particular section of the work shall have been completed, and the Contractor shall be bound to observe any such determination of the Engineer.
 - **40.(2) Clearance of Site on Completion:** On completion of the works, the Contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and works clean and in a workman like condition to the satisfaction of the Engineer. No final payment in settlement of the accounts for the works shall be paid, held to be due or shall be made to the, Contractor till, in addition to any other condition necessary for final payment, site clearance shall have been affected by him, and such clearance may be made by the Engineer at the expense of the Contractor in the event of his failure to comply with this provision within 7 days after receiving notice to that effect. Should it become necessary for the Engineer to have the site cleared at the expenses of the Contractor, the Railway shall not be held liable for any loss or damage to such of the Contractor's property as may be on the site and due to such

removal there from which removal may be affected by means of public sales of such materials and property or in such a way as deemed fit and convenient to the Engineer.

- **40A Offloading of Part(s) of Work:** At the final stage of completion/ commissioning of work, in case the contractor fails to complete the final part(s) of the work and the value of such part(s) of the work is limited to 5% of the original contract value, the Engineer may allow/decide for offloading of such part(s) of works, either after the Contractor's request in writing to do so or after serving a 14 (Fourteen) days suomoto notice (as per annexure- VIIA), if the Engineer is of the opinion that:-
 - (i) Such Offloading of works (up to 5% of original contract value) would enable successful completion of contract/work,
 - (ii) Termination/ Part termination of the contract at this stage is not be in the interest of the Railway/work; and
 - (iii) The anticipated additional cost for execution of such works through other mode would not be substantial and can be recovered from the pending dues of the contractor;

The Contractor shall be informed, in due course, by the Engineer of the mode and cost of execution of such offloaded work through other agency(ies) (as per annexure-VIIB). The extra expenditure incurred in execution of the offloaded work, shall be recovered from subsequent Bill(s) or any other dues of the Contractor, but not exceeding the value of Performance Guarantee available in the contract. There shall be no other repercussion of such offloading on execution of the balance contract. The Contractor shall have no claim on account of above-mentioned offloading of works.

VARIATIONS IN EXTENT OF CONTRACT

- 41. Modification to Contract to be in Writing: In the event of any of the provisions of the contract required to be modified after the contract documents have been signed, the modifications shall be made in writing and signed by the Railway and the Contractor and no work shall proceed under such modifications until this has been done. Any verbal or written arrangement abandoning, modifying, extending, reducing or supplementing the contract or any of the terms thereof shall be deemed conditional and shall not be binding on the Railway unless and until the same is incorporated in a formal instrument and signed by the Railway and the Contractor, and till then the Railway shall have the right to repudiate such arrangements.
- **42.(1) Powers of Modification to Contract:** The Engineer on behalf of the Railway shall be entitled by order in writing to enlarge or extend, diminish or reduce the works or make any alterations in their design, character position, site, quantities, dimensions or in the method of their execution or in the combination and use of materials for the execution thereof or to order any additional work to be done or

any works not to be done and the Contractor will not be entitled, to any compensation for any increase/reduction in the quantities of work but will be paid only for the actual amount of work done and for approved materials supplied against a specific order.

- 42.(2)(i) Unless otherwise specified in the special conditions of the contract, the accepted variation in quantity of each individual item of the contract would be up to 25% of the quantity originally contracted, except in case of foundation work (in which no variation limit shall apply). However, the rates for the increased quantities shall be as per sub- para (iii) below.
 - (ii) The Contractor shall be bound to carry out the work at the agreed rates and shall not be entitled to any claim or any compensation whatsoever up to the limit of 25% variation in quantity of individual item of works.
 - (iii) In case an increase in quantity of an individual item by more than 25% of the agreement quantity is considered unavoidable, then same shall be executed at following rates
 - a. Quantities operated in excess of 125% but up to 140% of the agreement quantity of the concerned item, shall be paid at 98% of the rate awarded for that item in that particular tender;
 - b. Quantities operated in excess of 140% but up to 150% of the agreement quantity of the concerned item shall be paid at 96% of the rate awarded for that item in that particular tender;
 - c. Variation in quantities of individual items beyond 150% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.
 - d. Variation to quantities of Minor Value Item:
 The limit for varying quantities for minor value items shall be 100% (as against 25% prescribed for other items). A minor value item for this purpose is defined
 - 25% prescribed for other items). A minor value item for this purpose is defined as an item whose original agreement value is less than 1 % of the total original contract value.
 - d.(i) Quantities operated up to and including 100% of the agreement quantity of the concerned minor value item, shall be paid at the rate awarded for that item in that particular tender;
 - d.(ii) Quantities operated in excess of 100% but up to 200% of the agreement quantity of the concerned minor value item, shall be paid at 98% of the rate awarded for that item in that particular tender;
 - d.(iii) Variation in quantities of individual minor value item beyond 200% will be avoided and would be permitted only in exceptional unavoidable circumstances and shall be paid at 96% of the rate awarded for that item in that particular tender.

- (iv) In case of earthwork items, the variation limit of 25% shall apply to the gross quantity of earthwork items and variation in the quantities of individual classifications of soil shall not be subject to this limit.
- (v) As far as Standard Schedule of Rates (SSOR) items are concerned, the variation limit of 25% would apply to the value of SSOR schedule(s) as a whole and not on individual SSOR items. However, in case of Non-Standard Schedule of Rates (SSOR) items, the limit of 25% would apply on the individual items irrespective of the manner of quoting the rate (single percentage rate or individual item rate).
- **42.(3) Valuation of Variations:** The enlargements, extensions, diminution, reduction, alterations or additions referred to in Sub-Clause (2) of this Clause shall in no degree affect the validity of the contract; but shall be performed by the Contractor as provided therein and be subject to the same conditions, stipulations and obligations as if they had been originally and expressively included and provided for in the Specifications and Drawings and the amounts to be paid therefor shall be calculated in accordance with the accepted Bill(s) of Quantities. Any extra item(s)/quantities of work falling outside the purview of the provisions of Sub-Clause (2) above shall be paid for at the rates determined under Clause-39 of these Conditions.

CLAIMS

- **43.(1) Quarterly Statement of Claims:** The Contractor shall prepare and furnish to the Engineer once in every quarter commencing from the month following the month of issue of Letter of Acceptance, an account giving full and detailed particulars of all claims for any additional expenses to which the Contractor may consider himself entitled to and of all extra or additional works ordered by the Engineer which he has executed during the preceding quarter and no claim for payment for such work will be considered which has not been included in such particulars.
- **43.(2)Signing of "No Claim" Certificate:** The Contractor shall not be entitled to make any claim whatsoever against the Railway under or by virtue of or arising out of this contract, nor shall the Railway entertain or consider any such claim, if made by the Contractor, after he shall have signed a "No Claim" Certificate in favour of the Railway in such form as shall be required by the Railway after the works are finally measured up. The Contactor shall be debarred from disputing the correctness of the items covered by "No Claim" Certificate or demanding a clearance to arbitration in respect thereof.

MEASUREMENTS, CERTIFICATES AND PAYMENTS

44. Quantities in Bill(s) of Quantities Annexed to Contract: The quantities set out in the accepted Bill(s) of Quantities with items of works quantified are the estimated quantities of the works and they shall not be taken as the actual and correct

- quantities of the work to be executed by the Contractor in fulfilment of his obligations under the contract.
- **45(i). Measurement of Works by Railway:** The Contractor shall be paid for the works at the rates in the accepted Bill(s) of Quantities and for extra works at rates determined under Clause 39 of these Conditions on the measurements taken by the Engineer or the Engineer's representative in accordance with the rules prescribed for the purpose by the Railway. The quantities for items the unit of which in the accepted Bill(s) of Quantities is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one; for items the unit of which in the accepted Bill(s) of Quantities is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time and at such intervals as in the opinion of the Engineer shall be proper having regard to the progress of works. The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the Contractor who shall be present at the site and shall sign the results of the measurements (which shall also be signed by the Engineer or the Engineer's representative) recorded in the official measurements book as an acknowledgement of his acceptance of the accuracy of the measurements. Failing the Contractor's attendance, the work may be measured up in his absence and such measurements shall, notwithstanding such absence, be binding upon the Contractor whether or not he shall have signed the measurement books provided always that any objection made by him to measurement shall be duly investigated and considered in the manner set out below:
 - (a) It shall be open to the Contractor to take specific objection to any recorded measurements or Classification on any ground within seven days of the date of such measurements. Any re-measurement taken by the Engineer or the Engineer's representative in the presence of the Contractor or in his absence after due notice has been given to him in consequence of objection made by the Contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and Classification of the measurements.
 - (b) If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements.

45(ii). Measurement of Works by Contractor's Authorized Representative (in case the contract provides for the same):

(a) The Contractor shall be paid for the works at the rates in the accepted Bill(s) of Quantities and for extra works at rates determined under Clause 39 of these Conditions on the measurements taken by the Contractor's authorized Engineer in

accordance with the rules prescribed for the purpose by the Railway. The quantities for items the unit of which in the accepted Bill(s) of Quantities is 100 or 1000 shall be calculated to the nearest whole number, any fraction below half being dropped and half and above being taken as one; for items the unit of which in the accepted Bill(s) of Quantities is single, the quantities shall be calculated to two places of decimals. Such measurements will be taken of the work in progress from time to time. The date and time on which 'on account' or 'final' measurements are to be made shall be communicated to the Engineer.

The date and time of test checks shall be communicated to the Contractor who shall be present at the site and shall witness the test checks, failing the Contractor's attendance the test checks may be conducted in his absence and such test checks shall not withstanding such absence be binding upon Contractor provided always that any objection made by Contractor to test check shall be duly investigated and considered in the manner set out below:

- (i) It shall be open to the Contractor to take specific objection to test checks of any recorded measurement within 7 days of date of such test checks. Any re-test check done by the concerned Railway's authority in the presence of the Contractor or in his absence after due notice given to him in consequent of objection made by the Contractor shall be final and binding on the Contractor and no claim whatsoever shall thereafter be entertained regarding the accuracy and classification of the measurements.
- (ii) If an objection raised by the Contractor is found by the Engineer to be incorrect the Contractor shall be liable to pay the actual expenses incurred in measurements.
- **(b) Incorrect measurement, actions to be taken:** If in case during test check or otherwise, it is detected by the Engineer that agency has claimed any exaggerated measurement or has claimed any false measurement for the works which have not been executed; amounting to variation of 5% or more of claimed gross bill amount, action shall be taken as following:
- (i) On first occasion of noticing exaggerated/ false measurement, Engineer shall recover liquidated damages equal to 10% of claimed gross bill value.
- (ii) On any next occasion of noticing any exaggerated/false measurement, railway shall recover liquidated damages equal to 15% of claimed gross bill value. In addition, the facility of recording of measurements by Contractor as well as release of provisional payment shall be withdrawn. Once withdrawn, measurements shall be done by railway as per clause 45(i) above.
- **46.(1)** "On-Account " Payments: The Contractor shall be entitled to be paid from time to time by way of "On-Account" payment only for such works as in the opinion of the Engineer he has executed in terms of the contract. All payments due on the Engineer's / Engineer's Representative's certificates of measurements or Engineer's

certified "Contractor's authorized Engineer's measurements" shall be subject to any deductions which may be made under these presents and shall further be subject to, unless otherwise required by Clause 16 of these Conditions, a retention of six percent by way of Security Deposits, until the amount of Security Deposit by way of such retentions shall amount to 5% of the total value of the contract provided always that the Engineer may by any certificate make any correction or modification in any previous certificate which shall have been issued by him and that the Engineer may withhold any certificate, if the works or any part thereof are not being carried out to his satisfaction.

- **46.(2) Rounding off Amounts:** The total amount due on each certificate shall be rounded off to the nearest rupee, i.e. sum less than 50 paise shall be omitted and sums of 50 paise and more up to₹1 will be reckoned as ₹ 1.
- **46.(3) On Account Payments not Prejudicial to Final Settlement:** "On-Account" payments made to the Contractor shall be without prejudice to the final making up of the accounts (except where measurements are specifically noted in the Measurement Book as "Final Measurements" and as such have been signed by the Contractor and Engineer/Engineer's Representative) and shall in no respect be considered or used as evidence of any facts stated in or to be inferred from such accounts nor of any particular quantity of work having been executed nor of the manner of its execution being satisfactory.
- **46.(4)** If payment(s) of Advances are applicable in the contract, as mentioned in the Tender Documents, Railway shall make payment(s) of Interest-bearing advances, on the request of contractor. The payment and recovery of such Advances shall be made as under:

(a): Mobilisation Advance -

This shall be limited to 10% of the Contract value and shall be paid in 2 stages:

- Stage 1–5% of Contract Value on signing of the contract agreement.
- Stage 2 5% on mobilization of site-establishment, setting up offices, bringing in equipment and actual commencement of work.

The stage 1 of advance shall be payable immediately after signing of contract agreement.

The stage 2 of advance shall be payable at the time of mobilisation, only after submission of an utilization certificate by the contractor that the Stage 1 advance has been properly utilized in the contract.

These Advances shall be payable against irrevocable guarantee (Bank Guarantee, FDRs) from a scheduled commercial bank of India of at least 110% of the value of the sanctioned advance amount (covering principal plus interest).

(b): Advance Against Machinery and Equipment -

This advance shall be limited to a maximum of 10% of the contract value against new Machinery & Equipment, involving substantial outlay, brought to site and essentially required for the work. This advance shall not exceed 75% of the purchase price of such Equipment and shall be payable when Equipment is hypothecated to the President of India by a suitable bond or alternatively covered by an irrevocable Bank Guarantee from a scheduled commercial bank of India for full cost of the Plant & Equipment in a form acceptable to Railways. The Plant & Equipment shall be insured for the full value and for the entire period, they are required for the work. This Plant & Equipment shall not be removed from the site of work without prior written permission of the Engineer. No advance should be given against old Plant & Machinery.

The advances under sub clause (a) and (b) above, are subject to the following conditions -

- (i) The full amount of Advances shall be recovered from contractor dues. The recovery shall commence when the value of contract executed reaches 15% of original contract value and shall be completed when the value of work executed reaches 85% of the original contract value. The instalments on each "on account bill" will be on pro-rata basis.
 - Interest shall be recovered on the advance outstanding for the period commencing from the date of payment of advance till date of particular on-account bill (through which recovery of principal is affected) and adjusted fully against on-account bill along with pro-rata principal recovery. In the event of any short-fall, the same shall be carried forward to the next on-account bill and shall attract interest.
- (ii) The advances shall be used by the Contractor for the purpose of the Contract, and for the purpose for which they are paid. Under no circumstances, shall the advances be diverted for other purposes. Any such diversion shall be construed as a breach of the Contract and the Contractor shall be asked to return the advance at once and pay interest at 15% per annum till the advance is recovered back from him. The Contractor shall return the advance and pay the interest in one go without demur. The Contractor, if required by the Engineer shall provide the details of utilisation of Mobilisation advance.
- (iii) If the Contractor is found to have contravened the provision, it will constitute a breach of contract and Railway shall be entitled to terminate the contract and forfeit his Performance Guarantee as well as Security Deposit.
- (iv) In cases, where the Contract is rescinded as per clause 62 of the contract or short closed under any other condition(s) of the contract, without making full recovery of advances and accrued interest thereon, by the Railway, such balance of advances and accrued interest thereon shall immediately become due and payable by the Contractor to the Railway. The same shall be recovered from any due of Contractor with the Government of India.

46.(5) Manner of Payment: Unless otherwise specified payments to the Contractor will be transferred electronically to his bank account.

46A. Price Variation Clause (PVC):

- **46A.1 Applicability:** Price Variation Clause (PVC) shall be applicable only in tender having advertised value above **Rs. 2 Crores and having completion period above 12 months**. Provided further that, in a contract where PVC is applicable, following shall be outside the purview of price adjustments (i.e. shall be excluded from the gross value of the work for the purpose of price variation):
 - a) Materials supplied by Railway to the Contractors, either free or at fixed rate;
 - b) Any extra item(s) included in subsequent variation falling outside the purview of the Bill(s) of Quantities of tender, under clause 39. (1)(b) of these Standard General Conditions, unless applicability of PVC and 'Base Month' has been specially agreed, while fixing the rates of such extra item(s).

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46A.2 Base Month: The Base Month for 'Price Variation Clause' shall be taken as the one month prior to closing of tender, unless otherwise stated elsewhere. The quarter for applicability of PVC shall commence from the month following the Base month. The Price Variation shall be based on the average Price Index of the quarter under consideration.

46A.3 Validity:

Rates accepted by Railway Administration shall hold good till completion of work and no additional individual claim shall be admissible except:

- (a) Payment/recovery for increase/decrease in GST on works contract or imposition/removal of any tax/cess on Works Contract as per Clause 37,
- **(b)** Payment/recovery for overall market situation as per Price Variation Clause given hereunder.
- **46A.4** Components of various items in a contract on which variation in prices be admissible, shall be steel, cement, ferrous material, non-ferrous material, insulators, zinc and other materials, labour, plant & machinery, fuel, explosives, detonators etc. Adjustment for variation in prices of these items shall be determined in the manner prescribed.

46A.5No price variation shall be admissible for fixed components.

46A.6 The percentages of various components in various type of works shall be as specified for all item (s)/ Bill(s) of Quantities in tender document and the same shall be fixed as per table & classifications given below:

(I). For Civil Engineering Works

S N	Classifica		1A, 2 & 3A	4A	5A	6A	7	8A	9A	1B, 3B, 4B, 5B, 6B 8B & 9B	1C, 3C, 4C, 5C, 6C, 8C & 9C	3D, 4D, 5D, 6D, 8D & 9D	3E, 4E, 5E, 6E, 8E & 9E
1	Fixed	*	15	15	15	15	15	15	15	15	15	15	15
2	Labour	Lc	15 20	20 25	25 30	15 20	15 50	15 20	20	5 0	5 0	10	25
3	Steel	Sc	0	0	20 0	0	0	0	0	75 85	0	50	0
4	Cement	C_{c}	0	0	15	0	0	0	0	0	75 85	0	0
5	Plant Machinery & Spares	PM _c	35 30	15	0 5	20	20 15	20	30	0	0	10	30
6	Fuel & Lubricants	Fc	25	15	10 5	35 15	35 15	35 20	15	5 0	5 0	10	20
7	Other materials	M_c	10 10	15	15 30	15 30	15 5	15 25	20	0	0	5	10
8	Detonator s & Explosive	Ec	0	20 15	0	0	0	0	0	0	0	0	0
	Total		100	100	100	100	100	100	100	100	100	100	100

^{*} It shall not be considered for any price variation.

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The classification mentioned in the table above represents following type of item(s) in the work(s) –

1 Earthwork in Formation

- 1A All Item(s) excluding 1B or/and 1C
- 1B Item(s) for supply of Steel

1C Item(s) for supply of Cement

2 Ballast Supply Works

3 Tunnelling Works (Without Explosives)

- 3A All Item(s) excluding 3B or/and 3C or/and 3D or/and 3E
- 3B Item(s) for supply of Steel
- 3C Item(s) for supply of Cement or/and Grout
- 3D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 3E Item(s) for Fabrication & Erection of Structures excluding supply of Steel.

4 Tunnelling Works (With explosives)

- 4A All Item(s) excluding 4B or/and 4C or/and 4D or/and 4E
- 4B Item(s) for supply of Steel
- 4C Item(s) for supply of Cement or/and Grout
- 4D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 4E Item(s) for Fabrication & Erection of Structures excluding supply of Steel.

5 Building Works

- 5A All Item(s) excluding 5B or/and 5C or/and 5D or/and 5E
- 5B Item(s) for supply of Steel
- 5C Item(s) for supply of Cement
- 5D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 5E Item(s) for Fabrication & Erection of Structures excluding supply of Steel.

6 Bridges & Protection work

- 6A All Item(s) excluding 6B or/and 6C or/and 6D or/and 6E
- 6B Item(s) for supply of Steel
- 6C Item(s) for supply of Cement
- 6D Item(s) for Fabrication, Assembly, Erection& Launching of Girders including supply of Steel
- 6E Item(s) for Fabrication, Assembly, Erection & Launching of Girders excluding supply of Steel

7 Permanent Way linking

8 Platform, Passenger Amenities

- 8A All Item(s) excluding 8B or/and 8C or/and 8D or/and 8E
- 8B Item(s) for supply of Steel item/fittings
- 8C Item(s) for supply of Cement Item
- 8D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 8E Item(s) for Fabrication & Erection of Structures excluding supply of Steel

9 Any Other Works not covered in Classification 1 to 8

- 9A All Item(s) excluding 9B or/and 9C or/and 9D or/and 9E
- 9B Item(s) for supply of Steel
- 9C Item(s) for supply of Cement or/and Grout
- 9D Item(s) for Fabrication & Erection of Structures including supply of Steel
- 9E Item(s) for Fabrication & Erection of Structures excluding supply of Steel

- **46A.7 Formulae:** The Amount of variation in prices in various components (labour, material etc.) shall be worked out by the following formulae:
 - (i) $L = (W \text{ or } W_S \text{ or } W_C \text{ or } W_{SF} \text{ or } W_F \text{ or } W_{SFL} \text{ or } W_{FL}) \times (L_Q L_B) \times L_C$ $L_B \times 100$
 - (ii) $M = (W \text{ or } W_{SF} \text{ or } W_{F} \text{ or } W_{SFL} \text{ or } W_{FL}) \times (M_{Q} M_{B}) \times M_{C}$ $M_{B} \times 100$
 - (iii) $F = (W \text{ or } W_S \text{ or } W_C \text{ or } W_{SF} \text{ or } W_F \text{ or } W_{SFL} \text{ or } W_{FL}) \times (F_Q F_B) \times F_C$ $F_B \times 100$
 - (iv) $E = (W \text{ or } W_S \text{ or } W_C \text{ or } W_{SF} \text{ or } W_{SFL} \text{ or } W_{FL}) \times (E_Q E_B) \times E_C$ $E_B \times 100$
 - (v) PM = $(\underline{W \text{ or } W_{\underline{S}} \text{ or } W_{\underline{C}} \text{ or } W_{\underline{SF}} \text{ or } W_{\underline{FL}} \text{ or } W_{\underline{FL}}) \times (\underline{PM_Q} \underline{PM_B}) \times \underline{PM_C}}$ $\underline{PM_B \times 100}$
 - (vi) $S = (W \text{ or } W_S \text{ or } W_{SF}) \times (S_Q S_B) \times S_C$ $S_B \times 100$
 - (vii) C = $(W \text{ or } W_C) \times (C_Q C_B) \times C_C$ $C_B \times 100$

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(II) For Railway Electrification Works:

- (viii) T = $[0.4136x(C_Q C_B) / C_B] \times 85$
- (ix) $R = [0.94x(R_T R_O) / R_O + 0.06x(Z_T Z_O) / Z_O] \times 85$
- (x) $N = [(P_T P_O) / P_O] \times 85$
- (xi) $I = [(I_T I_O) / I_O] \times 85$
- (xii) $G = [(M_Q M_B) / M_B] \times 85$
- (xiii) $Er = [(L_Q L_B) / L_B] \times 85$

Where,

- L Amount of price variation in Labour
- M Amount of price variation in Materials
- F Amount of price variation in Fuel
- E Amount of price variation in Explosives
- PM Amount of price variation in Plant, Machinery and Spares
- S Amount of price variation in Steel Supply Item
- C Amount of price variation in Cement Supply Item
- T Percentage variation payable on the gross value of bill of Concreting (Bill(s) of Quantities for concrete items)
- R Percentage variation payable on the gross value of bill of Ferrous Items (Bill(s) of Quantities for ferrous items)
- N Percentage variation payable on the gross value of bill of Non-Ferrous Items (Bill(s) of Quantities for non-ferrous items)

- I Percentage variation payable on the gross value of bill of Insulator (Bill(s) of Quantities for Insulator items)
- G Percentage variation payable on the gross value of bill of General Works (Bill(s) of Quantities for General items)
- Er Percentage variation payable on the gross value of erection (Bill(s) of Quantities for Erection Item)
- L_C % of Labour Component in the item(s)
- M_C % of Material Component in the item(s)
- F_C % of Fuel Component in the item(s)
- E_C % of Explosive Component in the item(s)
- PM_C % of Plant, Machinery and Spares Component in the item(s)
- S_C % of Steel Supply item Component in the item(s)
- C_C % of Cement Supply item Component in the item(s)
- W Gross value of work done by Contractor as per on-account bill(s) excluding the Gross value of work under W_S or/and W_C or/and W_{SF} or/and W_{FL} or/and W_{FL} and cost of materials supplied by Railway either free or at fixed rate,
- W_s Gross value of work done by Contractor for item(s) of supply of steel.
- W_C Gross value of work done by Contractor for item(s) of supply of cement and /or supply of grout material.
- W_{SF} Gross value of work done by Contractor for item(s) of Fabrication & Erection of Structures including supply of Steel.
- W_F Gross value of work done by Contractor for Fabrication & Erection of Structures excluding supply of Steel.
- W_{SFL} Gross value of work done by Contractor for item(s) of Fabrication, Assembly, Erection / Launching of Girders including supply of Steel.
- W_{FL} Gross value of work done by Contractor for item(s) of Fabrication, Assembly, Erection / Launching of Girders excluding supply of Steel.
- L_B Consumer Price Index for Industrial Workers All India: Published in R.B.I. Bulletin for the base period
- L_Q Consumer Price Index for Industrial Workers All India: Published in R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration
- M_B Wholesale Price Index: All commodities as published in the R.B.I. Bulletin for the base period
- M_Q Wholesale Price Index: All commodities as published in the R.B.I. Bulletin for the average price index of the 3 months of the quarter under consideration
- F_B The average of official prices of Diesel available on the official website of 'Petroleum Planning and Analysis cell' under Ministry of Petroleum and Natural Gas for Delhi, Kolkata, Secunderabad & Chennai, for the base period
- F_Q The average of official prices of Diesel available on the official website of 'Petroleum Planning and Analysis cell' under Ministry of Petroleum and Natural Gas for Delhi, Kolkata, Secunderabad & Chennai, for the 3 months of the quarter under consideration

- E_B Index number of Monthly Whole Sale Price Index for the category 'Explosive' of (g). Manufacture of other chemical products under (J) MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS, published by Office of Economic Adviser, Govt. of India, Ministry of Commerce & Industry, Department of Industrial Policy & Promotion (DIPP), for the base period.
- Index number of Monthly Whole Sale Price Index for the category 'Explosive' of (g). Manufacture of other chemical products under (J) MANUFACTURE OF CHEMICALS AND CHEMICAL PRODUCTS, published by Office of Economic Adviser, Govt. of India, Govt. of India, Ministry of Commerce & Industry, Department of Industrial Policy & Promotion (DIPP), for the average price index of 3 months of the quarter under consideration.
- PM_B Index Number of Wholesale Prices in India by Groups and Sub Groups (Averages) for 'Manufacture of machinery for mining, quarrying and construction' published in RBI (Reserve Bank of India) Bulletin, for the base period.
- PM_Q Index Number of Wholesale Prices in India by Groups and Sub Groups (Averages) for 'Manufacture of machinery for mining, quarrying and construction' published in RBI (Reserve Bank of India) Bulletin, for the average price index of 3 months of the quarter under consideration.
 - S_B The average rate provided by the Joint Plant Committee for the relevant category of steel item as mentioned in Clause 46A.9; for the base period.
 - S_Q The average rate provided by the Joint Plant Committee for the relevant category of steel item as mentioned in Clause 46A.9; for the 3 months of the quarter under consideration.
 - C_B Index No. of Wholesale Price Index of sub-group Cement, Lime & Plaster as published in RBI Bulletin for the base period
 - C_Q No. of Wholesale Price Index of sub-group Cement, Lime & Plaster as published in RBI Bulletin for the average price index of the 3 months of the quarter under consideration
 - R_T IEEMA price index for Steel Blooms (size 150mmx150mm) for the month which is two months prior to date of inspection of material.
 - R_O IEEMA price index for Steel Blooms (size 150mmx150mm) for the month which is one month prior to date of opening of tender.
 - P_T IEEMA price index for copper wire rods for the month which is two months prior to date of inspection of material.
 - P_O IEEMA price index for copper wire rods for the month which is one month prior to date of opening of tender.
 - Z_T IEEMA price index for Zinc for the month which is two months prior to date of inspection of material
 - Z_O IEEMA price index for Zinc for the month which is one month prior to date of opening of tender
 - I_T RBI wholesale price index for the sub-group "Insulators" for the month which is two months prior to date of inspection of material

I_O RBI wholesale price index for the sub-group "Insulators" for the month which is one month prior to date of opening of tender

(III) SIGNALING & TELECOMMUNICATION WORKS:

(a) The following expressions and meanings are assigned to the value of the work done for signalling and telecommunication works:

SIGWK = Value of signalling works for a stage payment of the item signalling works;

INVSIG = Value of inventory for signalling works for a stage payment of the item inventory for signalling works;

INTGTESTSIG = Value of integrated testing and commission for signalling works of the Railway Project;

COMWK= Value of telecommunication works for a stage payment of the item telecommunication works;

INVCOM = Value of inventory for telecommunication works for a stage payment of the item inventory for telecommunication works; and

INTGTESTCOM = Value of integrated testing and commission for telecommunication works of the Railway Project.

- (b) Price adjustment for changes in cost of signalling works and telecommunication works shall be paid in accordance with the following formula:
 - (i) VSIGWK = 0.85 SIGWK x [PELEX x (ELEXi ELEXo)/ ELEXo + POFC x (OFCi OFCo)/OFCo + PLB x (LBi LBo)/LBo + POTH x (OTHi OTHo)/OTHo + S30C x (P30C_i P30C_o)/ P30C_o + S24C x (P24C_i P24C_o)/ P24C_o + S19C x (P19C_i P19C_o)/ P19C_o + S12C x (P12C_i P12C_o)/ P120C_o + S9C x (P9C_i P9C_o)/ P9C_o + S6C x (P6C_i P6C_o)/ P6C_o + S4C x (P4C_i P4C_o)/ P4C_o + S2C x (P2C_i P2C_o)/ P2C_o + S12C2.5 x (P12C2.5_i P12C2.5_o)/ P12C2.5_o + S2C2.5 x (P2C2.5_i P2C2.5_o)/ P2C2.5_o + QC x (PQC_i PQC_o)/ PQC_o;
 - (ii) VINVSIG = 0.85 SIGWK x [PELEX x (ELEXi ELEXo)/ ELEXo + POTH x (OTHi OTHo)/OTHo];
 - (iii) VINTGTESTSIG = 0.85 INTGTESTSIG x [PLB x (LBi LBo)/LBo + POTH x (OTHi-OTHo)/OTHo];
 - (iv) VCOMWK = 0.85 COMWK x [PELEX x (ELEXi ELEXo)/ ELEXo + POFC x (OFCi OFCo)/OFCo + PLB x (LBi LBo)/LBo + POTH x (OTHi OTHo)/OTHo + S30C x (P30Ci P30Co)/ P30Co + S24C x (P24Ci P24Co)/ P24Co + S19C x (P19Ci P19Co)/ P19Co + S12C x (P12Ci P12Co)/ P120Co + S9C x (P9Ci P9Co)/ P9Co + S6C x (P6Ci P6Co)/ P6Co + S4C x (P4Ci P4Co)/ P4Co + S2C x (P2Ci P2Co)/ P2Co+ S12C2.5 x (P12C2.5i P12C2.5o)/ P12C2.5o + S2C2.5 x (P2C2.5i P2C2.5o)/ P2C2.5o + S2C25 x (P2C25i P2C25o)/ P2C25o + QC x (PQCi PQCo)/ PQCo+ PCEQP x (CEQPi CEQPo)/CEQPo];

- (v) VINVCOM = 0.85 SIGWK x [PELEX x (ELEXi ELEXo)/ ELEXo + PCEQP x (CEQPi CEQPo)/CEQPo + POTH x (OTHi OTHo)/OTHo]; and
- (vi) VINTGTESTCOM = 0.85 INTGTESTCOM x [PLB x (LBi LBo)/LBo + POTH x (OTHi OTHo)/OTHo].

Where

VSIGWK = Increase or decrease in the cost of signalling works during the period under consideration due to changes in the rates for relevant components as specified in subparagraph (h);

VINVSIG = Increase or decrease in the cost of inventory for signalling during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINTGTESTSIG = Increase or decrease in the cost of integrated testing and commissioning of signalling works of the Railway Project during the period under consideration due to changes in the rates for relevant components as specified in subparagraph (h);

VCOMWK = Increase or decrease in the cost of communication works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINVCOM = Increase or decrease in the cost of inventory for telecommunications works during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

VINTGTESTCOM = Increase or decrease in the cost of integrated testing and commissioning of telecommunication works of the Railway Project during the period under consideration due to changes in the rates for relevant components as specified in sub-paragraph (h);

PCEQP, PELEX, PIC, PLB, POFC, and POTH are the percentages of communication equipment, electronics, PVC insulated cables, labour, optical fibre cables, and other materials respectively;

CEQPo = The wholesale price index as published by the Ministry of Commerce and Industry, Government of India (hereinafter called "WPI") for communication equipment for the month of the Base Month;

CEQPi = The WPI for communication equipment for the average price index of the 3 months of the quarter under consideration;

ELEXo = The WPI for electronics for the month of the Base Month;

ELEXi = The WPI for electronics for the average price index of the 3 months of the quarter under consideration;

 $P30C_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $30C \times 1.5$ sq mm signalling cable

P30C_o = Price per Km of cable as per purchase order/ Contract agreement.

S30C = Percentage of size $30C \times 1.5$ sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P24C_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size 24C x 1.5 sq mm signalling cable

 $P24C_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S24C = Percentage of size 24C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P19C_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $19C \times 1.5$ sq mm signalling cable

P19C_o = Price per Km of cable as per purchase order/ Contract agreement.

S19C = Percentage of size 19C \times 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P12C_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $12C \times 1.5$ sq mm signalling cable

 $P12C_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S12C = Percentage of size $12C \times 1.5$ sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P9C_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $9C \times 1.5$ sq mm signalling cable

 $P9C_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S9C = Percentage of size 9C \times 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P6C_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $6C \times 1.5$ sq mm signalling cable

 $P6C_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S6C = Percentage of size 6C x 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P4C_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $4C \times 1.5$ sq mm signalling cable

 $P4C_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S4C = Percentage of size 4C \times 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P2C_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $2C \times 1.5$ sq mm signalling cable

 $P2C_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S2C = Percentage of size 2C \times 1.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P12C2.5_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $12C \times 2.5$ sq mm signalling cable

 $P12C2.5_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S12C2.5 = Percentage of size $12C \times 2.5$ sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P2C2.5_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size $2C \times 2.5$ sq mm signalling cable

 $P2C2.5_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S2C2.5 = Percentage of size 2C x 2.5 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

 $P2C25_i$ = Price payable per Km as adjusted in accordance with price variation Clause for size 2C x 25 sq mm signalling cable

 $P2C25_0$ = Price per Km of cable as per purchase order/ Contract agreement.

S2C25 = Percentage of size 2C x 25 sq mm signalling cable shall govern the price adjustment of the contract price for signalling and telecommunication works.

PQC_i = Price payable per Km as adjusted in accordance with price variation Clause for size 0.9mm dia, 6 Quad cable.

PQC_o= Price per Km of cable as per purchase order/ Contract agreement.

QC = Percentage of size 0.9mm dia, 6 Quad cable shall govern the price.

LBo = The consumer price index for industrial workers – All India, published by Labour Bureau, Ministry of Labour, Government of India, (hereinafter called "CPI") for the month of the Base Month;

LBi = The CPI for industrial workers – All India for the average price index of the 3 months of the quarter under consideration;

OFCo = The WPI for fibre cables for the month of the Base Month;

OFCi = The WPI for fibre cables for the average price index of the 3 months of the quarter under consideration;

OTHo = The WPI for all commodities for the month of the Base Month; and OTHi = The WPI for all commodities for the average price index of the 3 months of the quarter under consideration.

(c) The following percentages shall govern the price adjustment of the Contract Price for signalling and telecommunication works:

	S	Signallin	g	Telecommunication		
Works	Signa lling Work s	Sign alling inven tory	Integ rated testin g and Com missi oning	Telec omm unica tion Work s	Telec omm inven tory	Integ rate d testi ng and Com miss ioni ng
Electronics (PELEX)	***%	***%	_	***%	*** %	_
Communication Equipment (PCEQP)	_	_	_	***%	***%	_
Optical Fibre Cable (POFC)	***%	_	_	***%	_	-
30C x 1.5 sq mm signalling cable(S30C)	***%	_	_	***%	_	_
24C x 1.5 sq mm signalling cable (S24C)	***%	_	_	***%	_	_
19Cx 1.5 sq mm signalling cable (S19C)	***%	_	_	***%	_	_
12C x 1.5 sq mm signalling cable (S12C)	***%	_	_	***%	_	_
9C x 1.5 sq mm signalling cable (S9C)	***%	_	_	***%	_	_
6C x 1.5 sq mm signalling cable (S6C)	***%	_	_	***%	_	_
4C x 1.5 sq mm signalling cable (S4C)	***%	_	_	***%	_	_
2C x 1.5 sq mm signalling cable (S2C)	***%	-	_	***%	_	_
12C x 2.5 sq mm signalling cable (S12C2.5)		_	_	***%	_	_

2C x 2.5 sq mm signalling cable (S2C2.5)	***%	_	_	***%	_	_
2C x 25 sq mm signalling cable (S2C25)	***%	_	_	***%	_	_
0.9 mm dia, 6Quad cable (QC)	***%	_		***%	_	_
Labour (PLB)	***%	_	***%	***%	***%	***%
Other materials	***%	***%	***%	***%	***%	***%
Total	100%	100%	100%	100%	100%	100 %

(Note- the percentages may be finalized by tendering authority depending on BOQ)

FORMULAE FOR SIGNALING & TELECOM CABLE

The price payable for signalling cables is variable as per Price Variation Formula given below:

For Signalling Copper Cables:

 P_i = Po+CuF (Cu-Cuo) + CCFcu(CC-CCo) + FeF (Fe-Feo)

For Telecom Copper Cables For Jelly Filled, 0.9 mm dia, 6 quad cable

P_i= Po+CuF (Cu-Cuo) + AlFcu(Al-Alo) + CCFcu (CC-Cco) + FeF (Fe-Feo)

For Aluminium Power Cables:

 P_i = Po+AlF (Al-Alo) + CCFAl(CC-CCo) + FeF (Fe-Feo)

Where,

P_i= Price payable per KM as adjusted in accordance with Price variation clause.

Po= Price per KM of cable as per Purchase order.

CuF= Variation factor for copper

Cuo= Price of copper Rod in Rs. Per MT

CCFCu= Variation factor for PVC Compound for Copper Signalling & Telecom cable

CCo= Price of PVC Compound in Rs. Per MT

AlF= Variation factor for Aluminium

Alo= Price of EC grade LME Aluminium rods (Properzi rods) in Rs. Per MT.

CCFAl = Variation factor for PVC Compound for Aluminium power cable

FeF= Variation factor for Steel

Feo= Price of Steel for Armour (Flat strip 4 mm. x 0.8mm/ Round 1.4mm dia) in Rs. Per MT

(Prices per MT for Cuo, CCo, Feo, Alo as applicable on the 1st working day of the month, one month prior to the deadline for submission of bids. The above prices and indices are as published by IEEMA vide circular reference no. IEEMA (PVC) /CABLE --/-- one month prior to the deadline for submission of bids.)

Cu= Price of Copper Rod in Rs. Per MT.

C_C= Price of PVC Compound in Rs. Per MT.

Fe= Price of Steel for Armouring (Flat strip 4mm x 0.8 mm/ Round 1.4mm dia) in Rs. Per MT.

Al = Price of EC grade LME Aluminium rods (Properzi rods) in Rs. Per MT.

(Prices per MT for Cu, CC, Fe, Al as prevailing on 1stworking day of the calendar month covering the date One month prior to the date of inspection call letter will be applicable for the calculation of updated price. The above prices and indices are as published by IEEMA vide circular reference no. IEEMA (PVC) /CABLE --/--- one month prior to the date of inspection.)

The value of variation factors for copper, steel and PVC Compound are different for different sizes of signalling cables. Accordingly, the PVC formula for some of the types of signalling cable is as given under: -

Underground Railway Signalling Cable unscreened and armoured copper conductor

(i) Size 30 C x 1.5 sq.mm.

P30C_i=P30Co+0.391(Cu-Cuo) +0.557(CC-CCo) +0.425(Fe-Feo)

For armouring, price of steel flat strip of size 4mmx0.8mm is to be taken into consideration.

(ii) Size 24C x 1.5 sq.mm

P24C_i= P24Co+0.313(Cu-Cuo) + 0.481 (CC-CCo) +0.398(Fe-Feo)

For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.

(iii) Size 19C x 1.5 sq.mm

 $P19C_i = P19Co + 0.248(Cu-Cuo) + 0.395(CC-CCo) + 0.343(Fe-Feo)$

For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.

(iv) Size 12C x 1.5 sq.mm

 $P12C_i=P12Co+0.157(Cu-Cuo) + 0.277(CC-CCu) + 0.289(Fe-Feo)$

For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.

(v) Size 9C x 1.5 sq.mm

$$P9C_i = P9Co + 0.117(Cu-Cuo) + 0.241(CC-CCu) + 0.383(Fe-Feo)$$

For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.

(vi) Size 6Cx 1.5 sq.mm

$$P6C_i = P6C_0 + 0.078(Cu-Cu_0) + 0.199(CC-CC_u) + 0.329(Fe-Fe_0)$$

For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.

(vii) Size 4Cx1.5 sq.mm

For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.

(viii) Size 2C x 4 sq.mm(multistrand)

For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.

(ix) Size 12C x 2.5 sq.mm

For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.

(x) Size $2C \times 2.5$ sq.mm

For armouring, value of steel wire size 1.4mm dia is to be taken into consideration.

(xi) Size 2C x 25 sq.mm PVC insulated, armoured, Aluminium power cable

For armouring, value of steel flat strip of size 4mmx0.8mm is to be taken into consideration.

(xii) For Jelly filled, 0.9mm dia, 6 quad cable

$$PQC_i = PQCo + 0.135 \text{ (Al-Alo)} + 0.139 \text{ (Cu-Cuo)} + 0.515 \text{ (CC-Cco)} + 0.693 \text{ (Fe-Feo)}.$$

For PVC Compound Grade CW-22, is to be taken into consideration.

46A.8 The demands for escalation of cost shall be allowed on the basis of provisional indices as mentioned above in Clause 46A.7. Any adjustment needed to be done based on the

finally published indices shall be made as and when they become available.

46A.9: (1) Relevant categories of steel for the purpose of operating Price Variation formula as mentioned in this Clause shall be as under:

SL	Classification	Rates to be used for calculating S_Q or S_B			
1.	Reinforcement bars and	Average of per tonne rates of 10mm dia TMT			
	other rounds	25mm dia TMT; confirming IS1786; Fe 500			
2.	All types and sizes of angles,	Average of per tonne rates of 'Angle 75x75x6mm,			
	channels and joists	Mild Steel Plate 10mm thickness and Channe			
		150x75mm; confirming IS2062, E250 Gr "A"			
3.	All types and sizes of plates	Average of per tonne rates of 'MS Plates 10mm			
		thickness and 25mm thickness; confirming IS2062,			
		E250 Gr "A"			
4.	Any other section of steel	Average of price for the 3 categories covered			
	not covered in the above	under SL 1, 2 & 3 in this table.			
	categories				

(2). Relevant city for referring "JPC (Joint Plant Committee)" rates of steel items (SQ /SB) in different Zonal Railways shall be as under:

SL	City	Railway
1.	Delhi	Northern, North Central, North Eastern, North Western
2.	Kolkata	Eastern, East Central, East Coast, Northeast Frontier, South
		Eastern, Southeast Central
3.	3. Secunderabad Central, Western, West Central	
4.	Chennai	Southern, South Central & South Western

46A.10 Price Variation during Extended Period of Contract

The price adjustment as worked out above, i.e. either increase or decrease shall be applicable up to the stipulated date of completion of work including the extended period of completion where such extension has been granted under Clause 17A of the Standard General Conditions of Contract. However, where extension of time has been granted due to Contractor's failure under Clause 17B of the Standard General Conditions of Contract, price adjustment shall be done as follows:

a. In case the indices increase above the indices applicable to the last month of original completion period or the extended period under Clause 17A, the price adjustment for the period of extension granted under Clause 17B shall be limited to the amount payable as per the Indices applicable to the last month of the original completion period or the extended period under Clause 17A of the Standard General Conditions of Contract; as the case may be.

- **b.** In case the indices fall below the indices applicable to the last month of original/ extended period of completion under Clause 17A, as the case may be; then the lower indices shall be adopted for the price adjustment for the period of extension under Clause 17B of the Standard General Conditions of Contract.
- Maintenance of Works: The Contractor shall at all times during the progress and 47. continuance of the works and also for the period of maintenance specified in the Tender Form after the date of issue of the certificate of completion by the Engineer or any other earlier date subsequent to the completion of the works that may be fixed by the Engineer, be responsible for and effectively maintain and uphold in good substantial, sound and perfect condition all and every part of the works and shall make good from time to time and at all times as often as the Engineer shall require, any damage or defect that may during the above period arise in or be discovered or be in any way connected with the works, provided that such damage or defect is not directly caused by errors in the contract documents, act of providence or 9insurrection or civil riot, and the Contractor shall be liable for and shall pay and make good to the Railway or other persons legally entitled thereto whenever required by the Engineer so to do, all losses, damages, costs and expenses they or any of them may incur or be put or be liable to by reasons or in consequence of the operations of the Contractor or of his failure in any respect.
- **48.(1) Certificate of Completion of Works:** As soon as in the opinion of the Engineer, the work has been completed and has satisfactorily passed any final test or tests that may be prescribed, the Engineer shall issue a certificate of completion duly indicating the date of completion in respect of the work and the period of maintenance of the work shall commence from the date of completion mentioned in such certificate. The certificate, inter alia, should mention that the work has been completed in all respects and that all the contractual obligations have been fulfilled by the Contractor and that there is no due from the Contractor to Railways against the contract concerned.

The Engineer may also issue such a certificate indicating date of completion with respect to any part of the work (before the completion of the whole of work), which has been both completed to the satisfaction of the Engineer and occupied or used by the Railway. When any such certificate is given in respect of part of a work, such part shall be considered as completed and the period of maintenance of such part shall commence from the date of completion mentioned in the completion certificate issued for that part of the work.

48.(2) Contractor not Absolved by Completion Certificate: The Certificate of Completion in respect of the works referred to in Sub-Clause (1) of this Clause shall not absolve the Contractor from his liability to make good any defects imperfections, shrinkages

or faults which may appear during the period of maintenance specified in the tender arising in the opinion of the Engineer from materials or workmanship not in accordance with the drawings or specifications or instruction of the Engineer, which defects, imperfections, shrinkages or faults shall upon the direction in writing of the Engineer be amended and made good by the Contractor at his own cost; and in case of default on the part of Contractor, the Engineer may employ labour and materials or appoint another Contractor to amend and make good such defects, imperfections, shrinkages and faults and all expenses consequent thereon and incidental thereto shall be borne by the Contractor and shall be recoverable from any moneys due to him under the contract.

- **48(3) Final Supplementary Agreement:** After the work is completed or otherwise concluded by the parties with mutual consent, and taken over by the Railway as per terms and conditions of the contract agreement, and there is unequivocal no claim on either side under the Contract other than as mentioned in item 4 of Annexure XIV, the parties shall execute the Final Supplementary Agreement as per Annexure XIV.
- **49. Approval only by Maintenance Certificate:** No certificate other than Maintenance Certificate, if applicable, referred to in Clause 50 of the Conditions shall be deemed to constitute approval of any work or other matter in respect of which it is issued or shall be taken as an admission of the due performance of the contract or any part thereof.
- 50.(1) Maintenance Certificate: The Contract shall not be considered as completed until a Maintenance Certificate, if applicable, shall have been signed by the Engineer stating that the works have been completed and maintained to his satisfaction. The Maintenance Certificate shall be given by the Engineer upon the expiration of the period of maintenance or as soon thereafter as any works ordered during such period pursuant to Sub Clause (2) to Clause 48 of these Conditions shall have been completed to the satisfaction of the Engineer, and full effect shall be given to this Clause notwithstanding the taking possession of or using the works or any part thereof by the Railway.

The Competent Authority to issue above Maintenance Certificate shall normally be the authority who is competent to sign the contract. If this Competent Authority is of the rank lower than JA Grade, then a JA Grade Officer (concerned with the work) should issue the Certificate. The Certificate, inter alia, should mention that the work has been completed in all respects and that all the contractual obligations have been fulfilled by the Contractor and that there is no due from the Contractor to Railways against the contract concerned

- **50.(2) Cessation of Railway's Liability:** The Railway shall not be liable to the Contractor for any matter arising out of or in connection with the contract for execution of the works unless the Contractor has made a claim in writing in respect thereof before the issue of the Maintenance Certificate under this clause.
- 50.(3) Unfulfilled Obligations: Notwithstanding the issue of the Maintenance Certificate the Contractor and (subject to Sub-Clause (2) of this Clause) the Railway shall remain liable for the fulfilment of any obligation incurred under the provision of the contract prior to the issue of the Maintenance Certificate which remains unperformed at the time such Certificate is issued and for the purposes of determining the nature and extent of any such obligations, the contract shall be deemed to remain in force between the parties thereto.
 - **51.(1)**Final Payment: On the Engineer's certificate of completion in respect of the works, adjustment shall be made and the balance of account based on the Engineer or the Engineer's representative's certified measurements or Engineer's certified "contractor's authorized engineer's measurements" of the total quantity of work executed by the Contractor up to the date of completion and on the rates accepted in Bill(s) of Quantities and for extra works on rates determined under Clause 39 of these Conditions shall be paid to the Contractor subject always to any deduction which may be made under these presents and further subject to the Contractor having signed delivered to the Engineer enclosing either a full account in detail of all claims he may have on the Railway in respect of the works or having delivered No Claim Certificate and the Engineer having after the receipt of such account given a certificate in writing that such claims are not covered under excepted matter i.e. Clauses 7(j), 8, 18, 22(5), 39.1, 39.2, 40A, 43(2), 45(i)(a), 55, 55-A(5), 57, 57A, 61(1), 61(2) and 62(1), 63(iv) and 63.2.11 of the Standard General Conditions of Contract or in any Clause (stated as excepted matter) of the Special Conditions of the Contract, that the whole of the works to be done under the provisions of the Contracts have been completed, that they have been inspected by him since their completion and found to be in good and substantial order, that all properties, works and things, removed, disturbed or injured in consequence of the works have been properly replaced and made good and all expenses and demands incurred by or made upon the Railway for or in the respect of damage or loss by from or in consequence of the works, have been satisfied agreeably and in conformity with the contract.
 - **51.(2) Post Payment Audit:** It is an agreed term of contract that the Railway reserves to itself the right to carry out a post-payment audit and/ or technical examination of the works and the Final Bill including all supporting vouchers, abstracts etc. and to make a claim on the Contractor for the refund of any excess amount paid to him till the release of security deposit or settlement of claims, whichever is later, if as a result

of such examination any over-payment to him is discovered to have been made in respect of any works done or alleged to have been done by him under the contract.

51-A. Production of Vouchers etc. by the Contractor:

- (i) For a contract of more than one crore of rupees, the Contractor shall, whenever required, produce or cause to be produced for examination by the Engineer any quotation, invoice, cost or other account, book of accounts, voucher, receipt, letter, memorandum, paper of writing or any copy of or extract from any such document and also furnish information and returns verified in such manner as may be required in any way relating to the execution of this contract or relevant for verifying or ascertaining cost of execution of this contract (the decision of the Engineer on the question of relevancy of any documents, information or return being final and binding in the parties). The Contractor shall similarly produce vouchers etc., if required to prove to the Engineer, that materials supplied by him, are in accordance with the specifications laid down in the contract.
- (ii) If any portion of the work in a contract of value more than one crore of rupees be carried out by a sub-contractor or any subsidiary or allied firm or company (as per Clause 7 of the Standard General Conditions of Contract), the Engineer shall have power to secure the books of such sub-contract or any subsidiary or allied firm or company, through the Contractor, and such books shall be open to his inspection.
- (iii) The obligations imposed by Sub Clause (i) & (ii) above is without prejudice to the obligations of the Contractor under any statute rules or orders binding on the Contractor.
- 52. Withholding and Lien in Respect of Sums Claimed: Whenever any claim or claims for payment of a sum of money arises out of or under the contract against the Contractor, the Railway shall be entitled to withhold and also have a lien to retain such sum or sums in whole or in part from the security, if any, deposited by the Contractor and for the purpose aforesaid, the Railway shall be entitled to withhold the said cash Security Deposit or the Security if any, furnished as the case may be and also have a lien over the same pending finalization or adjudication of any such claim. In the event of the security being insufficient to cover the claimed amount or amounts or if no security has been taken from the Contractor, the Railway shall be entitled to withhold and have a lien to the extent of the such claimed amount or amounts referred to supra, from any sum or sums found payable or which at any time thereafter may become payable to the Contractor under the same contract or any other contract with this or any other Railway or any Department of the Central Government pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money or moneys so withheld or retained under the lien referred to above, by the Railway will be kept withheld or

retained as such by the Railways till the claim arising out of or under the contract is determined by the arbitrator (if the contract governed by the Arbitration Clause) or by the competent court as the case may be and that the Contractor will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention under the lien referred to supra and duly notified as such to the Contractor. For the purpose of this clause, where the Contractor is a partnership firm or a company, the Railway shall be entitled to withhold and also have a lien to retain towards such claimed amount or amounts in whole or in part from any sum found payable to any partner / company, as the case may be whether in his individual capacity or otherwise.

52-A Lien in Respect of Claims in other Contracts:

- (i) Any sum of money due and payable to the Contractor (including the Security Deposit returnable to him) under the contract may be withheld or retained by way of lien by the Railway, against any claim of this or any other Railway or any other Department of the Central Government in respect of payment of a sum of money arising out of or under any other contract made by the Contractor with this or any other Department of the Central Government.
- (ii) However, recovery of claims of Railway in regard to terminated contracts may be made from the Final Bill, Security Deposits and Performance Guarantees of other contract or contracts, executed by the Contractor. The Performance Guarantees submitted by the Contractor against other contracts, if required, may be withheld and encashed. In addition, 10% of each subsequent 'on-account bill' may be withheld, if required, for recovery of Railway's dues against the terminated contract.
- (iii) It is an agreed term of the contract that the sum of money so withheld or retained under this Clause by the Railway will be kept withheld or retained as such by the Railway till the claim arising out of or under any other contract is either mutually settled or determined by arbitration, if the other contract is governed by Arbitration Clause or by the competent court as the case may be and Contractor shall have no claim for interest or damages whatsoever on this account or on any other ground in respect of any sum of money withheld or retained under this Clause and duly notified as such to the Contractor.
- 53. Signature on Receipts for Amounts: Every receipt for money which may become payable or for any security which may become transferable to the Contractors under these presents, shall, if signed in the partnership name by anyone of the partners of a Contractor's firm be a good and sufficient discharge to the Railway in respect of the moneys or security purported to be acknowledged thereby and in the event of death of any of the Contractor, partners during the pendency of the contract, it is hereby expressly agreed that every receipt by anyone of the surviving Contractor partners

shall if so signed as aforesaid be good and sufficient discharge as aforesaid provided that nothing in this Clause contained shall be deemed to prejudice or effect any claim which the Railway may hereafter have against the legal representative of any Contractor partner so dying for or in respect to any breach of any of the conditions of the contract, provided also that nothing in this clause contained shall be deemed to prejudice or effect the respective rights or obligations of the Contractor partners and of the legal representatives of any deceased Contractor partners interse.

LABOUR

54. Wages to Labour: The Contractor shall be responsible to ensure compliance with the provision of the Minimum Wages Act, 1948 (hereinafter referred to as the "said Act") and the Rules made thereunder in respect of any employees directly or through petty Contractors or sub-contractors employed by him for the purpose of carrying out this contract.

If, in compliance with the terms of the contract, the Contractor supplied any labour to be used wholly or partly under the direct orders and control of the Railways whether in connection with any work being executed by the Contractor or otherwise for the purpose of the Railway such labour shall, for the purpose of this Clause, still be deemed to be persons employed by the Contractor.

If any moneys shall, as a result of any claim or application made under the said Act be directed to be paid by the Railway, such money shall be deemed to be moneys payable to the Railway by the Contractor and on failure by the Contractor to repay the Railway any moneys paid by it as aforesaid within seven days after the same shall have been demanded, the Railways shall be entitled to recover the same from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India.

- **54-A.Apprentices Act:** The Contractor shall be responsible to ensure compliance with the provisions of the Apprentices Act, 1961 and the Rules and Orders issued thereunder from time to time in respect of apprentices directly or through petty Contractors or sub-contractors employed by him for the purpose of carrying out the Contract.
 - If the Contractor directly or through petty Contractors or sub-contractors fails to do so, his failure will be a breach of the contract and the Railway may, in its discretion, rescind the contract. The Contractor shall also be liable for any pecuniary liability arising on account of any violation of the provisions of the Act.
 - **55. Provisions of Payments of Wages Act:** The Contractor shall comply with the provisions of the Payment of Wages Act, 1936 and the rules made thereunder in respect of all employees employed by him either directly or through petty Contractors or sub-contractors in the works. If in compliance with the terms of the

contract, the Contractor directly or through petty Contractors or sub-contractors shall supply any labour to be used wholly or partly under the direct orders and control of the Engineer whether in connection with the works to be executed hereunder or otherwise for the purpose of the Engineer, such labour shall nevertheless be deemed to comprise persons employed by the Contractor and any moneys which may be ordered to be paid by the Engineer shall be deemed to be moneys payable by the Engineer on behalf of the Contractor and the Engineer may on failure of the Contractor to repay such money to the Railways deduct the same from any moneys due to the Contractor in terms of the contract. The Railway shall be entitled to recover the same from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India all moneys paid or payable by the Railway by way of compensation of aforesaid or for costs of expenses in connection with any claim thereto and the decision of the Engineer upon any question arising out of the effect or force of this Clause shall be final and binding upon the Contractor.

55-A.Provisions of Contract Labour (Regulation and Abolition) Act, 1970:

- 55-A.(1)The Contractor shall comply with the provision of the contract labour (Regulation and Abolition) Act, 1970 and the Contract labour (Regulation and Abolition) Central Rules 1971 as modified from time to time, wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and the Rules.
 - 55-A.(2) The Contractor shall obtain a valid license under the aforesaid Act as modified from time to time before the commencement of the work and continue to have a valid license until the completion of the work. Any failure to fulfill the requirement shall attract the penal provision of the Act.
 - 55-A.(3) The Contractor shall pay to the labour employed by him directly or through sub-contractors the wages as per provision of the aforesaid Act and the Rules wherever applicable. The Contractor shall notwithstanding the provisions of the contract to the contrary, cause to be paid the wages to labour, indirectly engaged on the works including any engaged by sub-contractors in connection with the said work, as if the labour had been immediately employed by him.
 - **55-A.(4)** In respect of all labour directly or indirectly employed in the work for performance of the Contractor's part of the contract, the Contractor shall comply with or cause to be complied with the provisions of the aforesaid Act and Rules wherever applicable.
 - **55-A.(5)** In every case in which, by virtue of the provisions of the aforesaid Act or the rules, the Railway is obliged to pay any amount of wages to a workman employed

by the Contractor or his sub-contractor in execution of the work or to incur any expenditure on account of the contingent, liability of the Railway due to the Contractor's failure to fulfil his statutory obligations under the aforesaid Act or the rules, the Railway will recover from the Contractor, the amount of wages so paid or the amount of expenditure so incurred and without prejudice to the rights of the Railway under the Section 20, Sub-Section (2) and Section 2, Sub-Section (4) of the aforesaid Act, the Railway shall be at liberty to recover such amount or part thereof from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India. The Railway shall not be bound to contest any claim made against it under Sub-Section (1) of Section 20 and Sub-Section (4) of Section 21 of the aforesaid Act except on the written request of the Contractor and upon his giving to the Railway full security for all costs for which the Railway might become liable in contesting such claim. The decision of the Chief Engineer regarding the amount actually recoverable from the Contractor as stated above shall be final and binding on the Contractor.

- 55-B.Provisions of Employees Provident Fund and Miscellaneous Provisions Act, 1952:The Contractor shall comply with the provisions of Para 30 & 36-B of the Employees Provident Fund Scheme, 1952; Para 3 & 4 of Employees' Pension Scheme, 1995; and Para 7 & 8 of Employees Deposit Linked Insurance Scheme, 1976; as modified from time to time through enactment of "Employees Provident Fund & Miscellaneous Provisions Act, 1952", wherever applicable and shall also indemnify the Railway from and against any claims under the aforesaid Act and the Rules.
- 55-C (i) Contractor is to abide by the provisions of various labour laws in terms of above clause 54, 55, 55-A and 55-B of the Standard General Conditions of Contract. In order to ensure the same, an application has been developed and hosted on website 'www.shramikkalyan.indianrailways.gov.in'. Contractor shall register his firm/company etc. and upload requisite details of labour and their payment in this portal. These details shall be available in public domain. The registration/ updation in Portal shall be done as under:
 - (a) Contractor shall apply for onetime registration of his company/firm etc. in the Shramikkalyan portal with requisite details subsequent to issue of Letter of Acceptance. Engineer shall approve the contractor's registration in the portal within 7 days of receipt of such request.
 - (b) Contractor once approved by any Engineer, can create password with login ID (PAN No.) for subsequent use of portal for all Letter of Acceptances (LoAs) issued in his favour.

- (c) The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LoAs) / Contract Agreements on shramikkalyan portal within 15 days of issue of any LoA for approval of concerned Engineer. Engineer shall update (if required) and approve the details of LoA filled by contractor within 7 days of receipt of such request.
- (d) After approval of LoA by Engineer, contractor shall fill the salient details of contract labours engaged in the contract and ensure updating of each wage payment to them on shramikkalyan portal on monthly basis.
- (e) It shall be mandatory upon the contractor to ensure correct and prompt uploading of all salient details of engaged contractual labour & payments made thereof after each wage period.
 - (ii) While processing payment of any 'On Account Bill' or 'Final Bill' or release of 'Advances' or 'Performance Guarantee / Security Deposit', contractor shall submit a certificate to the Engineer or Engineer's representatives that "I have uploaded the correct details of contract labours engaged in connection with this contract and payments made to them during the wage period in Railway's Shramikkalyan portal at 'www.shramikkalyan.indianrailways.gov.in' till ____Month, ____Year."
- 55-D. Provisions of "The Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996" and "The Building and Other Construction Workers' Welfare Cess Act, 1996":

The tenderers, for carrying out any construction work, shall get themselves registered with the Registering Officer under Section-7 of the Building and Other Construction Workers Act, 1996 and Rules made thereto by the concerned State Govt., and submit Certificate of Registration issued by Registering Officer of the concerned State Govt. (Labour Dept.). The Cess shall be deducted from contractor's bills as per provisions of the Act.

- **56. Reporting of Accidents:** The Contractor shall be responsible for the safety of all employees directly or through petty Contractors or sub-contractor employed by him on the works and shall report serious accidents to any of them however and wherever occurring on the works to the Engineer or the Engineers Representative and shall make every arrangement to render all possible assistance.
- **57. Provision of Workmen's Compensation Act:** In every case in which by virtue of the provisions of Section 12 Sub-Section (1) of the Workmen's Compensation Act 1923, Railway is obliged to pay compensation to a workman directly or through petty Contractor or sub-contractor employed by the Contractor in executing the

work, Railway will recover from the Contractor the amount of the compensation so paid, and, without prejudice to the rights of Railway under Section 12 Sub-section (2) of the said Act, Railway shall be at liberty to recover such amount or any part thereof from Contractor's bills/Security Deposit or any other dues of Contractor with the Government of India. Railway shall not be bound to contest any claim made against it under Section 12 Sub-Section (1) of the said Act except on the written request of the Contractor and upon his giving to Railway full security for all costs for which Railway might become liable in consequence of contesting such claim.

- **57-A. Provision of Mines Act:** The Contractor shall observe and perform all the provisions of the Mines Act, 1952 or any statutory modifications or re-enactment thereof for the time being in force and any rules and regulations made thereunder in respect of all the persons directly or through the petty Contractors or subcontractors employed by him under this contract and shall indemnify the Railway from and against any claims under the Mines Act, or the rules and regulations framed thereunder, by or on behalf of any persons employed by him or otherwise.
- 58. Railway not to Provide Quarters for Contractors: No quarters shall normally be provided by the Railway for the accommodation of the Contractor or any of his staff employed on the work. In exceptional cases where accommodation is provided to the Contractor at the Railway's discretion, recoveries shall be made at such rates as may be fixed by the Railway for the full rent of the buildings and equipment therein as well as charges for electric current, water supply and conservancy.
- 59.(1) Labour Camps: The Contractor shall at his own expense make adequate arrangements for the housing, supply of drinking water and provision of latrines and urinals for his staff and workmen, directly or through the petty Contractors or subcontractors and for temporary creche (Bal-Mandir) where 50 or more women are employed at a time. Suitable sites on Railway land, if available, may be allotted to the Contractor for the erection of labour camps, either free of charge or on such terms and conditions that may be prescribed by the Railway. All camp sites shall be maintained in clean and sanitary conditions by the Contractor at his own cost.
- **59.(2) Compliance to Rules for Employment of Labour:** The Contractor(s) shall conform to all laws, bye-laws rules and regulations for the time being in force pertaining to the employment of local or imported labour and shall take all necessary precautions to ensure and preserve the health and safety of all staff employed directly or through petty contractors or sub-contractors on the works.
 - **59.(3) Preservation of Peace:** The Contractor shall take requisite precautions and use his best endeavours to

- (i) Prevent any riotous or unlawful behaviour by or amongst his workmen and other employed directly or through the petty Contractors or sub-contractors on the works and for the preservation of peace and protection of the inhabitants and
- (ii) Security of property in the neighbourhood of the works. In the event of the Railway requiring the maintenance of a Special Police Force at or in the vicinity of the site during the tenure of works, the expenses thereof shall be borne by the Contractor and if paid by the Railway shall be recoverable from the Contractor.
- 59.(4) Sanitary Arrangements: The Contractor shall obey all sanitary rules and carry out all sanitary measures that may from time to time be prescribed by the Railway Medical Authority and permit inspection of all sanitary arrangements at all times by the Engineer, the Engineer's Representative or the Medical Staff of the Railway. Should the Contractor fail to make the adequate sanitary arrangements, these will be provided by the Railway and the cost thereof recovered from the Contractor.
- 59.(5) Outbreak of Infectious Disease: The Contractor shall remove from his camp such labour and their families as refuse protective inoculation and vaccination when called upon to do so by the Engineer or the Engineer's Representative on the advice of the Railway Medical Authority. Should cholera, plague, or other infectious disease break out, the Contractor shall burn the huts, beddings, clothes and other belongings of or used by the infected parties and promptly erect new huts on healthy sites as required by the Engineer, failing which within the time specified in the Engineer's requisition, the work may be done by the Railway and the cost thereof recovered from the Contractor.
- 59.(6) Treatment of Contractor's Staff in Railway Hospitals: The Contractor and his staff, other than labourers and their families requiring medical aid from the railway hospital and dispensaries will be treated as private patients and charged accordingly. The Contractors' labourers and their Families will be granted free treatment in railway hospitals and dispensaries where no other hospitals or dispensaries are available provided the Contractor pays the cost of medicines, dressing and diet money according to the normal scale and additional charges for special examinations such as pathological and bacteriological examination, X-Ray, etc. and for surgical operation.
- **59. (7) Medical Facilities at Site:** The Contractor shall provide medical facilities at the site as may be prescribed by the Engineer on the advice of the Railway Medical Authority in relation to the strength of the Contractor's resident staff and workmen.
- **59. (8) Use of Intoxicants:** The sale of ardent spirits or other intoxicating beverages upon the work or in any of the buildings, encampments or tenements owned, occupied by or within the control of the Contractor or any of his employees shall be forbidden

- and the Contractor shall exercise his influence and authority to the utmost extent to secure strict compliance with this condition.
- 59.(9) Restrictions on the Employment of Retired Engineers of Railway Services Within One Year of their Retirement: The Contractor shall not, if he is a retired Government Engineer of Gazetted rank, himself engage in or employ or associate a retired Government Engineer of Gazetted rank, who has not completed one year from the date of retirement, in connection with this contract in any manner whatsoever without obtaining prior permission of the President and if the Contractor is found to have contravened this provision it will constitute a breach of contract and administration will be entitled to terminate the contract and forfeit his Performance Guarantee as well as Security Deposit.
- **60.(1) Non-Employment of Labourers below the age of 15:** The Contractor shall not employ children below the age of 15 as labourers directly or through petty Contractors or sub-contractors for the execution of work.
- 60.(2) Medical Certificate of Fitness for Labour: It is agreed that the Contractor shall not employ a person above 15 and below 19 years of age for the purpose of execution of work under the contract unless a medical certificate of fitness in the prescribed form (Proforma at Annexure-VIII) granted to him by a certifying surgeon certifying that he is fit to work as an adult, is obtained and kept in the custody of the Contractor or a person nominated by him in this behalf and the person carries with him, while at work; a token giving a reference to such certificate. It is further agreed that the responsibility for having the adolescent examined medically at the time of appointment or periodically till he attains the age of 19 years shall devolve entirely on the Contractor and all the expenses to be incurred on this account shall be borne by him and no fee shall be charged from the adolescent or his parent for such medical examination.
- **60.(3) Period of Validity of Medical Fitness Certificate:** A certificate of fitness granted or renewed for the above said purposes shall be valid only for a period of one year at a time. The certifying surgeon shall revoke a certificate granted or renewed if in his opinion the holder of it, is no longer fit for work in the capacity stated therein. Where a certifying surgeon refuses to grant or renew a certificate or revoke a certificate, he shall, if so required by the person concerned, state his reasons in writing for doing so.
- **60.(4) Medical Re-Examination of Labourer:** Where any official appointed in this behalf by the Ministry of Labour is of the opinion that any person employed in connection with the execution of any work under this contract in the age group 15 to 19 years is without a certificate of fitness or is having a certificate of fitness but no longer fit to work in the capacity stated in the certificate, he may serve on the Contractor, or on

the person nominated by him in this regard, a notice requiring that such persons shall be examined by a certifying surgeon and such person shall not if the concerned official so directs, be employed or permitted to do any work under this contract unless he has been medically examined and certified that he is fit to work in the capacity stated in the certificate.

EXPLANATIONS:

- (1) Only Qualified Medical Practitioners can be appointed as "Certifying Surgeons" and the term "Qualified Medical Practitioners" means a person holding a qualification granted by an authority specified in the Schedule to the Indian Medical Degrees Act, 1916 (VII to 1916) or in the Schedule to the Indian Medical Council Act, 1933 (XXVII) of 1933.
- (2) The Certifying surgeon may be a medical officer in the service of State or Municipal Corporation.

DETERMINATION OF CONTRACT

- **61.(1) Right of Railway to Determine the Contract:** The Railway shall be entitled to determine and terminate the contract at any time should, in the Railway's opinion, the cessation of work becomes necessary owing to paucity of funds or from any other cause whatever, in which case the value of approved materials at site and of work done to date by the Contractor will be paid for in full at the rate specified in the contract. Notice in writing from the Railway of such determination and the reasons therefor shall be conclusive evidence thereof.
- **61.(2) Payment on Determination of Contract:** Should the contract be determined under sub clause (1) of this clause and the Contractor claims payment for expenditure incurred by him in the expectation of completing the whole of the work, the Railways shall admit and consider such claims as are deemed reasonable and are supported by vouchers to the satisfaction of the Engineer. The Railway's decision on the necessity and propriety of such expenditure shall be final and conclusive.
 - **61.(3)** The Contractor shall have no claim to any payment of compensation or otherwise, howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of determination of contract.

62.(1) Determination of Contract owing to Default of Contractor:

If the Contractor should:

(i) Becomes bankrupt or insolvent, or

- (ii) Make an arrangement for assignment in favour of his creditors, or agree to carry out the contract under a Committee of Inspection of his creditors, or
- (iii) Being a Company or Corporation, go into liquidation (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), or
- (iv) Have an execution levied on his goods or property on the works, or
- (v) Assign the contract or any part thereof otherwise than as provided in Clause 7 of these Conditions, or
- (vi) Abandon the contract, or
- (vii) Persistently disregard the instructions of the Engineer, or contravene any provision of the contract, or
- (viii) Fail to adhere to the agreed programme of work by a margin of 10% of the stipulated period, or
- (ix) Fail to Execute the contract documents in terms of Para 8 of the Instructions to Tenderers.
- (x) Fail to submit the documents pertaining to identity of JV and PAN in terms of Para 17.11 of Tender Form (Second Sheet) of Annexure I available in the Instructions to Tenderers.
- (xi) Fail to remove materials from the site or to pull down and replace work after receiving from the Engineer notice to the effect that the said materials or works have been condemned or rejected under Clause 25 and 27 of these Conditions, or
- (xii) Fail to take steps to employ competent or additional staff and labour as required under Clause 26 of these Conditions, or
- (xiii) Fail to afford the Engineer or Engineer's representative proper facilities for inspecting the works or any part thereof as required under Clause 28 of these Conditions, or
- (xiv) Promise, offer or give any bribe, commission, gift or advantage either himself or through his partner, agent or servant to any officer or employee of the Railway or to any person on his or on their behalf in relation to the execution of this or any other contract with this Railway.
- (xv) Fail to adhere to the provisions of Para 16 of Tender Form (Second Sheet) of Annexure I of the Instructions to Tenderers, or provision Clause 59(9) of these Conditions.
- (xvi)Submits copy of fake documents / certificates in support of credentials, submitted by the tenderer

Then and in any of the **said Clause**, the Engineer on behalf of the Railway may serve the Contractor with a notice (Proforma at Annexure-IX) in writing to that effect and if the Contractor does not within seven days after the delivery to him of such notice proceed to make good his default in so far as the same is capable of being made good and carry on

the work or comply with such directions as aforesaid of the entire satisfaction of the Engineer, the Railway shall be entitled after giving 48 hours' notice (Proforma at Annexure-X or XII, as the case may be) in writing under the hand of the Engineer to rescind the contract as a whole or in part or parts (as may be specified in such notice) and after expiry of 48 hours' notice, a final termination notice (Proforma at Annexure-XI or XIII, as the case may be) should be issued.

Note: Engineer at his discretion may resort to the part termination of contract with notices (Proforma at Annexure- IX, XII and XIII), only in cases where progress of work is more than or equal to 80% of the original scope of work.

- **62.(2)** Right of Railway after Rescission of Contract owing to Default of Contractor: In the event of any or several of the courses, referred to in Sub-Clause (1) of this Clause, being adopted:
- (a) The Contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials or entered into any commitments or made any advances on account of or with a view to the execution of the works or the performance of the contract and Contractor shall not be entitled to recover or be paid any sum for any work thereto for actually performed under the contract unless and until the Engineer shall have certified the performance of such work and the value payable in respect thereof and the Contractor shall only be entitled to be paid the value so certified.
- (b) In the contract which has been rescinded as a whole, the Security Deposit already with railways under the contract shall be encashed/ forfeited and the Performance Guarantee already submitted for the contract shall be encashed. The balance work shall be got done independently without risk & cost of the failed Contractor. The failed Contractor shall be debarred from participating in the tender for executing the balance work. If the failed Contractor is a JV or a Partnership firm, then every member/partner of such a firm shall be debarred from participating in the tender for the balance work in his/her individual capacity or as a partner of any other JV / partnership firm.

Further the authorized representative of failed Contractor cannot be accepted as authorized representative in new contract.

- (c) In the contract rescinded in part or parts,
- (i) The full Performance Guarantee available for the contract shall be recovered. No additional Performance Guarantee shall be required for balance of work being executed through the part terminated contract. The contract value of part terminated contract stands reduced to the balance value of work under the contract.

- (ii) The Security Deposit of part terminated contract shall be dealt as per clause 16(2) of these Conditions.
- (iii) The defaulting Contractor shall not be issued any completion certificate for the contract.
- (iv) The balance work shall be got done independently without risk & cost of the failed Contractor. The failed Contractor shall be debarred from participating in the tender for executing the balance work. If the failed Contractor is a JV or a Partnership firm, then every member/partner of such a firm shall be debarred from participating in the tender for the balance work in his/her individual capacity or as a partner of any other JV /partnership firm.
- (v) Further the authorized representative of failed Contractor will not be accepted as authorized representative in new contract.
- (d) The Engineer or the Engineer's Representative shall be entitled to take possession of any materials, tools, implements, machinery and buildings on the works or on the property on which these are being or ought to have been executed, and to retain and employ the same in the further execution of the works or any part thereof until the completion of the works without the Contractor being entitled to any compensation for the use and employment thereof or for wear and tear or destruction thereof.
- (e) The Engineer shall as soon as may be practicable after removal of the Contractor fix and determine ex-parte or by or after reference to the parties or after such investigation or enquiries as he may consider fit to make or institute and shall certify what amount (if any) had at the time of rescission of the contract been reasonably earned by or would reasonably accrue to the Contractor in respect of the work then actually done by him under the contract and what was the value of any unused, or partially used materials, any constructional plant and any temporary works upon the site. The legitimate amount due to the Contractor after making necessary deductions and certified by the Engineer should be released expeditiously.

SETTLEMENT OF DISPUTES - INDIAN RAILWAY ARBITRATION AND CONCILIATION RULES

63. Conciliation of Disputes:

- (i) This clause is applicable in the tender having advertised value less than or equal to Rs 50 Crore.
- (ii) All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the Contractor to the "Chief Engineer" or "Divisional Railway Manager" through

"Notice of Dispute" provided that no such notice shall be served later than 30 days after the date of issue of Completion Certificate by the Engineer. Chief Engineer or Divisional Railway Manager shall, within 30 days after receipt of the Contractor's "Notice of Dispute", notify the name of conciliator(s) to the Contractor.

- (iii) The Conciliator(s) shall assist the parties to reach an amicable settlement in an independent and impartial manner within the terms of contract.
- (iv) If the parties reach agreement on a settlement of the dispute, they shall draw up and sign a written settlement agreement duly signed by Engineer Incharge, Contractor and conciliator(s). When the parties sign the settlement agreement, it shall be final and binding on the parties.
- (v) The parties shall not initiate, during the conciliation proceedings, any arbitral or judicial proceedings in respect of a dispute that is the subject matter of the conciliation proceedings.
- (vi) The conciliation proceedings shall be terminated as per Section 76 of 'The Arbitration and Conciliation Act, 1996.
- **63.1 Matters Finally Determined by the Railway:** All disputes and differences of any kind whatsoever arising out of or in connection with the contract, whether during the progress of the work or after its completion and whether before or after the determination of the contract, shall be referred by the Contractor to the GM and the GM shall, within 120 days after receipt of the Contractor's representation, make and notify decisions on all matters referred to by the Contractor in writing provided that matters for which provision has been made in Clauses 7(j), 8, 18, 22(5),39.1, 39.2, 40A,43(2), 45(i)(a), 55, 55-A(5), 57, 57A,61(1), 61(2),62(1), 63(iv) and 63.2.11of the Standard General Conditions of Contract or in any Clause (stated as excepted matter) of the Special Conditions of the Contract, shall be deemed as 'excepted matters' (matters not arbitrable)and decisions of the Railway authority, thereon shall be final and binding on the Contractor; provided further that 'excepted matters' shall stand specifically excluded from the purview of the Dispute Adjudication Board (DAB) and Arbitration.
- **63.2 Dispute Adjudication Board (DAB):** This clause is applicable in the tender having advertised value more than Rs 50 Crore.
- **63.2.1** Any dispute/s if not settled with the Engineer, shall be referred to DAB.

The DAB shall consist of a panel of three Retired Railway Officers, retired not below senior administrative grade (SAG). The DAB shall be formed within 90 days of signing of Contract Agreement. For this purpose, a panel of DAB members shall

be maintained in the General Manager's office. The complete panel, which shall not be less than five members, shall be sent by Chief Engineer to the Contractor to nominate one member of the DAB from the panel as Contractor's nominee within two weeks of receipt of the panel. On receipt of Contractor's nominee, the Chief Engineer shall nominate one member from the same panel as Railway nominee for the DAB. Both above nominees shall jointly select presiding member of the DAB from the same panel.

- **63.2.2** The appointment of DAB shall be effectuated by way of a tri-partite agreement among the Railway, Contractor and the respective DAB members. The terms of the remuneration of each member shall be as fixed by Ministry of Railways from time to time. Each party shall be responsible for paying one-half of this remuneration.
- 63.2.3 If one or more of the members appointed refuses to act as DAB member, or is unable or unwilling to perform his functions as DAB member for any reason whatsoever or dies or in the opinion of the Chief Engineer fails to act without undue delay, the parties shall terminate the mandate of such DAB member and thereupon new DAB member shall be appointed in the same manner, as the outgoing DAB member had been appointed.
- 63.2.4 The appointment of any member may be terminated by mutual agreement of both Parties, but not by the Railway or the Contractor acting alone. Unless otherwise agreed by both the Parties, the appointment of the DAB (including each member) shall expire upon expiry of this Contract Agreement.
- **63.2.5** Before start of DAB proceedings, each DAB member shall give the following certificate to the Railway and the Contractor:

"I have no any past or present relationship in relation to the subject matter in dispute, whether financial, business, professional or other kind. Further, I have no any past or present relationship with or interest in any of the parties whether financial, business, professional or other kind, which is likely to give rise to justifiable doubts as to my independence or impartiality."

63.2.6 DAB proceedings shall be conducted as decided by the DAB. The DAB shall give its decision within 90 days of a Dispute referred to it by any of the Parties, duly recording the reasons before arriving at the decision. The DAB shall decide the issue within terms and conditions of the contract. This time limit shall be extendable subject to the Parties mutual agreement.

- **63.2.7** The DAB decision shall not be binding on both the Parties. In case any party is not satisfied by the decision of DAB, then the aggrieved party may approach Arbitral Tribunal for arbitration proceedings.
- 63.2.8 No dispute shall be referred to Arbitral Tribunal unless the same has been referred to DAB for adjudication. However, in case DAB is not formed due to any reason, the disputes can be directly referred to Arbitral Tribunal to adjudicate the dispute.
- 63.2.9 In the specific cases of any misconduct by any of the members of the DAB, the parties shall have the right to specifically bring it to the notice of the DAB such conduct, through a statement filed with necessary documents in proof of such misconduct and the DAB, after taking NOTICE of such conduct initiate the replacement of the member concerned, in the same manner the member to be replaced was appointed.
- **63.2.10** Once the decision is given by DAB, DAB cannot review the decision at its own or on the request of one party, unless both parties agree for review of decision by DAB.
- **63.2.11** In case DAB decision is not challenged by either party within 180 days of receipt of decision of DAB, the decision shall be considered as final and parties would be barred for referring the same to Arbitral Tribunal for adjudication.
- **63.2.12** The obligation of the Railway and the Contactor shall not be altered by reasons of issue being or under reference to DAB.
- **63.2.13** The DAB shall conduct the proceedings at any convenient venue which shall be decided by DAB in consultations with parties.
- 63.2.14 It is a term of this contract that the Parties shall not approach any Court of Law for settlement of such disputes or differences unless an attempt has first been made by the parties to settle such disputes or differences through DAB and Arbitral Tribunal.

64.(1): Demand for Arbitration:

64.(1)(i)(a): In the event of any dispute or difference between the parties hereto as to the construction or operation of this contract, or the respective rights and liabilities of the parties on any matter in question, dispute or difference on any account or as to the withholding by the Railway of any certificate to which the Contractor may claim to be entitled to, or if the Railway fails to make a decision within 120 days, then and in any such case, but except in any of the "excepted matters" referred to

- in Clause 63.1 of these Conditions, the Contractor, after 120 days but within 180 days of his presenting his final claim on disputed matters shalt demand in writing that the dispute or difference be referred to arbitration.
- **64.(1)(i)(b):** Arbitration as a method of dispute resolution should not be routinely or automatically included in procurement contacts/tenders, especially in large contracts.
- **64.(1)(i)(c):** As a norm, arbitration as a method of dispute resolution may be restricted to disputes with a value less than Rs. 10 crore. This figure is with reference to the value of the dispute (not the value of the contract, which may be much higher).
- **64.(1)(i)(d):** Inclusion of arbitration clauses covering disputes with a value exceeding Rs. 10 crore, should be based on careful application of mind and recording of reasons and with the approval of an officer not below the rank of Senior Administrative Grade (SAG) or the Accepting Authority of the tender whichever is higher.
- **64.(1)(ii)(a):** The demand for arbitration shall specify the matters which are in question, or subject of the dispute or difference as also the amount of claim item-wise. Only such dispute or difference, in respect of which the demand has been made, together with counter claims or set off, given by the Railway, shall be referred to arbitration and other matters shall not be included in the reference.
- **64.(1)(ii)(b):** The parties may waive off the applicability of Sub-Section 12(5) of Arbitration and Conciliation (Amendment) Act 2015, if they agree for such waiver in writing, after dispute having arisen between them, in the format given under Annexure XV of these conditions.
- **64.(1)(iii)(a):** The Arbitration proceedings shall be assumed to have commenced from the day, a written and valid demand for arbitration is received by the Railway.
- **64.(1)(iii)(b):** The claimant shall submit his claims stating the facts supporting the claims along with all the relevant documents and the relief or remedy sought against each claim within a period of 30 days from the date of appointment of the Arbitral Tribunal.
- **64.(1)(iii)(c):** The Railway shall submit its defence statement and counter claim(s), if any, within a period of 60 days of receipt of copy of claims from Tribunal, unless otherwise extension has been granted by Tribunal.
- **64.(1)(iii)(d):** Place of Arbitration: The place of arbitration would be within the geographical limits of the Division of the Railway where the cause of action arose or the Headquarters of the concerned Railway or any other place with the written consent of both the parties.

- **64.(1)(iv):** No new claim shall be added during proceedings by either party. However, a party may amend or supplement the original claim or defense thereof during the course of arbitration proceedings subject to acceptance by Tribunal having due regard to the delay in making it.
- **64.(1)(v):** If the Contractor(s) does/do not prefer his/their specific and final claims in writing, within a period of 90 days of receiving the intimation from the Railways that the final bill is ready for payment, he/they will be deemed to have waived his/their claim(s) and the Railway shall be discharged and released of all liabilities under the contract in respect of these claims.
- **64.(2): Obligation During Pendency of Arbitration:** Work under the contract shall, unless otherwise directed by the Engineer, continue during the arbitration proceedings, and no payment due or payable by the Railway shall be withheld on account of such proceedings, provided, however, it shall be open for Arbitral Tribunal to consider and decide whether or not such work should continue during arbitration proceedings.

64.(3): Appointment of Arbitrator:

- 64.(3)(a): The Arbitral Tribunal shall consist of a panel of three arbitrators. General Manager/Additional General Manager will appoint two arbitrators, one railway nominee and other from among the contractor's nominee. Contractor can recommend his nominee either from approved panel of Railways or from approved panel of Indian Council of Arbitration (ICA) within 30 days from the date of dispatch of approval of wriuen and valid acceptance of demand for arbitration by the General Manager/Additional General Manager.
- 64.(3)(a)(i): If contractor wants to choose his nominee from Railway panel, the Railway will send a panel of at least four (4) names of retired Railway Officers empanelled to work as Arbitrator within 30 days from the day when a written and valid demand for arbitration is received by the General Manager/Additional General Manager. Contractor will be asked to suggest to General Manager/Additional General Manager at least 2 names out of the panel for appointment as Contractor's nominee within 30 days from the date of dispatch of the request by Railway. The General Manager/Additional General Manager shall appoint at least one out of them as the Contractor's nominee within 30 days from the receipt of the names of Contractor's nominees. The railway panel shall be provided free of cost to the contractor.
- **64.(3)(a)(ii):** If contractor wants to choose his nominee from Indian Council of Arbitration panel, Contractor will send at least 2 names of Arbitrators from the ICA panel for appointment as Contactor's nominee within 30 days from the date of dispatch of

the request by Railway. The General Manager/Additional General Manager shall appoint at least one out of them as the Contactor's nominee within 30 days from the receipt of the names of Contractor's nominees. Nomination and appointment of arbitrators from ICA panel shall be as per the ICA Rules for Domestic Commercial Arbitration and amended from time to time.

Some general guidelines of ICA Rules for Domestic Commercial Arbitration are as under:-

- i. Contractor may access the ICA's panel of arbitration through ICA's official webpage: https://icaindia.co.in/pdf/Engineers.pdf.
- ii. A formal request for nomination shall be submitted to ICA, accompanied by:
 - a. A brief Statement of Claim outlining the nature and quantum of the disputes.
 - b. A copy of the relevant contract and any supporting documents.
 - c. A copy of the notice intimating the other party of the initiation of arbitration proceedings, with proof of delivery (if any).
- iii. Ad-hoc appointment fees for the nomination and appointment of arbitrators shall be as per the ICA Rules for Domestic Commercial Arbitration and revised from time to time and shall be submitted along with the request.
- Contractor will be asked to suggest to General Manager at least 2 names out of the panel for appointment as Contractor's nominee within 30 days from the date of dispatch of the request by Railway. The General Manager shall appoint at least one out of them as the Contractor's nominee and will, also simultaneously appoint the balance number of arbitrators either from the panel or from outside the panel, duly indicating the 'presiding arbitrator' from amongst the 3 arbitrators so appointed. General Manager shall complete this exercise of appointing the Arbitral Tribunal within 30 days from the receipt of the names of Contractor's nominees. While nominating the arbitrators, it will be necessary to ensure that one of them is from the Accounts Department. An officer of Selection Grade of the Accounts Department shall be considered of equal status to the officers in Senior Administrative Grade of other departments of the Railway for the purpose of appointment of arbitrator.
- **64.3.(a).iii:** The serving railway officer working in arbitral tribunal in the ongoing arbitration cases as per clause 64.(3)(a)(i) and clause 64.(3)(a)(ii) above, can continue as arbitrator in the tribunal even after his retirement.
- **64.(3)(b):** Two selected arbitrators are free to select presiding arbitrator (3d arbitrator) within thirty (30) days from the date of their appointment. The presiding arbitrator may be selected from approved panel of Railways or approved panel of Indian Council of Arbitration (as per mutual agreement), which will be approved by General Manager/Additional General Manager. General Manager/Additional

General Manager shall complete this exercise of appointing the Arbitral Tribunal within 30 days from the receipt of the names of all the three arbitrators.

(i) In cases where the total value of all claims in question added together does not exceed ₹50,00,000/- (Rupees Fifty Lakh), the Arbitral Tribunal shall consist of a Retired Railway Officer, retired not below the rank of Senior Administrative Grade Officer, as the arbitrator. For this purpose, the Railway will send a panel of at least four (4) names of retired Railway Officer(s) empanelled to work as Railway Arbitrator duly indicating their retirement dates to the Contractor within 60 days from the day when a written and valid demand for arbitration is received by the General Manager.

Contractor will be asked to suggest to General Manager at least 2 names out of the panel for appointment as arbitrator within 30 days from the date of dispatch of the request by Railway. The General Manager shall appoint at least one out of them as the arbitrator within 30 days from the receipt of the names of Contractor's nominees.

(ii) In cases where the total value of all claims in question added together exceed ₹ 50,00,000/- (Rupees Fifty Lakh), the Arbitral Tribunal shall consist of a Panel of three (3) retired Railway Officer, retired not below the rank of Senior Administrative Grade Officer, as the arbitrators. For this purpose, the Railway will send a panel of at least four (4) names of retired Railway Officer(s) empanelled to work as Railway Arbitrator duly indicating their retirement date to the Contractor within 60 days from the day when a written and valid demand for arbitration is received by the General Manager.

Contractor will be asked to suggest to General Manager at least 2 names out of the panel for appointment as Contractor's nominee within 30 days from the date of dispatch of the request by Railway. The General Manager shall appoint at least one out of them as the Contractor's nominee and will, also simultaneously appoint the balance number of arbitrators either from the panel or from outside the panel, duly indicating the 'Presiding Arbitrator' from amongst the 3 arbitrators so appointed. General Manager shall complete this exercise of appointing the Arbitral Tribunal within 30 days from the receipt of the names of Contractor's nominees. While nominating the arbitrators, it will be necessary to ensure that one of them has served in the Accounts Department.

64.(3)(c)(i): If one or more of the arbitrators appointed as above refuses to act as arbitrator, withdraws from his office as arbitrator, or vacates his/their office/offices or is/are unable or unwilling to perform his functions as arbitrator for any reason whatsoever or dies or in the opinion of the General Manager/Additional General Manager fails to act without undue delay, the General Manager/Additional General Manager shall appoint new arbitrator/arbitrators to act in his/their place in the same manner in which the earlier arbitrator/arbitrators had been appointed. Such re-constituted

- Tribunal may, at its discretion, proceed with the reference from the stage at which it was left by the previous arbitrator (s).
- **64.(3) (c) (ii):** (a) The Arbitral Tribunal shall have power to call for such evidence by way of affidavits or otherwise as the Arbitral Tribunal shall think proper, and it shall be the duty of the parties hereto to do or cause to be done all such things as may be necessary to enable the Arbitral Tribunal to make the award without any delay. The proceedings shall normally be conducted on the basis of documents and written statements.
- (b) Before proceeding into the merits of any dispute, the Arbitral Tribunal shall first decide and pass its orders over any plea submitted/objections raised by any party, if any, regarding appointment of Arbitral Tribunal, validity of arbitration agreement, jurisdiction and scope of the Tribunal to deal with the dispute (s) submitted to arbitration, applicability of time 'limitation' to any dispute, any violation of agreed procedure regarding conduct of the arbitral proceedings or plea for interim measures of protection and record its orders in day to day proceedings. A copy of the proceedings duly signed by all the members of tribunal should be provided to both the parties.

64.3(c)(iii): (i) Qualification of Railway Empanelled Arbitrator (s):

- (a) Retired Railway Officers not below SA Grade level, one year after his date of retirement.
- (b) Age of arbitrator at the time of appointment shall be below 70 years.
- (c) Persons not involved in any current vigilance/CBl cases or against whom disciplinary or prosecution proceedings are not in process.
- (d)Persons who had not been imposed a major penalty or two or more minor penalties or against whom administrative action has not been taken three times or more or
- (e) Persons who have not been imposed one minor Penalty and against whom two administrative actions have not been taken as a result of vigilance/CBl action while in service on Railways.
- (ii) An arbitrator may be appointed notwithstanding the total number of arbitration cases in which he has been appointed in the past.
- (iii) While appointing arbitrator(s) under Sub-Clause 64.(3)(a), 64.(3)(a)(i),64.(3)(a)(ii) & 64.(3)(b) above, due care shall be taken that he/they is/are not the one/those who had an opportunity to deal with the matters to which the contract relates or who in the course of his/their duties as Railway servant(s) expressed views on all or any of the matters under dispute or differences. A certification to this effect as per annexure-XVI shall be taken from Arbitrators also. The proceedings of the Arbitral tribunal or the award made by such Tribunal will, however, not be invalid merely for the reason that one or more arbitrator had, in the course of his service, opportunity to deal with

- the matters to which the contract relates or who in the course of his/their duties expressed views on all or any of the matters under dispute.
- **64.(3)(d)(i):** The arbitral award shall state item wise, the sum and reasons upon which it is based. The analysis and reasons shall be detailed enough so that the award could be inferred therefrom.
- **64.(3)(d)(ii):** A party may apply for corrections of any computational errors, any typographical or clerical errors or any other error of similar nature occurring in the award of a Tribunal and interpretation of a specific point of award to Tribunal within 60 days of receipt of the award.
- **64.(3)(d)(iii):** A party may apply to Tribunal within 60 days of receipt of award to make an additional award as to claims presented in the arbitral proceedings but omitted from the arbitral award.
- **64.(4):** Any ruling on award shall be made by a majority of members of Tribunal. In the absence of such a majority, the views of the Presiding Arbitrator shall prevail.
- **64.(5):** Where the arbitral award is for the payment of money, no interest shall be payable on whole or any part of the money for any period till the date on which the award is made.
- 64. (6): The cost of arbitration shall be borne by the respective parties. If all the three arbitrators are selected from the Railway Panel, the fee of the arbitrators shall be determined as per the rates fixed/revised by Railway Board from time to time and the fee shall be borne equally by both the parties, provided parties sign an agreement in the format given at Annexure XV to these conditions after/ while referring these disputes to Arbitration. However, if any of the three arbitrators is selected from the Panel of Indian Council of Arbitration (ICA), the fee of the arbitrators shall be determined as per the rates fixed/revised by the Indian Council of Arbitration from time to time and the fee shall be borne equally by both the parties, provided parties sign an agreement in the format given at Annexure XV to these conditions after/ while referring these disputes to Arbitration..
- **64.(7)** Subject to the provisions of the aforesaid Arbitration and Conciliation Act 1996 and the rules thereunder and relevant para of the Standard General Conditions of Contract and any statutory modifications thereof shall apply to the appointment of arbitrators and arbitration proceedings under this Clause.
- **64.(8)** In case arbitration award is challenged by a party in the Court of Law, 75% of award amount, pending adjudication by Court of Law, shall be made by party to other party. In case payment is to be made by Railway to Contractor, the terms & conditions as incorporated in the Ministry of Railways letter No.

2016/CE(I)/CT/ARB/3(NITI Aayog)/Pt. dated 08th Mar,2017 as amended from time to time, shall be followed. In case Contractor has to pay to the Railway, then 75% of the award amount shall be deducted by the Railway from the Contractor's bills, Performance Guarantee/ Security Deposit or any other dues of Contractor with the Government of India.

PART-II ANNEXURES

ANNEXURE - VII

Reference Para 17B

Registered Acknowledgement Due

For and on behalf of the President of India

PROFORMA FOR TIME EXTENSION

	No		Dated:
	Sub:		(name of work).
		(ii)	Acceptance letter no
		(iii)	Understanding/Agreement no.
	Ref:		(Quote specific application of Contractor
	_	,	extension to the date received)
_	Dear	•	
1.		-	alated date for completion of the work mentioned above is
	wor	k wil	e progress made so far and the present rate of progress, it is unlikely that the ll be completed by the above date (or 'However, the work was not completed ate').
2.	com	pete	g that you may be able to complete the work if some more time is given, the nt authority, although not bound to do so, hereby extends the time for on from to
3.	Plea of th comp mer exte	se no ne wo oletion atione nded	ote that an amount equal to the liquidated damages for delay in the completion ork after the expiry of
1.	The	abov	re extension of the completion date will also be subject to the further condition acrease in rates on any account will be payable to you.
5 .			ntimate within a week of the receipt of this letter your acceptance of the of the conditions stated above.
6.	cond to co	ditior ompl	ote that in the event of your declining to accept the extension on the above said as or in the event of your failure after accepting or acting up to this extension ete the work by (here mention the extended date), further action aken in terms of Clause 62 of the Standard General Conditions of Contract.
			Yours faithfully

ANNEXURE - VIIA

(Reference Clause 40(A)

Registered Acknowledgement Due

PROFORMA OF 14 DAYS NOTICE FOR OFFLOADING OF PART OF CONTRACT WORK

RAILWAY
(Without Prejudice)
⁷ o
M/s
Dear Sir,
Contract Agreement No
In connection with
In spite of repeated instructions to you by the subordinate offices as well as by this office through various letters of even no, dated; you have ailed to show adequate progress of work so as to complete the contract within the
original / extended date of completion of contract and part(s) of contract work are yet to be started/ still lagging behind the agreed program of work, listed as under:
(Details of part(s) of work which is delayed and can be executed independently, to be mentioned). Your attention is invited to this office/Chief Engineer's office letter not in reference to your representation, dated
As you have failed to abide by the instructions issued to commence the work /to
how adequate progress of work, you are hereby given 14 days' notice in accordance with
Clause 40A of the Standard General Conditions of Contract to deploy adequate resources i.e. (the details of resource requirement, to be mentioned) and commence / to make good the progress for part(s) of works detailed above, failing which action as provided in Clause 40A of the Standard General Conditions of Contract shall be commenced after expiry of
4 days' notice period viz. to offload few/ all part(s) of work mentioned above to any of the existing or new contractor without your participation and at your Risk & Cost, not exceeding the value of Performance Guarantee of this contract, which may please be noted.
Kindly acknowledge receipt.
Yours faithfully
For and on behalf of the President of India

(Reference Clause 40(A)

Registered Acknowledgement Due

NOTICE FOR PART OF CONTRACT WORK OFFLOADED

	RAILWAY
	(Without Prejudice)
	То
	M/s
	Dear Sir,
	Contract Agreement No
	In connection with
	1. Fourteen days' notice under Clause 40A of the Standard General Conditions of Contract was given to you under this office letter of even no., dated; but you have taken no/inadequate action to deploy adequate resources to commence the part(s) of work/show adequate progress of the part(s) of work, mentioned therein. As you have failed to abide by the instructions issued to commence the part(s) of work/show adequate progress of the part(s) of work even at the lapse of 14 days' notice.
	period under Clause 40A of the Standard General Conditions of Contract, few part(s) of the work under the contract have been offloaded and being executed by other mode(s) at the cost detailed below:
	Or,
1.	Please refer your request letter no dated, wherein it was requested under clause 40 A of the Standard General Conditions of Contract to offload part(s) of works at your risk & cost. The details of part(s) of the work under the contract which have been offloaded and being executed by other mode(s) at the cost detailed below:
	(List of Part(s) of work offloaded, Details of mode of execution of such offloaded work alongwith approximate cost thereof to be mentioned)

2. The final measurement of work(s) already executed for above part(s) of work recorded as per clause 45 (A) or/and 45 (B) of the Standard General Conditions of Contract is enclosed

herewith.

3.	The Bill(s) of Quantities for Part(s) of work offloaded is enclosed herewith.
4.	The additional cost in execution of offloaded work through mode(s) mentioned in para (1) above is determined as Rs, over& above the cost of execution under this contract (including the PVC amount payable as per contract, as on the date of issue of this notice). This additional cost shall be recovered from your next on account bill(s) or any other dues payable to you under contract.
5.	The Contract value gets reduced to Rs:
6.	You are requested to continue with the balance work in the contract subsequent to offloading of above part(s) of work.
	Kindly acknowledge receipt.
	Yours faithfully
	For and on behalf of the President of India

Reference Para 60.(2)

Signature of Certifying Surgeon

CERTIFICATE OF FITNESS

1.	(a) Serial Number
	(b) Date
2.	Name of person examined
	Father's Name: son/daughter of
	Residing at
4.	Sex
	Residence:
6.	Physical fitness
7.	Identification marks
8.	Date of birth, if available, and/or certified age
	I certify that I have personally examined (name)who is desirous
	of being employed in a factory or on a work requiring manual labour and that
	his/her age as nearly as can be ascertained from my examination, is years.
	I certify that he/she is fit for employment in a factory or on a work requiring manual labour as an adult/child.
9	Reasons for:
٠.	(a) Refusal to grant certificate, or
	(b) Revoking the certificate
	(b) Revoking the certificate
	Signature or left hand
	Thumb impression of the person examined.

Note: In case of physical disability, the exact details and cause of the physical disability should be clearly stated.

Yours faithfully

For and on behalf of the President of India

(Reference Clause 62. (1)

Registered Acknowledgement Due

PROFORMA OF 7 DAYS NOTICE FOR WORKS AS A WHOLE/ IN PARTS (DETAILS OF PART OF WORK TO BE MENTIONED)

	RA	AILWAY		
	(Without Pre	judice)		
То				
M/s				
Dear Sir,				
Contract Agreement	t No			
In connection with _				
office through various lette failed to start work/show completing the work/ part	ers of even noers of even noers adequate progress to factorial of progress of work (details of progress).	, date and/or submit d part of work to be	etailed programme f mentioned).	ve for
2. Your attention is, dat	invited to this off ted in 1	fice/Chief Engin reference to your	eer's office letter r representation, dat	10. ed
3. As you have failed to show adequate progress of Clause 62 of the Standard Cogood the progress, failing volumeral Conditions of Contoneral work without your particip	work you are hereby General Conditions of which further action tract viz. to terminate	y given 7 days' no f Contract to com as provided in Cl	otice in accordance with mence works / to ma ause 62 of the Standa	ith ke ırd
Kindly acknowledge	e receipt.			

ANNEXURE - X

Reference Para 62(1)

Registered Acknowledgement Due

PROFORMA OF 48 HRS. NOTICE FOR WHOLE WORK

RAILWAY
(Without Prejudice)
То
M/s
Dear Sir,
Contract Agreement No
In connection with
Seven days' notice under Clause 62 of the Standard General Conditions of Contract was given to you under this office letter of even no., dated; but you have taken no action to commence the work/show adequate progress of the work.
2. You are hereby given 48 hours' notice in terms of Clause 62 of the Standard General Conditions of Contract to commence works / to make good the progress of works, failing which and on expiry of this period your above contract will be rescinded and the work under this contract will be carried out independently without your participation and your Security Deposit shall be forfeited and Performance Guarantee shall also be encashed and any other consequences which may please be noted.
Kindly acknowledge receipt.
Yours faithfully
For and on behalf of the President of India

ANNEXURE - XI

Reference Para 62.(1)

Registered Acknowledgement Due/Standard Correspondence through IR-WCMS/Email on registered IREPS Email

PROFORMA OF TERMINATION NOTICE

	RAILWAY
(V	Vithout Prejudice)
No	Dated
То	
M/s	
Dear Sir,	
In connection with	otice was given to you under this office letter of even
	a have taken no action to commence the work/show
rescinded in terms of Clause 62 of the balance work under this contract participation. Your participation as well	notice has already expired, the above contract stands he Standard General Conditions of Contract and the will be carried out independently without your well as participation of every member/partner in any ership firm/JV is hereby debarred from participation

The Final measurements of work executed by you against the said contract will be taken/started on____ at ___ hrs. at site. The measurement will be continued till all the measurement are taken. You are advised to be present at site on the above mentioned date and time to witness the measurements, otherwise measurements will be taken exparte and thereafter, variation (addendum & corrigendum) & final bill of work executed till date of termination based on ex-parte final measurements shall also be processed exparte.

in the tender for executing the balance work and your Security Deposit shall be forfeited

and Performance Guarantee shall also be encashed.

Yours faithfully

For and on behalf of the President of India

ANNEXURE - XII

Reference Para 62.(1)

Registered Acknowledgement Due

(DETAILS OF PART OF WORK TO BE MENTIONED)
RAILWAY
(Without Prejudice)
То
M/s
Dear Sir,
Contract Agreement No
In connection with
Contract was given to you under this office letter of even no., dated; but you have taken no action to commence the work/show adequate progress of the part of work(details of part to be mentioned).
2. You are hereby given 48 hours' notice in terms of Clause 62 of the Standard General Conditions of Contract to commence works / to make good the progress of works, failing which and on expiry of this period your above part of work(Details of part to be mentioned) in contract will be rescinded and the work will be carried out independently without your participation.
3. Your full Performance Guarantee for the contract shall be forfeited and you shall no be issued any completion certificate for the contract. However, no additional Performance Guarantee shall be required for balance of work being executed through the part terminated contract.
4. The contract value of part terminated contract shall stands reduced to
Kindly acknowledge receipt

Yours faithfully

For and on behalf of the President of India

ANNEXURE - XIII

Reference Para 62.(1)

Registered Acknowledgement Due

For and on behalf of the President of India

PROFORMA OF TERMINATION NOTICE FOR PART OF THE WORK...... (DETAILS OF PART OF WORK TO BE MENTIONED)

	RAILWAY
	(Without Prejudice)
No	Dated
Го	
M	/s
Dear S	Sir,
	Contract Agreement No
	In connection with
1.	Forty eight hours (48 hrs.) notice was given to you under this office letter of even no., dated; but you have taken no action to commence the work/show adequate progress of the part of work(details of part to be mentioned).
2.	Your above part of work in contract
3.	Your full Performance Guarantee for the contract shall be forfeited and you shall not be issued any completion certificate for the contract. However, no additional Performance Guarantee shall be required for balance of work being executed through the part terminated contract.
4.	The contract value of part terminated contract stands reduced to
	Kindly acknowledge receipt.
	Yours faithfully
	,

Reference Para 48.(3)

FINAL SUPPLEMENTARY AGREEMENT

1.	Articles of agreement made this day in the year between the President of India, acting through the Railway Administration having his office at herein after called the Railway of the one part and of the second part.
2.	Whereas the party hereto of the second part executed an agreement with the party hereto of the first part being agreement Numberdatedfor the performanceherein after called the 'Principal Agreement'.
3.	And whereas it was agreed by and between the parties hereto that the works would be completed by the party hereto of the second part ondate last extended and whereas the party hereto of the second part has executed the work to the entire satisfaction of the party hereto of the first part.
4.	And whereas the party hereto of the first part already made payment to the party hereto of the second part diverse sums from time to time aggregating to ₹ including the Final Bill bearing voucher No dated of value duly adjusted as per price variation clause, if applicable (the receipt of which is hereby acknowledged by the party hereto of the second
	(the receipt of which is hereby acknowledged by the party hereto of the second part in full and final settlement of all his /its claims under the principal agreement.
	And whereas the party hereto of the second part have received sum of ₹ through the Final Bill bearing voucher No dated duly adjusted as per price variation clause (PVC), if applicable (the receipt of which is hereby acknowledged by the party thereto of the second part) from the party hereto of the first part in full and final settlement of all his/its disputed claims under principal agreement.
	Now, it is hereby agreed by and between the parties in the consideration of sums already paid by the party hereto of the first part to the party hereto of the second part against all outstanding dues and claims for all works done under the aforesaid principal agreement excluding the Security Deposit, the party hereto of the second part have no further dues of claims against the party hereto of the first part under the said Principal Agreement. It is further agreed by and between the parties that the party hereto of the second part has accepted the said sums mentioned above in full and final satisfaction of all its dues and claims under the said Principal Agreement.
	(Applicable in case Final Supplementary Agreement is signed after release of Final Payment)
	Or
	And whereas the party hereto of the first part already made payment to the party hereto of the second part diverse sums from time to time aggregating to ₹ through various On Account Bills (the receipt of which is hereby acknowledged by the party hereto of the second part).

And whereas the party hereto of the second part have received sum of ₹ ______ through various On Account Bills (the receipt of which is hereby acknowledged by the party thereto of the second part) from the party hereto of the first part and party hereto of the second part have accepted final measurements recorded on Page No.... to Page No.... of Measurement Book No......and corresponding Final Bill duly adjusted as per price variation clause (PVC), if applicable, for full and final settlement of all his/its disputed claims under principal agreement.

Now, it is hereby agreed by and between the parties in the consideration of sums already paid through various On Account Bills and sums to be paid through Final Bill duly adjusted as per price variation clause (PVC), if applicable, based on accepted final measurements including the Security Deposit by the party hereto of the first part to the party hereto of the second part against all outstanding dues and claims for all works done under the aforesaid principal agreement, the party hereto of the second part have no further dues of claims against the party hereto of the first part under the said Principal Agreement.

(Applicable in case Final Supplementary Agreement is signed before release of Final Payment)

5. It is further agreed and understood by and between the parties that the arbitration clause contained in the said principal agreement shall cease to have any effect and/or shall be deemed to be non-existent for all purposes.

Signature of the Contractor/s	for and on behalf of the President of India	
Witnesses		
ADDRESS:		

Reference Para 64.3 & 64.6

Agreement towards Waiver under Section 12(5) and Section 31A (5) of Arbitration and Conciliation (Amendment) Act

I/we (Name of agency/Contractor) with reference to agreement no raise disputes as to the construction and operation of this contract, or the respective rights and liabilities, withholding of certificate and demand arbitration in
respect of following claims:
Brief of claim:
 (i) Claim 1- Detailed at Annexure- (ii) Claim 2 - (iii) Claim 3 -
I/we
I/wedo/do not agree to waive off applicability of section 12(5) of Arbitration and Conciliation (Amendment) Act.
Signature of ClaimantSignature of Respondent
Agreement under Section 31(5) I/we (Name of claimant) with reference to agreement no hereby waive off the applicability of sub section 31-A (2) to 31-A (4) of the Arbitration and
Conciliation (Amendment Act. We further agree that the cost of arbitration will be shared by the parties as per Clause 64(6) of the Standard General Conditions of Contract.
Signature of ClaimantSignature of Respondent
*Strike out whichever not applicable.

ANNEXURE-XVI

Reference Para 64.(3)

Certification by Arbitr	rators appointed under Clause 63 & 64 of Indian Railw	ays
	General Conditions of Contract	

		General Conditions of Contract	
1.	Name:		

3. Prior experience (Including Experience with Arbitrations):

2. Contact Details:

- 4. I do not have more than ten on-going Arbitration cases with me.
- 5. I hereby certify that I have retired from Railways w.e.f. ____ and empanelled as Railway Arbitrator as per 'The Arbitration and Conciliation Act-1996'.
- 6. I have no any past or present relationship in relation to the subject matter in dispute, whether financial, business, professional or other kind.

I have past or present relationship in relation to the subject matter in dispute, whether financial, business, professional or other kind. The list of such interests is as under:

7. I have no any past or present relationship with or interest in any of the parties whether financial, business, professional or other kind, which is likely to give rise to justifiable doubts as to my independence or impartiality in terms of The Arbitration and Conciliation Act-1996.

I have past or present relationship with or interest in any of the parties whether financial, business, professional or other kind, which is likely to give rise to justifiable doubts as to my independence or impartiality in terms of The Arbitration and Conciliation Act-1996. The details of such relationship or interests are as under:

8. There are no concurrent Circumstances which are likely to affect my ability to devote sufficient time to the arbitration and in particular to finish the entire arbitration within twelve months.

Or

There are Circumstances which are likely to affect my ability to devote sufficient time to the arbitration and in particular to finish the entire arbitration within twelve months. The list of such circumstances is as under:

B. New Annexure - XVII, Part-II of GCC-2022 shall be read as under:-

ANNEXURE-XVII

Reference Para 16.(4)

Insurance Surety Bond for Performance Security

Name of the issuer of surety bond:	
President of India, Acting through,	
Railway.	
Date:	
Surety Bond No:	Issue Date: Expiry Date:
WHEREAS, In consideration of the President of	contract signing ed "The Railway") having for the work of XXX" under
AND WHEREAS, the contractor is required to furnish Performance Secu (Rupees XXXX Only), in the form of Surety Bond, being a condit of the contract agreement.	•
or the contract agreement.	
Re	Lingh.

- 12. The Surety hereby undertakes not to revoke the Bond during its currency, except with the previous consent in writing of the Railway. This Bond is subject to the Uniform Rules for Demand Bonds, ICC Publication No. 758.
- 13. We, the Surety Insurer, further agree that the Authority shall be the sole judge to decide as to whether the Bidder is in default of due and faithful fulfilment and compliance with the terms and conditions contained in the Bidding Documents including, inter alia, the failure of the Bidder to keep its Bid open during the Bid validity period set forth in the said Documents, and the decision of the Authority that the Bidder is in default as aforesaid shall be final and binding on us, notwithstanding any differences between the Authority and the Bidder or any dispute pending before any Court, tribunal, arbitrator or any other authority.
- 14. The Bond shall be in addition to and without prejudice to any other security Bond (s) of the contractor in favour of the Railway available with the Railway. The Surety, under this Bond, shall be deemed as Principal Debtor of the Railway.

Notwithstanding anything to the contrary contained in these presents,

- Our liability under this Surety Bond shall not exceed XXXX (Rupees XXXXX Only).
- b. This Surety Bond shall be valid up to XXXX (being the date of expiry);
- c. Unless the bank is served a written claim or demand on or before XXXX [date of expiry] all rights under this Bond shall be forfeited and the Surety shall be relieved and discharged from all liabilities under this Bond irrespective of whether or not the original Surety bond is returned to the Surety.

Dated the day of 2024

15.	The	Insurance	Surety	Bond	shall	be	verified	by	sending	mail	to
	custo	mer.care@sb	igeneral.ii	n].							

Place	Bank's Seal and authorized signature(s)
	[Name in Block letters]
	[Designation with Code No.]
	[P/Attorney] No.

Witness

1.

2.

[Note: All italicized texts are for guidance on how to prepare this Insurance Surety Bond and shall be deleted from the final document.]

विकास

Pedingh

End of Tender Document