



NORTHERN RAILWAY

ELECTRICAL/G DEPARTMENT

TENDER DOCUMENT

WEBSITE: www.ireps.gov.in

E-TENDER NO.: 251-Elect-T-02-2026-27

DUE ON

03.07.2026

FOR THE WORK OF

‘Electrical work in c/w Augmentation of Service building for SSE(C&W) office in lieu of old building for C&W Coaching Depot, FZR, Electrical work in c/w General Watering Arrangements at FKA, MOGA & LNK of Firozpur Division, Electrical work in c/w Provision of 15 bedded male barrack at Attari and Electrical work in c/w Improvement to washing line no. 4 and Sick line / Ac pit at Amritsar Railway Station in the section of ADEN-II/ASR..’

**OFFICE OF
SR. DIVISIONAL ELECTRICAL ENGINEER (G),
DRM OFFICE, NORTHERN RAILWAY
FIROZPUR CANTT-152001, PUNJAB-INDIA
[e-mail Id: srdeegfzr@gmail.com](mailto:srdeegfzr@gmail.com)**

TOP SHEET

A): DETAILS TO BE FILLED IN BY RAILWAY:

Tender Notice No.	251-Elect/T.Notice No.02-Elect/2026-27
Name of Work	Electrical work in c/w Augmentation of Service building for SSE(C&W) office in lieu of old building for C&W Coaching Depot, FZR, Electrical work in c/w General Watering Arrangements at FKA, MOGA & LNK of Firozpur Division, Electrical work in c/w Provision of 15 bedded male barrack at Attari and Electrical work in c/w Improvement to washing line no. 4 and Sick line / Ac pit at Amritsar Railway Station in the section of ADEN-I/ASR..
Approximate Cost of the Work	Rs.76,73,907.22/- (Including GST and all other taxes)
Completion Period	06 Months (Six Months)
Bid Security to be deposited	152200.00
Sale/availability of tender document on Rly. Website	Tender documents will be available on IREPS web site i.e. www.ireps.gov.in from 12.06.2026.
Last date/Time of upload of tenders	03.07.2026 upto 15.00 hours. Tender documents can be uploaded by the tenderer on IREPS web site.
Date/Time of Opening of Tender	03.07.2026 at 15.00 hrs. (Immediately after close of uploading of tender).

B): MANDATORY DETAILS TO BE FILLED IN BY TENDERER WHILE SUBMITTING THEIR OFFER.

1.	Constitution of the firm / Concern (Tick as applicable)	Sole Proprietorship / Partnership Firm / Company / JV / Society / LLP / HUF
2.	Full name of Sole Proprietorship / Partnership firm / Company / JV / Society (as the case may be)	
3.	Year of formation / incorporation	
4.	PAN Certificate No.	
5.	Registered Office Address	
6.	Address on which correspondence regarding this tender should be done	
7.	Names of the Proprietor / Partners / JV members etc	
8.	Contact No and e-mail id of authorized person under whose digital signature key tender document will be signed / uploaded on behalf of the tendering firm	

NOTE:

- (i) Special attention of tenderers is drawn to clause 1.1.4 of Part-I, Chapter-I "Preamble & General Instructions to tenderers", as per which the tender must submit along with tender, the documents mentioned therein pertaining to constitution of firm / concern.
- (ii) Special attention of tenderers is drawn to clause 1.1.12.2 of Part-I, Chapter-I "Preamble & General Instructions to tenderers", as per which they should submit the requisite documents along with tender pertaining to their Technical & Financial eligibility.
- (iii) Special attention of tenderers is drawn to Annexure-B of Tender Notice.

Signature of the Tenderer: -----**Name of signatory: -----**

c): Check List of Mandatory documents to be uploaded by the tenderer(s) while submitting their offer. (SINGLE PACKET)

Tenderer must upload following documents without fail along with their offer.

1.	Requisite Bid security: 152200.00 a) (ON LINE mode): (No Documentary Proof required). b) In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured: (A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender). c) If exemption applied: (Documentary Proof required)
2.	All requisite documents mentioned in clause 1.1.4 of Part-I, Chapter-I "Preamble & General Instructions to tenderers" pertaining to constitution of firm / concern. (As applicable).
3.	All requisite documents / credentials mentioned in clause 1.1.12.2 of Part-I, Chapter-I "Preamble & General Instructions to tenderers" pertaining to his / their Technical and Financial eligibility.
4.	Tenderers are compulsorily required to upload copy of valid Electrical Contractor License as well as Certificates as per Annexure-19A as stipulated in 1.1.3.10 & 1.1.3.10.1 of Part-I, Chapter-I "Preamble & General Instructions to tenderers" without which the offer will be considered incomplete and will be rejected summarily.
5.	Tenderers are required to upload PAN Certificate, GSTIN Certificate as well as Certificates as per Annexure-9, Annexure-10, Annexure-11, Annexure-12, Annexure-13, Annexure-14, Annexure-15, Annexure-16, Annexure-18, Annexure-20 & Annexure-21 without which the offer is liable to be rejected.

NOTE:

- (i) Tenderer may please note that offers received without copy of valid Electrical License, Annexure-19A as mentioned above, will be considered as incomplete & invalid tender and for which contractor shall have no claim on Railway.
- (ii) After opening of tender, any document / credential pertaining to technical, financial Eligibility and constitution of firm etc shall neither be asked nor be entertained / considered under any circumstances and no claim or representation whatsoever from the Tenderer in this regard shall be entertained. However Railway reserves the right to ask for any clarification on the documents / credentials already submitted by the Tenderer along with the offer.
- (iii) To assist in the examination, evaluation & comparison and pre-qualification 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.
- (iv) Tenderer may have to submit the original Documents in physical form at short notice whenever asked by Railway at any stage of tender evaluation process or even after finalization of tender.

- (v) In E-tender, all submissions of documents are to be uploaded on web-site. There may be last minute hic-cups and delay in uploading the documents etc, Tenderer's / Prospective bidders are advised to upload their offer well in time. Railway will not be responsible for any delay/non submission of offer due to any reason whatsoever.
- (vi) Annexure-20: Undertaking Regarding Employment / Partnership of Retired Railway Employees.

D): PRECAUTIONS TO BE TAKEN FOR PREPARING LEGAL DOCUMENTS

(FOR GUIDANCE TO TENDERER)

1.0 NON-JUDICIAL STAMP PAPER:

- 1.1 Should have been purchased in the name of the Company / firm / executants
- 1.2 Should be purchased from the Place / State where the document is being executed.
- 1.3 Values of the Non-Judicial Stamp Paper (NJSP) should be as mentioned in Tender conditions, where value of NJSP is not mentioned in the tender conditions, value of NJSP should be as per the law of the state in which the document is being executed.
- 1.4 Date of purchase of Non judicial stamp paper should be prior from the date of execution of document.

2.0 SIGNATURE ON THE DOCUMENT:

- 2.1 The document should be signed on each page and also at the appropriate place meant for signature of executants / deponent.
- 2.2 Signatory / executants should ensure that on the date of signing the document he/she has valid authority / attorney in his/her favour for signing.
- 2.3 In affidavit declaration clause as well as verification clause both should be signed by deponent / executants.
- 2.4 Where the document requires witnessing, it should be duly signed by witnesses along with their names and addresses.
- 2.5 On Power of Attorney, signatures of the Attorney holder should also be got done and attested by executants.

3.0 FORMAT OF THE DOCUMENT:

- 3.1 Where the format has been prescribed by the Railway, the document should be executed in that format.
- 3.2 Date and place of execution should always be mentioned on the document.

4.0 NOTARIZATION OF DOCUMENT:

- 4.1 The document should be duly attested (signed and stamped) by notary public on each page.
- 4.2 The seal of the notary public should contain his name, area of practice and Registration number.
- 4.3 Notarized stamps of appropriate value wherever required should be affixed on the

document.

NORTHERN RAILWAY
TENDER NOTICE
(NOTICE FOR UPLOADING ON WEBSITE)

Office of the
Sr. Divisional Electrical Engineer (G)
Northern Railway, Firozpur

Sr. Divisional Electrical Engineer (G), Northern Railway, Firozpur and on behalf of the President of India invites open e-tender for the following work:

S. N.	Name of work	Approx. Cost (Rs.)	Bid Security (Rs.)	Period of Completion	Availability of documents / Cost of Tender document
1.	Electrical work in c/w Augmentation of Service building for SSE(C&W) office in lieu of old building for C&W Coaching Depot, FZR, Electrical work in c/w General Watering Arrangements at FKA, MOGA & LNK of Firozpur Division, Electrical work in c/w Provision of 15 bedded male barrack at Attari and Electrical work in c/w Improvement to washing line no. 4 and Sick line / Ac pit at Amritsar Railway Station in the section of ADEN-I/ASR..	76,73,907.22	152200.00	Six Months	Nil For e-Tender.

Code	Activity	Date
D0	Issue of Tender Notice and availability of Tender Document on www.ireps.gov.in	12.06.2026
D1	Start of Submission of offers at www.ireps.gov.in	19.06.2026
D2	End of Availability of Tender Documents at www.ireps.gov.in. Opening of tender / offer.	03.07.2026
NOTE: This is also the last date for uploading of completed offers by the bidders.		
The reference time for all the above activities is 15:00 hrs.		
NOTE: Incase the intended date for opening of tenders is declared a holiday, the tenders will be opened on the next working day at the same time.		

VALIDITY OF OFFER:

60 days (in case of two packet system of tendering 90 days) from the date of opening of Tender.

ELECTRICAL CONTRACTOR'S LICENSE:

Signature of Tenderer

The attested copy of valid Electrical Contractor's License must be submitted by the tenderer along with their offer, failing which the offer shall be rejected summarily.

TECHNICAL:

- 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:

Three similar works each costing not less than the amount equal to 30% of advertised value of the tender,

OR

Two similar works each costing not less than the amount equal to 40% of advertised value of the tender,

OR

One similar work each 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:

Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender,

OR

Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender,

OR

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 fulfillment 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 fulfill 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 Technical Eligibility Criteria:

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.

FINANCIAL:

The tenderer must have minimum average annual contractual turnover of 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-15, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.

SUBMISSION OF TENDER DOCUMENTS & OPENING:

The tenders may be uploaded up to **03.07.2026** along with scanned copy of all the requisite documents (as per Annexure A and B).

- Tender will be opened on **03.07.2026** i.e. immediately after close of uploading of tenders.
- Tenderer may have to submit the original Documents in physical form at short notice whenever asked by Railway at any stage of tender evaluation process or even after finalization of tender.
- In E-tender, all submissions of documents are to be uploaded on web-site. There may be last minute hic-cups and delay in uploading the documents etc, Tenderer's / Prospective bidders are advised to upload their offer well in time. Railway will not be responsible for any delay / non submission of offer due to any reason whatsoever.

The cost of the Tender Documents is NIL for online tendering and Tender Document is not transferable.

"JVs / Consortiums / MOUs shall be considered in accordance with approved tender conditions."

The detailed e-tender notice is available on Northern Railway web site i.e. www.ireps.gov.in

NOTE:

1. Works contracts shall be treated as supply of services as per schedule-II GST Act.
2. GST Act and Rules issued from time to time by the Govt / concerned authorities shall be applicable.
3. Contractor / suppliers / service providers / parties shall register their firms State wise under GSTIN (GST Identification Number) and submit at the time of opening of tender or before the signing the agreement and shall mention place of business, registered office address and e-mail id.
4. The bidders who desires to participate against e-tenders, are advised to electronically register themselves

on website www.ireps.gov.in for which they would require to obtain Class-III digital certificate (if already not obtained) issued by CCA under IT Act-2000.

5. All other terms and conditions in respect of above tender are given in the tender document.

Only e-tenders will be accepted and tenders submitted in any other form will be summarily rejected.

No.: 251-Elect-T-02-2026-27
Dated: 12.06.2026

Sr. Divisional Electrical Engineer (G),
Northern Railway, Firozpur

e-mail Id: srdeegfzr@gmail.com

Annexure- A

SCANNED COPY OF THE DOCUMENTS TO BE UPLOADED ALONG WITH OFFER

S. N.	Document	Required in the form	If Not submitted along with the tender, then
1	Cost of Tender Document (in terms of Clause 1.1.3.3 (a) of tender document)	ONLINE MODE (no documentary proof required) (Nil for e-tender).	--
2.	Bid-Security (in terms of Clause 1.1.7 of tender document)	i) ONLINE MODE :NIL ii) In case, submission of Bid Security in the form of Bank Guarantee, following shall be ensured: (A scanned copy of the Bank Guarantee shall be uploaded on e-Procurement Portal (IREPS) while applying to the tender). iii) EXEMPTED FOR THIS TENDER: (documentary proof required)	Summarily Rejected
3.	Constitution of Firm documents (as required in terms of Clause 1.1.4 of the tender document)	--	Summarily Rejected After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF 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.
a	In case of Sole Proprietorship Concern	As per para 14(iii) of GCC-2022, 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.	
b	In case of 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.	

c	In case of a "Partnership Firm / Concern"	<p>The tenderer shall submit:</p> <ul style="list-style-type: none"> (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 infavour 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. <p>COMPLETE DETAILS AS PER ANNEXURE-17B</p>	<p>Note: If all the requisite documents pertaining to the constitution of the firm/JV/sole proprietorship/ partnership firm/company/Society/LLP/HUF etc., as specified in clause 1.1.4 above, are not submitted, offer will be considered as incomplete and shall be summarily rejected.</p>
d	<p>In case of a "JV Firm" (Applicable only for works costing more than Rs.10.00 crore)</p> <p>(Not applicable for this tender)</p>	<p>Documents to be enclosed by the JV along with the tender:</p> <ul style="list-style-type: none"> 1) In case one or more of the members of the JV is/are partnership firm(s), following documents shall be submitted: <ul style="list-style-type: none"> (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. 2) In case one or more members is/are Proprietary Firm or HUF, the following documents shall be enclosed: <ul style="list-style-type: none"> (i) 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 	

		<p>members to act on behalf of HUF.</p> <p>3) In case one or more members of the JV is/are companies, the following documents shall be submitted:</p> <p>(i) A copy of resolutions of the Directors of the Company, permitting the company to enter into a JV agreement.</p> <p>(ii) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company.</p> <p>(iii) A copy of Certificate of Incorporation.</p> <p>(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.</p> <p>4) In case one or more members of the JV is/are LLP firm/s, the following documents shall be submitted:</p> <p>(i) A copy of LLP Agreement.</p> <p>(ii) A copy of Certificate of Incorporation of LLP.</p> <p>(iii) A copy of resolution passed by partners of LLP firm, permitting the Firm to enter into a JV agreement.</p> <p>(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.</p> <p>(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.</p> <p>5) In case one or more members of the JV is/are Society/s or Trust/s, the following documents shall be submitted:</p> <p>(i) A copy of Certificate of Registration.</p> <p>(ii) A copy of Memorandum of Association of Society/Trust Deed.</p> <p>(iii) A copy of Rules & Regulations of the Society.</p> <p>(iv) A copy of Power of Attorney, in favour of the individual to sign the tender documents and create liability against the Society/Trust.</p>	
e	In case of a "Company"	<p>The tenderer shall submit:</p> <p>(i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company</p> <p>(ii) A copy of Certificate of Incorporation.</p> <p>(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</p>	<p>Summarily Rejected</p> <p>After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF etc. shall be neither asked</p>

Signature of Tenderer

		against the company.	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.
f	In case of a "LLP (Limited Liability Partnership)"	<p>The tenderer shall submit:</p> <p>(i) A copy of LLP Agreement</p> <p>(ii) A copy of Certificate of Incorporation</p> <p>(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.</p> <p>(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.</p>	<p>Note: If all the requisite documents pertaining to the constitution of the firm/JV/sole proprietorship/ partnership firm/company/Society/LLP/HUF etc., as specified in clause 1.1.4 above, are not submitted, offer will be considered as incomplete and shall be summarily rejected.</p>
g	In case of a "Registered Society & Registered Trust".	<p>The tenderer shall submit:</p> <p>(i) A copy of the Certificate of Registration.</p> <p>(ii) A copy of Memorandum of Association of Society/Trust Deed.</p> <p>(iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust.</p> <p>(iv) A copy of Rules & Regulations of the Society.</p>	<p>Summarily Rejected</p> <p>After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF 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.</p> <p>Note: If all the requisite documents pertaining to the constitution of the firm/JV/sole proprietorship/ partnership firm/company/Society/LLP/HUF etc., as specified in clause 1.1.4 above, are not submitted, offer will be considered as incomplete and shall be summarily rejected.</p>

Annexure-B

SCANNED COPY OF DOCUMENTS TO BE UPLOADED ALONG WITH THE TENDER

S. No.	Document	Description	Required in the form	If Not submitted along with the tender, then
1.	Technical Eligibility Criteria	Completion / Performance Certificate in support of 30% or 40% or 60% similar nature of work as per clause-1.1.12.2 (I) of tender document.	Copy	Summarily Rejected Note:- As per para 7(E) of GCC-2022 After opening of tender and in view to assist in the examination, evaluation & comparison and pre-qualification 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.
2.	Financial Eligibility Criteria	Minimum average annual contractual turnover of 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. as per clause-1.1.12.2 (II) of tender document.	Copy	
3.	Electrical Contractor License	The tenderers must submit attested copy of valid Electrical contractor license along with his offer. as per clause-1.1.12.2 (III) of tender document.	Copy	Summarily Rejected
4.	Annexure-6	Tenderer's Credentials (Bid Capacity).	<p align="center">--- NA---</p> <p align="center">(Being Tender cost below 10.0 Cr.) (Authority : Railway Board Letter no.2022/CE-I/CT/GCC-2022/POLICY/Pt.I(E-3320424 dated 13.03.2026 Regarding ACS No. 11 of GCC works 2022))</p>	
5.	Annexure-9	Declaration form regarding site etc.	Copy	Liable to be Rejected
6.	Annexure-10	Declaration regarding constitution of firm.	Copy	Liable to be Rejected
7.	Annexure-11	Plant and Machinery.	Copy	Liable to be Rejected
8.	Annexure-12	Engineers / Personnel.	Copy	Liable to be Rejected
9.	Annexure-13	Work executed in last seven years.	Copy	Liable to be Rejected
10.	Annexure-14	Work in Hand.	Copy	Liable to be Rejected
11.	Annexure-15	Average annual contractual turnover.	Copy	Liable to be Rejected
12.	Annexure-16	Bank Detail / RTGS.	Copy	Liable to be Rejected
13.	Annexure-18	Performa of Completion Certificate.	Copy	Liable to be Rejected
14.	Annexure-19	Certificate in the form of Annexure-M to be submitted by tenderer along with the tender documents.	Copy	-
15.	Annexure-19A	This certificate is to be given by attorney/authorized signatory/each member of Partnership firm/Joint venture /Hindu divided Family HAF / Limited Liability Partnership (LLP) etc.	Copy	Summarily Rejected
16.	PAN Certificate	--	Copy	Liable to be Rejected
17.	GSTIN	--	Copy	Liable to be Rejected
18.	Annexure-20	Undertaking Regarding Employment / Partnership of Retired Railway Employees	Copy	Liable to be Rejected
19.	Annexure-21	In case of Offline Bank Guarantee Bond (EMD)		Summarily Rejected

Signature of Tenderer

NORTHERN RAILWAY

TENDER FORM (FIRST SHEET)

Tender No.: 251-Elect-T-02-2026-27

Name of Work: Electrical work in c/w Augmentation of Service building for SSE(C&W) office in lieu of old building for C&W Coaching Depot, FZR, Electrical work in c/w General Watering Arrangements at FKA, MOGA & LNK of Firozpur Division, Electrical work in c/w Provision of 15 bedded male barrack at Attari and Electrical work in c/w Improvement to washing line no. 4 and Sick line / Ac pit at Amritsar Railway Station in the section of ADEN-I/ASR.

To,

**The President of India
Acting through Sr. Divisional Electrical Engineer (G),
Northern Railway, Firozpur division**

1. I/We _____ have read the various conditions to tender attached hereto and agree to abide by the said conditions. I/We also agree to keep this offer open for acceptance for a period of **60** days from the date fixed for closing of the tender and in default thereof, I/We will be liable for forfeiture of my/our "Bid Security". I/We offer to do the work for Northern Railway, at the rates quoted in the attached bill(s) of quantities and hereby bind myself/ourselves to complete the work in all respects within **06 Months (Six Months)** from the date of issue of letter of acceptance of the tender.
2. I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract, with all correction slips up-to-date and to carry out the work according to the Special Conditions of Contract and Specifications of materials and works as laid down by Railway in the annexed Special Conditions/Specifications, Standard Schedule of Rates (SSOR) with all correction slips up-to-date for the present contract.
3. A Bid Security of ₹ **152200.00** has already been deposited online/ submitted as Bank Guarantee bond. Full value of the Bid Security shall stand forfeited without prejudice 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.
4. (a) I/We am/are a Startup firm registered by Department of Industrial Policy and Promotion (DIPP) and my registration number is valid upto (Copy enclosed) and hence exempted from submission of Bid Security.
5. We are a Labour Cooperative Society and our Registration No. is withand hence required to deposit only 50% of Bid Security.
6. Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed to between us and indicated in the letter of acceptance of my/our offer for this work.

Signature of Tenderer(s)

Date _____

Address of the Tenderer(s)

Signature of Tenderer

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 upto latest correction slips, copies of which can be seen in the office of Sr.DEE/G/FZR or obtained from the office of the Chief Engineer, Northern Railway on payment of prescribed charges.
- (e) Standard Schedule of Rates (SSOR) as amended / corrected upto latest correction slips, copies of which can be seen in the office of Sr.DEE/G/FZR or obtained from the office of the Chief Engineer, Northern 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 Sr.DEE/G/FZR and / or Chief Engineer, Northern 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 **06 Months (Six Months)** from the date of issue of acceptance letter.

PART-I

CHAPTER-I

PART-I

CHAPTER-I

PREAMBLE & GENERAL INSTRUCTIONS TO TENDERERS

1.0 INTRODUCTION:

On behalf of President of India, Sr. Divisional Electrical Engineer (G), Northern Railway, Firozpur, herein after referred to as 'Railway' open e-tender under single packet system are invited from established, experienced and reliable manufacturers / Contractors for execution of works as detailed below.

The contract emerging out of this tender shall be referred to as works contract and contractor who is awarded work contract shall be referred as works contractor.

1.1 SCOPE OF WORK:

These papers are related to the following detailed works:

1.1.1 Name of Work:

Electrical work in c/w Augmentation of Service building for SSE(C&W) office in lieu of old building for C&W Coaching Depot, FZR, Electrical work in c/w General Watering Arrangements at FKA, MOGA & LNK of Firozpur Division, Electrical work in c/w Provision of 15 bedded male barrack at Attari and Electrical work in c/w Improvement to washing line no. 4 and Sick line / Ac pit at Amritsar Railway Station in the section of ADEN-I/ASR..

1.1.2 LOCATION:

Works is to be executed over Firozpur division.

1.1.3 SUBMISSION OF TENDERS:

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.

1.1.3.1 The tenders may be uploaded up to **03.07.2026** along with scanned copy of all the requisite documents (as per Annexure-A & B).

1.1.3.2 Tender / offer will be opened on **03.07.2026**, i.e. immediately after close of uploading of tenders. Tender / offer shall contain the scanned copies of all necessary documents regarding constitution of the firm and other requisite documents / credentials as per Annexure-A and B.

Tenderer may have to submit the original Documents in physical form at short notice whenever asked by Railway at any stage of tender evaluation process or even after finalization of tender.

In E-tender, all submissions of documents are to be uploaded on website. There may be last minute hic-cups and delay in uploading the Documents etc, Tenderer's / Prospective bidders are advised to upload their offer well in time. Railway will not be responsible for any delay/non submission of offer due to any reason whatsoever.

1.1.3.3 COST OF TENDER DOCUMENTS:

Tender Documents will be available on IREPS web site i.e. **www.ireps.gov.in** from **12.06.2026** to **03.07.2026** upto **15:00 hrs**. The cost of tender document is "**NIL**" for e-Tender.

1.1.3.4 The Tender Documents shall be uploaded upto **15:00 hours** on **03.07.2026** and will be opened immediately after closing of uploading of tender i.e. **03.07.2026** at **15:00 hrs**.

The offer shall be uploaded along with scanned copy of the entire requisite document (as per Annexure-A and B of tender notice).

In case the intended date for opening of tenders is declared a holiday, the tenders will be opened on the next working day at the same time

1.1.3.5 Rate/s should be quoted as per provision on ireps portal only.

1.1.3.6 Each page of tender papers is to be signed / and dated by the tenderers or such person/s on his / their behalf that is/are legally authorized to sign for him/them.

1.1.3.7 Tenders containing erasures and/or alteration of the tender documents are liable to be rejected. Any correction made by Tenderer(s) in his / their entries must be attested by him / them.

1.1.3.8 The rates, rebates and/or other financial terms, if any, quoted by tenderer in the relevant fields of the Financial Bid page will only be the ruling terms for deciding the inter-se ranking, and any such condition having financial repercussions, if quoted by them anywhere else including attached documents shall not be considered for deciding inter-se ranking.

1.1.3.9 Additional conditions or stipulations if any must be made by the tenderer/s in a covering letter with the tender. The Railway reserves the right not to consider conditional tenders and reject the same without assigning any reason. Only those additional conditions which are explicitly accepted by the Railway shall form part of the contract.

1.1.3.10 An Certificate is required to be uploaded / submitted by all tenderers (as given in Annexure-19) based on this certificate if contents in documents uploaded / submitted by tenderers are found to be incorrect / false, action will be taken against such tenderers as per provisions contained in certificate submitted by them as Annexure-19. In such eventuality, next lowest eligible tenderer / offer will be considered.

- 1.1.3.10.1** 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-19. 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 by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.
- 1.1.3.11** If the Tenderer(s) fail to submit / Upload the Certificate as prescribed in clause-1.1.3.10 above along with his/their offer shall be considered incomplete and will be rejected summarily.
- 1.1.3.12** Tenderer may have to submit the original Documents in physical form at short notice whenever asked by Railway at any stage of tender evaluation process or even after finalization of tender.
- 1.1.3.13** In E-tender, all submissions of documents are to be uploaded on web-site. There may be last minute hic-cups and delay in uploading the Documents etc, Tenderers / Prospective bidders are advised to upload their offer well in time. Railway will not be responsible for any delay / non submission of offer due to any reason whatsoever.
- 1.1.3.14** The value of contract and the quantities given in the attached schedule of items, rates and quantities are approximate and are given only as a guide. These are subject to variations / additions and omission. The quantum of work to be actually carried out shall not form the basis of any dispute regarding the rates to be paid and shall not give rise to claim for compensation on account of any increase or decrease either in the quantity of in the contract value. The value of contract and the quantities given in the attached schedule of items, rates.
- 1.1.3.15 BID SECURITY:**
- 1.1.3.15.1** 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 all works	2% of the estimated cost of the work

(Authority : Railway Board Letter no.2022/CE-I/CT/GCC-2022/POLICY/Pt.I(E-3320424 dated 13.03.2026 Regarding ACS No. 11 of GCC works 2022))

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 fulfillment 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.

- 1.1.3.15.2** 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 of GCC 2022** (Annexure-21 of Tender Document) and shall be valid for a period of 90days beyond the bid validity period.

Signature of Tenderer

1.1.3.15.3 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 before closing date for 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.
- 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 Authority assumes no responsibility for the misplacement or premature opening of the contents of the Bid submitted and consequent losses, if any, suffered by the Bidder.

1.1.4 CONSTITUTION OF THE FIRM:

1.1.4.1 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.

1.1.4.2 If Tenderer(s) expires after submission of his / their tender or after acceptance of his/their tender, Railway shall deem such tender canceled. If a partner of a firm expires after submission of their tender or after acceptance of their tender, Railways shall deem such tender as canceled, unless firm retains its character.

1.1.4.3 If the contractor's firm is dissolved on account of death, retirement of any partners or for any reason whatsoever before fully completing the whole work or any part of it, undertaken by the principal agreement the surviving partners shall remain jointly / severally and personally liable to complete the whole work to the satisfaction of the Railway due to such dissolution.

1.1.4.4 The cancellation of any documents such as power of attorney, partnership deed etc shall Forth be communicated to the Railway in writing, failing which the Railway shall have no responsibility or liability for any action taken on the strength of the said documents.

1.1.4.5 UPLOADING OF DOCUMENTS RELATED TO CONSTITUTION OF FIRM:

The tenderer(s) must necessarily upload / submit the legal documents at the time of tendering & submit in original on or before closing of uploading of tender & before opening of tender on **03.07.2026**, pertaining to the constitution of their Concern as applicable, along with the tender, as enumerated below. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of their Concern.

The tenderer(s) shall give full details of the constitution of the Firm / JV / Company / Society etc in the "Top Sheet" as well as in Annexure-"10" to "Preamble & General Instructions to Tenderers" of Tender Document and must submit the following documents along with tender without fail:

1.1.4.6 Following documents shall be submitted by the tenderer:**(A) SOLE PROPRIETOR SHIP FIRM:**

- (i) All other documents in terms of explanatory notes in clause 1.1.12 below and GCC-2022.

(B) HUF:

- a. 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.
- b. All other documents in terms of explanatory notes in clause 1.1.12 below and GCC-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.
- (iv) All other documents in terms of explanatory notes in clause 1.1.12 below and GCC-2022.
- (v) All details of Firm must be provided in Annexure-10.

(D) JOINT VENTURE (JV):

Not applicable for this tender

(APPLICABLE ONLY FOR WORKS COSTING MORE THAN Rs.10.00 Crore)

(E) Company registered under Companies Act-2013:

If the tender is uploaded on behalf of a Company registered under Companies Act-2013, the tenderer must submit/upload along with the tender the following documents on or before close of uploading of tender & before opening of tender:

- (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 explanatory notes in clause 1.1.12 below and GCC-2022.**

(F) LLP (Limited Liability Partnership) Firm:

If the tender is submitted on behalf of a LLP registered under LLP Act-2008, the tenderer shall submit along with the tender:

- (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 explanatory notes in clause 1.1.12 below and GCC-2022.**

(G) Registered Society & Registered Trust:

The tenderer shall submit:

- (i) A copy of the 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 explanatory notes in clause 1.1.12 below and GCC-2022.**

NOTE: The tenderer must upload at the time of tendering & submit above documents on or before close of uploading of tender & before opening of tender **03.07.2026**.

1.1.4.7

- (i) 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.
- (ii) After opening of 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.
- (iii) 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.

- 1.1.4.8** 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.

Note:

1. In case of General Power of Attorney, photocopy of the same duly notarized shall also be considered.
2. If all the requisite documents pertaining to the constitution of the firm / JV / sole / partnership firm / company / Society etc, as specified in clause 1.1.4 above, are not submitted, offer will be considered as incomplete and shall be summarily rejected.

1.1.5.1 JVs / Consortiums / MOUs shall be considered.

(Not applicable in this tender)

The JV firms are allowed to participate only in the tenders of value more than Rs.10.0 Cr.

- 1.1.5.2** If the tenderer is a partnership Firm, the conditions and the technical & financial eligibility Criteria will be applicable as per guide lines given in "Part-IV, Annexure-17B" of tender document.

1.1.6 VALIDITY OF TENDER:

Tenderer shall keep his offer open for a minimum period of 60 days from date of opening of tender or as mentioned in tender notice.

1.1.7 EXECUTION OF CONTRACT DOCUMENT:

The Tenderer whose tender is accepted shall be required to appear in person at the office of Sr. Divisional Electrical 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.

1.1.8 SECURITY DEPOSIT:

The Security Deposit shall be 5% of the contract value. The Bid Security submitted by the

Signature of Tenderer

Contractor with his tender will be retained/encashed by the Railways as part of security for the due and faithful fulfillment 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.

1.1.9.1 REFUND OF SECURITY DEPOSIT:

Security Deposit shall be returned to the Contractor along with or after the following:

- (a) Final Payment of the Contract as per clause 51.(1) of GCC-2022 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) of GCC-2022, in case applicable.

Note :- 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.

1.1.9.2 FORFEITURE OF SECURITY DEPOSIT:

Whenever the contract is rescinded as a whole under clause 62 (1) of these conditions GCC-2022, 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) these conditions of GCC-2022, the Security Deposit shall not be forfeited.

- 1.1.9.3** 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 1.1.18 of this , will be payable with interest accrued thereon.

1.1.10 TENDERER'S ADDRESS:

Tenderer should state in tender his postal address legibly and clearly. Any communication sent in time, to tenderer by post at his said address shall be deemed to have reached tenderer duly and

in time. Important documents should be sent by Registered post. Email provided by the contractor on IREPS website can also be used for send important letters. Contractor should regularly check their email for any correspondence from Railway Side.

1.1.11 RIGHTS OF RAILWAY TO DEAL WITH TENDERS:

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.

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.

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.

1.1.12 TENDERER CREDENTIALS:

1.1.12.1 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:

- (a) 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.
- (b) Audited Balance Sheet duly certified by the Chartered Accountant regarding contractual payments received in the past.
- (c) The List of personnel / organization on hand and proposed to be engaged for the tendered work. Similarly, list of Plant & Machinery available on hand & proposed to be inducted & hired for tendered work.
- (d) 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-19. 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.
- (e) 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.
- (f) (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 upto 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 upto five years.

1.1.12.2 ELIGIBILITY CRITERIA:

The tenderers are required to satisfy the following eligibility criteria conditions since work is costing above Rs.50.00 lakhs.

(I) TECHNICAL ELIGIBILITY CRITERIA:

(a) The tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:

Three similar works each costing not less than the amount equal to 30% of advertised value of the tender,

OR

Two similar works each costing not less than the amount equal to 40% of advertised value of the tender,

OR

One similar work each costing not less than the amount equal to 60% of advertised value of the tender.

Similar work is defined as under:

“Design, Supply, Installation, Testing & Commissioning of HT/LT network Like HT/LT panel, Overhead distribution network, earthing, laying of HT/LT cable etc. and associated electrical works.”

(b)(i) 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 of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited:

Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender,

OR

Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender,

OR

One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender.

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

(b)(ii) In such cases, what constitutes a component in a composite work shall be clearly predefined with estimated tender cost of it, as part of the tender documents without any ambiguity.

- (b)(iii) 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 notarized, 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 fulfill 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 1.1.12.2:

(i) **(Technical Eligibility Criteria):**

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.

(II) **Financial Eligibility Criteria:**

The tenderer must have minimum average annual contractual turnover of 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-15, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered

Accountant duly supported by Audited Balance Sheet.

The tenderers shall submit Certificates to this effect which may be an attested Certificate from the concerned department / client and/or Audited Balance Sheet duly certified by the Chartered Accountant etc.

- a. Tenderer / Contractor shall upload a statement of contractual payments received during last three financial years and current financial year on prescribed Performa as per Annexure-15. Details shall be based on Form 16-A issued by the employer i.e. certificate of deduction of tax at source under Section-203 of the Income Tax act 1961. Self-attested photocopies of the form 16-A / form 26AS shall be enclosed in support of the above. Railway may invite the tenderer for online verification of Form-26AS.
- b. If a tenderer has completed a work of similar nature where cement and steel were issued by department free of cost, tenderer must submit completion certificate indicating cost of these materials and total cost of work (including cost of cement / steel) shall be considered to decide eligibility or otherwise.
- c. Overall financial soundness of tenderer will be evaluated based upon volume of work handled, turn over, balance sheet etc Tenderer will accordingly furnish these particulars for last three years (i.e. current year and three previous financial years) duly supported by latest audited results / balanced sheets.
- d. Tenderer has to satisfy eligibility criteria for technical capability and competence as well as for financial capacity and organizational resources.
- e. If tenderer is a JV / Consortium, each partner of JV / Consortium should have good credentials and JV / Consortium should meet technical and financial eligibility criteria as per guidelines given in Annexure-17.
- f. If the tenderer is a partnership Firm, the conditions and the technical & financial eligibility criteria will be applicable as per guidelines given in "Part-IV Annexure-17 B".

(III) Electrical Contractor's License:

The tenderer must submit attested copy of valid Electrical contractor license along with his offer. Offer shall be summarily rejected if tenderer does not have Electrical contractor license issued by State / Central government.

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

1.1.12.4 BID CAPACITY: NA

1.1.12.5 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 clause-1.1.12 incl. clause-1.1.12.2 to 1.1.12.5 –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 1.1.12.2 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 proprietary 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 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. in case of dissolution of partnership firm 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. 10.0 crore; in case of partner C quits the firm, the credentials of this partnership firm shall remain as Rs. 6.0 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 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.

1.1.13 PERIOD OF COMPLETION:

Entire work is required to be completed in all respects within **Six Months (06 Months)** from date of issue of the acceptance letter. Time is the essence of contract. Contractor will be required to maintain speedy and required progress to the satisfaction of Engineer to ensure that work will be completed in all respects within the stipulated period failing which action may be taken by the Railway Administration in terms of Clause-62 of the General Conditions of Contract-2022 with latest amendments.

1.1.14

- (A) The pre-inspection of the material may be carried out by the Railway/RITES Representative. For inspecting the major/high valued items having value more than Rs. 5 Lac like cables, HT/LT panels, Transformers, overhead conductors etc. the Railway/RITES representative may visit manufactures' works at all reasonable time to witness and inspect the testing of equipments/material. It is the duty of the contractor to ensure that all the equipments/material. Supplied are tested as per relevant specifications. He shall provide all necessary assistance is carrying out tests and inspection at his own cost. Contractor will ensure that equipment used have been type tested. Routine and Acceptance Tests shall be conducted by firm in presence of purchaser's representative/Inspecting Officer. Contractor shall furnish three copies of manufacturer's routine and type tests certificates.
- (B) The contractor shall supply the material after getting approval for supply of material as per schedule decided by the Sr.DEE/G/FZR after award of tender and planning of the work with contractor.

1.1.15 VARIATION IN QUANTITY:

(a) 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.

(b)(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.

(b)(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 upto 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 upto 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 upto 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 upto 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 as an item whose original agreement value is less than 1% of the total original agreement value.

- Quantities operated upto 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;
 - Quantities operated in excess of 100% but upto 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;
 - 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, the variation limit of 25% shall apply to the gross quantity of earthwork 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).

1.1.16 PERFORMANCE GUARANTEE:

The procedure for obtaining Performance Guarantee is outlined below:

- 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 upto 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 22nd day after the date of issue of LOA. Further, if the 60th day 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.

- **The successful bidder shall submit the Performance Guarantee (PG) amounting to 05% of the original contract value and additional Performance Guarantee (PG) as per clause 1.1.19 of tender document (or Para 16(4)(h) of Part-II of GCC'22) in any of the following forms,:**
 - (i) A deposit of Cash;
 - (ii) Irrevocable Bank Guarantee;
 - (iii) Insurance Surety Bond as per Annexure-7A.

Note:

- 1. In case of extension of Date of Completion, selected bidder needs to submit extended insurance Surety Bond/Fresh Insurancesurety Bond/fresh Performance Security, in any form as given above, before expiry of existing Insurance Surety Bond.**

- (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.
- The Performance Guarantee (PG) shall be submitted by the successful bidder after the Letter of Acceptance (LOA) has been issued, but before signing of the contract agreement. This PG shall be initially valid upto 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 PG extended to cover such extended time for completion of work plus 60 days.
- 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.
- 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.

- Whenever the contract is rescinded, the Performance Guarantee already submitted for the contract shall be encashed.
- (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.

NOTE:

The Performance Guarantee (PG) should be submitted as per Annexure-7 or 7A of Part-IV of the tender document.

1.1.18 The tenderer shall furnish following information for making payment:

Bank Account No.	: _____
Bank address	: _____
IFSC Code	: _____
PAN No.	: _____
GST No.	: _____

1.1.19 If a tender is accepted on the quoted rates of bidder which is below the advertised tender value, an additional performance security shall be submitted by the bidder as below:

Bid Quoted in % of advertised Cost	Additional Performance Guarantee (%)
Below 0 -5% (Inclusive)	Nil
Below 5%	5%

(Authority : Railway Board Letter no.2022/CE-I/CT/GCC-2022/POLICY/Pt.I(E-3320424 dated 13.03.2026 Regarding ACS No. 11 of GCC works 2022))

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PART-I**CHAPTER-II****SPECIAL CONDITIONS OF CONTRACT**

1.2.1.1 This Tender shall be governed by Preamble and General, Special conditions, Technical Specifications.

1.2.1.2 If there are varying or conflicting provisions in documents forming part of contract Sr.DEE/G/FZR shall be deciding authority with regard to the intentions of the provision and decision will be final and binding on contractor.

1.2.3 FORCE MAJEURE:

If at any time, during the continuance of this contract, the 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 decision of 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.

1.2.4 RIGHT TO ALTER THE SCOPE OF WORK:

Railways reserves the right "to alter the scope of work" as mentioned in the "Scope of the work and Special conditions" as well "to drop portion of the work" within the time of tendering and awarding the contract. Contractor shall be prepared to carry out the work at any other specified locations depending up on the requirement, as directed by Railway officials at site.

1.2.5 GENERAL CONDITIONS OF CONTRACT:

The General conditions of Contract governing the performance of the works covered by this tender are the "Indian Railway Standard General conditions of Contract (GCC) of July-2022" Ministry of Railways as amended from time to time up to date. A soft copy of the book-let incorporating the above "General Conditions of Contract (GCC) July-2022" will be made available to the contractor.

1.2.6 If there is any conflict between "Special conditions" and "General conditions of contract", the conditions laid down in "Special conditions" will be sustained.

1.2.7 STUDY OF DRAWINGS AND LOCAL CONDITIONS:

The general drawings where-ever necessary shall be supplied. The contractor will be required to study drawings and make detailed drawings at his own cost and get it approved from the Engineer before execution of work.

The tenderer/s is/are advised to visit the site of work and investigate actual conditions regarding nature and conditions of soil, difficulties involved due to inadequate stacking space, due to built up area around the site, availability of materials water and labour probable sites for labour camps,

stores, godowns, etc. They should also satisfy themselves as to the sources of supply and adequacy for their respective purpose of different materials referred in the specifications and indicated in the drawings. The extent of lead and lift involved in the execution of works and any difficulties involved in the execution of work should also be examined before formulating the rates for complete items of work described in the schedule.

1.2.7 Engineer's Representative:

The Engineer's Representative and consignees for this work and will supervise / certify the work executed and submit all relevant papers to Sr.DEE/G/FZR for processing payment claim.

1.2.7.1 Setting Out Works:

The contractor is to set out the whole of the work in consultation with the engineer or an official to be deputed by the Engineer and during the progress of works to amend on the requisition of the Engineer any errors, which may arise there in and provide efficient and sufficient staff and labour thereon. The contractor shall also alter or amend any errors in the dimension lines on levels to the satisfaction of the Engineer or his authorized representative without claiming any compensation for the same.

The contractor shall provide, fix and be responsible for maintenance of all stocks, templates, profiles, land marks, points, burjies, monuments, center line pillars, reference pillars, etc and shall take all necessary precautions to prevent their being removed altered or disturbed and will be responsible for the consequence of such removal, alterations or disturbance and for their efficient reinstatement.

The contractor shall protect and support, as may be required or as directed by the Engineer, all building, fences, walls, towers, drains, road paths, waterways, foreshores banks, bridges, Railway ground and overhead electric lighting, the telegraphs/ telephones and crossing water service Main pipes and cables and wires and altogether matters and things of whatever kind not otherwise herein specified other than those specified or directed to be removed or altered which may be interfered with or which likely to be affected disturbed or endanger by the execution completion of maintenance of the works and shall support provided under this clause to such cases as directed by the Engineer. No payment shall be made by the Railway to the contractor for these works on account of delay for re-arrangement of road traffic or in the contractor having to carry out the short lengths and in such places as per conditions and circumstances may warrant. These will not form the basis of any claim and or dispute for compensation of any kind.

1.2.8 Emergency Work:

In the event of any accident or failure occurring in or about the work of arising out for or in connection with the construction completion or maintenance of the work which in the opinion of the Engineer require immediate attention, the Railway may be with its own workmen or other agency execute or partly execute the necessary work or carry out repairs if the Engineer considers that the contractor is not in a position to do so in time and charge the cost thereof, as to be determined by the Chief Engineer/Construction to the contractor.

the material and plants brought by the contractor on the site or land occupied by the contractor in connection with the works and intended to be used for execution thereof shall immediately, they are brought upon the sites of this said land be deemed to be the property of the Railway, vehicles, equipments, plant and machinery of the contractor can be drafted by the Railway Administration at their discretion in case of accidents, natural calamities involving human lives, breaches, stoppage of train operations or any contingencies which require such requisitioning as essential. The decision in this regard of the Engineer-in-charge or his superiors i.e. Sr. Engineer / Executive Engineer/Dy. Chief Engineer etc. shall be final and beyond the ambit of arbitration clause.

Tenderer is required to submit the list of equipment, machinery, construction tools and plants available /deployed at site. The successful tenderer on receipt of acceptance letter and

conveying their consent shall submit name, addresses, telephone numbers, Fax number/E Mail address of the persons to be contacted for requisitioning the above items notify from time to time if any change in the list of equipment's/machinery or the addresses/ individuals to the Engineer-in-charge in writing. The name and address, telephone numbers and the contractor officials name shall also be displayed at the site of work.

The manpower, consumable items and maintenance of the above tools and plants when requisitioned shall be the responsibility of the tenderer/contractor so that the equipment's, machinery, tools and plants shall be available for effective utilization at the accident sites, natural calamities, breaches sites etc.

The hire charges per annum shall be calculated at the following rates on the purchase cost of the plant as under:

- (i) Depreciation charges at the following rates
 - a) Light plant 16% per annum
 - b) Heavy plant 10% per annum
 - c) Special plant 6% per annum
- (ii) In additional 10% on the total of (i) above to meet contingencies
- (iii) 10% contractor profit on total cost as detailed (i) to (ii)
- (iv) The hire charges per day shall be arrived at dividing the annual hire charges of total of (i) to (iii) above by 365 which shall be the assumed number of working days in year for this purpose. These hire charges will be payable from the date the plant is handed over to the railway to date on which it is returned to the contractor by Railway.
- (v) The contractor man power charge shall be payable @ minimum wages as notified by the State Govt. /local bodies /labourDeptt. as the case may be for highly skilled, semi skilled personnel drafted for operating the plant and machinery.

The payment for the fuel cost shall be paid on the basis of the actual expenditure incurred by the contractor for purchase + 10% contractor's profit thereof which will be the payments towards his miscellaneous expenses too.

1.2.8 Inspection:

The pre-inspection of the material may be carried out by the Railway/RITES Representative. For inspecting the major/high valued items having value more than Rs. 5 Lac like cables, HT/LT panels, Transformers, overhead conductors etc. the Railway/RITES representative may visit manufactures' works at all reasonable time to witness and inspect the testing of equipment's/material. It is the duty of the contractor to ensure that all the equipment's/material. Supplied are tested as per relevant specifications. He shall provide all necessary assistance is carrying out tests and inspection at his own cost. Contractor will ensure that equipment used have been type tested. Routine and Acceptance Tests shall be conducted by firm in presence of purchaser's representative/Inspecting Officer. Contractor shall furnish three copies of manufacturer's routine and type tests certificates.

1.2.9 Supply of material:

All materials to be used in the work shall be procured as per specified makes in the SOR/technical specifications. Items for which makes are not specified, the same should be got approved from concerned Executing Officer Incharge before procurement.

1.2.10 Transportation of material:

The transportation & handling charges to bring the supplied material will be borne by the Contractor. Hence, cost of material is given in the schedule of prices and quantity is inclusive of transportation, loading and unloading charges. Railway supplied materials will be transported by Railways from depot to work site including loading & unloading.

1.2.11 Completion of Work:

The contractor shall commence the work as specified in "Scope of the work and Special conditions" and shall complete the work in all respects as specified in tender details.

1.2.12 The Railway attaches utmost importance to the timely completion of the work on or before the Signature of Tenderer

date contracted for. In this connection, the attention of the contractor is specially invited to the clauses regarding 'Liquidated damages' and termination of contract owing to default of contractor provided for in General Conditions of Contract.

1.2.13 Termination of contract:

If the Competent Authority decides to withdraw this work, then contract will be terminated as per the procedure laid down in GCC 2022.

1.2.14 LOSS IN TRANSIT:

If loss or damage occurs to stores or any part thereof during transit by rail, contractor shall have only such remedy as is available to Public against carrier under the Indian Railway (Amendment) Act-1961, No.39 of 1961.

1.2.15 SCHEME OF WORK:

Within a period of 45 days beginning from date of issue of Letter of Acceptance of Tender, Contractor shall submit detailed time schedule for design and various documents enumerated in tender papers to purchaser.

The contractor shall submit the relevant drawings and the assessment of the material. The purchaser or his representative shall approve the same, if found correct. Material shall be supplied (by the contractor) only after the approval of drawings and assessment.

1.2.16 QUALITY ASSURANCE PROGRAMME IN SUPPLY AND ERECTION:

- a. All materials to be used in the work shall be procured as per specified makes in the SOR/technical specifications. Items for which makes are not specified, the same should be got approved from concerned Executing Officer Incharge before procurement.
- b. All erection work shall be carried out as per established engineering practice. It should be maintenance friendly, environmental friendly and should not endanger safety of public/ operator.

1.2.17 OTHER RAILWAY STORES:

If at any time, material which the contractor/s should normally have to arrange himself/themselves, are supplied by the Railway either at the contractor's request or in order to prevent any avoidable delay in the execution of work due to the contractor's inability to make adequate timely arrangements for supply thereof or for any other reason, recovery will be made from the contractor's bill either at the market rate prevailing at the time of supply or at the book rate whichever is greater, plus fixed departmental charges viz. Freight at 5% (8.33% for items of Iron and G.I. pipe steel) incidental charges at 2% and added on total cost supervision charges at 12.5 %. No carriage or incidental charges will be borne by the Railway. The contractor cannot, however, claim as a matter of right the issue of such material by the Railway which he/they is required to arrange himself/themselves in accordance with the terms and conditions of this contract.

In case, cement and/or steel is issued to the contractor/s free of cost or on cost to be recovered for use on the work, the supply thereof shall be made in stages limited to the quantity/quantities computed by the Railway according to the prescribed specifications and approved drawings as per the agreement. The cement and/or steel issued in excess of the requirements as above shall be returned in perfectly good conditions by the contractor to the Railway immediately after completion or determination of the contract. If the contractor/s fail/s to return the said stores, then the cost of cement and/or steel issued in excess of the requirement computed by the Railway according to the specifications and approved drawing will be recovered from the contractor/s @ twice the prevailing procurement cost at the time of last issue viz. 2 X (purchase price + 5% freight only). This will be without prejudice to the right of the Railway to take action against the contractor/s under the conditions of the contract for not doing/completing

the work according to the prescribed specifications and approved drawings. If it is discovered that the quantity of cement and or steel used is less than the quantity ascertained as herein before provided, the cost of the cement and/or steel not so used shall be recovered from the contractor/s on the basis of the above stipulated formula.

The contractor shall be responsible for the safe transport custody and storage of all Railway materials issued to him and he will be liable to make good the loss due to any cause whatsoever, that may be suffered by the Railway on this account. Special precautions should be taken in respect of cement while transporting cement, steps should be taken to safeguard against cement becoming damp or wet due to moisture or rain. The contractor will also be responsible for storing cement in damp proof conditions at site of work at his own cost in accordance with the standard specifications. The Engineer shall decide whether the cement stored in the godown is fit for the work and his decision shall be final and binding on the contractor/s.

The contractor should supply a schedule showing the requirements of explosives/materials required to be supplied to him by the Railway based on detailed plans. The materials will be arranged by the Railway according to this schedule unless otherwise modified by the Railway due to additions or alterations in the approved plans. No claim whatsoever will be entertained by the Railway on account of late supply of such materials as are required to be arranged by the Railway.

1.2.18 CONTRACTOR'S ORGANISATION:

- 1.2.18.1** Contractor shall within fifteen days of issue of letter of acceptance of Tender, establish an office at a convenient place for progressing designs and drawings and field works, expeditiously, in consultation and with approval of Purchaser. He shall intimate Purchaser address thereof in which all correspondence shall be sent. Any communication sent to Contractor by post at his said address shall be deemed to have reached Contractor duly and in time. Important documents shall be sent by Registered post.
- 1.2.18.2** The list of address to which correspondence and documents relating to contract should be sent, is included.
- 1.2.18.3** Main depots will be located at near stations of Firozpur Division. The proposed location/s of sub-depots and stabling lines is/are to be given by Tenderer for scrutiny and approval by Purchaser.
- 1.2.18.4** Electricity may be supplied at places where spare capacity is available for running of machinery and for lighting. The contractor shall provide his own distribution system in consultation and with approval of purchaser. Cost of providing connections and of energy consumed shall be paid by Contractor to Purchaser in accordance with relevant rules and prevailing rates of Railway.
- 1.2.18.5** At places where piped water supply is available purchaser may supply water to the contractor at convenient points for his office, workshop and stores if necessary connection with work. Contractor shall arrange to lay his own pipe lines for distribution in consultation and with approval of the Purchaser. The Contractor shall be charged for consumption by Railways at rate prevailing at that time. The Contractor shall arrange water at the work site at his own cost carried to worksite.
- 1.2.18.6** Contractor shall arrange all tools, plant and facilities as necessary for erection and testing of the equipment, in compliance with the specification at his own cost.

1.2.19 CONTRACTOR'S DRAWINGS ETC:

Signature of Tenderer

Any calculations, designs, drawings, schedules, information, data, progress charts etc required by Purchaser's Engineer in connection with the contract shall be furnished by Contractor at his own expenses. The Contractor will not be required to furnish drawings, designs and calculations etc for basic designs and employment schedules provided by Purchaser in case no modification / deviation is required for a particular basic design / employment schedule. In case of new developments in designs and decision of Purchaser to implement the same basic drawings / designs / employment schedules will be submitted by contractor to Purchaser. In case of any ambiguity in interpretation of design and drawing, decision of purchaser shall be final and conclusive.

1.2.20 TRAFFIC BLOCKS:

- a. Purchaser will make arrangements to obtain traffic blocks (hereinafter referred to as blocks) necessary for running and operation of work train / light ladder trolleys / Lorries for works to be carried out along or adjacent to track. Contractor shall, however, carry out maximum amount of work possible without blocks.
- b. **WORKING IN NIGHT HOURS:**
The work may be required to be carried out during night Hours if required. Contractor shall make arrangement of labour & other resources accordingly. Nothing extra whatsoever may be shall be paid to contractor
- c. Block period shall be counted from time track is placed at Contractor's disposal at work-spot till it is cleared by the Contractor.
- d. Blocks will be subject to normal operating conditions and rules of the Railway. All formalities of exchanging private number etc with traffic control will be carried out by Purchaser's staff and for this purpose Purchaser will depute a representative for each erection gang, who will be responsible for imposing traffic blocks and also removing same after men, material and equipment have been cleared by the Contractor from running tracks and same declared safe for traffic by Purchaser's representative in case of works involving safety of running tracks.
- e. Blocks required for carrying out works necessitated by thefts, pilferage, accidents or such other incidents, shall be granted by Purchaser over and above normal requirements of block.

1.2.21 DEPLOYMENT OF TECHNICAL SUPERVISORS:

The contractor shall employ the following Qualified Engineer during the execution of this work:

1. **ONE QUALIFIED GRADUATE ENGINEER:**
When the cost of the work to be executed is Rs.2.00 Crore and above.
2. **ONE QUALIFIED DIPLOMA HOLDER ENGINEER:**
When the cost of the work to be executed is more than Rs.25.0 Lakh and less than Rs.2.00 Crore.

NOTE:

For track related contractual works of value, individuals having Diploma in Railway Engineering awarded by IPWE (India) shall also be considered as qualified Diploma Holder Engineers and contractors for track contract works can employ such individuals at their worksite on Railway.

- (c) Further, in case the contractor fail to employ the Qualified Engineer aforesaid in above Paras, he in terms of provisions of Clause-26A2 to the General Condition of Contract, shall be liable to pay an amount of Rs. 40,000/- and Rs. 25,000/- for each month or part thereof for the default period for the provision, as conditioned in Para (a) & (b) above respectively.
- (d) The contractor shall submit the copy of bio data and Degree / Diploma certificate of the above technical staff employed by him for the scrutiny by Railway and for the record. Railway reserve the right to scrutinize the records of the contractor to ascertain as to whether the qualified staff has been actually employed by him and is paid for.

- (e) While passing each "on" account bill, the DEE / ADEE in-charge will certify the availability to technical staff on regular basis; otherwise the recovery as above shall be made from every bill.
- (f) The decision of the Engineer-in-charge, whether the required Technical staff was not employed by the contractor shall be final and binding upon the contractor.

1.2.22 TRAINING OF PURCHASER'S STAFF:

Contractor shall impart training to Railway staff free of cost. Contents of training and number of staff for training shall be mutually decided.

1.2.23 WORK BY OTHER AGENCIES:

Any other works undertaken at the same time by Purchaser or Railway direct or through some other agency at same time or section where contractor is carrying out his work will not entitle contractor to prefer any claim regarding any delays or hindrances he may have to face on this account, but Purchaser shall grant a reasonable extension of time to contractor. Contractor shall comply with any instruction, which may be given to him by Purchaser in order to permit simultaneous execution of his own works and those undertaken by other contractors or Railway without being entitled on this account for any extra charge.

Contractor shall not be entitled to any extra payment due to hindrance resulting from normal railway operations, such as delay on account of adequate number of and duration of shutdown etc. not being granted.

If purchaser is unable to supply materials to contractor as specified in contract, in time, contractor shall not be entitled to any extra payment on account of such delay in supply. However, such delays in supply will be a reasonable ground for extension of completion date/s for work.

1.2.24 INFRINGEMENT OF PATENTS:

Contractor is forbidden to use any patents or registered drawings, process or pattern in fulfilling his contract without previous consent in writing of owner of such patent, drawing, pattern or trade mark, except where these are specified by Purchaser himself. Royalties where payable for use of such patented processes, registered drawings or patterns shall be borne exclusively by Contractor, who shall advise Purchaser of any proprietary right that may exist on such processed drawings or patterns, which he may use of his own accord.

In case of patent taken out by Contractor of drawings or patterns registered by him, or of those patents, drawings, or patents for which he holds a license, signing of Contract automatically gives Purchaser right to repair by himself purchased articles covered by patent or by any person or body chosen by him and to obtain from any sources he desires component parts required by him in carrying out repair work. In event of infringement of any patent rights due to above action of Purchaser, he shall be entitled to claim damages from contractor on grounds of any loss of any nature which he may suffer e.g. in case of attachment because of counterfeiting.

INDEMNIFICATION BY CONTRACTOR:

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.

1.2.25 INSURANCE:

- a. Contractor shall take out and keep in force a policy or policies of insurance against all liabilities of contractor or purchaser at common law or under any statute in respect of accidents to persons who shall be employed by contractor in or about site of Contractor's Offices for purpose of carrying out works on site. Contractor shall also take out and keep in force a policy or policies of

insurance against all recognized risks to their offices and depots. Such insurance shall in all respects be to approval of Purchaser and if he so requires in his name.

b. Insurance of materials and installations:

Contractor shall take out and keep in force a policy or policies or insurance for all materials in storage and traction installation excluding foundations under erection and/or erected until such materials and installation are provisionally handed over to purchaser. For this purpose, traction installations in a section shall be deemed to have been provisionally handed over, when provisional acceptance certificate is issued for section or traction installations, in section or commissioned or on expiry of three months after installations are given ready in all respect for handing over, whichever is earlier, for commercial use. If validity of contract is extended, validity of insurance should also be extended subsequently. Contractor shall not be liable for losses or damages to equipments erected, in course of erection or in stores at contractor's depot in consequence of mutiny or other similar causes over which contractor no control has and which cannot be insured, such losses or damages shall, if required by purchaser, be made good by contractor, at cost of purchaser.

- c. Contractor should, however, insure materials brought to site against risks in consequence of war and invasion, as required under emergency risks (goods) Insurance Act in force from time to time.
- d. Contractor shall take out all insurance covers in connection with the contract with Government recognized insurance company.

1.2.26 ACCIDENT:

- a. Contractor shall, in respect of all staff engaged by him or by his sub-contractor, indemnify and keep purchaser at all times indemnified and protected against all claims made and liabilities incurred under Workmen's Compensation Act, the factories Act and Payment of Wages Act and rules made there under from time to time or under any other labour and Industrial Legislation made from time to time.
- b. Contractor shall indemnify and keep purchaser indemnified and harmless against all actions, suits, claim demands, costs, charges or expenses arising in connection with any death or injury sustained by any person or persons within Railway premises and any loss or damage to Railway property sustained due to acts or omission of contractor, his sub-contractors, his agents or his staff during executions of this contract irrespective of whether such liability arises under the Workman's Compensation Act, or Fatal Accident Act or any other statute in force for time being.
- c. Contractor's liability to meet third party claims of the type outlined above will be applicable only in cases where accidents have been caused by bad design, workmanship, material or negligence on part of contractor and further liability of contractor will be limited to Rs. 25.0 Lacs for any one accident.
- d. Contractor shall be responsible for all repairs and rectification of damages to traction installations erected or under erection due to Railway accidents, thefts, pilferage or any other cause, without delay to minimize or to avoid traffic detentions, in a section until installation is provisionally handed over to purchaser.

1.2.27 SAFETY MEASURES:

During execution of the work, contractors shall ensure that all safety precautions are taken by their men to protect themselves and site to prevent any untoward incident. In this regard contractor will ensure that adequate number of safety helmets, safety belts, safety jackets with reflective arm band, rope, ladders emergency light etc. are available at site before the work is actually started. The above list is only indicating and is not exhaustive and safety item will be arranged as per the requirement. Railway reserve the right to stop the work in the absence of proper safety gear and no claim shall be entertained in this regard. Decision of the Engineer-in-charge will be final and binding upon the contractor. The cost of all the safety gear is deemed to have been included in the rates quoted and nothing extra is payable under this contract.

1.2.28 PROVISIONAL ACCEPTANCE:

- Immediately on completion of work contractor shall test installation to ensure that installation is as per specifications. Along with test results. Contractor shall inform purchaser in writing that installation is complete and ready for commissioning.
- The test as stipulated in specification shall be jointly conducted, results if found satisfactory, installation shall be commissioned.
- Provisional acceptance shall not be withheld for rectification of minor defects.

1.2.29 Availability of breakdown/maintenance staff

During period of guarantee Contractor shall keep available an experienced engineer and necessary equipment to attend any defective installations resulting from defective erection and/or defects in equipment supplied by Contractor. This engineer shall not attend to rectification or defects, which arises out of normal routine maintenance work. Contractor shall bear cost of all modifications, additions or substitutions that may be considered necessary due to faulty materials, design or workmanship for satisfactory working of equipment. Final decision shall rest with the Competent Authority i.e. Sr.DEE/G/N. Rly./FZR which will be binding on the contractor.

1.2.30 Failure to attend the defects

All defects and deficiencies advised to contractor shall be attended to by him promptly. If contractor fails to respond and arrange repair/rectification within reasonable time, purchaser shall be free to get repairs done through departmental labour or through any other sources at contractor's expenses without prejudice to other remedies available under contract.

1.2.31 Disposal Of Surplus Excavated Materials

The contractor shall at all time keep the site free from all surplus earth, surplus materials, and all rubbish which shall arise from the works and should dispose of the surplus excavated materials as ordered by the Engineer failing which it will be done at the cost of the contractor and cost will be deducted from his dues. The contractor shall within 15 days of completion of entire works remove all unused and surplus materials tools and plants staging and refuge or other materials produced by his operations and shall leave the site in a clear and tidy conditions.

1.2.32 Damage to the Railway Property:

Contractor(s) executing the works adjacent to the existing Railway track for e.g. doubling, gauge conversion, yard remodeling etc. will take all care for avoiding any damage to the underground/OH services such as S&T cables, electric cables/wires, pipelines/sewer lines etc. They must ensure that the work is started after obtaining clearance in writing from the Engineer-in-charge regarding the route for signaling/Electrical cables/water supply/ sewer lines etc. However, if any damage occurs during execution, he will immediately report the same to the Engineer-in-charge and stop the work further till clearance for restarting the work is given by the Engineer-in-charge. It may be further noted that if it is proved that damage is occurred due to the negligence on the part of the contractor, the cost of the damage will be recovered from him/them. The decision of Engineer-in-charge will be final and binding upon the contractor(s).

Penalty to be imposed for damages to cable shall be as under:

Cable damaged	Penalty per location (Rs...)
Only Quad cable or signaling cable	1.0 Lakh
Only OFC	1.25 Lakh
Both OFC & Quad	1.5 Lakh

1.2.33 Penalty for Bursting of Traffic/Power Block

For Traffic and/or Power Blocks of more than 3 hours duration, which are required for the execution of work, the Contractor shall submit a scheme for execution of work with details of machines to be deployed, manpower, block requirement, shifting of infringements, protection work etc to the Engineer well in time for approval. The proposed scheme should be prepared with sufficient resources so that block requirement is minimized. In case Engineer is not satisfied with

the proposed scheme, the contractor has to modify the same as advised by the Engineer and the decision of Engineer in this regard shall be final and binding upon the contractor.

For Traffic and/or Power Blocks upto 3 hours duration, which are availed on day to day basis as per requirement of the work, the Contractor shall be required to deploy sufficient manpower and machinery to complete the work within sanctioned block duration and procedure detailed in para above will not be necessary.

The work has to be carried out in an optimum duration of block so as to cause minimum interruption to traffic. Traffic blocks duration for the work shall be decided by the Engineer in consultation with the contractor and divisional traffic department.

Contractor will abide by indicated booked/sanctioned block time and will arrange sufficient manpower, machines and materials including stand by requirements for completion of work in time.

All machines deployed for block should be in good fettle and working condition and should not be more than 5 years old. Contractor shall also arrange additional standby machines to deal with exigencies in case of any untoward incident/break down. Additional machine operators/mechanic should also be deployed by the contractor if block duration is more than 8 hour.

In case of block bursting, concerned Engineer will levy the penalty as per clause 1.2.33.2, if he is of the view that the bursting of the block was wholly or partly due to contractor's default in arranging adequate and suitable manpower and machinery or failure of machinery provided by the contractor etc. In case of block bursting due to multiple reasons including contractor's default (e.g. delay/obstruction by Railway or other contractor or natural causes such as heavy rains, earth slippage etc), time duration of bursting due to contractor's default will be assessed by the Engineer and penalty for that duration shall be imposed.

However, in case of Category-I blocks as defined in para 1.2.33.1, normally no penalty shall be imposed for occasional block bursting upto 15 minutes. However, if it is observed that contractor is habitual of block bursting repeatedly, the Engineer at its discretion may impose suitable token penalty even for block bursting of less than 15 minutes.

In case if contractor is not satisfied with imposition of penalty, he can submit his representation to Engineer, who will consider Contractor's representation and convey his decision which shall be final and binding upon the contractor.

1.2.33.1 Blocks shall be categorized depending upon duration of block as given below:-

- Category – I : Blocks upto 3 hours duration
- Category – II : Blocks more than 3 hours and upto 24 hours duration
- Category – III : Blocks more than 24 hours and upto 1 week duration
- Category – IV : Blocks more than 1 week and upto 1 month duration
- Category – V : Blocks more than 1 month duration.

1.2.33.2 Penalty as per block category shall be levied in case of block bursting as given below:-

Category-I Block

Duration of Block Bursting	Penalty
Upto 15 minutes	Normally Nil, but a penalty of value to be decided by Engineer may be imposed if the Contractor is bursting the blocks habitually and repeatedly.
More than 15 minutes and upto 30 minutes	Rs. 2,000/-
More than 30 minutes	Rs. 2,000 plus Rs.3,000 for each subsequent 15 minutes or part thereof

Category-II Block

Duration of Block Bursting	Penalty
Upto 30 minutes	Rs. 10,000/-

More than 30 minutes and upto 1 hour	Rs. 30,000/-
More than 1 hour	Rs. 30,000 plus Rs.50, 000 for each subsequent half an hour or part thereof.

Category-III block

Duration of Block Bursting	Penalty
Upto 6hours	Rs. 50,000/-
More than 6hours	Rs. 50,000 plus Rs. 75,000 for each subsequent 6 hours or part thereof.

Category-IV block

Duration of Block Bursting	Penalty
Upto 1 day	Rs. 1,50,000/-
More than 1 day	Rs.1,50,000 plus Rs.2,00,000 for each subsequent day or part thereof.

Category-V block

Duration of Block Bursting	Penalty
Upto 1 day	Rs. 1,50,000/-
More than 1 day	Rs. 50,000/- plus Rs. 1,00,000 for each subsequent day or part thereof.

Duration of block bursting to be considered in clause 35.2 above shall be the duration for which the block exceeded/bursted on account of contractor's default as per assessment of the Engineer.

Penalty for non availing of Blocks and Premature Cancellation of Blocks:

In case of a sanctioned block could not be availed on account of contractor's failure to deploy adequate manpower and machinery at site or sanctioned block had to be prematurely cancelled due to machinery breakdown or any other reason on account of contractor, the Engineer shall impose suitable token penalty which shall be not less than Rs. 1 lakh per such occasion for sanctioned blocks of more than 4 hrs duration.

Total penalty calculated in terms of clause above shall be subject to an upper limit of 5% of the contract value.

1.2.34 GUARANTEE/Maintenance Period:

Tenderer shall guarantee equipments/ installations for satisfactory performance for a period of 12 months from the date of commissioning against any defect. Contractor should promptly attend complaint and replace/repair defective equipments/parts free of cost promptly and satisfactorily. The equipment/parts so replaced by the contractor, shall be further guaranteed for a period of 12 months for satisfactory service from date of such replacement.

For all LED based luminaries: Firm shall give Certificate provided by Original Equipment Manufacturer duly mentioning the Date upto which warranty is valid, as per CEE/N.Rly. Specification No.CEE/NR/121- Elect/PS/2018 (Rev '3') Dated 28.06.2018 (point no. 8) Supplier shall arrange Undertaking from OEM, certifying that Warranty shall be enforceable by Railways as per Warranty certificate provided and OEM shall provide complete warranty even after maintenance period of the Supplier is over and Security money is released.

1.2.35 First aid facilities

In terms of Para 19 of "The contract labour and (Regulation & Abolition) Act 1970", the contractor should provide and maintain a "First Aid Box" equipped with the prescribed contents at every place during the all working hours where contract labour is employed by him/them.

1.2.36 FINAL ACCEPTANCE:

Final acceptance of entire installation shall be from date of expiry of the guarantee period and after contractor's obligation has been fully met under contract.

PART-I

CHAPTER-III

PRICE AND PAYMENT

1.3.1 SCOPE:

This Chapter deals with prices to be paid for accepted schedules of prices and rates and terms and conditions of payment mentioned herein. This is a works contract and total prices for the completed items of work are the actual prices payable to the Contractor as per the terms and condition of the Contract.

1.3.2 SCHEDULE OF PRICES:

The unit prices of various items of work shall be included in schedule. All unit prices shall be firm and minor changes in basic designs shall not affect unit prices so long as such changes are agreed to by the Railway's. All unit prices shall be in Rupees.

1.3.3 PRICE VARIATION:

PVC shall be applicable only for Contract agreement value of Rs. 2 Crores and having completion period above 12 months.

PVC should be applicable as per clause No. 46A of GCC Works 2022(or latest).

Note:- The price variation clause of General conditions of contract shall not apply to a works contract which is either an Annual Maintenance contract or a Zonal contract as per Railway Boards letter No.2013/CE/II/CT/O/10/PVC/Pt.I dtd:27.01.2015.

1.3.4 QUANTITIES:

The approximate estimated quantities of various items of work are included in Schedule of IREPS website.

1.3.5 EXPLANATORY NOTES:

Explanatory notes for various items of work included in Part-I, chapter-IV.

1.3.6 NEW ITEMS OF WORK:

- i) If during the execution of the work the Contractor is called upon to carry out any new item of work not included in Schedule, the Contractor shall execute such works at such prices as may be mutually agreed upon with the Purchaser before commencement and these will be based on the rate analysis as per the current market / prevalent rates of such or similar items available with the Railway Administration in that or nearby areas.
- ii) Provided that if the Contractor commence work or incurs any expenditure in regard thereto before the rates are determined and agreed upon as lastly hereon-to-for mentioned, then and in such a case the Contractor shall only 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 the Purchaser. However, if the contractor is not satisfied with the decision of the Purchaser in this respect he may appeal to Sr.DEE/G/FZR within 30 days of getting the decision of the Purchaser, supported by analysis of the rates claimed. The decision of Sr.DEE/G/FZR after hearing both the parties in the matter would be final and binding on the contractor and the Railway.

1.3.7 RECOVERIES FROM CONTRACTOR:

All recoveries for materials supplied and services rendered by Purchaser to Contractor and other

refunds due from contractor shall unless otherwise specified, ordinarily be made by deductions from payments due to Contractor covering value of supply and erection in progress payment for erection, and from payment on Provisional Acceptance.

1.3.8 PAYMENTS OF WORK:

- a) **80% of item price(material cost)** shall be paid to the contractor on receipt of material in railway custody after inspection of material, if for any item of work, price of material and erection is not separately available, **80%** of the cost of item of work will be considered as material cost.
- b) Further, payment of material and erection cost to cover 90% of the contract price on successful completion of work duly inspected by engineer and due certification of installation and testing of all material including equipment by Engineer's representative.
- c) Balance 10% payments shall be released after successful completion of work and certification by Engineer/ Incharge.

1.3.9 INCOME TAX:

Under Section 194-C of the Income Tax Act-1961 deduction of 2% plus surcharge as applicable on Income Tax will be made for sums paid for carrying out the work under this contract.

1.3.10 TAXES:

The contractor shall be governed by the Taxes applicable at the place of actual execution of work.

- i) Taxes on works contract, octroi, royalty, toll tax, local tax on materials as well as services and any other tax levied by Central Govt /State Govt. or local bodies shall be borne by the tenderer. No part of such taxes on contractor's labour/material or any other account will be paid by the Railways. Therefore, the contractor must ascertain the various taxes levied by the concerned Govt or local bodies at the place of execution of work and take into account for the same while quoting the rates. This should be kept in view before tendering.

NOTE:

- (i) Works contracts shall be treated as supply of services as per Schedule-II GST Act
- (ii) GST Act and Rules issued from time to time by the Government / concerned authorities shall be applicable
- (iii) Contractor / suppliers / service providers / parties shall register their firms State wise under GSTIN (GST Identification Number) and submit at the time of opening of tender or before the signing the agreement and shall mention places of business, registered office address and email id.

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 of GCC-2022 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.

Railways will deduct the taxes specified by the concerned Central Govt/State Govt/Local bodies if required to be deducted at source under the relevant laws as applicable on the date of making the payment. Railway will issue a certificate regarding tax so deducted. It will be responsibility of the contractor to make further correspondence with concerned Govt or local bodies to ensure full deposition of the tax or for claiming a refund, if due, as is done in case of income tax.

In case any tax is notified to be deducted at source from a specified date and certain payments have already been made in the period that lapsed between the date of applicability of tax and the actual date of implementation of the same, tax required to be deducted at source for this period will be recovered from the subsequent payment.

Implementation of, The Building and Other Construction Workers (RECS) Act, 1996 and The Building and Other Construction Workers Welfare Cess Act, 1996 in Railway Contracts:

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 from the Registering Officer of the concerned State Govt. (Labour Dept.). The Cess shall be deducted from contractor's bills as per provisions of the Act.

Contractor is to abide by the provisions of Payment of Wages act & Minimum Wages act in terms of clause 54 and 55 of Indian Railways General Condition 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 of 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 LOAs issued in his favour.
- (c) The contractor once registered on the portal, shall provide details of his Letter of Acceptances (LOA) / 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.

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."

1.3.11 DEDUCTION OF TAXES FROM CONTRACTOR'S BILLS

Wherever law makes it statutory for purchaser to deduct any amount towards Sales Tax/Income tax or any other tax applicable on works contract, same will be deducted and deposited with concerned authority.

In case any tax is notified to be deducted at source from a specified date and certain payments have already been made in the period that lapsed between the date of applicability of tax and the actual date of implementation of the same, tax required to be deducted at source for this period will be recovered from the subsequent payment.

1.3.12 FINAL SETTLEMENT:

On expiry of Guarantee period and issue of Certificate of Final Acceptance of entire installations security deposit will be released to contractor after adjustment of any dues payable by contractor.

1.3.13 MEASUREMENTS:

- (a) Payment for field work shall be made in accordance with approved designs and drawings and measured in relevant units except where provided for otherwise. In case dimensions of work are more than those shown in approved designs and drawings, the contractor will not be entitled to any extra payment, unless dimensions were increased on account of physical impossibility of carrying out work in accordance with approved drawings and designs. In case dimensions of work are less than those shown in approved designs and drawings and work is accepted without being rejected, payment will be made as per work actually done.
- (b) Measurements will be made generally in accordance with standard engineering practice and in conformity with the explanatory notes for Schedule.
- (c) It shall be open to the Contractor and the Railway to take specific objection to any recorded measurement or classification on any ground within seven days of the date of such measurements. Any re-measurements 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 measurement.

1.3.14 RELEASE OF SECURITY DEPOSIT:

Security deposit will be released as per GCC-2022.

1.3.15 'LETTER OF CREDIT' AS MODE OF PAYMENT:

- i) For all the tenders having advertised cost of Rs. 10.0 lakh or above, the contractor shall have the option to take payment from Railways through a letter of credit (LC) arrangement.
- ii) This option of taking payment through LC arrangement has to be exercised in IREPS (Indian Railway Electronic Procurement System - the e-application on which tenders are called by Railways) by the tenderer at the time of bidding itself, and the tenderer shall affirm having read over and agreed to the terms and conditions of the LC option.
- iii) The option so exercised, shall be an integral part of the bidder's offer.
- iv) The above option of taking payment through LC arrangement, once exercised by tenderer at the time of bidding, shall be final and no change shall be permitted, thereafter, during execution of contract.
- v) In case tenderer opts for payment through LC, following shall be the procedure to deal release of payment through LC:
 - The LC shall be a sight LC.
 - The contractor shall select his Advising/Negotiating bank for LC. The incidental cost towards issue of LC and its operation thereof shall be borne by the contractor.
 - SBI, New Delhi, Main Branch will be the nodal branch for issue of LCS based on online requests received from Railway Accounts Units for tenders opened in financial year 2018-19. SBI branches where the respective Railway Accounts Office has its Account (local SBI branch) will be the issuance / reimbursing branch for LC issued under this arrangement. The Bank shall remain same for this tender till completion of contract. The incidental cost @0.15% per annum of LC value, towards issue of LC and operation thereof shall be borne by the contractor and shall be recovered from his bills.
 - The LC shall be opened initially for duration of 180 to 365 days in consultation with contractor. The LC shall be extended time to time as per the progress of the contract, on the request of the contractor. The value of LC to be opened initially as well as extended thereafter shall be finalized by the engineer in consultation with the contractor on the basis of expected progress of work.

- The LC terms and conditions shall inter-alia indemnify and save harmless the Railway from and against all losses, 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 relation to the Letter of Credit (LC). All sums payable/borne by Railways on this account shall be considered as reasonable compensation and paid by contractor.
- The LC terms and conditions shall inter-alia provide that Railways will issue a Document of Authorization after passing the bill for completed work, to enable contractor to claim the authorized amount from their bank.
- The acceptable, agreed upon document for payments to be released under the LC shall be the Document of Authorization.
- The Document of Authorization shall be issued by Railway Accounts Office against each bill passed by Railways.
- On issuance of Document of Authorization, a copy of Document of Authorization shall be posted on IREPS for download by the contractor. A digitally signed copy of Document of Authorization shall also be sent by Railway Accounts Office to Railway's bank (Local SBI Branch).
- The contractor shall take print out of the Document of Authorization available on IREPS and present his claim to his bank (advising Bank) for necessary payments as per LC terms and conditions. The claim shall comprise of copy of Document of Authorization, Bill of Exchange and Bill.
- The payment against LC shall be subject to verification from Railway's Bank (Local SBI Branch).
- The contractor's bank (advising bank) shall submit the documents to the Railway's Bank (Local SBI Branch).
- The Railway's bank (issuing bank) shall, after verifying the claim so received w.r.t. the digitally signed Document of Authorization received from Railway Accounts Office, release the payment to contractor 's bank (advising bank) for crediting the same to contractor 's account.
- Any number of bills can be dealt within one LC, provided the sum total of payments to contractor is within the amount for which LC has been opened.
- The LC shall be closed after the release of final payment including PVC amount, if any, to the contractor.
- The release of performance guarantee or security deposit shall be dealt directly by Railway with the contractor i.e. not through LC.

1.3.16 Public Procurement (Preference to Make in India), Order-2017 and its revision from time to time will follow.

- i) Guidelines regarding Public Procurement (Preference to Make in India), Order 2017- Revision of order No. P-45021/2/2017-PP (BE-II) dated: 28th May-2018 of Department of Industrial policy and Promotion (Public Procurement Section), Ministry of Commerce and Industry, Government of India will follow.

“This tender complies with Public Procurement Policy Order-2017, dated 15.06.2017”

I/We accept the above conditions.

1.3.17 LD shall be levied as per relevant clause of GCC 2022(or latest)

Signature of the contractor

Signature of Tenderer

PART-I**CHAPTER-IVA****EXPLANATORY NOTES OF SCHEDULE****SCHEDULE PRICES****SECTION-I: GENERAL**

1. Explanatory notes for various items of work in schedule are given below:
2. All the tools & equipment required during execution of the work shall be arranged by the contractor.
3. All the safety precautions for men and material working within Railway premises should be taken by the contractor. The contractor shall be responsible in all respect, if any of their workmen meets with an accident due to non-observation of the safety precautions. Tenderer shall indemnify Railway against any or all claims which may arise because of any reason under any circumstances / incident / accident.
4. The work shall be planned by the contractor in consultation with **consignees of work** to avoid any interruption to normal power supply and train movements.
5. The Railway shall not be responsible for any loss or damage to contractor material / equipment, tools and plants etc. from any cause what so ever.
6. The works shall be carried out to the full satisfaction of authorized representative Sr.DEE/G/FZR.
7. To and fro transportation, loading and unloading of T&Ps and material from the firm's works place to Railway site shall be arranged by the contractor.
8. The rates quoted by the tenderers and accepted by the Railway administration shall hold good till completion of the work and no additional individual claims will be admissible on account of the fluctuation in market rates, increase in taxes / levies / toll taxes etc.
9. Railway reserves the right to reject all or any tender without assigning any reason thereof or relax or change any of the conditions / specifications stipulated in the tender.
10. The contractor shall intimate inspection program of the work in advance. The equipments / instruments required for checking at site or in office place shall be arranged by the contractor.
11. **RELEASED MATERIAL:**
The contractor shall return to Railway all the released materials from the existing system at the first available opportunity but not later than a week at the respective Elect/G Depot in concerned Area. If the contractor fails to return the released material in specified time, the cost of released material will be recovered from the progress bill before releasing any payment.

PART-I

CHAPTER-IVB

SECTION-II: PARTICULAR

TECHNICAL SPECIFICATIONS AND SCHEDULE OF WORK

Special Conditions

- (i) All the tools & equipment required during execution of the work shall be arranged by the contractor.
- (ii) All the safety precautions for men and material working within Railway premises should be taken by the contractor. The contractor shall be responsible in all respect, if any of their workmen meets with an accident due to non-observation of the safety precautions. Tenderer shall indemnify Railway against any or all claims which may arise because of any reason under any circumstances / incident / accident.
- (iii) The work shall be planned by the contractor in consultation with consignees of work i.e. to avoid any interruption to normal power supply and train movements.
- (iv) The Railway shall not be responsible for any loss or damage to contractor material / equipment, tools and plants etc. from any cause what so ever.
- (v) The works shall be carried out to the full satisfaction of authorized representative Sr.DEE/G/FZR.
- (vi) To and fro transportation, loading and unloading of T&Ps and material from the firm's works place to Railway site shall be arranged by the contractor.
- (vii) The rates quoted by the tenderers and accepted by the Railway administration shall hold good till completion of the work and no additional individual claims will be admissible on account of the fluctuation in market rates, increase in taxes / levies / toll taxes etc.
- (viii) Railway reserves the right to reject all or any tender without assigning any reason thereof or relax or change any of the conditions / specifications stipulated in the tender.
- (ix) The contractor shall intimate inspection program of the work in advance. The equipments / instruments required for checking at site or in office place shall be arranged by the contractor.
- (x) If there are varying or conflicting provisions in the documents forming part of the contract, Sr.DEE/G firozpur shall be deciding authority with regard to the intentions of the provisions and decision shall be final and binding to the contractor.
- (xi) Any minor item which is not included in description of SOR but required to complete the work of that SOR item has to be provided by the firm and no extra payment will be made for this.
- (xii) If any damage is caused to building, road etc. civil work during execution of work, it shall be responsibility of the contractor to repair and make good the loss properly at his own cost to the satisfaction of the Railway Administration/representatives.
- (xiii) These technical specifications are detailed to meet the desired quality of work. however, in case of any ambiguity / typographical mistake, necessary clarification may be collected from sr.dee/g office before tender opening till completion of work. the decision of Sr.DEE/G/FZR office is binding and final in nature.
- (xiv) The work shall be carried out in the best workmanship an any defects in the work of changed in the design as per site conditions are pointed out by the inspecting authority shall be carried out by the contracted within the tendered rates.
- (xv) In case of any dispute, regarding work the decision of the Sr. Divisional Elect. Engineer will

be final and binding to the contractor.

- (xvi) If any damage is caused to the building as a result of execution of work, it shall be responsibility of the contractor to repairs and make good the loss properly at his own cost to the satisfaction of the Railway Administration/representatives.
- (xvii) All the earth works debris shall be removed daily after execution of the day work and throw outside the Railway premises by the contractors at his own cost and labour.
- (xviii) No part of the work can be got executed by the other agency except by the staff of contractors.
- (xix) Any defects /discrepancy pointed out to the contractor during site inspection shall be rectified by the contractor at his own cost.
- (xx) The tenderer shall responsible for obtaining the approval of local authority i.e. CPWD /state authority etc. and also pay all necessary charges for road cutting etc for cable laying.
- (xxi) The sites of work under jurisdiction of Firozpur division. However, site can be changed anywhere in Firozpur Division, if required

Section – I

S.No.	Brief Description of Item	Ref. and No. of the Specifications or Latest Version
1.	SFU/FSU/SDFU for all rating & equipment's with suitable HRC/ Rewire able fuses/ Fuse Bases/COS.	IS 13947/Pt.I to III/, IS 13703/Pt-2 as applicable or Latest Version
2.	LT C.T.	IS 2705/Pt-I. to Pt- IV/1992 as applicable
3.	RCCB, MCB & Pre-fabricated Distribution Board	IS 12640, IS/IEC 60898, IS 8623 or Latest Version
4.	Ferrules Thimbles /Lugs	Relevant IS
5.	Contactors	IS-60947(Pt.-4)1993 or Latest Version
6.	LT Cable End Termination & straight through jointing Kits	IS 13573 or Latest Version
7.	GI Pipe including earthing pipe and fittings	IS 1239/ Pt.I/2004 and IS 1239/ Pt.II/2011 or Latest Version
8.	LT XLPE Cable	
9	DWC Pipe	Relevant IS
10	ACB	IEC 60947-2/ IS13947:1993 or latest.
11	MCCB	IEC 60947-2/ IS13947:1993 or latest.

Note

1. Items which are not covered above shall be ISI marked.
2. All Items shall be got approved from Railways prior to supply.

Technical Specifications for schedule items**Section – I
ANNEXURE- REWIRING / WIRING AND EARTHING****NORTHERN RAILWAY****TECHNICAL SPECIFICATIONS****1.0 TECHNICAL SPECIFICATIONS FOR REWIRING / WIRING AND EARTHING:**

1.1 All wiring work shall be done as per ISS/IE rules.

1.2 Point wiring includes supply and providing of piano type switch, holder, ceiling rose, MS boxes etc.

1.3 On completion of wiring, the following tests conf. to the relevant ISS/E rules shall be carried etc.

1) Insulation resistance test.

2) Polarity test of switches.

3) Earth continuity test.

4) Earth resistance test.

1.4 The conduit pipe with accessories shall be fixed/ provided in steel trusses/ angle iron/ wall by means by suitable MS clumping arrangement as per site requirement and ISS/IE rules.

1.5 The power and lighting wiring, as the case may be shall be kept separate & distinct each other.

2. EARTHING SYSTEM:-**2.1 PIPE EARTHING:**

1) The earthing electrode shall be made of G.I. pipe of 40mm dia medium class (class B) conforming to relevant ISI 03 meter long tapered at the bottom holes of 12 mm dia drilled not less 75 mm from each other upto 2 meters of length from the bottom.

2) The pipe electrode shall be buried in the ground vertically with its top nearly 200mm below from the top of enclosure.

3) A flange shall be provided on top of this pipe for watering the earth. This whole arrangement shall be housed in the masonry enclosure made of cement ratio 1:4:8.

4) Size of earthing lead shall be 6SWG GI wire connected the electrode with electric equipment.

2.2 MASONARY ENCLOSURE:

The top of pipe electrode shall be housed in a massonary enclosure of not less than Outer hole size:450XmmX450mm and Coverplate(CI/RCC) size:300mmX300mm). The pipe shall be buried in the ground vertically with its top nearly 20CM below top of enclosures. The covers of massonary for electrode shall be hinged type made of MS/ CI/RCC with proper arrangement for locking.

2.3 COMMON LOCATION FOR EARTH ELECTRODE: -

Normally one earth electrode shall not be situated less than 1.5 meter from any building. Care shall be taken that the excavation for the earth electrode may not affect the column footings of foundation of the building. In such case electrode may be located further away from building. The location of earth shall be such where the soil and reasonable changes of remaining moist as far as possible, entrance, pavements. Roads should definitely be avoided for location of earth electrode. The location of earth electrodes shall be fixed in consultation with Railway Authority.

2.4 ARTIFICIAL TREATMENT OF SOIL:

In case there is no option of site for earth electrode the earth resistance shall b reduced by the artificial treatment of the soil. For this purpose the post commonly used substances are Sodium Chloride (common salt) mixed with soft bake of charcoal in suitable proportion when this treatment is resisted to the electrode shall surrounded by the mixture of the other /coal / coal and salt.

2.5 PROTECTION OF EARHTING LEAD: -

Signature of Tenderer

The earthing lead onwards shall be suitably protected from the mechanical injury by a 15mm dia GI pipe in case of GI wire portion of this protection pipe within ground shall be buried at least. 30 cm deep (to be increased to 60Cm in case of road crossing and payments. The portion within the building shall be recessed in wall and floors to adequate depth (para-1.69 of CPWD general specification for electrical works Part-I internal 1972).

2.6 RESISTANCE OF EARTH ELECTRODE: -

No earth electrode shall have greater Ohm resistance than 2 Ohms. Every individual earth electrode shall be allotted serial number and earth Platte of size 20x22x3 mm of sheet steel pointed blank fixed a conspicuous position near the earth. The following information shall be written white or yellow paint on the earth plate.

- a) Earth No. _____.
- b) Individual earth resistance _____ Ohms
- c) Overall earth resistance _____ Ohms
- d) Date of test _____

The following test shall be carried out before the installation is put into commission.

- a) Earth resistance test.
- b) Earth continuity test.
- c) Insulation resistance test.
- d) Polarity test.

Section – I
ANNEXURE- LAYING OF CABLE

SPECIFICATION FOR LAYING OF CABLE

1. METHOD OF LAYING OF CABLES:

The cable shall be directly laid in ground, in RCC pipes, in open ducts or on surface depending upon the requirement and site conditions. While deciding the route of the cable at preliminary stage it should be ensured that the joint in the cable shall be placed at most suitable place, such inaccessible locations like the water logged areas, carriage ways, pavements proximity to telecom cables, water mains, pipes etc. should be avoided.

2. LAYING DIRECTLY IN GROUND

The cable should be laid directly in ground, wherever it is passing open country, along the road/lanes etc. The area, which is likely to be excavated frequently, should be avoided. Care should be taken to select the area where re-excavation is easily possible without affecting the other services in the proximity.

3. PROVISION OF TRENCHES

Width of Trench: - The width of trench shall be determined on the following basis:-

The minimum width of cable trench shall be 350 mm. wherever more than one cable is laid in the same trench in horizontal formation the width of trench shall be increased such that inter axial distance between the cable shall be at least 200 mm. There shall be clearance of 150 mm between the end cabled and the sides of the trench.

In addition to the protective cover over the cables laid in the underground trench, a brick on edge should be laid in between the two-jus tapped cables along the direction of the lay of the cable for providing separation.

Depth of Trench: - The depth of the trench shall be determined on the following guidelines:-

Normally cables should be laid in single tier formation. Wherever the cables are laid in single tier formation, the total depth of the trench should not be less than 750 mm for cables upto 1.1 KV grid and 1200 mm for cables above 1.1 KV. Wherever it is unavoidable to lay the cable in wire than one tier the dept of trench should be increased by at least 300mm for each additional tier to be formed.

4. EXCAVATION OF TRENCH: -

To the extent possible the trench be excavated in straight lines. Wherever a change in line is required, suitable curvature as per clause 1.11 shall be provided. In case gradient has to be provided in the depth of the trenched it should be a gradual. Manual or mechanical means should be employed for doing excavation. The soil shall be stacked on the side of the trench in such a manner that it should not fall back into the trench. Due care should be taken to avoid damage to any existing cables, pipes or other such installations in the proposed route during execution. While excavating, if route markers, bricks, tiles, bare or protective covers are encountered further excavations should not be carried out without the approval of Engineer Incharge.

In case existing property gets exposed during trenching same should be temporarily supported or proposed adequately as directed by the Engineer Incharge. The trenching in such case shall be limited to short lengths. Protective pipes should be laid refilled in accordance with clause 6, in case there is a danger of collapse, or the trench is endangering existing structure the site should be well supported before proceeding on with the excavation work.

The bottom of the trench should be level, free from sand, brickbats and gravel etc. such cushion of at least 75 mm should be provided under the cable.

5. LAYING OF CABLE IN TRENCHES: -

Before the cable is issued for laying the individual cores should be tested for continuity and insulation resistance. The cable should be removed from drum by mounting the drum on jacks and spindles of adequate strength. Care should be taken so that the supporting arrangements do not creep to one side while the drum is in rotation.

The cable should be pulled over rollers in trench, steadily and uniformly and without jerks and strains. The entire cable shall be as far as possible be paved off in one stretch, however, if this is not possible the remaining cable shall be removed by flaking i.e. making one long loop in reverse trench over rollers the cable shall be lifted over the roller by helpers standing about 1000 mm apart and drawn straight. The cable

shall then be taken off, the rollers by additional helpers by lifting the cable and then laying in reasonably straight line. In shorter runs and sizes upto 50 Sq mm of cable and grade upto 1.1 KV any other method with the approval of Engineer Incharge may be employed.

After properly straightening the cable, the cores etc testing for continuity and insulation resistance as per clause 1.0/Pt.IV and the cable is then measured. The ends of cables should be sealed suitably to avoid ingress of moisture.

The cable laid in a trench in single tier formation shall have covering of dry sand of not less than 150 mm above the base cushion of sand before the protection cover is laid.

In case of the multi tier formation after laying the first cable, sand cushion of 300 mm shall be provided. Each of the subsequent tier shall have sand cushion of 300 mm. The top most cable shall have sand layer of not less than 150 mm before the protection cover is laid. Wherever straight through/termination joint is to be provided a surplus length of 3000 mm of cable should be left on both the sides in the formation of loop. Wherever longer run of cable length is provided, balance cable may be left at suitable entrance as specified by the Engineer Incharge. Wherever the cable is entering buildings, fixed structures like sub stations end/or back trenches surplus length of 3000 mm should be left in the shape of loop, otherwise decided by Engineer Incharge. Surplus cable of some location found suitable should be left in the shape of loop.

6. FINAL PROTECTION: -

The cable shall be protected in accordance with clause 5.7 to provide warning to future excavators and also for avoiding any accidental mechanical damage by pickaxe blows etc. The cable should be protected with well-burnt bricks. The bricks on face should be so provided that the width of the brick is in the direction of lay off cable. The bricks should be

Provided throughout the length of the cable to the satisfaction of Engineer Incharge. Wherever more than one cable is laid in the same trench, the protection cover for cable should protect at least 50 mm on the side of end cables.

7. BACK FILLING OF TRENCHES: -

After excavation and laying of cables the trench should be back filled with excavated earth, free from stone or other sharp edge debris and should be watered if necessary. A crown of earth of 50 mm should be left in the center, tapering towards the sides of the trench to allow for subsidence. The trench should be inspected at regular intervals particularly during wet weather and any settlement shall be made good contractor by further filling, if required.

Due to cable laying work any disturbance to existing equipment's in the area like roads, pavements, garden should be made good after the cable laying work is over.

8. ROUTE MARKETS: -

Route marker should be provided along straight runs of the cables at locations approved by the Engineer Incharge and generally at intervals not exceeding 100 meters. Whenever the cable route is changing or it is entering a fixed installation, route market must be provided. Route marker shall also be provided at joints of cables. Route marker shall also be made out of 100x20 mm CI/GI plate, welded or bolted on two 35x35x6mm angle iron 500 mm long. The said route marker shall be mounted parallel to and at a distance of 500 mm from the edge of the trench.

9. CABLE IDENTIFICATION TAG: -

Cable markers should be provided where more than one cable is laid in juxta posted configuration. The marker tags as approved described with cable identification details shall be permanently attached to all the cable on the man hole pull pits/entering points in buildings through open duct.

10. LAYING OF CABLES IN PIPES/CLOSED DUCTS: -

Wherever the cable is to cross road, enter into any building be mounted on poles, be laid/ in paved areas, the cable shall be laid in pipes or closed ducts. GI/II/CI/RCC pipes shall be used for such purpose. The diameter of such pipes shall be adequate for passing of cables. The pipe shall be laid on suitable bed provided on the ground. Sand cushion/brick/tiles if required can be provided under the pipe. The pipe should be filled with sand after laying the cable insides. The tope surface of pipes shall be at a minimum depth of 1000 mm from the ground level.

The pipes on road crossing should be laid on the skew to reduce the angle of bend as the cable enters the leaves crossing. This is very important for high voltage cables. If the cable is to be laid in duct, suitable manhole cutouts at convenient distance should be provided for facilitating inspection and maintenance of

cables. Pipe shall be continuous and clear of any debris before drawing of cables sharp edges at ends should be smoothened to prevent injury to cable insulation and ensuring proper safety.

11. LAYING OF CABLES OPEN DUCTS: -

Open ducts with suitable removable covers should be preferred in sub stations, switch rooms, plant rooms, generator rooms and workshops etc. The cable ducts should be of suitable dimension so that the cable shall be laid conveniently. If required the cable can be fixed with clamps on the walls of the ducts. The cable can be fixed with clamps on the walls of the ducts. The duct shall be covered with removable RCC slabs of suitable dimensions MS, cheque red plates covers so that covers can be lifted conveniently for maintenance inspecting and replacement.

The ducts should be filled with dry sand and after the cable is laid and covered or finished with cement plaster specially in high voltage applications. No joints/splices should be permitted inside the ducts. As far as possible laying of cable with different voltage grade in the same duct should be avoided.

The cable trays, hooks or racks should be provided for supporting cables in masonry/contracts cable ducts etc. otherwise the cable can be laid directly in the duct or trench or through etc. While laying the cables inducts due care should be exercised to ensure that unnecessary crossing of cable is avoided.

12. LAYING ON SURFACE: -

In the switching stations, factories, tunnels and for raising mains throughout special rackways the laying of cables on surface should be done. The cable shall be laid in through or brackets at regular intervals or directly cleated to wall ceilings. The cable should be laid over bracket support and clamps to prevent undue sag.

The cable clamps should be made from material such as mild steel, porcelain wood, aluminium PVC, epoxy material. These should be non-magnetic and non-corrosive in nature.

13. LAYING ON MS LADDER TRAY: -

The cable shall be laid in the existing MS ladder tray in straight line as far as possible and shall be clamped properly by providing suitable clamps as per site requirement (The clamping arrangements to be get approved from Railways before providing) Normally the distance between each clamp of laid cable shall not be more than 1.5 m (Appx.).

Section – II**EXPLANATORY NOTES TO SCHEDULE OF PRICES FOR ELECTRICAL GENERAL SERVICES WORKS.****GENERAL**

These explanatory notes are for guidance of field staff. Each work has its own particular requirements. Engineer in-charge will be responsible for successful execution of work as per technical specifications.

- i. All electrical works should comply with Indian Electricity Act 2003 and Indian Electricity Rules 1956.
- ii. All electrical installations works shall conform to relevant Indian Standard Code of Practice and carried out as per relevant safety Code of Practices, Guide for Safety Procedures in Electrical Work as per I.S. 5216/Pt.I& II/1982 shall be observed.
- iii. All components used in installation shall be of appropriate ratings of voltage, current and frequency.
- iv. All minor items viz. hardware items, foundation bolts, termination lugs for electrical connections etc. as required and necessary for proper working of the equipment shall be deemed to have been included in the tender, whether such items are specifically mentioned in the tender documents or not.
- v. The work shall be carried out under the supervision of the Railway Engineer.
- vi. The tenderer must inspect the site thoroughly before quoting rates, later on no claim shall be accepted in connection with inspection of site.
- vii. The cost of HT/LT Cable consumed during testing shall be borne by the Works Contractor.

Item no. 01,02, 03& 04 (Flush Type Gi Sheet Metal Boxes & Front Plate with Base Frame)

Flush Type GI sheet metal boxes should be rust protected 120GSM GI box and shall be fixed inside wall and plastered properly. Modules will be fixed on base frame along with front plate. Modular screw less plate should be provided after finishing of all work. These items shall be of superior quality and white colour. Installation shall be in conformity with IS: 732, IS: 4648 (Latest version).

Item no. 05& 06 (6A & 16A MODULAR SWITCH)

All 6 and 16 A switches shall be of modular flush, grid plate mounting type, unless otherwise stated, suitable for 220 V AC supply, made of poly carbonate and of approved make. Switch moving and fixed contacts shall be coated with silver. Housing of switches shall be made from high impact resisting flame retarding and ultra violet stabilized engineering plastic materials, FR grade, heat resistant, flame retardant. Switches shall be fixed inside box on adjustable galvanized grid with tapped holes cadmium plated brass machine screws, leaving ample space at back and side for accommodating wires.

Item No. 07& 08 (6/15A 6 Pin Modular Socket & 6 Amps 5 pin multi-Modular socket)

6/16 A socket outlets shall be of modular, universal type, flush grid plate mounting type, unless otherwise stated, and shall be switched, five & six pin type respectively and fitted with automatic linear safety shutters to finger proof. Socket outlets shall be made from high impact resistant, flame retarding and ultra violet stabilized engineering plastic material. Bell push switch shall be of modular type having neon/indicator lamp. Switches and sockets shall conform to IS: 3854/1997 and IS: 1293/2005 or Latest respectively and should be ISI marked. Installation shall be in conformity with IS: 732, IS: 4648 (Latest version). All modular accessories should be of high-class grade of the brand.

ITEM No.10 (Wiring with 1x1.5 Sq mm FRLS PVC insulated multistranded copper conductor s/core cable):-The work involved wiring for earthing/inverter 1x1.5 Sq.mm FRLS PVC insulated multi stranded copper conductor s/core cable in the recessed PVC conduit pipe 25 mm dia as required. The item should be as per latest IS/IE applicable and ISI marked.

ITEM No. 9, 11, 12 (Wiring for 1.0, 2.5, 04 Sq mm FRLS PVC insulated multi stranded copper conductor s/core cable):-As per Tech Spec- I.

ITEM No. 13 & 47(PVC conduit pipe 25 mm dia AND 40mm Dia):-

Rigid PVC conduit pipe shall conform to IS 9537/Pt.III/1983 (Latest Version) and accessories shall conform to IS 3419/1988(Latest Version).Laying of conduit shall be in conformity with IS 732/1989 (Latest Version), IS 4648/1968(Latest Version). The work also includes provision of MS boxes as per requirement at site. The

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item shall be ISI marked.

ITEM No. 14, 34, 27((1x>18 Watt LED light fitting), (1x >22w (Max.), 45 Watt LED, 150Watt LED):-

These items shall be supplied & commissioned as per CEE/N.Rly. Specification No.CEE/NR/121Elect/PS/2018(Rev '3') Dated 28.06.2018 & CEE/NR/121- Elect/PS/2019 (Rev.4) dated 04.11.2019 or latest or latest with correction dt.10.02.2020 or latest.respectively as per attached specification The work also includes wiring with 2x2.5 sq.mm PVC insulated multi stranded FRLS copper conductor cable, for connection from ceiling rose to fitting.*Tube Lamp and CRCA body fixture to be supplied separately for 18w LEDs.*

For all LED based luminaries: Firm shall give Certificate provided by Original Equipment Manufacturer duly mentioning the Date upto which warranty is valid, as per CEE/N.Rly. Specification No.CEE/NR/121-Elect/PS/2018 (Rev '3') Dated 28.06.2018 (point no. 8) Supplier shall arrange Undertaking from OEM, certifying that Warranty shall be enforceable by Railways as per Warranty certificate provided and OEM shall provide complete warranty even after maintenance period of the Supplier is over and Security money is released.

ITEM No. 15(Supply, fixing, testing and commissioning Of Ceiling Fan): The item shall be supply as per SOR description including suitable length of safety wire for suspension of fan. The fan shall be approved by BIS. Fan Make- Bajaj Usha, Havells, Crompton, Orient or similar. Remote for controlling speed of fan shall be supply and installation by contractor. *Warranty : Normally be 03 years or as per OEM's offer whichever is higher*

ITEM No. 19:(Supplying and fixing double pole, (single phase and neutral), 240 volts, 40 Amp RCCB having a sensitivity 30ma):-

Specifications	
Number of Poles	Double Pole
Sensitivity	30 mA
Rated Current	40 A
Breaking Capacity	6 kA
Switching Option	Switched by Fault
Frequency	50 Hz
Standard- IS	12640-1, IEC 61008-1 or Latest
Electrical Life	4000-10000 Cycles
Impulse Withstand Voltage	4 kV
Mechanical Life	5000-20000 Cycles
Rated Insulation Voltage	Up to 500 V AC
Rated Operational Voltage	240 / 415 VAC
Residual Current Tripping Technology	Voltage Independent
Earth Leakage Protection time delay	Instantaneous

Also include complete connections, testing and commissioning etc as required.

ITEM No. 18 & 20 (PER-FABRICATED DOUBLE DOOR L.T. DISTRIBUTION BOARD)

(i) Wall/pillar mounted/ recessed type. Cubical type Distribution Board shall be pre-fabricated conforming to IS 8623/1993/Part I to III or Latest Version with degree of protection IP 42 of approved make. The boards shall be suitable to work on 415 Volts, 3 Phase 4 wire AC supply system.

(ii) Moulded Case Circuit Breaker 4 Pole 35 KA breaking capacity shall have adjustable thermal setting & fixed magnetic setting and conforming to IS 13947/Pt.II/1993 or Latest Version. The MCCBs shall have spreader link and barriers as standard feature of manufacturer and MCB shall be 10 KA Breaking Capacity 'C' Series and conforming to IS 8828/1996 or Latest Version.

(iii) Installation of distribution board shall be conformed to IS 732/1989 or Latest Version, 4648/1968 or Latest Version.

(iv) The "C" series MCB shall confirm as per IS 8828/1996 with Breaking Capacity 10 KA.

Item No. 21(2x5KVA UPS):Supply, fixing, testing & commissioning of 2x5KVA UPS complete with battery backup time 02 hours ((70AHx15 Nosx12V)) with trolley as per latest IS & IE rules. Size, Quantity and Rating shall be as per SOR. Item shall be supply as per **RDSO SPECIFICATION No. RDSO/PE/SPEC/PS/0023-2001 (Rev-0) Amdt No. 4 or latest.**

Technical Data sheet and Make shall be approved from competent Authority i.e. Sr.DEE.G.FZR before supply.

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ITEM No.22 & 23 (Laying of LT XLPE cable):-

The item shall be executed as per specification **ANNEXURE- LAYING OF CABLE.**

Item No. 24 (MS feeder post):- The four Nos. Aluminum bus bars should be minimum 400A capacity each. The capacity of bus bar may be increased as per current carrying capacity of XLPE cable (Basis of bus bar cross section will be maximum of 1A./sq.mm). The feeder post to be grouted with cement concrete ratio 1:2:4 means 1 ratio cement by volume + 2 ratio sand by volume + 4 ratio aggregates by volume. Drawing of Feeder post may be approved before supply.

Item No.25 (Earthing arrangement):-The item will be executed as per clause No.2 of attached specification **ANNEXURE- REWIRING / WIRING AND EARTHING.** (Weight of GI pipe should be minimum 5.10 Kg per meter).

Item No.26 (6 SWG GI wire):-This item shall be in conformity to IS 5613/Pt I sec I&II/1985 or Latest Version. G.I wire shall conform to relevant IS and shall be ISI marked.

ITEM No. 28 (Submersible Pump): Item shall be executed as per SOR description and specification given below:

S no.	Item	Remarks
1	Capacity	15HP
2	Size OD(Max)	142 mm
3	LPM	500
4	Head	90 Mtr
5	RPM	2900
6	Supply	415 Volt +/- 5%, 3 phase, 50Hz
7	IS/IE	8034-2002/2018 or latest
8	Material	Stainless steel
9.	ISI	Marked

Note: Item shall be ISI marked.

ITEM No. 31 (Wall mounted electric control panel for 20HP):- The scope covers Design, Supply,Erection, testing and commissioning of Control Panel for Automation of Pumps. The panel shall be made of CRCA sheet of 1.6 mm thick and duly powder coated with Grey Color. It shall have Auto starter of suitable capacity for motor. The similar to model MUG10/MUG20/MUG30 of L&T or Siemens or Schneider makes suitable for submersible pumps. The pump panel shall also be equipped with 4 pole MCCB 100A, Pump Guard & Analogue Timer (PROGRAMMABLE 15MIN, BACKUP 3 DAYS CURRENT CAPACITY 16 AMPS) either in the existing panel or in the panel similar to above attached with the pump panel. Shall have Pump protection device with single protection, overload protection, dry run protection, under voltage , phase reversal with suitable current sensor.

Design & Drawing of the panel shall be got approved from Rly before bulk manufacturing.

Item No.33 (Laying of HDPE pipe):-This work shall comprise of supply,erection,testing and commissioning of HDPE pipe as per SOR description. Contractor shall ensure other wires are not cut while doing this work.

Item No. 35 (GI pipe bracket):- GI pipe B class shall conform to relevant IS and approved make (Weight of GI pipe should be minimum 3.61 Kg per meter). Shape of bracket and fixing clamp shall be approved by Railways as per required at site and 40x5 size GI strip with nut bolts & washer conforming to relevant IS should be used.

ITEM No.36 (Desert Cooler)

The item shall be executed as as per relevant IS/IE and SOR description. **Make and Technical data sheet shall be approved from competent Authority i.e. Sr.DEE/G/FZR before supply.**

ITEM No.37 (Water cooler):

1. In storage type unit, the storage tank shall be of corrosion resistant, non-toxic, non-absorbent and durable materials made up of stainless steel or FDA grade material. The tank shall be provided, where necessary, with overflow and make up correction with ball float and drain. The construction of the tank shall be such that the possibility of any dirt accumulating in the tank due to rough surface and improper welded joints is eliminated. There shall be no direct contact of any lead based solder with the water so as to keep the water safe for human consumption.
2. Chassis shall be of rigid construction, made of stainless steel and coated with anti-rust plating or paint.
3. The work includes necessary masonry work for making foundation for keeping water cooler one feet above the floor level or as per desired by railway representative.

Note: The item shall be supplied as per IS -1475-1 Part1 or latest And shall be ISI marked.

Warranty : Minimum 12 Months or as per OEM whichever is higher.

ITEM No.38 (35Ltrs.water heater geyser BEE 5 star rating)

The item shall be executed as as per relevant IS/IE and SOR description.Item shall be ISI marked and have BEE 5 star rating.

Make and Technical data sheet shall be approved from competent Authority i.e. Sr.DEE/G/FZR before supply.

Item No. 40 (OUT DOOR TYPE LT FEEDER PILLAR (Cost inclusive of installation)):-

- (a)The work includes design, manufacture, and supply, erection, testing and commissioning of outdoor type LT feeder pillar suitable for 415 volts 3 phase 4 wire 50 Hz AC supply system.
- (b)The feeder pillar shall be out door type and to be installed and commissioned on floor/ground as per IE Rules and as per site and the feeder pillar shall be fabricated from 12 SWG MS sheet and angle iron of size 65x65x8mm thick conforming to IS 8623/1993/Pt. I to Pt.III(Latest Version). It should be painted of approved colour after two coats of red oxide primer .
- (c) The Copper bus bar for phases and neutral are to be provided. The Copper bus bar shall be properly placed on DMC insulator. The gap between the bus bar shall be adequate and as per IE Rules. Bus bars and droppers should be of high conductivity electrolytic copper suitable for electrical purpose and liberally designed of uniform cross section having a rating of bus bars as per mentioned in schedule of rate & quantities of GROUP B (Basis of bus bar cross section will be maximum of 1000 A./sq. In.). Bus bars shall be suitably insulated with heat shrinkable sleeves/epoxy coating to withstand the test voltage of 2.5 kV and have colour coding for identification of phases and neutral .
- (d)The feeder pillar shall be capable for housing items as per schedule of rates and quantities. Separate cable compartments running height of the Switch Board in case of front access Boards provided for incoming and outgoing cables .Cable compartments of adequate size for easy termination of all incoming and outgoing cables entering from bottom.

Feeder pillar shall comprise of:-**(i) INCOMING 125 A MCCB 4 POLE PANEL****Each panel shall consist of :**

Moulded Case Circuit Breaker 125 A with CTR 125/5A four Pole, 35 kA Breaking Capacity shall have thermo-magnetic type release with both adjustable protections for over load and short circuit and conforming to IS: 13947/Pt.II/1993. Rated short circuit breaking capacity (Ics= Icu) should not be less than 35 kA rms at 415 V 50 Hz AC. MCCBs shall have spreader links and barriers as standard feature of manufacturer.

Digital V meter, Digital Ameter and clustered LED indication light on Incoming Panel.

(ii) OUTGOING 63 A MCCB 4 POLE PANEL

Moulded Case Circuit Breaker 63 A with CTR 63/5A four Pole, 35 kA Breaking Capacity shall have thermo-magnetic type release with both adjustable protections for over load and short circuit and conforming to IS: 13947/Pt.II/1993. Rated short circuit breaking capacity (Ics= Icu) should not be less than 35 kA rms at 415 V 50 Hz AC. MCCBs shall have spreader links and barriers as standard feature of manufacturer

(iii) OUTGOING 32 A MCCB 4 POLE PANEL

Moulded Case Circuit Breaker 32 A with CTR 32/5A four Pole, 35 kA Breaking Capacity shall have thermo-magnetic type release with both adjustable protections for over load and short circuit and conforming to IS: 13947/Pt.II/1993. Rated short circuit breaking capacity (Ics= Icu) should not be less than 35 kA rms at 415 V 50 Hz AC. MCCBs shall have spreader links and barriers as standard feature of manufacturer.

Note:

- (a) MCCB cover and case shall be made of high strength heat resisting and flame retardant thermosetting insulating material.
 - (b) MCCBs shall have shrouded terminals.
 - (c) MCCBs shall not have any load line biasing.
 - (d) All releases shall be tamper proof.
 - (e) The mechanical operations of MCCBs shall be > 15000 operations.
- (iv) Incoming and outgoing feeder name shall be displayed on Panel
- (v) The interlinking of incoming to bus bar and from bus bar to outgoing shall be of copper bus bars of suitable size and length.
- (vi) The cubical shall be robust in construction and fabricated out of heavy gauge sheet steel of thickness not less than 12 SWG hinged panel door should be provided on front and on front of feeder pillar additional hinged type door in two part should also be provided MCCBs mounted in inside it. The canopy shall be given necessary slope for rainwater to flow away. Frame of feeder pillar 300mmh height from foundation covered with removable 12 SWG MS sheet on all sides.
- The canopy should be projected over the sides and doors. Its sides are lower than the top of side sectional of the shell. The side sections are feigned to 'U' form for water draining .One GI Pad locks in front should be provided.
- (vii) Provision of double earthing of cubical shall be made by means of hot dipped galvanized bolts, nuts & washers of 38x12mm (Dia) on either side of the apron at suitable places.
- (viii) Proper size glands should be provided for cable entry.
- (ix) A Danger plate conforming to IS: 2551 shall be affixed on front door and back door.
- (x) All the cable connections shall be done with proper size of copper Lugs and armoured of the cable shall be earthed with the Proper size gland for continuous earthing purpose of the feeder pillar .Detachable plat should be provided on bottom.

Item No.41 (L.T. SWITCH BOARD)**1.0 Scope Of Work**

Medium voltage switch board cubicle type shall be suitable for three Phase, four wire, 415 V. 50 Hz AC solidly earthed neutral, electric supply system complete with accessories, Interconnections, continuous Glearth strip, bus bar chamber with copper bus bar, all instruments, energy meters, switchgears etc. Inposition duly wired up with copper conductor cable with colour coding, code numbering etc. and other accessories though not mentioned here but necessary to complete supply in all respects.

2.0 Schedule Of Requirement

As per Schedule of Rate and Quantities.

3.0 Particulars Of Electric Supply System

Three phase, four wires 415V, 50 Hz AC solidly earthed neutral system.

4.0 Type Of Switch Board

Switchboard shall be cubicle type metal clad free standing, floor mounted, dust and vermin proof, of uniform height and of multi-tier construction so as to occupy minimum floor area. Switchboard shall be extendable on both sides.

5.0 Details Of Constructional Feature Of Switch Board

5.1 Switch board shall be manufactured with CRCA sheet of 14 Gauge and MS base channel of size

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100x50x7.5mm. Switchboard shall consist of a totally shrouded bus bar chamber with screwed covers (screws should remain with covers when covers are removed for maintenance) and have ventilation jali duly protected from vermin. Bus bar and droppers should be suitably mounted on DMC insulators. Bus bars and droppers should be of high conductivity electrolytic copper suitable for electrical purpose and liberally designed of uniform

cross section having a rating of bus bars as per mentioned in schedule of rate & quantities. (Basis of bus bar cross section will be maximum of 1000 A./sq. In.). Bus bars shall be suitably insulated with heat shrinkable sleeves/epoxy coating to withstand the test voltage of 2.5 kV and have colour coding for identification of phases and neutral.

5.2 Bus Bar shall be provided in bus bar chambers throughout its entire length. Suitable rubber gaskets shall be provided between all openings and joints to make panel dust and vermin proof, absolutely.

5.3 Each incoming and outgoing panel shall be provided with glands in detachable plate and lugs and having entry from bottom.

5.4 Height of panel shall not be more than 2300 mm and operating height shall be between 250 to 1900 mm. Continuous GI earth bus bar shall be run of size not less than 50x6mm.

5.5 Switchboards shall be dead front, front operated, dust, vermin proof, extensible, top/bottom cable entry, compartmentalized made of CRCA sheet steel of thickness 2.0 mm non-load bearing, load bearing members & rigid supports for components and with lockable hinged doors. Joints of any kind in sheet metal shall be seam welded and all welding slag ground off and welding pits wiped smooth with plumber metal. All holes in metalwork shall be protected by substantial grommets or bushes to protect wiring passing through them. Maximum overall height of panels and maximum/minimum height of operating handles from floor level shall be as per standard norms.

5.6 Each Circuit Breaker shall be housed in a separate compartment enclosed on all sides. Circuit Breaker cradle shall be designed and constructed to permit smooth withdrawal and insertion. Movement shall be free of jerks, easy to operate and positive.

5.7 Enclosure shall comply with IS: 13947 Part-I 1993. All adjoining units, doors and covers shall be fully Neoprene gasketed unless specified/approved otherwise and equipped with integral lock. Enclosure protection shall be not less than IP 43.

5.8 Switchboard shall be designed for Incoming and Outgoing LV feeders as per provisions of IS: 8623 (Part I)-1993, IS 13947:1993 and IEC Pub 947-5-1 to latest version. Generous space shall be provided for vertical rising cables, their bending and termination.

5.9 Separate cable compartments running height of the Switch Board in case of front access Boards provided for incoming and outgoing cables. Cable compartments of adequate size for easy termination of all incoming and outgoing cables entering from bottom.

5.10 All wiring for meters and other associated equipments shall be with FRLS, PVC insulated, stranded copper conductor wires. Minimum size of copper conductor control wires for switch-boards shall be 1.5 mm².

NOTE:

i. Bus bars are to be provided in sections as per requirement for feeding essential & non-essential load as per drawing approved by Railways. All Incoming and Outgoing cable should be suitably earthed with cable glands, earthing studs, cable marking sleeves & Wago type connector of suitable ratings should be used for internal connections.

ii. Quantities & capacities of MCCBs and capacity of copper Bus Bars should be considered as mentioned in Schedule.

Switchboard shall comprise of:

(A) INCOMING MCCB PANEL 250 AMP. 4POLE

Moulded Case Circuit Breaker 250 Amps. with CTR 250/5A 4 Pole, 35 KA Breaking Capacity, thermal magnetic release with adjustable over load & short circuit protection conforming to IS 13947/Pt.II/1993 (Latest Version). Rated short circuit breaking capacity (I_{cs}= I_{cu}) should not be less than 35 KA rms at 415 Volt 50 Hz AC. The MCCBs shall have spreader links and barriers as standard feature of manufacturer.

(B) OUTGOING MCCB PANEL 125 AMP. 4POLE

Moulded Case Circuit Breaker 125 Amps. with CTR 125/5A 4 Pole, 35 KA Breaking Capacity, thermal magnetic release with adjustable over load & short circuit protection conforming to IS 13947/Pt.II/1993 (Latest Version). Rated short circuit breaking capacity (I_{cs}= I_{cu}) should not be less than 35 KA rms at 415 Volt 50 Hz AC. The MCCBs shall have spreader links and barriers as standard feature of manufacturer.

Note:

i. Incoming from Bus-Bar to outgoing ACB/MCCB/FSU/SFU shall be connected with suitable size copper Bus Bar and outgoing terminals of each MCCB/FSU/SFU shall be provided with suitable copper connectors so

asto avoid direct cable connection with MCCB/FSU/SFU terminal. Above MCCB cover and case shall be made of high strength heat resisting and flame retardant thermosetting insulating material. Operating handle shall be quick make/break, trip-free type having suitable ON, OFF and TRIPPED indicators and a common handle for simultaneous operation of all phases. Suitable arc extinguishing device shall be provided for each contact. Tripping unit shall be connected by a common trip bar such that tripping of any one pole causes three poles to open simultaneously. Contact tips shall be made of suitable arc resistant alloy. Terminals shall be with adequate clearances.

a. MCCBs shall be provided with following interlocking devices with the compartment door.

b. Door interlock to prevent door being opened when the breaker is in ON position (extendable rotary handle to be invariable provided).

ii. Interlock to prevent the breaker being switch ON with the door open.

iii. MCCBs shall have trip free mechanism such that tripping command always overrides the closing command. MCCBs shall have disconnection capability to ensure that handle does not return to off position in case of contacts getting welded. Compartment doors shall clearly indicate the state of MCCB i.e. ON/OFF/TRIP. MCCBs shall be provided with test function (push button or equivalent) to check the correct functionality of the MCCBs.

iv. Each MCCB shall have a facility for padlocking in the off position.

v. MCCBs shall have shrouded terminals.

vi. MCCBs shall not have any load line biasing.

vii. All releases shall be tamper proof

viii. The mechanical operations of MCCBs shall be ≥ 15000 operations.

ix. Incoming and outgoing feeder name shall be displayed on Panel by screen printing.

x. MCB shall be 10 KA Breaking Capacity 'C' Series and conforming to IS 8828/1996 (Latest Version)(E) Flush mounted electronic intelligent panel Meter on each incoming panel, for measuring voltage, current, KWH, PF, KW etc having class I accuracy, should be provided. Digital Ammeter should be provided on each Outgoing panel. On/Off LED indication light to be provided on each incoming & outgoing feeder. R/Y/B LED indication light to be provided on each incoming feeder.

(l) Incoming and outgoing feeder name shall be displayed on Panel by screen printing.

5. STANDARD SPECIFICATION

The equipments shall conform to latest addition of IS Specification including:

IS:13947/Pt.II/1993 & IEC 60947-2. - Air circuit breaker voltage not exceeding 1000V.

IS: 1897/1983 - Copper bus bars.

c) IS:8623/Pt.I to Pt.II/1993 - Marking & arrangement of switch gear bus bars, connections & auxiliary wiring.

d) IS 13947/Pt.II/1993 & IEC 60947-2. - MCCB

e) IS:13703/1993 - HRC fuses.

f) IS:2705/Pt.I to IV/1992 as applicable - Current Transformer

g) IS 13947 : Part 1 : 1993 - Specification for Low-voltage Switchgear and

Controlgear - Part 1 : General Rules

Measuring instruments shall have accuracy Class I.

6. SHEET STEEL TREATMENT AND POWDER COATING

(a) Sheet Steel materials used in construction of these units should have undergone a rigorous rust proofing process comprising alkaline degreasing, descaling in dilute sulfuric acid and a recognized phosphating process. Steel work shall then receive two dip-coats of oxide filler/ primer before final painting. Castings shall be scrupulously cleaned and fettled before receiving a similar oxide primer coat. Manufacturer is required to have seven tank treatment facility for this.

(b) All sheet steel shall after metal treatment be powder coated with two coats of shade 692 or as approve to IS:5 on outside and white on inside. Each coat of paint shall be properly stoved and paint thickness shall not be less than 80 microns. Panel manufacturer should have in-house power coating facility.

7. TECHNICAL PARTICULARS

Tenderer shall submit full description literature and technical particulars of equipment offered. All equipment/instruments should have test certificate of the recognized/NTH to confirm to relevant IS: Specification.

8. DRAWINGS

General arrangement and wiring drawings shall be got approved by successful tenderer before manufacturing switchboard from railways. Design calculation busbar layout shall be got approved in advance from Railways.

9. DANGER NOTICE PLATES

Danger Notice plates shall be fixed on front and back panels conforming to IS: 2551/63.

10. PACKING & TRANSPORTATION.

Complete LT Panel should be packed in such a way that there should not be any scratches on Panel during transportation.

11. TESTING & INSPECTION

(i) Original test certificates of all equipments/instruments shall be submitted along with the supply of panelboard after Inspecting Officer passes LT panel board.

(ii) Certificate for all routine and type tests for circuit breakers in accordance with the IS:13118-1991 shall be furnished.

(iii) All panels shall be meggered phase to phase and phase to neutral using a 1000/500V Megger with all outgoing feeders in closed position. Megger value should not be less than 2.5 MΩ between phases and 1.5MΩ between phases and neutral.

NOTE: -

Manufacturer should have following:

- a) ISO 9001 certification
- b) Testing facilities as per relevant IS and
- c) Powder coating arrangement.

ITEM NO. 42 (PRE-COOLING CUM BATTERY CHARGING BOX) 415 Volts AC Pre-cooling cum 110 V DC Battery Charging Box shall be fabricated with MS Sheet 10SWG thick and MS Angle of size 40x40x5mm. The box shall be out door type, floor mounted, weather, dust & vermin proof with degree of protection IP54. It shall be divided into two compartments of equal size which shall have independently hinged doors for both the compartments lockable and double earthing terminal. Proper canopy shall be provided on the top to prevent rain water entering inside the box. Separate detachable plate 10SWG thick MS sheet for both compartments shall be provided 100 mm diameter hole with grommet for incoming and outgoing cable. Incoming & Outgoing cable shall be connected with the bus bar from bottom side. The box shall be painted with grey colour over two coats of red oxide primer after anticorrosion treatment.

(a) 1st compartment shall be suitable for accommodating one No. 100 Amps. 4 pole MCCB 35 KA breaking capacity thermal magnetic release with adjustable over load & short circuit protection conforming to IS 13947/Pt.II/1993 (Latest Version). Rated short circuit breaking capacity ($I_{cs} = I_{cu}$) should not be less than 35 KA rms at 415 Volt 50 Hz AC. The MCCBs shall have spreader links and barriers as standard feature of manufacturer, one 63 A. 5 pin (3P+N+E) 415V. Panel mounted socket with spring locked cover & one 63 A. 5 pin (3P+N+E) 415V. Plug conforming to IEC 309/1 & 2, one No. 16 A. 3 pin (2P+E) 250V. Panel mounted socket with spring locked cover & one 16 A. 3 pin (2P+E) 250 V. Plug conforming to IEC 309/1 & 2 and 16A SP MCB 200 Amps. Aluminum Bus bars for Phases & Neutral should be fixed on fiber sheet with PVC sleeve colour coded. Index of protection of socket & plug should not be less than 67. 2nd compartment shall be suitable for accommodating one No. 32 Amps. DC series MCB DP suitable for 110 V. DC supply, one No. panel mounted 32 Amps. 3 Pin (2P+E) socket with spring locked cover & one No. 32 A. 3 Pin (2P+E) plug conforming to IEC 309-1 & 2 and 200 Amps. Aluminum bus bars for two positive & one negative should be fixed on fiber sheet with PVC sleeve colour coded.

(b) MCCB & MCB should be operated without opening the front cover. Interconnection with suitable size PVC insulated copper conductor cable conforming to IS 694/1990 from bus bar to MCCB/MCB to socket. 3 core & 4 core PVC insulated and PVC sheathed copper conductor flexible cable up to 1100 Volts shall be confirmed to IS 694 with plugs. Proper visible indication plate fluorescent screen printed on the front of both compartments shall be provided for 415 Volts AC pre-cooling box and 110 V. DC battery charging box as approved by Railway.

(c) The box shall be grouted in ground with cement, mortar mixture (1:2:4) with muffing.

(d) It should be as per drawing no. [CEE.NR.AC3111.alt-1](#) of PCBC box which is attached as CEE.NR.AC3111.alt-1 with tender.

Item No. 43 & 44(LED based pit light fitting 18 watt,input voltage 48 V AC, cat walk light fitting 22 watt):-Item shall be supplied & commissioned as per specification no CEE/N.Rly. Specification No.CEE/NR/121-Elect/PS/2018 (Rev '3') Dated 28.06.2018 & CEE/NR/121- Elect/PS/2019 (Rev.4) dated 04.11.2019 with correction dt.10.02.2020 or latest, which are attached here as LED specification The work for item also includes wiring with 2x2.5 sq.mm PVC insulated multi stranded FRLS copper conductor cable, for connection from junction box to fitting.

Item No. 45 (Outdoor type Step down Transformer with control panel):-

Design of this item should be as per SOR and complete item should be outdoor type suitable for installation at any decided location by site incharge and complete fixing of this item included in scope of work with required material.

Drawing and Make shall be approved from competent Authority i.e. Sr.DEE/G/FZR before supply.

ITEM No.46 (Welding points suitable for 400 Volt AC supply system)

Welding point should be made of MS sheet 16 SWG with powder coated with light grey colour thickness not less than 40 microns, comprising of two nos. cable glands suitable for 120/185 sq. mm 2 core LT XLPE as required armoured cable Aluminum bus bar of 400 Amp rating, two nos. porcelain insulators fitted on Bakelite sheet 325 x 40 x 12 mm thick, interconnection for welding cable terminal etc and provision of a hole in the bus bar for looping two nos. 120/185 sq. mm 2 core cable as required at site including earthing. The item shall be as per relevant IS/IE

Drawing and Make shall be approved from competent Authority i.e. Sr.DEE/G/FZR before supply.

ITEM No.48 (Iron junction box)

The item shall be as per relevant IS/IE and design drawing/make shall be approved from competent Authority i.e. Sr.DEE/G/FZR before supply.

Item No. 49(Distilled Water Plant):

The scope of work include SUPPLY, INSTALLATION, TESTING AND COMMISSIONING, OF DISTILLED WATER PLANT DOUBLE STAGE DISTILLATION UNIT WITH DISTILLATION WATER CAPACITY 25 LPH, WITH STAINLESS STEEL BODY, 230 VOLTS 50 HZ, SINGLE PHASE, PH VALUE:6.9-7.5, TDS 0-5 PPM ,DUTY CYCLE 125 LTR/DAY, WATER PRESSURE 1.5 KG/SQCM WITH 02 NOS FILTER CARTRIDGE , ELECTRICAL RESISTIVITY MIN 1M OHM-CM. CARBON CONDUCTIVITY MAX 1us/cm .The item shall be as per relevant IS/IE and SOR and **Make shall be approved from competent Authority i.e. Sr.DEE/G/FZR before supply. Warranty : Minimum 12 Months or as per OEM whichever is higher.**

ITEM No. 50 (MS Cable Tray):

The contractor shall to fabricate, supply, and fix the CRCA cable tray with MS angle of suitable size below the Catwalk/Pillar in washing line. The fixing arrangement shall be robust & the fixing shall have to done by fabricating of MS clamp nut bolts along with Catwalk/Pillar in washing line. The cable tray shall be 300mm wide x 100mm deep, thickness of the CRCA sheet is 2mm&both the outer side MS angle of suitable size as per site requirement. The cable tray shall be firmly fixed/supported with RCC slab on platform, column & apron with MS angle iron clamps of higher size than the section of the angle of the tray with nut & bolts of suitable size. The clamp of MS flat shall be provided for holding the charging/pre-cooling cable or other services cable on the tray and should be bolted so that the cables can be straight. Spacing between clamps holding the cables shall be one meter. Clamps shall be painted with one coat of red oxide and two coat of black paint. **The design of the cable tray and fixing arrangement should be got approved before manufacture.**

ITEM No.51 (Air Circulator fans wall mounting 600 mm 24inches)

The item shall be executed as as per relevant IS/IE and SOR description. **Make and Technical data sheet shall be approved from competent Authority i.e. Sr.DEE/G/FZR before supply. Warranty : Minimum 12 Months or as per OEM whichever is higher.**

Item No.52 (Silicon Rectifier battery charging set)

This item shall be in conformity with IS 4540/1968 (Latest Version), and Northern Railway Tech. Specification No. CEE/C/TKJ/NR-1 with. Degree of protection shall be IP42 as per IS 2147/1962.Danger Notice Plate shall be provided conforming to IS 2551/1982.

SPECIFICATION No. CEE/C/TKJ/NR-1 FOR SILICON RECTIFIER BATTERY CHARGING SETS.

- 1, **Scope:** - This specification covers the construction and test requirement of Silicon Rectifier battery charging sets for charging lead Acid cells used on Indian Railways.

2. **Site Conditions:** - height above mean sea level – below 1000M.
 Maximum ambient temperature - 45 degree Celsius
 Minimum ambient temperature - 1 degree Celsius
 Relative Humidity - 100 %
3. **Nature of Electric Supply:** - AC supply 3 phase, 50 C/s 415V, with neutral earthed.
4. **General arrangements:** - The battery charging sets shall be neutral air cooled type with full wave bridge connected Silicon Rectifier stack and chokes for automatic limiting of variation of charging current due to mains voltage fluctuation. The silicon rectifier diodes used shall be of suitable capacity such, that when 6 diodes are used for 3 phase rectification the normal capacity of the bridge shall be not less than 175% of rated rectification capacity. The silicon diodes shall be rated for 200 PIV or more. The number of silicon diodes making up the Rectifier set shall be indicated in Appendix "A". The silicon rectifier equipment shall confirm to IS 4540 of rating class-B air cooled. The class of insulation shall be "F". The maximum permissible temperature rise on winding shall not be more than 85°C.

A maximum of 5% ripple is allowed. Surge suppressors and HRC fuses shall be provided for protection of the rectifier diodes, chokes shall be wound with copper conductors.

The rating of transformer provided in the battery charging, set shall match the rating of associated rectifier set. The transformer shall be double wound with copper conductor naturally air cooled as per IS: 2026 with class-F insulation suitably impregnated to withstand moist tropical climate. ICTF switch incorporating HRC fuses and MCCB matching the characteristics of diodes, shall be provided for the control of incoming AC supply. The ICTP switch & knife switch should be mounted firmly on a steel frame work below panel sheets. Rewire able fuses shall be provided for pilot lamps and indicating instruments. Knife switch 2 nos. of suitable capacity shall be incorporated for the control of outgoing DC supply in addition to diode protection type HRC fuses of suitable capacity. (2 nos. knife switches each 200 amps. Capacity shall be provided for 2 nos. outgoing cables).

The silicon Rectifier battery charging set shall be capable of giving the rated DG output show in the schedule of requirements over the entire range of 125 to 150 volts. The output voltage shall be capable of adjustment in this range, for which purpose, coarse/medium and fine control in not less than 4 steps shall be provided through suitable rotary control switches incorporated on the transformers.

The arrangements of silicon rectifier stacks, transformers and chokes shall be such that only that item can be dismantled which is required none else getting disturbed.

The battery charging sets are required for indoor use and shall be of floor mounting type. The set shall be consisting of transformers, chokes, silicon rectifier, control switches/ ON/OFF switches. DC Voltmeter, ammeter of moving coil type flush pattern of suitable range and interconnections etc. These requirement shall be fitted in the most workmen like manner in a near well ventilated cabinet of metal sheet not less than 14 SWG gauge thick with tropical finish. The interior and exterior surface shall be painted with double coating to heat resisting paint with neat finish. The bus bars and inter connections shall be of copper conductors. Suitable earthing terminals shall be provided. To safeguard against accident hazard to the maintenance staff, incoming and the outgoing terminals on charging set shall be provided for enough space on separate installed sheets.

5. OVER LOADING.

a) The rectifier transformer unit capacity should be adequate to withstand the following over loading.

- | | | | |
|-----|-------------------|---|---------------|
| i) | 50% over loading | - | Continuously. |
| ii) | 100% over loading | - | One hour. |

b) The transformer rectifier unit shall be so designed that on short circuit on DC side of the rectifier bridge, the short circuit does not exceed 300 % of the nominal rating of the rectifier unit.

6. COMPLIANCE TO SPECIFICATIONS.

The equipments shall conform to the followings:-

- | | | |
|----|--|-------------|
| a) | Monocrystalline semi - conductor Rectifier Cells and stacks. | IS 3895-66. |
| b) | Monocrystalline semi – conductor Rectifier Assemblies and equipment. | IS 4540-68. |
| c) | Direct acting electrical indicating instruments. | IS 1248-68. |

- d) Heavy duty composite units of air-break Switches and fuses for voltage not exceeding 1000 volts. IS 13947.
- e) MCCB IS 13947
- f) HRC cartridge fuse links up to 650V IS 9224
- g) Rectifier transformer shall conform to Clause IS 4540 – 68 5 of IS 4540-68 for characteristics in which rectifier transformers differ with ordinary power transformers. In other aspect the rectifier Transformer shall conform to IS: 2026 of 1977 as far as they are not in contradiction of IS 4540-68.

7. TESTS:

7.1 Type Tests: - Type test shall be carried out by the manufacturer on sample/samples picked up at random in accordance with clause 5.1 of this standard. The following shall constitute the type tests :-

- a) **Insulation resistance test.** Insulation resistance shall not be less than 2 M.ohm. before and after the high voltage test. The AC and DC side of rectifier set shall be short circuited while testing.
- b) **Load characteristic –** The battery charger shall give 200 A at 150 V DC.
- c) **High Voltage Test –** One KV shall be applied for 60 Secs. Rectifier AC/DC side shall be short circuited before applying high voltage.
- d) **Load Test** -Connect the battery charger to variable resistance of water rheostat and measure the output voltage and current. Check the transformer and temperature after 2 hours run. Check up the core noise or poor lamination or heating.
- e) The inspecting officer can ask for repetition of any/all tests. If he so desired and the manufacturer shall repeat such of the tests as required by the inspecting authority. The test certificates shall be countersigned by him in token of his approval. However, inspecting officer shall witness type tests of one battery charger.

8. VISUAL INSPECTION AND DIMENSIONAL CHECK.

The battery charger in assembled condition shall be visually inspected for satisfactory finish and good workmanship. The dimensions and weight will be checked as per Appendix-A.

8.1 TESTING FACILITIES :- The venue for all the tests shall be at the manufacturer's work unless the purchaser indicates his preference for any other location for testing. When the testing is done at his works, the manufacturer shall provide personal equipments and other testing facilities for conducting the tests free of charges. The manufacturer shall also supply a copy of the type & routine tests carried out by him on the battery charger to the inspecting officer nominated by the purchaser for his scrutiny and approval.

9. SPARE AND TOOLS :- A list of spares (recommended for two years normal working and one spare silicon rectifiers stack with the price of each part should be submitted as a separate quotation distinct from that of the main equipment so that the Railway can select any item of spares if considered necessary.

A complete list of tools together with special tools. If any, should be submitted separately showing cost of each item separately. The Railway may select any tools as considered, necessary from this list.

10. TEST SHEETS: - Triplicate copies of certified test sheets showing the result of tests conducted shall be furnished by the successful tenderer.

11. SURVEY OF TECHNICAL DATA: - No tender will be considered unless the schedule of technical data in the form of Appendix-A attached to this specification is filled in and submitted along with the tender.

12. MARKING: - Following data shall be marked on the name plate:-

- a) Manufacturer's Name
- b) Serial No.
- c) Date of manufacture.
- d) Rated capacity.

Signature of Tenderer

- e) Out put voltage.
- f) Out put current.

13. DRAWING, TECHNICAL LITERATURE AND MAINTENANCE INSTRUCTION.

The successful tenderer on receipt of the order shall supply free of cost two copies of the general arrangement drawing, wiring diagram, operation and maintenance instructions and other technical illustrated literature for scrutiny and record.

- 14. Deviation from any of the clause of this specification shall be clearly pointed out at the tender stage. Clause not so comments upon will be taken as having met with the approval of the tenderer and therefore be binding on him.
- 15. The tenderer shall submit a guarantee for satisfactory performance of equipment for a period of twelve months from the date of erection and commissioning.

THIS SPECIFICATION CONFORMS TO NR SPECIFICATION NO. 1 ELECT/TL/110V /91.

Note: -

- 1. All Electrical Items shall be ISI marked.
- 2. It is advised to the tenderer that site must be inspected thoroughly before quoting the rates, later on no claim shall be accepted.
- 3. For all LED based luminaries: Firm shall give Certificate provided by Original Equipment Manufacturer duly mentioning the Date upto which warranty is valid, as per CEE/N.Rly. Specification No.CEE/NR/121- Elect/PS/2018 (Rev '3') Dated 28.06.2018 (point no. 8) Supplier shall arrange Undertaking from OEM, certifying that Warranty shall be enforceable by Railways as per Warranty certificate provided and OEM shall provide complete warranty even after maintenance period of the Supplier is over and Security money is released.
- 4. Firm shall give Certificate provided by Original Equipment Manufacturer duly mentioning the Date upto which warranty is valid for items having warranty applicable, Supplier shall arrange Undertaking from OEM, certifying that Warranty shall be enforceable by Railways as per Warranty certificate provided and OEM shall provide.

ANNEXURE-7

Name of the Bank: -----

President of India,
Acting through Sr. Divisional Finance Manager,
Northern Railway, Firozpur

Bank Guarantee Bond No.:
Date:-----

PERFORMANCE GUARANTEE BOND

In consideration of the President of India acting through (Designation & address of Contract Signing Authority), Northern Railway,, Firozpur (hereinafter called "The Government") having agreed under the terms and conditions of agreement / Contract Acceptance letter No. dated made between..... (Designation & address of contract signing Authority) and(here in after called "the said contractor(s)" for the work (here in after called "the said agreement") having agreed for submission of a irrevocable Bank Guarantee Bond for Rs. (Rs.only) as a performance security Guarantee Bond from the contractor (s) for compliance of his obligations in accordance with the terms & conditions in the said agreement.

1. We (indicate the name of the Bank) hereinafter referred to as the Bank, undertake to pay to the Government an amount not exceeding Rs. (Rs. only) on demand by the Government.
2. We (indicate the name of the bank, further agree that (and promise) to pay the amounts due and payable under this guarantee without any demur merely on a demand from the Government through the Sr. Divisional Finance Manager, Northern Railway, Firozpur-152001, stating that the amount claimed is due by way of loss or damage caused to or would be caused or suffered by the Government by reason of any breach by the said contractor of any of the terms of conditions contained in the said agreement or by reason of the contractor failure to perform the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. (Rs. Only).
- 3.(a) We (indicate the name of Bank) further undertake to pay to the Government any money so demanded notwithstanding any dispute or dispute raised by the contractor(s) in any suite or proceeding pending before any court or Tribunal relating to liability under this present being absolute and unequivocal.
- (b). The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.
4. We, (indicate the name of bank) to further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged by (Designation & Address of contact signing authority) on behalf of the Government, certify that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.

- 5.(a) Notwithstanding anything to the contrary contained herein the liability of the bank under this guarantee will remain in force and effect until such time as this guarantee is discharged in writing by the Government or until (date of validity / extended validity) whichever is earlier and no claim shall be valid under this guarantee unless notice in writing thereof is given by the Government within validity / extended period of validity of guarantee from the date aforesaid.
- (b). Provided always that we..... (indicate the name of the Bank) unconditionally undertakes to renew this guarantee on to extend the period of guarantee form year to year before the expiry of the period or the extended period of the guarantee, as the case may be on being called upon to do so by the Government. If the guarantee is not renewed or the period extended on demand, we (indicate the name of the Bank) shall pay the Government the full amount of guarantee on demand and without demur.
6. We, (indicate the name of Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without effecting in any manner out of obligations hereunder to vary any of the terms and conditions of the said contract from time to time or to postpone for any time or from time to time any to the powers exercisable by the Government against the said contractor (s) and to forbear or enforce any of the terms and conditions of the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any bearance act or omission on the part of the Government or any indulgence by the Government to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties for the said reservation would relive us from the liability.
7. This guarantee will not be discharged by any change in the constitution of the Bank or the Contractor(s).
8. We, (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.
9. This guarantee shall be valid upto (date of Completion plus 60 days). Unless extended on demand by Government. Notwithstanding anything to the contrary contained hereinbefore, our liability under this guarantee is restricted to Rs. (Rs. only) unless a demand under this guarantee is made on us in writing on or before we shall be discharged from our liabilities under this guarantee thereafter.

Dated, the _____ day of _____ for

(Indicate the name of Bank).

**Signature of Banks Authorized official
(Name)-----**

Designation with Code No.-----

Full Address-----

Witness:

1. Signature:

Name:

Address:

2. Signature:

Name:

Address:

Signature of Tenderer

ANNEXURE-7A

Insurance Surety Bond for Performance Security

Name of the issuer of surety bond:

President of India,

Acting through

_____ Railway.

Date.

Surety Bond No: _____

Amount of Bond: _____

Issue Date-_____

Expiry Date. _____

WHEREAS, In consideration of the President of India acting through _____ (*Designation & address of contract signing authority*), _____ Railway, _____, (hereinafter called "The Railway") having accepted the bid of M/S XXXX hereinafter called the contractor, for the work of XXX" under invitation for bids No XXXX Dated XXXX, Vide Letter of Acceptance No _____

AND

WHEREAS, the contractor is required to furnish Performance Security for the sum of Rs. XXXX (Rupees XXXX Only), in the form of Surety Bond, being a condition precedent to the signing of the contract agreement.

Signature of Tenderer

SB No:

Date

WHEREAS, we, ----- (*Name of insurance company*) hereinafter called the Surety, acting through [*Designation(s) of the authorised person of the Surety*], have, at the request of the M/s. _____ contractor, agreed to give Bond for performance security/ additional performance security as hereinafter contained:

1. KNOW ALL MEN by these present that I/We, the undersigned [*Insert name(s) of authorized representatives of the Surety*], being fully authorized to sign and incur obligations for and on behalf of the Surety, confirm that the Surety, hereby, unconditionally and irrevocably Bond to pay the Railway the full amount in the sum of XXXX (*Rupees XXXX Only*) as above stated.
2. The Surety 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 Surety shall be final, conclusive and binding, absolute and unequivocal notwithstanding any disputes raised/pending before any Court, tribunal, arbitration or any authority or any threatened litigation by the Bidder or Bank.
3. On payment of any amount less than aforementioned full amount, as per demand of the Railway, the Bond shall remain valid for the balance amount i.e. the aforementioned full amount less the payment made to the Railway.
4. The Surety shall pay the amount as demanded immediately on presentation of the demand by Railway without any reference to the contractor and without the Railway being required to show grounds or give reasons for its demand or the amount demanded.
5. The Surety Bond shall be unconditional and irrevocable.
6. The Bond hereinbefore shall not be affected by any change in the constitution of the Surety or in the constitution of the Contractor.
7. The Surety agrees that no change, addition, modifications to the terms of the Contract Agreement or to any documents, which have been or may be made between the Railway and the Contractor, will in any way release us from the liability under this Bond; and the Surety, hereby, waives any requirement for notice of any such change, addition or modification to the Surety.
8. This Bond is valid and effective from the date of its issue, which is [*insert date of issue*]. The Bond and our obligations under it will expire on XXXX (*Expiry Date*). All demands for payment under the Bond must be received by us on or before that date.
9. The Surety agrees that the Railways right to demand payment of aforementioned full amount in one instance or demand payments in parts totalling up to the aforementioned full amount in several instances will be valid until either the aforementioned full amount is paid to the Railway or the Bond is released by Railway before the Expiry date.
10. The Surety agrees that its obligation to pay any amount demanded by the Railway before the expiry of this Bond will continue until the amount demanded has been paid in full.
11. The expressions Surety and Railway hereinbefore used shall include their respective successors, administrators and assigns.
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

Signature of Tenderer

Principal Debtor of the Railway.

Notwithstanding anything to the contrary contained in these presents,

- a. Our liability under this Surety Bond shall not exceed, *XXXX (Rupees ,XXXX 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 (customer.care@sbigenral. in).

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.]

Signature of Tenderer

ANNEXURE-9**PROFORMA****DECLARATION**

I/We hereby solemnly declare that I/We visited the site of the work (as on top sheet) personally and have made myself / ourselves fully conversant of the conditions therein and particular the following:-

1. Topography of area.
2. Soil strata at site of work.
3. Sources and availability of construction materials.
4. Rates for construction of material, water, electricity including all local taxes, royalties, octroi etc.
5. Availability of local labour (both skilled and unskilled) and relevant labour rates and labour laws.
6. The existing roads and approaches to the site of work and requirements for further service roads / approaches to be constructed by me/us
7. The availability and rates of private land etc. that shall be required by me/us for various purposes.
8. Climatic conditions and availability of working days.

I/We have quoted my/our rates for various items in the schedule of items, quantities and rates taking into account all the above factors also.

Signatures of the Tenderer/s

Annexure-10

Constitution of Firm

1	Constitution of the firm / concern. (Tick as applicable)	Sole Proprietor / Partnership Firm / Company / JV / Society
2	Full name of them / Company / JV / Society.	
3	Year of formation / incorporation	
4	PAN No.	
5	Registered Office Address	
6	Address on which correspondence regarding this Tender should be done	
7	Names of the proprietor / partners / JV members etc	

Undertaking:

We have uploaded along with the tender, all the requisite documents pertaining to the constitution of the firm / concern / company etc as specified in clause-1.1.4 of "Preamble & General Instructions to Tenderers".

I/we understand that in the absence of these documents, our tender shall be treated as having been submitted by the individual who has signed the tender documents.

Signature of Tenderer

ANNEXURE-11

Details of Plant and Machinery already available with the firm

S. No.	Particulars of equipment	No. of Unit.	Kind & make	Capacity	Date by which the plant would be available for use on this work	Age & condition	Work on which it is being used.
1	2	3	4	5	6	7	8

Signature of the Tenderer/s

Signature of Tenderer

ANNEXURE-12

LIST OF ENGINEERS / PERSONNEL ALREADY AVAILABLE / PROPOSED TO BE EMPLOYED FOR
DEPLOYMENT ON THIS WORK

S. No.	Name & Designation	Qualification	Professional experience	Organization with whom working	Date by which personnel will be available for this work.
1	2	3	4	5	6

Signatures of Tenderer/s

Signature of Tenderer

ANNEXURE-13

**STATEMENT OF WORKS EXECUTED / COMPLETED BY THE CONTRACTORS
DURING LAST SEVEN YEARS**

S. N.	Name and place of work	Authority / agency for which work was carried out	Date of award & agreement No. & Date	Date of completion (original / actual)	Agreement cost / completion cost	Principal / Technical features work in brief	S. No. at which relevant certificate / documents are attached
1	2	3	4	5	6	7	8

- Letter of Acceptance issued by Competent Authority in favour of Name of the firm who had executed the work duly stating Name & cost of the Work, Original Date of Completion etc., against which the completion/Experience certificates have been attached with the tender document, must be enclosed.
- Completion Certificate issued by Competent Authority in favour of Name of the firm who had executed the work duly stating Name & Final cost of the Work, Date of Completion etc. must be attached. No printed Document like annual report etc. should be attached with Tender Document.

Signature of the Tenderer/s

ANNEXURE-14

Statement of works being executed / in hand by the contractor/s

S. N.	Name and Place of work	Authority / agency for whom the work is being carried out	Date of award & agreement No. & Date	Date of completion (Original / actual)	Agreement cost of work cost / likely cost	Principal / Technical features work in brief	S. No. at which relevant Certificate / Documents are attached	Payment taken till.
1	2	3	4	5	6	7	8	9

ANNEXURE-15

Each Bidder must fill in this form separately:

NAME OF BIDDER:

Annual Contractual Turnover Data for the Previous 3/4 Years (Contractual Payment only)			
Year	Amount Currency	Exchange Rate	Indian National Rupees Equivalent
Average Annual Contractual Turnover 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.

SEAL AND SIGNATURE OF THE BIDDER

Certified that all figures and facts submitted in this form have been furnished after full consideration of all observations/notes in Auditor's reports. _____

(Signature of Chartered Accountant)

Name of CA: _____

Registration No: _____

(Seal)

ANNEXURE-16

FORMS

FORMNO.E-5

Appendix-VIII

Real Time Gross Saving (RTGS) / National Electronic Fund Transfer (NEFT)

Model Mandate Form

(Investor / customer's option to receive payments through RTGS / NEFT)

1. Investor / customer's name
2. Particular's of Bank Account:
 - A) Name of the Bank:
 - B) Name of the Branch:
Address
Telephone No.:
 - C) RTGS / NEFT IFS Code:
 - D) Type of the account (S.B. Current or Cash Credit) with code (10/11/13):
 - E) Ledger and Ledger folio number:
 - F) Account number (as appearing on the Cheque book) in lieu of the bank certificate to be obtained as under:

Please attach a blank cancelled cheque or a photocopy of a cheque or front page of your savings bank pass book issued by your bank for verification of the above particulars)

3. Date of effect:

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge the responsibility expected of me as a participant under the scheme.

(.....)

Signature of the Investor / Customer

Signature of Tenderer

FORM-K1

Annexure-17

GUIDELINES' FOR PARTICIPATION OF JOINT VENTURE (JV) FIRMS

(The JV firms are allowed to participate only in the tenders of value more than Rs. 10.0 crores)

---- (Not allowed for this tender) ---

ANNEXURE-17A

FORMAT FOR JOINT VENTURE MEMORANDUM OF UNDERSTANDING / AGREEMENT

THIS JOINT VENTURE MEMORANDUM OF UNDERSTANDING (MOU) AGREEMENT EXECUTED AT on this day of 20 between M/s. Registered office at as the first party M/s. Registered office at as the second party M/s. Registered office at as the Third party (The expression and words of the first and second and third party shall mean and include their heirs successors, assigns, nominees execution, administrators and legal representatives respectively.)

WHEREAS, all the parties are engaged mainly in the business of execution of Civil Engineering and General Contracts for various Government Departments and organizations.

WHEREAS, the parties herein above mentioned are desirous of entering in to a Joint Venture for Carrying on Engineering and / or contract works in connection with and other works mentioned in Tender Notice No..... dated of Northern Railway or any other work or works, as mutually decided between the parties to this Joint Venture.

WHEREAS, all the parties are desirous of recording the terms and conditions of this Joint Venture to avoid future disputes.

NOW THIS MOU / AGREEMENT WITNESSTH AS UNDER:

1. That in and under this Joint Venture agreement the work will be done jointly by the First party and Second party in the name and style of M/s (Joint Venture of M/s. M/s..... and M/s)
2. That all the parties shall be legally liable, severally and or jointly responsible for the satisfactory / successful execution / completion of the work in all respects and in accordance with terms and conditions of the contract.
3. That the role of each constituent of the said Joint Venture in details shall be as under: The first party shall be responsible for The second party shall be responsible for The third party shall be responsible for
4. The share of profit and loss of each constituent of the said Joint Venture shall be as under:
5. That all the parties of this Joint Venture shall depute their experienced staff as committed commensuration with their role and responsibility and as required for the successful completion of the works in close consultation with each other.
6. That the investment required for the works under this Joint Venture shall be brought in by the parties as agreed to between them from time to time.
7. That all the Bank Guarantee shall be furnished jointly by the parties in the name of Joint Venture.

8. That the party numberto this Joint Venture shall be the prime (lead) contractor and will be responsible for timely completion of work and to co-ordinate with the Railways to receive payments and also to make all correspondence on behalf of this Consortium/ Joint Venture.
9. That all the above noted parties i.e. not to make any change in the agreement without prior written consent of the Railway.

NOW, the parties have joined hands to form this Joint Venture on this ... Day of ... 20 with reference to and in confirmation of their discussions and understanding brought on record on ...

IN WITNESS THEREOF, all / both the above named parties have set their respective hands on The day and year First above mentioned in the presence of the following witness:

WITNESSES:

1. First party

2. Second party

FORM-K2

Annexure-17B

Guidelines for submitting tenders by Partnership Firms and their Eligibility Criteria

1. The Partnership Firms participating in the tender should be legally valid under the provisions of the Indian Partnership Act.
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.
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.
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.

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.
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.
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.
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.
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:

Signature of Tenderer

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.

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 explanatory notes in Para 1.1.12 of PREAMBLE & GENERAL INSTRUCTIONS to TENDERERS and as per GCC-2022..

11. Evaluation of eligibility of a partnership firm:

Technical and financial eligibility of the firm shall be adjudged based on satisfactory fulfillment of the following conditions:

i) Technical eligibility criteria:

The tenderer should satisfy either of the following criteria:

- a)** The partnership firm shall satisfy the full requirement of technical eligibility criteria (defined in “para 1.1.12.2(i) of PREAMBLE & GENERAL INSTRUCTIONS to TENDERERS”) in its own name and style;

OR

- b)** In case the partnership firm does not fulfill the technical eligibility criteria in its own name and style, but one of its partners has executed a work in the past either as a sole proprietor of a firm or as a partner in a different partnership firm, then such partner of the firm shall satisfy the technical eligibility criteria (defined in “para 1.1.12.2(i) of PREAMBLE & GENERAL INSTRUCTIONS to TENDERERS”) on the basis of his/her proportionate share in that proprietorship/ partnership firm reduced further by his/her percentage share in the tendering firm.

ii) Financial eligibility criteria– The tenderer shall satisfy either of the following criteria:-

- a)** The partnership firm shall satisfy the full requirements of the financial eligibility criteria (as defined in “para 1.1.12.2(ii) of PREAMBLE & GENERAL INSTRUCTIONS to TENDERERS”) in its own name and

Signature of Tenderer

style.

OR

- b) In case the partnership firm does not fulfill the financial eligibility criteria in its own name and style, but one or more of its partners have executed a work/contract in the past either as sole proprietor or as partner in different firms, then the arithmetic sum of the contractual payments received by all the partners of the tendering firm, derived on the basis of their respective proportionate share in the such firms reduced further by their respective percentage share in the tendering firm, shall satisfy the full requirements of the financial eligibility criteria (as defined in “para 1.1.12.2(ii) of PREAMBLE & GENERAL INSTRUCTIONS to TENDERERS”).

Example on Evaluation of Technical & Financial Eligibility of Partnership Firm:

A tendering partnership firm “ABCD” has four constituent partners namely “A”, “B”, “C” & “D” with their respective shares as 40%, 30%, 20% & 10%, but this firm has not executed any work in its own name and style. However, the constituent partners have executed the work in earlier partnership firm(s) or as sole proprietor as under:

- (i) Partnership firm “ABZ” having three partners namely “A”, “B” & “Z” with respective shares of 10%, 20% & 70%, has executed a work of value Rs.10.00 crores earlier.
- (ii) Partnership firm “CYX” having three partners namely “C”, “Y” & “X” with respective shares of 50%, 30%, & 20%, has executed a work of value Rs.5.00 crores earlier.
- (iii) Sole proprietorship firm “P” having “D” as sole proprietor has executed a work of value Rs.2.0 Crores earlier.

The evaluation of technical and financial eligibility of tendering firm “ABCD” shall be done by taking proportionate share of credentials of partners A, B, C and D derived from their earlier partnership firms to be reduced further by their percentage share in the tendering firm as calculated in table below:

Partners	Credentials of “A” & “B” derived from firm “ABZ” which has executed work of Rs. 10.0 cr.		Credentials of “C” derived from firm “CYX” firm which has executed work of Rs.5.0 cr.		Credentials of “D” derived from proprietorship firm “P” which has executed work of Rs. 2.0 cr.		Contribution of “A”, “B”, “C” & “D” to credentials of tendering firm “ABCD”	
	%share in firm “ABZ”	Proportionate Credentials	% share in firm “CYX”	Proportionate Credentials	% Share in firm “P”	Proportionate Credentials	%share in “ABCD”	Proportionate Contribution to “ABCD”
A	10%	10% of 10.0 Cr. = 1.0 Cr.	-	-	-	-	40%	40% of 1.0 Cr = 0.4 Cr
B	20%	20% of 10.0 Cr. = 2.0 Cr.	-	-	-	-	30%	30% of 2.0 Cr. = 0.6 Cr
C	-	-	50%	50% of 5.0 Cr = 2.5 Cr	-	-	20%	20% of 2.5 Cr. = 0.5Cr.
D	-	-	-	-	100%	100% of 2.0 Cr = 2.0 Cr	10%	10% of 2.0 Cr. = 0.20Cr

Evaluation of Technical Eligibility:

Any one of the partners of “ABCD” tendering firm viz A, B, C or D should satisfy the technical eligibility criterion on the basis of his/her proportionate share of credential in the earlier partnership firm reduced further by his percentage share in the tendering firm. As calculated in above table, the contribution of partners A, B, C & D towards the credentials of tendering firm “ABCD” will be taken as Rs. 0.40 cr., Rs.

Signature of Tenderer

0.60 cr., Rs. 0.50 cr., 0.20 cr respectively. Thus, in this example the firm "ABCD" is deemed to have executed one single work of maximum value of Rs 0.60 Cr. for the purpose of technical eligibility criteria.

Evaluation of Financial Eligibility:

The arithmetic sum of the contribution of all the partners of tendering firm "ABCD" derived on the basis of their respective proportionate share in the earlier partnership firms reduced further by their respective percentage share in the tendering firm, in this example will be taken as Rs.1.70 Cr. (i.e. $A+B+C+D = 0.40+0.60+0.50+0.20 = 1.70$ cr.). Thus, in this example, the firm "ABCD" is deemed to have received contractual payments of Rs1.70 Cr. for the purpose of financial eligibility criteria.

(Signature)

(Designation)

..... Railway

Signature of Tenderer(s) Date

Annexure-18

NORTHERN RAILWAY**(Standard Format)****COMPLETION CERTIFICATE**

The work of “----- (Full name of the work) -----” has been Completed with following details:-

1	Name & complete address of the contractor.	
2	Nature of entity (sole prop / partnership firm / company / JV)	
3 (a)	In case of Sole proprietorship, the name of sole proprietor	
(b)	In case of partnership firm / JV, the Names & shares of various partners / members.	
4	Date of Acceptance/LOA	
5	Agreement No. & date	
6(i) (ii)	Original Agreement Cost Final Agreement Cost	
7	Total payment made along with financial year wise breakup	
8	Original date of completion (DOC)	
9	(a) Actual date of completion (b) Whether extension to DOC given with penalty or without penalty	
10	Brief description of nature & scope of work	
11	Performance of contractor (Satisfactory / unsatisfactory)	

It is certified that the above work has been completed successfully in accordance with provisions of contract.

(-----)

Name & Signature of issuing authority with seal

Date of issue of certificate: -----

Case File No.: -----

Signature of Tenderer

Annexure-19(Annexure-M)**FORMAT FOR CERTIFICATE TO BE SUBMITTED / UPLOADED BY TENDERER ALONGWITH THE TENDER DOCUMENTS**

I..... (Name and designation)** appointed as the attorney / authorized signatory of the tenderer (including its constituents),

M/s. (herein after called the tenderer) for the purpose of the Tender documents for the work ofas per the tender No. of (Railway)**, do hereby solemnly affirm and state on the behalf of the tenderer including its constituents 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 certificate submitted by us are found to be forged / false or incorrect at any time during process for evaluation of tenders, it shall be lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. 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 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 and may also lead to any other action provided in the contract including banning of business for a period of upto 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**

Date:

Place:

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

Signature of Tenderer

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

ANNEXURE 19(A)

(This certificate is to be given by attorney/authorized signatory/each member of Partnership firm/Joint venture /Hindu divided Family HAF / Limited Liability Partnership (LLP) etc.)

I/We (Name), attorney/authorized signatory of the(constituent firm/constituent partner) and member/partner of the(tendering firm) hereby solemnly affirm and state as under:-

1. I/we certify that(constituent firm/constituent partner) 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.

2. 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 CONSTITUENT FIRM/ CONSTITUENT PARTNER**

Place:

Dated:

ANNEXURE-20

DECLARATION / UNDERTAKING

I/We (Name and Designation of tenderer / Authorized Person of tender) do hereby declare as under:

1. That I/We are an individual / Partnership firm / Company / Society / JV and:
 - (a) That I/We are not a retired Engineer of the gazetted rank or any other gazetted officer working before 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,
 - (b) That I/We being partnership firm / company / joint venture (JV) / registered society / registered trust etc have none of our partners a retired Engineer or retired gazetted officer as aforesaid.
 - (c) That I/We being an incorporated company have any such retired Engineer or retired officer as one of directors.
 - (d) That I/We do not have in our employment any retired Engineer or retired gazetted officer retired from government service (at least 1 year prior to the date of submission of the tender)
 - (e) That I/We being an individual contractors, do not have a relative (s) or in the case of partnership firm/ company / joint venture (JV) / registered society / registered trust etc. have one or more of shareholder(s) or relative(s) of the shareholder(s) employed in gazetted capacity in the Engineering or any other department of the Railway.

OR

- 2(a) That I am a Retired Engineer of the Gazetted rank participated in the tender in individual capacity as (Name of the firm) with following details:

Name	Date of retirement	Post held, Place and Railway unit from which retired	Details of permission taken if such retired Engineer or Gazetted Officer had not retired from Govt. Office at least 1 year prior to the date of submission of tender

- 2(b) That I/We are a Partnership firm / Company / Society / JV and have following retired Railway Gazetted Officer as our Partner(s)/ Director(s) / Employee:

S. No.	Name	Position in tendering entity i.e. Partner / Direct or Employee	Date of Retirement, Post held, Place and Railway unit from which retired	Details of permission taken if such Retired Engineer or Gazetted Officer had not retired from Govt. Office at least 1 year prior to the date of submission of tender

Signature of Tenderer

- 2(c)** That I/We are an Individual / Partnership firm / Company / Registered Society / Trust / JV and have following Share Holder(s) or Relative(s) of the individual tenders / Share Holder(s) employed in Gazetted capacity in the Indian Railways:

S. No.	Name of the gazetted Railway Officer who is/are Share Holder(s) or Relative(s) of Share Holder(s) of tenderer	Post held and Place of Posting	Railway / Unit	Details of Share holding or Relationship with individual / share holder of the tenderer

Note:

- (i) **Strike Off (1) or (2) as applicable.**
- (ii) **In case (1) is applicable and any of the 2(a), (b) or (c) is not applicable NIL may be filled.**

Place:

(Signatures of Authorized signatory)

Name of the tendering firm

Dated:

Annexure –21

(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).

Name of the Bank: -----

President of India,
Acting through.....
.....Railway,

Beneficiary.....Railway
Date:.....

Bank Guarantee Bond No.: Date:-----

In consideration of the President of India acting through **(Designation & address of Contract Signing Authority)**, Railway, (hereinafter called "The Railway") having invited the bid forthrough Notice inviting tender (NIT) No.. , We have been informed that **[Insert name of the Bidder]**.....**(hereinafter called "the Bidder")** intends to submit its bid (hereinafter called "the Bid") .

WHEREAS, the Bidder is required to furnish Bid Security for the sum of **[Insert required Value of Bid Security]**, in the form of Bank Guarantee, according to conditions of Bid.

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.
6. This guarantee will remain valid and effective from.....**[insert date of issue]**till.....**[insert date,**

Signature of Tenderer

which should be minimum 90 days beyond the expiry of validity of Bid]. Any demand in respect of this Guarantee should reach the Bank within the validity period of BidSecurity.

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 –

IFSC CODE	SBIN000RAIL
IFSC TYPE	BRANCH
BANK NAME	STATE BANK OF INDIA
BRANCH NAME	RAIL
CITY NAME	NAVI MUMBAI
ADDRESS	SECTOR-11, CBD BELAPUR, NAVI MUMBAI
DISTRICT	NAVI MUMBAI
STATE	MAHARASHTRA
BG ENABLED	YES

11. 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]
[Designation with CodeNo.]..... [P/Attorney] No.....

Witness:

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.

PART-V

FORMS

OF

TENDERS ETC

FORM-3**Statement of Deviations**

1.0 The following are the particulars of deviation from the requirements of the preamble and general Instructions to Bidder, General and Specific Conditions of the contract.

1.1 Preamble and General Instructions to Bidder :

Clause	Deviation	Remarks. (Including Justification)

1.2 General Conditions of Contract:

Clause	Deviation	Remarks. (Including Justification)

1.3 Special Conditions of Contract

Clause	Deviation	Remarks. (Including Justification)

2.0 The following are the particulars of deviations from the requirements of the technical specifications.

2.1 Separate statement for each specification

Clause	Deviation	Remarks. (Including Justification)

Note :

Where there is "No Deviation" the statement should be returned duly signed with endorsement **"NO DEVIATION"**

Signature

Name.....

(In Capital)

Address.....

.....

.....

Date.....

Signature of Tenderer

FORM-4**ALTERNATIVE PROPOSALS OF THE TENDERERS**

Paper No. the tender papers	Alternative Proposals	Technical advantage and/or financial implication of the Proposal.

Signature of Tenderer

FORM-5

SCHEDULE

As on IREPS website

FORM-10**SHEET-3****TENDERER'S SCHEME OF WORK AND TIME SCHEDULE****TENDER'S SCHEME OF WORK**

1. Submission of design and drawings by the contractor.
2. Approval of designs and drawings by the Railway.
3. Order of Material.
4. Receipt of Material.
5. Erection of equipments Phase – I.
6. Erection of equipments Phase – II.
7. Erection of equipments Phase – III.
8. Testing and commissioning.
9. Acceptance by Railways.
10. Handing over to Maintenance organization.

MONTHS	1.	2.	3.	4.	5.

Signature

Name.....

(In Capital)

Address.....

.....

.....

Date.....

FORM-12**STANDING INDEMNITY BOND FOR "ON ACCOUNT" PAYMENTS****(On paper of requisite stamp value)**

We, M/shereby undertakethat wehold atour stores Depot/s at for and on behalf of the President of India acting in the premises through the General Manager or his successor Railway (hereinafter referred to as "The Purchaser") all materials for which "On Account" payments have been made to us against the Contract for supply and erection of (.....) on the section/s Railway also referred to as Group/s vide letter of Acceptance of Tender dated and material handed over to us by the purchaser for the purpose of execution of the said contract, until such time the materials are duly erected or otherwise handed over to him.

We shall be entirely responsible for the safe custody and protection of the said materials against all risk till they are duly delivered as erected equipment to the purchaser or as he may direct otherwise and shall indemnify the purchaser against any loss / damage or deterioration whatsoever in respect of the said material while in our possession and against disposal of surplus materials. The said materials shall at all times be open to inspection by any officer authorized by the Purchaser / Engineer incharge of work or his successor.

Should any loss, clam age or electrification of materials occur or surplus material disposed off and refund becomes due, the Purchaser shall be entitled to recover from us the full cost as per prices included in Schedule 3 to the Contract (as applicable) and in respect of other material as indicated in Part I, Chapter – IV, section I and also compensation for such loss or damage if any long with the amount to be refunded without prejudice to any other remedies available to him by deduction from any sum due or any sum which at any time hereafter becomes due to us under the said or any other Contract.

Dated this day day of 20 for and on behalf of

M/s. (Contractor)

Signature of witness :

Name of witness in Block letter :

Address :

**END OF TENDER DOCUMENT
(LAST PAGE)**
