



**RAILTEL CORPORATION OF INDIA LIMITED
(A Govt. of India Undertaking, Ministry of Railways)**

1-10-39 to 44, 6A, 6th Floor, Begumpet Airport Road,
Opp. Shoppers Stop, BEGUMPET, HYDERABAD- 500 016, Telangana

TENDER DOCUMENT

OPEN TENDER NO: RailTel/SR/SC/OT/24-25/24 dated 28-10-2024

NAME OF THE LOCATION

“Design, Supply, Installation, Testing and Commissioning of Novec 1230 Gas Based fire Suppression end to end integrated solution System at RailTel Server room and Battery room located at Ground floor, Right Wing, DRM office, Bangalore Railway Station.”

Date of Opening: 18-11-2024

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CHAPTER I



RailTel Corporation of India Limited

A Government of India (Ministry of Railways) Undertaking

1-10-39 to 44, 6A, 6th Floor, Begumpet Airport Road, Opp. Shoppers Stop, BEGUMPET, HYDERABAD- 500 016. Telangana.

OPEN TENDER NOTICE

Tender No: **RailTel/SR/SC/OT/24-25/24**

RailTel Corporation of India Ltd., Secunderabad invites tender on ENIVIDA portal for “Design, Supply, Installation, Testing and Commissioning of Novec 1230 Gas Based fire Suppression end to end integrated solution System at RailTel Server room and Battery room located at Ground floor, Right Wing, DRM office, Bangalore Railway Station.” as per schedule of requirement (SOR) and specification enclosed to the tender document.

SI No	Description of work	Earnest Money (EMD) in Rs.
1	Design, Supply, Installation, Testing and Commissioning of Novec 1230 Gas Based fire Suppression end to end integrated solution System at RailTel Server room and Battery room located at Ground floor, Right Wing, DRM office, Bangalore Railway Station.	32,600/-

a)	Start Date for downloading the Tenders	28-10-2024
b)	Closing date for Submission of E-Bids	18-11-2024 at 15.00 hrs.
c)	Date of opening of E-Bids	18-11-2024 at 15.30 hrs.
d)	Estimated Cost of the Work	Rs 16,28,999/-
e)	Validity of offer	60 days from the date of opening of tender.
f)	Delivery Period	Within 90 days from the date of issue of LOA/PO
g)	Web address for availability of Tender document	Detailed tender notice and tender document are available at website https://railtel.enivida.com .

Earnest Money (EMD) as specified above to be paid through online at ENIVIDA portal only.

Note:

Eligible MSEs are exempted from EMD only. No other exemption will be given.

पात्र एमएसई को केवल निविदा दस्तावेजों और ईएमडी की लागत से छूट दी गई है। कोई अन्य छूट नहीं दी जाएगी। हालांकि

Tender Notice and Tender Document are available on RailTel's website and can be downloaded from www.railtelindia.com or from the e-Tendering portal <https://railtel.enivida.com>. For online bid submission the tenderer will have to necessarily download an official online copy of the tender document from portal <https://railtel.enivida.com>. All future Information viz. corrigendum / addendum/ amendments etc. for this Tender shall be posted on the e-Tendering Portal only. Printed copy of Tender document will not be sold from RailTel office.

निविदा सूचना और निविदा दस्तावेज रेलटेल की वेबसाइट पर उपलब्ध हैं और www.railtelindia.com से या ई-टेंडरिंग पोर्टल से <https://railtel.enivida.com> डाउनलोड किए जा सकते हैं। ऑनलाइन बोली जमा करने के लिए निविदाकर्ता को पोर्टल <https://railtel.enivida.com> से निविदा दस्तावेज की आधिकारिक ऑनलाइन प्रति अनिवार्य रूप से डाउनलोड करनी होगी। इस निविदा के लिए भविष्य की सभी सूचनाएं अर्थात् शुद्धिपत्र/परिशिष्ट/संशोधन आदि केवल ई-निविदा पोर्टल पर पोस्ट की जाएंगी। रेलटेल कार्यालय से निविदा दस्तावेज की मुद्रित प्रति लिपि नहीं बेची जाएगी।

The bidder shall bear all costs associated with the preparation, submission/participation in the bid. RailTel in no way will be responsible or liable for these costs regardless of the conduct or outcome.

बोलीदाता बोली में तैयारी, प्रस्तुत करने/भागीदारी से जुड़ी सभी लागतों को वहन करेगा। रेलटेल किसी भी तरह से आवरण या परिणाम की परवाह किए बिना इन लागतों के लिए जिम्मेदार या उत्तरदायी नहीं होगा

Sd/-
Kumar Kalyan
GM/TM/SBC
For RailTel Corporation of India Limited



Chapter I
Section Online

1. This tender is processed as E-Tender

2. Submission of Bids only through online process is mandatory for this Tender

E-Tendering is a new methodology for conducting Public Procurement in a transparent and secured manner. Now, the Government of India has made e-tendering mandatory. Suppliers/ Vendors will be the biggest beneficiaries of this new system of procurement. For conducting electronic tendering, RailTel has decided to use the portal <https://railtel.enivida.com>.

Benefits to Suppliers are outlined on the Homepage of the portal. Bidders are advised to visit the ENIVIDA Portal for details related to E-Tender i.e. Registration, FAQ, Helpdesk, Learning Center etc.

3. Tender Bidding Methodology:

Sealed Bid System - In this, bidder has to submit the Technical as well as financial bid / Price Bid in single envelope **“ONLINE”**.

ENIVIDA Helpdesk

Please visit Helpdesk section on ENIVIDA Portal.

RailTel's Contact Person & Designation

Mr. Mahesh Kumar Gupta,
AGM/TECH/SBC (Bangalore)
Mobile: +91 90080 32897 E-Mail Id: maheshgupta@railtelindia.com

The entire bid-submission would be online on ENIVIDA Portal.

4. Broad outline of submissions are as follows:

- I. Submission of Bid Security/ Earnest Money Deposit (EMD) through ENIVIDA portal
- II. Submission of signed and scanned / digitally signed copy of Tender Documents/Addenda on ENIVIDA Portal.
- III. Tenderer must upload both Technical and Financial bid as Single Packet on ENIVIDA

NOTE: 1) Bidder must ensure that the bid must be successfully submitted online as per Instructions of ENIVIDA Portal.

2) The Bidder has to upload the Scanned copy of all required documents as Bid-Annexures during Online Bid-Submission.

3) In case of internet related problem at a bidder's end, especially during 'critical events' such as - a short period before bid-submission deadline, during online public tender opening event, during e-auction, it is the bidder's responsibility to have backup internet connections.

In case there is a problem at the e-procurement/ e-auction service provider's end (in the server, leased line, etc) due to which all the bidders face a problem during critical events, and this is brought to the notice of RailTel by the bidders in time, then RailTel will promptly re-schedule the affected event(s). All the tenderers are advised to upload the bids well in advance before the tender closing time.

5. Instructions for Tender Document TO THE BIDDERS

The RailTel Tenders are published on ENIVIDA Portal <https://railtel.enivida.com> However tenderers should submit their bid through ENIVIDA Portal only.

NOTE: For online bid submission the bidder will have to download an official online copy of the tender documents from ENIVIDA portal, and this should be done well before the deadline for bid-submission.

6. Submission of Offers and Filling of Tender:

This e-tender should be duly submitted online using the e-Procurement Portal <https://railtel.enivida.com>. For detailed instructions please refer to ENIVIDA Portal.

7. Attendance of Representatives for Tender Opening: Representatives of bidders desirous to attend the tender opening can do so, on production of a proper letter of authority from the respective firm, failing which they may not be allowed to attend the tender opening. Authorized representatives of those firms who have submitted the tender documents alone shall be allowed to attend the tender opening.

8. Addenda / Corrigenda: Addenda / Corrigenda to the tender documents may be issued by RailTel prior to the date of opening of the tenders, to clarify or reflect modifications in the contract terms and conditions or in the design. Such addendum/corrigendum shall be available on ENIVIDA Portal only. Bidders who are unable or unwilling to bring their tenders to conform to the requirements of the RailTel are liable to be rejected. The information of Corrigendum/Addenda shall be published on RailTel website also. Prospective bidders are advised to check the website periodically for updates.

9. Ambiguity/ Pre- Bid Clarification Requests:

If there is any ambiguity or doubt as to the meaning of any of the tender clauses/ conditions or if any additional information required, the matter should immediately be referred to the RailTel in writing through emails to RailTel Contacts defined above. All clarification shall be responded through email.

10. Bid submission and Opening date

- I. The bid should be submitted online along with Credential/Techno commercial & Price bid document (all documents).
- II. Power of attorney in favor of the signatory duly authorizing with sign and stamp shall be scanned/ digitally signed and uploaded online through ENIVIDA portal.
- III. The bidder's bids will be opened at the time & date of opening of the tender online simultaneous in presence of such Bidders/ Representatives who choose to be present online. The Tenders/Representatives can also choose to be physically present in the office of RailTel for the Online Public Tender Opening Event.

11. Other Instructions

For further instructions, the vendor should visit the homepage of the portal (<https://railtel.enivida.com>), and go to the User-Guidance Center.

12. Additional Instructions: Please note

For E-Tendering bids /information by bidders is to be submitted "Online" on ENIVIDA's e-Procurement Portal. Any document / information pertaining to this chapter will have to be submitted by the bidder online. The digital signature of the tenderer on the e-tender form will be considered as confirmation that the tenderer has read, understood and accepted all the documents.

All columns should be filled and blank columns if any should be marked as NIL.

Please read the Schedule of Requirements, Instructions to the tenderers, General and Special Conditions including Technical Specifications before filling up the Tender Form carefully.



TENDERER DATA SHEET

For Design, Supply, Installation, Testing and Commissioning of Novec 1230 Gas Based fire Suppression end to end integrated solution System at RailTel Server room and Battery room located at Ground floor, Right Wing, DRM office, Bangalore Railway Station.

(Tender No: RAILTEL/SR/SC/OT/24-25/24)

SN	Clause Reference	Description	Remarks (Yes/No)
EMD Particulars			
1	EMD as per NIT/ Exemption certificate as per Cl. No 2.0	Whether EMD/ Exemption certificate submitted online in ENIVIDA portal?	
2	Offer letter as per Form-1	Offer letter uploaded?	
3	Tender Document	Tender document digitally signed along with corrigendum if any uploaded?	
4		Whether Power of attorney in non-judicial stamp paper worth of Rs.100/- enclosed with the Tender is in proper format and notarized?	
5		Whether Power of attorney is mentioning " the position of person giving power of attorney and the position of person in the company in favour of whom the Power of Attorney is being given? "	
6		cl.no.5.7 instructions to tenderers section II chapter II	
7		In case, clause no 7 regarding partnership firm, is not applicable, whether relevant document regarding Proprietary firm is enclosed?	
		Whether Constitution of Firm and article of association document enclosed with Offer?	
Clause wise compliance and deviation statement			
8		Whether clause wise compliance to the tender condition and statement of deviation Form- No. 2 uploaded?	
9	Manufacture Authorization Form	Whether Manufacture Authorization Form uploaded?	
10	Description of the product	Whether Make/Model and Data sheet of the offered product uploaded?	
11	Land Border sharing	Declaration of Land border sharing	
12	Technical Eligibility Criteria	As per Chapter-II, Section-II, Clause 1	
13	Financial Eligibility Criteria	As per Chapter-II, Section-II, Clause 2	

Note: All scan copies of documents listed above shall be submitted online. As per requirement of RailTel the bidder shall produce the Original Copies.

CHAPTER-II**Section I****SCHEDULE OF REQUIREMENT (SOR)**

Name of the Work/Stores: Design, Supply, Installation, Testing and Commissioning of Novec 1230 Gas Based fire Suppression end to end integrated solution System at RailTel Server room and Battery room located at Ground floor, Right Wing, DRM office, Bangalore Railway Station.

Tender No: RAILTEL/SR/SC/OT/24-25/24

SN	Description	UoM	Total Qty
1	Clean Agent Storage cylinder, high pressure seamless carbon steel cylinder, Test Pressure 250/300Bar, working pressure 200/150Bar and dia. 356/267mm, PESO/CCOE Approved, Capacity:		
a	120 Ltrs	Nos.	1
b	80 Ltrs	Nos.	2
2	Valve assembly and arrangement for supervisory switch connection for monitoring cylinder pressure, a pressure gauge with a safety burst disc and a safety cap.	Nos.	3
3	Pressure Gauge cum Switch for monitoring the cylinder pressure. 0-60 bar, 38 bar switch point.	Nos.	3
4	FK-5-1-12 Gas (1,1,1,2,2,4,5,5,5, -Nonfluoro-4-(trifluoromethyl)-3-pentanone), Zero ODP, Stored Pressure.	Kg	233
5	Manual pull station along with glass covered box kit for Mechanical manual activation along with corner pulleys for changing pipe direction and smoothly running of SS wire.	Set.	2
6	Accessories for Master Cylinder		
a	Electric Control Head (Solenoid actuator) used for releasing the GAS, electrically operated, Voltage range 24VDC, Ambient Temperature 55 °C, Protection class IP65. Mounted over the cylinder valve.	Nos.	2
b	Manual (Mechanically Operated) Control Head (Brass) to operate the system pulling the mechanical lever with help of S.S. wire & Manual Pull station mounted over the Solenoid actuator with connecting accessories sets.	Set.	2
c	Flexible discharge Hose route the Agent from the Master/Main storage cylinders to the discharge piping by a flexible rubber hose with wire braided reinforcements. This hose is connected to the discharge outlet of Cylinder valve and terminates at the system piping or discharged manifold for Master cylinder.	Nos.	3
7	Accessories for Slave Cylinder		
a	Brass pneumatic actuator allows for pneumatic actuation of slave's cylinder valves in case of master and slave, mounted directly on top of the slave cylinder valve.	Nos.	1
b	Actuation Hose , used in master and slave cylinder systems to actuate slave cylinders.	Nos.	1
c	Actuation Adaptor is used to connect the actuation hose to cylinder valve.	Nos.	2
8	Brass Discharge Nozzles are designed to provide the proper flow rate and distribution of agent to total flood a hazard area: 180 deg. / 360 deg. End connection - female thread type (NPT / BSPT).	Nos.	6
9	Manifold Check Valves are installed at the inlet of discharge manifold in case multiple cylinder arrangement to allow removal of agent cylinder from the manifold while still retaining a closed system.	Nos.	2
10	M S Container Strap for mounting and fixing the Agent containers to the wall.	Nos.	6
11	Conventional, Gas Release Panel with battery back-up and cross zoning facility. (2-Zone)	Nos.	2
12	Manual Abort Switch the Manual Abort Switch operates as electrical emergency hold device for gas extinguishing systems.	Nos.	2
13	Conventional Optical Smoke Detector with double dust trap chamber design, optimized performance using internal algorithm, central LED for 360° status visibility, along with conventional detector Mounting Base for each detector.	Nos.	5
14	Conventional Rate of Rise Heat Detector , heat alarm threshold temperature 58 °C, central LED for 360° status visibility, along with conventional detector Mounting Base for each detector.	Nos.	5

SN	Description	UoM	Total Qty
15	Conventional Wall Sounder Strobe equipped with 3 levels of volume adjustment, high output LED strobe and 32 recognized tones, maximum sound output 100 dB @ 1M distance, strobe light frequency .5Hz to 1 Hz.	Nos.	2
16	2C x 1.5 Sq.mm CU. Armoured control / FLRS Cable. Voltages grade 1100 volts.	Mtrs.	265
17	Manifold fabricated from seamless pipe (S): M.S. Seamless to ASTM A-106, SCH. 80. (2-way)	Nos.	1
18	C.S./M.S. Seamless Piping, fittings (forged screwed/socket weld up to 50NB) & M.S. supports e.g. angle, channel, plates clamps, etc. As per ASTM A-106, SCH. 40.	Lot	1
19	Warning Sign Board for use inside/outside room	Nos.	3
20	Clean agent based gaseous MINI fire suppression system 100 gm capacity 57°C Automatic Fire Extinguisher. PED Certificate / CE Marking to PED 2014/68/EU, Annex III (Module H) from EU Notified Body. Tested for Polymeric Class A fire test. Tested for "n-heptane first test" for Class B application.	Nos.	2

General Terms and Conditions:

1. All Equipment/Item should be quoted as per technical specifications.
2. Bidder shall submit the detailed BOM of the equipment's offered duly verified and certified by the respective OEM.
3. The BOM shall be as per tender condition and scope of work.
4. The material shall be supplied with all accessories, Power cords, fitting material, etc required to install and commissioning of equipment's.
5. Completion period: **90 days** from the date of release of Work Order/Purchase.
6. IT, GST as applicable to the works contracts will be deducted at source and hence the rates quoted for items shall have the provisions for the same.

Note:

- (i) If there is any discrepancy in the total amount and the Unit Rate, the value shown in the Unit Rate shall be considered final for the evaluation.
- (ii) The price is inclusive of ESI, EPF and inclusive of GST, Transportation, and Insurance.
- (iii) Evaluation of tender is based on total offered value inclusive of all taxes and duties.
- (iv) **The Tenderer should enclose Tender Specific MAF (MAF- Manufacture Authorization Form) along with the bid. Bid submitted without MAF shall not be considered.**
- (v) The detailed Bill of Material with rates to be enclosed. Tenderer to give the detailed break up of common units/parts/sub-modules etc. for building up the SOR items.
- (vi) Make/Model and Data sheet of the offered product to be uploaded.

रेलटेल
RAILTEL

Sign & Stamp of Tenderer

Section-II
Instructions to Tenderers & Conditions of Tendering

Information and Additional Terms & Conditions to Bidder for the Design, Supply, Installation, Testing and Commissioning of Novec 1230 Gas Based fire Suppression end to end integrated solution System at RailTel Server room and Battery room located at Ground floor, Right Wing, DRM office, Bangalore Railway Station.”

TENDERING INSTRUCTIONS:

The tender document duly signed and stamped/ digitally signed, complete in all respects shall be uploaded on ENIVIDA Portal. The Tenderer shall also enclose an undertaking in his offer indicating that he will accept all Terms and conditions of the tender document and have not offered any counter clauses. The bidder shall also upload the offer letter as per form -1

Tender Offer should be uploaded on ENIVIDA Portal on or before 15:00 hrs on 18-11-2024. The Tender will be on the same day at 15:30 hrs. If it happens to be a holiday, tender will be opened on the next working day.

1. Technical Eligibility Criteria

The tenderer must have successfully completed any of the following during last 03 years (i.e., current year and three previous financial years), as on opening of bid:

- Three similar supplies each costing not less than the amount equal to 30% (i.e., Rs. 4,88,700/-) of advertised value of the tender.
- or
- Two similar supplies each costing not less than the amount equal to 40% (i.e., Rs. 6,51,600/-) of advertised value of the tender.
- or
- One similar supply each costing not less than the amount equal to 60% (i.e., Rs. 9,77,399/-) of advertised value of the tender.

Offers not accompanied by copies of POs and supplies completion certificate (user certificate in the format of Form no.1) will not be considered.

Meaning of Similar Work: Supply and installation of Fire suppression systems.

2. Financial Eligibility Criteria

The bidder should have minimum cumulative turnover from operation in the previous three financial years and the current financial year, at least 150% (i.e., Rs. 24,43,499/-) of the advertised value of the tender. The tenderers shall submit Certificates to this effect which may be attested.

For Startups recognized by Department of Industrial Policy and Promotion DIPP: The bidder should have minimum cumulative turnover from operation in the previous three financial years and the current financial year, at least 50% (i.e., Rs. 8,14,500/-) of the advertised value of the tender. The tenderers shall submit Certificates to this effect which may be attested.

Certificate from the concerned department / client or Audited Balance Sheet, Trading account and P&L duly certified by the Chartered Accountant/Certificate from Chartered Accountant duly supported by Audited Balance Sheet. The contact details of CA/Statutory Auditor along with UDIN No. shall be mandatorily mentioned on copy of certified Balance Sheet/Certificate.

Note: Client certificate from other than Govt. Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India.

3. EARNEST MONEY:

Earnest Money Deposit (EMD)/ Bid Security: Rs. 32,600/- through payment online through RTGS / internet banking in Beneficiary name RailTel Corporation of India Limited Account No. 33946516594, IFSC Code SBIN0020299, Bank Name: State Bank of India, Branch address: Veer Chambers, Ranga Reddy District, Begumpet – 500016. The Bid received without EMD will be summarily rejected.

EMD/Bid security to be submitted by all tenderers, subject to the following exemptions:

- 4. Tender cases of value up to Rs. 5 Lakhs.

5. Micro and Small Enterprises (MSEs) registered under UDYAM Registration.
6. Startups recognized by Department of Promotion of Industry and Internal Trade (DPIIT).

Note 1: In case the tenderer falls in these categories, the bidder should furnish a certified copy of its valid registration details and Bid Security Declaration (as per Form 6).

Note 2: Firms registered with UDYAM certification for the tendered item / work or Startups as recognized by Department of Industrial Policy & Promotion (DIPP) is exempted from submission of EMD. Firms claiming for the above exemptions under UDYAM certification or Startup have to submit supporting documents.

UDYAM Certificate with category as Traders are not eligible for EMD exemption.

7. **Evaluation Criteria:**

The Total all Inclusive Rate on FOR destination given in Schedule of Requirement, will be criteria for deciding the inter-se-position and consideration of offers against the Schedule of Requirements given in the Schedule.

RATES DURING NEGOTIATION:

The tenderer/s shall not increase his/their quoted rates in case the RailTel Administration negotiates for reduction of rates. Such negotiations shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted will be binding on the tenderer.

8. **SECURITY DEPOSIT/PERFORMANCE GUARANTEE:**

The successful bidder is required to submit performance bank guarantee (PBG) as per following schedule:

The successful tenderer is required to submit a performance bank guarantee (PBG) within 30 days of the issue of LOA/purchase Order for a total value of **10%** of the value of issued LoA/PO, failing which a penal interest of 15% per annum shall be charged for the delay period i.e. Beyond 30 (thirty) days from the date of issue of loa/po. This PBG should be from a scheduled bank and should cover **warranty period plus three months (15 months)** for lodging the claim.

The BG will be released after completion period of warranty period.

Note: a separate advice of the BG will invariably be sent by the BG issuing bank to the RailTel's bank through SFMS (MT 760) and only after this the BG will become acceptable to railtel. It is therefore in own interest of bidder to obtain RailTel's bank IFSC code, its branch and address and advise these particulars to the BG issuing bank and request them to send advice of BG through SFMS to the RailTel's bank.

Important: SFMS confirmation of the BG should be on mt 760 format only.

RailTel SR bank details for PBG:

Name: RailTel Corporation of India Limited

Account no: 327301010373007,

IFSC code: UBIN0805050,

Bank name: Union bank of India,

Branch address: Union bank of India, RP road branch, bungalow no 109, new no 1-7-252 to 254 oxford street, SD road, near Parklane center Secunderabad – 500003

9. **GENERAL**

- i. All corrections and over-writing must be attested.
- ii. The Tenderer should read the conditions carefully and see the schedule of requirement and technical specifications before submitting the offer.

No counter conditions for the clauses laid down will be permitted. Such offers are liable for rejections without intimation. In all matters of dispute, the decision of the Regional General Manager, Southern Region, Secunderabad shall be final and binding.

- iii. Tenderer while quoting may specifically note the following: -
 - a) Price breakup has to be given as per SOR.
 - b) During the course of Supply, any statutory variation in taxes / duties shall be to RailTel account and shall be admissible on production of valid documentary evidence. Tenderer may submit the taxes / duties structure considered by him while quoting the rates.
- iv. Firm representative may visit the site and may acquaint themselves with the site conditions before quoting.

- v. Services like water and power supply, being required minimal, will be provided free of cost. You have to make your own arrangements, without claiming any extra cost to department, to draw the water and power supply from the scheduled available point near work site at RailTel Bangalore.
- vi. Pre-award discussions will be held with the lowest bidder for finalizing other terms and conditions of the contract.
- vii. The quoted value shall be inclusive of onsite warranty support, ESI, EPF, GST and any other mandatory duties and levies of the Government. Documentary evidence for this shall be provided along with the bills. No advance money will be given.
- a) Firm shall provide the compliance statement for each item specification indicating adherence to it. Firm shall indicate Make/Model offered and provide technical information and datasheet/brochure and/or any documentary proof for this.
- b) The firm shall also produce a letter from OEMs (Switching OEMs) on their letter head that they will be responsible for proper installation and satisfactory support during warranty period in case order is placed on the firm
- viii. Safety Requirement of Contract: Bidder shall agree to do works as per guidance of Safety Engineer Department of RaiTel. Tentative Guidelines are given below for reference.
- a) Submission of Lab Reports & Medical Fitness Certificate from at least MBBS Doctor for each Onsite Staff before providing access to premises.
- b) Submit all tools, ladders and accessories for inspection by safety Engineer, RaiTel immediately after bringing at site.
- c) Safety compliance:
1. All contract workers should always wear PPE's suitable for the hazard.
 2. Attend Safety Training Provided by RaiTel.
 3. Should restrict themselves to concerned area only.
 4. Follow work - specific do's and don'ts given by EIC.
- ix. Addenda / Corrigenda to the tender documents may be issued by RailTel prior to the date of opening of the tenders, to clarify or reflect modifications in the contract terms and conditions or in the design. Such addendum/corrigendum shall be available on RailTel web site www.railtelindia.com and ENIVIDA Portal www.eNivida.gov.in. only. Tenderers who are unable or unwilling to bring their tenders to conform to the requirements of the RailTel are liable to be rejected.
- x. Ambiguity: If there is any ambiguity or doubt as to the meaning of any of the tender clauses/ conditions or if any additional information required, the matter should immediately be referred to the RailTel in writing.
- xi. 6.11 The contractor shall furnish Indemnity Bond for a sum equal to the cost of materials proposed to be taken by him. The quantity of materials that shall be given by the RailTel at any time shall not exceed the value of Indemnity Bond that is furnished by the Contractor.
- xii. CONSTITUTION OF FIRM AND POWER OF ATTORNEY
- xiii. Any individual(s) signing the tender or other documents connected there with should specify whether he is signing:
1. As sole proprietor of the concern or as attorney of the sole proprietor;
 2. As a partner or partners of the firm;
 3. As a Director, Manager or Secretary in the case of Limited Company duly authorized by a resolution passed by the Board of Directors or in pursuance of the authority conferred by Memorandum of Association. In the case of a firm not registered under the Indian Partnership Act, all the partners or the attorney duly authorized by all of them should sign the tender and all other connected documents. The original Power of Attorney or other documents empowering the individual or individuals to sign should be furnished to the Purchaser for verification, if required.
- RailTel will not be bound by Power of Attorney granted by the tenderer or by the changes in the composition of the firm made subsequent to the execution of the contract agreement.
- In case where the Power of Attorney partnership deed has not been executed in English, the true and authenticated copies of the translation of the same by Advocate, authorized translators of Courts and Licensed Petition Writers should be supplied by the Contractor(s) while tendering for the work.
- Power of Attorney, Partnership Deed, Memorandum of Joint Venture as the case may be in original or duly signed.

10. Clause Wise Compliance:

Clause-wise compliance statement of the technical specifications and commercial terms & conditions shall be enclosed with the offer along with technical literature of the material and other documents in support of relevant clauses. The tender document issued by RailTel should be signed on each page along with stamp of the company/firm and should be submitted along with bid.

11. Delivery Period: The material should be supplied within **90 days** from the date of issue of Purchase Order/LOA.

12. Provenness of the material / equipment supplied:

In order to enable the Purchase to assess the Provenness of the materials offered, the bidder shall provide documentary evidence regarding the materials being offered by him.

13. Warranty period:

All system components furnished and installed under this contract shall be warranted against defects in design, materials and workmanship for the full warranty period which is standard with the manufacturer, but in no case less than one (1) year from the date of system acceptance.

The bidder shall warrant that stores to be supplied shall be new and free from all defects and faults in material, workmanship and manufacture and shall be of the highest grade and consistent with the established and generally accepted standards of material of the type ordered and shall perform in full conformity with the specifications and drawings. The contractor shall be responsible for any defects that may develop under the conditions provided in tender and under proper use, arising from faulty materials design or workmanship such as corrosion, inadequate quantity of material to meet requirements, inadequate protection, deficiencies in circuit design and / or otherwise and shall remedy such defects at his own cost when called upon to do so by the Purchaser who shall state in writing in what respect the stores are faulty.

If it becomes necessary for the contractor to replace or renew any defective portion/portions of the material under this clause, the provisions of the clause shall apply to the portion/portions of the material so replaced or renewed or until the end of the above mentioned period of twenty four months, whichever may be later, if any defect is not remedied within a reasonable time, the Purchaser may proceed accordingly at the contractor's risk and expenses, but without prejudice to any other rights which the Purchaser may have against the contractor in respect of such defects.

Replacement under warranty clause shall be made by the contractor free of all charges at site including freight, insurance and other incidental charges.

14. TERMS OF PAYMENT

i) 90% after Installation and functionally tested by qualified, trained personnel, in accordance with the manufacturer's recommended procedures and standards and balance 10% after successful Training and submission of documents (O & M manuals, ABD, Acceptance Test reports).

1. Invoice in original
2. Delivery Challan
3. Consignee Inspection Certificate.
4. Warranty Certificate of OEM
5. Copy of PBG
6. Insurance Certificate
7. Acceptance Certificate by Consignee

15. Paying Authority: Bill Passing Officer is GM/TM Respective Territory of Region & bill paying officer are associated Finance of region.

16. GST No: GST & PAN details to be mentioned on the bill for arranging payment.

17. Taxes & Duties

13.1 Unit Rate, Taxes & Duties

- i. The price quoted in the offer should be firm, fixed indicating the breakup and inclusive of all taxes & duties like import, custom, Anti-Dumping, CGST, SGST, IGST, UTGST etc. The offer should be inclusive of packing, forwarding, freight up to destination, insurance charges.
- ii. Bidder shall issue a valid tax invoice to RailTel for availing proper credit of CGST, SGST, IGST, UTGST in case of award of contract. GST will not be reimbursed in the absence of valid tax invoice.
- iii. For all the taxable supplies made by the vendor, the vendor shall furnish all the details of such taxable supplies in the relevant returns to be filed under GST Act.
- iv. If the vendor fails to comply with any of the above, the vendor shall pay to purchaser any expense, interest, penalty as applicable under the GST Act.
- v. In case of incorrect reporting of the supply made by the vendor in the relevant return, leading to disallowance of input credit to purchaser, the vendor shall be liable to pay applicable interest under the GST Act to the credit of purchaser. The same provisions shall be applicable in case of debit/credit notes.

- vi. Tenderer shall quote all-inclusive rates, but there shall be break up of basic price and all type of applicable taxes such as SGST,CGST, IGST, UT GST along with respective HSN/SAC code under GST Law (including tax under reverse charges payable by the recipient)
- vii. Wherever the law makes it Statutory for the purchaser to deduct any amount towards GST at sources, the same will be deducted and remitted to the concerned authority.
- viii. In regards to works contract, the tenderer should have registration no for GST in respective State where work is to be executed and shall furnish GST registration certificate along with Tender.
- ix. The imposition of any new tax and /or increase in the aforesaid taxes, duties levies after the last stipulated date for the receipt of tender including extensions if any and the bidder thereupon necessarily and properly pays such taxes/ levies / cess, the bidder shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of RailTel attributable to delay in execution of work within the control of bidder. The bidder shall, within a period of 30 days of the imposition of any such tax or levy or cess, give a written notice thereof to RailTel that the same is given pursuant to this condition, together with all necessary information including details of input credit relating thereto. In the event of non-payment/ default in payment of any of the above taxes, RailTel reserves the right to with-hold the dues / payments of bidder and make payment to State / Central Government authorities as may be applicable. However, if the rates are reduced after the last stipulated date of tender, bidder has to pass on the benefits to RailTel.
- x. In case of imported equipment: Anti-dumping duty if applicable on the equipment proposed to be supplied by OEM/Tenderer as per extant instructions of Ministry of Commerce/Finance Government of India has to be borne by the tenderer and shall be deducted from the amount payable to the bidder at the time of making payment to the firm, if this duty amount is paid to Custom Authority by RailTel.
- xi. Evaluation Criteria: inter se position of the offers will be determined on total unit rate on CIP destination basis which will include basic rate, custom duty GSST, SGST, IGST, GST, freight, insurance and any other charge or cost quoted by the tenderer, including GST payable.
- xii. On reverse charge by RailTel, wherever applicable.
- xiii. XII. However, if the extension of contract period is on account of failure of contractor, no compensation shall be made towards upward revision or imposition of any new taxes.
- xiv. Any benefit on account of downward revision of duty either in original contract period or during the extended contract period shall be passed on by the contractor to RailTel

Note: “In case the successful tenderer is not liable to be registered under CGST/IGST/UTGST/SGST Act, the RailTel shall deduct the applicable GST from his/their bills under reverse charge mechanism (RCM) and deposit the same to the concerned tax authority.”

- 18. **Others:** The details / proof of payment of GST on materials supplied to RailTel if paid shall be furnished along with the invoice. If not paid, a declaration may be furnished.
- 19. **Transportation:** The rates quoted should be F.O.R. destination.
- 20. **Statutory Deduction:** These will be made at source as per the rules prevalent in the area of work.
- 21. **Liquidated Damages**
Timely delivery is the essence of this project. Liquidated damages will be applicable at the rate of (0.5%) half percent per week or part thereof for undelivered portion subject to a maximum of 10% of the cost of supply. RailTel will have the right to cancel the order, place order on alternative source at risk & cost of the supplier besides levying the LD.
- 22. **Purchaser’s Right to Vary Quantities**
The Purchaser reserves the right to increase or decrease by up to 25% (i.e., 75% to 125% quantity) of the quantity of goods and services specified in the Schedule of Requirements without any change in unit price of the ordered quantity or other terms and conditions during currency of the contract. 12 / 18 The prices for variation quantity above 125% of the original quantity shall be as follows: Variation of quantity from 125% to 140% will be 2% rebate on unit price and above 140% to 150% shall be with 4% rebate on unit price.
- 23. **Purchaser’s Right to accept any Bid and to reject any or all Bids**
The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds for the Purchaser’s action.
- 24. **Annulment of Award – Deleted**
- 25. **UNIT PRICES: covered at para 13 above**
- 26. **Offer letter and Validity of Offer**
The bidder shall complete the offer letter and the price schedule furnished in the bid documents, indicating the goods to be supplied, description of the goods, associated technical literature, quantity and prices etc. For the items not manufactured by bidders, the authorization from original manufacturer should be enclosed.

The offer should remain valid for a period of 20 days from the date of opening.

27. Inspection:

By Consignee

28. Consignee Details:

Consignee: The Consignee Locations is at Ground floor, Right Wing, DRM office, Bangalore Railway Station.

29. FORCE MAJEURE CLAUSE:

If at any time during continuance of this Contract, the performance, in whole or part, by either party, of any obligation under this contract shall be prevented or delayed by reason of any war, hostility, act of the public enemy, Civil Commotion, Sabotage, Fires, Floods, Earth quakes, explosions, strikes, epidemics, quarantine, restrictions lockouts, any statute, statutory rules, regulations, order of requisitions issued by any Government Department or Competent Authority or acts of God (here-in-after referred to as event) then provided notice of the happening of any such, event is given by either party to the other within twenty one 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 damage against the other in respect of such non-performance or delay in performance, and the obligations under the Contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist, PROVIDED FURTHER that if the performance in whole or part of any obligation under this contract is prevented or delayed by reason of any such event beyond a period as mutually agreed to by the RailTel and the Contractor after any event or 60 days in the absence of such an agreement whichever is more, either party may, at its option, terminate the Contract provided also that if the contract is so terminated under this clause the RailTel may, at the time of such termination, take over from the Contractor at prices as provided for in the contract, all works executed or works under execution.

30. ARBITRATION:

Any dispute or difference whatsoever arising between the parties out of or relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by a sole arbitrator in accordance with provisions contained in Arbitration and Conciliation Act, 1996.

- i. The sole arbitrator shall be appointed by the Managing Director of RailTel Corporation of India Limited. It is expressly understood between the parties that no objection shall be raised at any time after execution hereof to the appointment of the arbitrator by the Managing Director of RailTel Corporation of India Limited including that the person appointing the arbitrator is connected to and /or employed with the RailTel Corporation of India Limited.
- ii. The Venue of the arbitration shall be Secunderabad (India). The arbitration proceedings shall be conducted in English and cost of the arbitration shall be borne between the parties in equal proportion.
- iii. The Arbitrator shall give a reasoned award, which shall be binding on the parties.

31. TERMINATION OF CONTRACT:

RailTel reserves the right to interrupt and terminate the contract at any time, should in RailTel's opinion, the cessation of work become necessary, owing to paucity of funds of the Contractor, the Contractor's apparent inability to perform, non-possession of equipment and tools required for the work or defective and mal-functioning equipment, inability to provide men and material or for any other cause deemed reasonable. In such case, the value of approved materials utilized at site and of certified and accepted work done to date by the Contractor shall be paid for in full at the rates specified in the Contract subject to the clause of Liquidated damages contemplated herein. All such materials become the property of RailTel. Notice in writing from the RailTel of such termination and reason thereof shall be conclusive evidence of taking over of works from the contractor. The security deposit will be forfeited in such case of termination.

32. GOVERNING Laws:

This contract shall be interpreted in accordance with the laws of India. The courts at New Delhi shall have exclusive jurisdiction to entertain and try all matters arising out of this contract.

33. TERMINATION FOR INSOLVENCY:

The purchaser may at any time terminate the order/contract by giving written notice to the supplier, without compensation to the supplier, if the supplier becomes bankrupt or otherwise insolvent as declared by the competent court provided that such termination will not prejudice or affect to the Purchaser.

34. FALL BACK CLAUSE:

The order / contract, if and when placed, will be subject to following fallback clause:

- a. The price quoted by the supplier should not be higher than the maximum price, if any, for the materials and the same shall not be higher than the price usually charged by the supplier for materials of the same nature, class or description to any other purchaser.
- b. The price charged for the materials supplied under the order/contract by the supplier shall in no event exceed the lowest price at which the supplier sells the materials of identical description to any other person during the period till

performance of all supply orders placed during the currency of the contract is completed. If at any time during the period the supplier reduced the sale price of such materials or sells such materials to any other person including his dealers at a price lower than the price chargeable under the contract, he shall forthwith notify such reduction or sale to the purchase and the price payable under the contract for these materials supplied after the date of coming into forced of such reduction or sale shall stand correspondingly reduced.

- c. If it is discovered that the supplier has contravened the above conditions, then without prejudice to any other action which might be taken against him, it shall be lawful for the purchaser to terminate the order/contract and purchase the materials at the risk and cost of the supplier and in that event the provision of general conditions of tender shall, as far as possible, be applicable or recover the loss.
- d. The contractor shall furnish the following certificate to the concerned account officer along with each bill for payment of suppliers made against the order/contract.

“I/We certify that there has been no reduction in sale price of the stores of description identical to the stores supplied to the Government under the contract herein and such stores have not been offered/sold by me/us to any person/organization including the purchaser or any Department of Central Government or any Railway Office or any Railway Undertaking as the case may be up to the date of bill/the date of completion of supplies against all supply orders placed during the currency of the order/contract at a price lower than the price charged to the RailTel, Southern Region, under the contract.”

35. GST: covered in para 13 above.

36. Make in India clause:

Public Procurement (Preference to Make in India) is Applicable as per extant policy of GoI of India. The Bidder should attach relevant supporting document for seeking preference under MII Clause.

37. Bill Tracking System (BTS) Clause:

Vendors are advised to submit their bills through bill tracking system (<https://bts.rcil.gov.in/Home>) of RailTel for their payment.

38. Trade Receivables Discount System (TReDS):

- i. RailTel is registered with m1xchange TReDS Platform having Buyer registration “**BUYER00001496**”. The URL for m1xchange platform is <http://www.m1xchange.com>. MSE suppliers/vendors are required to register themselves on m1change platform for availing the facility of bill discounting on TReDs portal. The bidder is mandatorily required to submit its TReDS registration number (as provided by M1xchange portal) and GRN (Goods/Service Receipt Note) Number (as provided by RailTel on delivery of Goods/Service) while submitting the invoices if requires availing TReDS facility.
- ii. MSE vendor will bear all costs relating to availing the facility of discounting on TreDS platform including but not limited to registration chargers, Transaction chargers for financing, discounting charges, interest on financing, or any other chargers known by any name shall be borne by MSE vendor.
- iii. MSE vendor hereby agree to indemnify, hold harmless and keep RailTel and its affiliates, Directors, officers, representatives, agents and employees indemnified, from any and all damages, losses, claims and liabilities (including legal costs) which may arise from sellers submission, posting or display, participation, in any manner, on the TReDS platform or from the use of services or from the buyer’s breach of any of the terms and conditions of the usage Terms or of this Agreement and any applicable Law on a full indemnity basis.
- iv. RailTel shall not be liable for any special, indirect, punitive, incidental, or consequential damages whatsoever (including but not limited to damages for loss of profits or savings, business interruption, loss of information), whether in contract, tort, equity or otherwise or any other damages resulting from using TReDS platform for discounting their (MSE vendor’s) invoices.

39. Bidders sharing a land border with India: Office Memorandum F.No. 6/18/2019-PPD dated 23.07.2020 by Ministry of Finance, Department of Expenditure, Public Procurement Division shall also apply to this tender. A certificate as per Form 5, Chapter IV shall be submitted by all the bidders regarding their compliance with this order. If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law. Registration should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order.

40. Splitting - Not Splittable.

Chapter-III

Technical Specifications

Name of the work: Design, Supply, Installation, Testing and Commissioning of Novec 1230 Gas Based fire Suppression end to end integrated solution System at RailTel Server room and Battery room located at Ground floor, Right Wing, DRM office, Bangalore Railway Station.

I - GENERAL REQUIREMENT OF THE WORK

Name of the work: "Design, Supply, Installation, Testing and Commissioning of Novec 1230 Gas Based fire Suppression end to end integrated solution System at RailTel Server room and Battery room located at Ground floor, Right Wing, DRM office, Bangalore Railway Station.

SCOPE

This specification outlines the requirements for a "Total Flooding" Clean Agent Fire Suppression System, 25/42bar cylinder pressure, with automatic detection and control. The work described in this specification includes all engineering, labour, materials, equipment and services necessary, and required, to complete and test the suppression system.

APPLICABLE STANDARDS AND PUBLICATIONS

- A. The design, equipment, installation, testing and maintenance of the Clean Agent Suppression System shall be in accordance with the applicable requirements set forth in the latest edition of the following codes and standards:
- 1) ISO 14520-1 - Gaseous fire-extinguishing systems — Physical properties and system design — General requirements
 - 2) BS EN 15004-1 – Fixed firefighting Systems – Gas Extinguishing Systems – Design Installation and Maintenance
 - 3) BS EN 15004-2 – Fixed firefighting Systems – FK-5-1-12 Extinguishing Systems – Design Installation and Maintenance
 - 4) LPS 1230 issue 1.2 - Requirements for Fire Testing of Fixed Gaseous Fire Extinguishing systems
 - 5) NFPA No. 2001 - Clean Agent Fire Extinguishing Systems
 - 6) NFPA No. 70 - National Electrical Code
 - 7) NFPA No. 72 - Standard for Protective Signaling
- B. The standards listed, as well as all other applicable codes, standards, and good engineering practices shall be used as "minimum" design standards.
- C. Adherence to the design and installation instruction of this specification, ensure functioning 25/42 bar FK-5-1-12 Fixed Gaseous Fire Extinguishing system to performance verified as per LPS 1230 issue 1.2.

REQUIREMENT

The Suppression System installation shall be made in accordance with the drawings, specifications and applicable standards. Should a conflict occur between the drawings and specifications, the specifications shall prevail.

EXCLUSIONS

The work listed below shall be provided by others, or under other sections of this specification:

- A. 120 VAC or 220 VAC power supply to the system control panel.
- B. Interlock wiring and conduit for shutdown of HVAC, dampers and/or electric power supplies, relays or shunt trip breakers.
- C. Connection to local/remote fire alarm systems, listed central alarm station(s) or sprinkler pre-action/deluge valve actuation

QUALITY ASSURANCE

A. MANUFACTURER

1. The name of the manufacturer shall appear on all major components.
2. All devices, components and equipment shall be new, standard products of the manufacturer's latest design and suitable to perform the functions intended.
3. Locks for all cabinets shall be keyed alike.

B. INSTALLER

1. The installing contractor shall be OEM and has to design, install, test and maintain fire suppression systems.
2. The installing contractor shall maintain, or have access to, a Clean Agent recharging station with PESO license for refilling and storage of Gas.
3. The installing contractor shall be an authorized dealer/distributor of the Clean Agent Gas from the OEM of the Gas.
4. The installing contractor shall be trained by the supplier to design, install, test and maintain fire suppression systems.
5. The installing contractor shall be an experienced firm regularly engaged in the installation of automatic Clean Agent, or similar, fire suppression systems in strict accordance with all applicable codes and standards.
6. The installing contractor must have an experience in the design, installation and testing of Clean Agent, or similar, fire suppression systems. A list of systems of a similar nature and scope shall be provided on request.
7. The installing contractor shall maintain, or have access to, a Clean Agent recharging station. The installing contractor shall provide proof of his ability to recharge the largest Clean Agent system.
8. The installing contractor shall be an authorized stocking distributor of the Clean Agent system equipment so that immediate replacement parts are available from inventory.
9. The Installing contractor shall have nationwide service network and should ensure the availability for spares for maintenance. The installing contractor shall show proof of emergency service available on a twenty-four-hour-a-day, seven-day-a-week basis.
10. The integrator should have the following certification for satisfactory work.
 - A) Certificate of quality management system EN ISO:2008
 - B) Certificate for capability to control quality of goods and services
 - C) OHSAS 18001:2007.
 - D) Certificate to handle customer complaints ISO 10002:2004.
 - E) Certificate from UL or FM or Vds or LPCB or BRE global or any recognized lab by Government of India.

C. SUBMITTALS

1. The installing contractor shall submit the following design information and drawings for approval prior to starting work on this project:
 - a) Field installation layout drawings detailing the location of all agent storage cylinder, nozzles, pipe runs including pipe sizes and lengths, control panel(s), detectors, manual pull stations, abort stations, audible and visual alarms, etc.
 - b) Auxiliary details and information such as maintenance panels, door holders, special sealing requirements and equipment shutdown.
 - c) Separate layouts, or drawings, shall be provided for each level, (i.e.; room, under floor, and above ceiling) and for mechanical and electrical work.
 - d) A separate layout or drawing shall show isometric details of agent storage containers, mounting details, proposed pipe runs and sizes, and symbol legend.
 - e) Electrical layout drawings shall show the location of all devices and include point-to-point conduit runs and a description of the method(s) used for detector mounting.
 - f) Complete flow calculations, from an AgentCal software program, shall be provided for all engineered Clean Agent systems. The individual sections of pipe and each fitting to be used, as shown on the isometrics, must be identified and included in the calculation. Total agent discharge time must be shown and detailed by zone.
 - g) A complete sequence of operation shall be submitted detailing all alarm devices, shutdown functions, time delay and agent discharge for each zone or system.
2. Submit drawings, calculations and system component data sheets for approval to RailTel before starting installation. Submit approved plans to the RailTel for record.

II - SYSTEM REQUIREMENTS**SYSTEM DESCRIPTION AND OPERATION**

- A. The system shall provide an FK-5-1-12 minimum design concentration of 4.5 to 5.9% by volume for Class A & C hazards in all areas and/or protected spaces, at the minimum anticipated temperature within the protected area.
- B. System design shall not exceed 10% for normally occupied spaces, adjusted for maximum space temperature anticipated, with provisions for room evacuation before agent release.
- C. The system shall be complete in all ways. It shall include all mechanical and electrical installation, all detection and control equipment, agent storage containers filled FK-5-1-12 extinguishing agent and cylinder valve fitted with

mechanical release, discharge nozzles, pipe and fittings, manual release and abort stations, audible and visual alarm devices, auxiliary devices and controls, shutdowns, alarm interface, caution/advisory signs, functional checkout and testing, training and all other operations necessary for a functional, LPCB approved/listed 25/42 bar FK-5-1-12 Clean Agent Suppression System.

- D. The system(s) shall be actuated by cross zoning of two detectors installed, in the room, under floor and above ceiling protected spaces.
- E. Detectors shall be Cross-Zoned detection requiring two detectors to be in alarm before release.
- F. Automatic operation of each protected area shall be as follows:
 - 1) Actuation of one (1) detector, within the system, shall:
 - a) Illuminate the "ALARM" lamp on the control panel face.
 - b) Energize an alarm bell and/or an optional visual
 - 2) Actuation of a 2nd detector, within the system, shall:
 - a) Illuminate the "PRE-DISCHARGE" lamp on the control panel face.
 - b) Energize a pre-discharge horn or horn/strobe device.
 - c) Start time-delay sequence (not to exceed 60 seconds).
 - d) System abort sequence is enabled at this time.
 - e) Light an individual lamp on an optional annunciator.
 - 3) After completion of the time-delay sequence, the FK-5-1-12 Clean Agent system shall discharge and the following shall occur:
 - a) Illuminate a "SYSTEM FIRED" lamp on the control panel face.
 - b) Energize a visual indicator(s) outside the hazard in which the discharge occurred.
 - c) Energize a "System Fired" audible device. (Optional)
 - 4) The system shall be capable of being actuated by manual discharge devices located at hazard exit. Operation of a manual device shall duplicate the sequence description above except that the time delays and abort functions shall be bypassed. The manual discharge station shall be of the electrical actuation type.

MATERIAL AND EQUIPMENT

A. General Requirement

The FK-5-1-12 Clean Agent System materials and equipment shall be standard products of the supplier's latest design and suitable to perform the functions intended.

B. FK-5-1-12 CLEAN AGENT STORAGE AND DISTRIBUTION

Each system shall have its own supply of clean agent.

- 1) The system design can be modular storage.
- 2) Systems shall be designed in accordance with the manufacturer's guidelines.
- 3) Each supply shall be located within the hazard area, or as near as possible, to reduce the amount of pipe and fittings required installing the system.
- 4) The clean agent shall be stored in Containers. Containers shall be super-pressurized with dry nitrogen to an operating pressure of 25/42 bar at 20° C).
- 5) Cylinders shall be PESO approved and made by hot spinning process, Seamless, Carbon steel material, confirming to ISO 9809-1, 2010. Each cylinder is equipped with an identification nameplate indicating the quantity of FK-5-1-12 agent. The standard cylinder assembly, having a rigid dip tube, is designed for mounting in a vertical position only. The cylinder assembly is composed of a cylinder, dip tube, and cylinder valve.
- 6) The cylinder valve assembly is equipped with safety burst disc, pressure gauge with contact switch for monitoring of cylinder pressure. Working pressure of cylinder valve shall be up to 50bar at 15°C (max. 110bar, electrical actuator can be assembled and dismantled under pressure, manual, pneumatic, pneumatic-manual and electrical activation.
- 7) Brass manual actuator shall be equipped with an operating lever secured in the closed position by a safety pull pin. By removing the safety pin, the lever can be manually rotated to the open position, thereby activating the cylinder or valve on which it is installed.
- 8) FK-5-1-12 agent shall be routed from the cylinders to the discharge piping by a flexible discharge hose. The hose is connected to the discharge outlet of the cylinder valve and terminates at the system piping or check valve of the discharge manifold.

- 9) The pressure gauge/switch shall be intended to detect a fall in pressure in the agent cylinder. The switch shall be wired for either normally-open or normally-closed operation, depending on installation requirements. If the pressure inside the cylinder falls below 21 bar (305psig), the switch contacts will transfer and invoke a "fault" signal at the control panel. Pressure measuring device for use in gas extinguishing systems per EN 12094-10 (VdS/CE). Design per EN 837-1 and EN 12094-10 and ingress protection IP65.
- 10) Containers shall be actuated by a self-resettable type magnetic solenoid actuator with mechanical override located at agent container. Non-resettable or explosive devices shall not be permitted.
- 11) Each container shall have a pressure gauge to provide visual supervision of the container pressure. The pressure gauge shall be color coded to provide an easy, visual indication of container pressure.
- 12) Discharge nozzles shall be provided within the manufacturer's guidelines to distribute the FK-5-1-12 agent throughout the protected spaces. The nozzles shall be designed to provide proper agent quantity and distribution.
 - Nozzles shall be available in 15 mm through 50 mm pipe sizes. Each size shall be available in 180° and 360° distribution patterns.
 - Nozzle distribution verification test shall be done as per LPS 1230 and listed in Red book live.
- 13) Distribution piping, and fittings, shall be installed in accordance with the manufacturer's requirements, LPCB/NFPA 2001 and approved piping standards and guidelines. All distribution piping shall be installed by qualified individuals using accepted practices and quality procedures. All piping shall be adequately supported and anchored at all directional changes and nozzle locations.
- 14) All piping shall be reamed, blown clear to remove burrs, mill varnish and cutting oils before assembly.

C. Control Panel

- 1) The control panel shall be a Gas releasing panel.
- 2) The control system and its components shall be used as a local fire alarm system with releasing device service.
- 3) The control system shall perform all functions necessary to operate the system detection, actuation and auxiliary functions.
- 4) The control system shall include battery standby power to support 24 hours in standby and 5 minutes in alarm.
- 5) The control system shall be capable of supporting Cross Zoned Detection.
- 6) Each circuit shall be capable of monitoring contact devices configured for manual release, manual alarm, and system abort, trouble input or auxiliary (non-fire) input.

D. Detectors

- 1) The detectors shall be spaced and installed in accordance with the manufacturer's specifications and the guidelines of NFPA 72/EN 54.
- 2) The Photoelectric detector shall be equal in quality, performance and features.

E. Manual Release (Electric)

- 1) The electric manual release switch shall be a dual action device which provides a means of manually discharging the Suppression System when used in conjunction with the control system.
- 2) The Manual Release switch or Manual Pull station shall be a dual action device requiring two distinct operations to initiate a system actuation.
- 3) Manual actuation shall bypass the time delay and abort functions shall cause the system to discharge and shall cause all release and shutdown devices to operate in the same manner as if the system had operated automatically.
- 4) A Manual Release switch shall be located at each exit from the protected hazard.

F. Abort Station

- 1) The optional Abort Station shall be located next to each manual switch.
- 2) The Abort Station shall be supervised and shall indicate a trouble condition at the control panel, if depressed, and no alarm condition exists.
- 3) "Locking" or "Keyed" abort stations shall not be permitted

G. Audible Alarms

- 1) Alarm audible signal devices shall operate from the control panel.

- 2) Alarm audible signal devices Strobe device shall be placed outside, and above, each exit door from the protected space. Provide an advisory sign at each light location

III - TESTING AND DOCUMENTATION

SYSTEM INSPECTION AND CHECKOUT

After the system installation has been completed, the entire system shall be checked out, inspected and functionally tested by qualified, trained personnel, in accordance with the manufacturer's recommended procedures and standards.

- A. All containers and distribution piping shall be checked for proper mounting and installation.
- B. All electrical wiring shall be tested for proper connection, continuity and resistance to earth.
- C. The complete system shall be functionally tested, in the presence of the RailTel or his representative, and all functions, including system and equipment interlocks, must be operational at least five (5) days prior to the final acceptance tests
 1. Each detector shall be tested in accordance with the manufacturer's recommended procedures, and test values recorded.
 2. Each control panel circuit shall be tested for trouble by inducing a trouble condition into the system.

TRAINING REQUIREMENTS

Prior to final acceptance, the installing contractor shall provide operational training to each shift of the RailTel personnel. Each training session shall include control panel operation, manual and abort functions, trouble procedures, supervisory procedures, auxiliary functions and emergency procedures.

OPERATION AND MAINTENANCE

Prior to final acceptance, the installing contractor shall provide complete operation and maintenance instruction manuals, two (2) copies for each system, to the RailTel. All aspects of system operation and maintenance shall be detailed, including piping isometrics, wiring diagrams of all circuits, a written description of the system design, sequence of operation and drawing(s) illustrating control logic and equipment used in the system. Checklists and procedures for emergency situations, troubleshooting techniques, maintenance operations and procedures shall be included in the manual

AS-BUILT DRAWINGS

Upon completion of system, the installing contractor shall provide two (2) copies of system "As-Built" drawings to the RailTel. The drawing shall show actual installation details including all equipment locations (i.e.: control panel(s), agent container(s), detectors, alarms, manuals and aborts, etc.) as well as piping and conduit routing details. Show all room or facilities modifications, including door and/or damper installations completed. One (1) copy of reproducible engineering drawings shall be provided reflecting all actual installation details.

ACCEPTANCE TESTS

At the time "As-Built" drawings and maintenance/operations manuals are submitted, the installing contractor shall submit a "Test Plan" describing procedures to be used to test the control system(s). The Test Plan shall include a step-by-step description of all tests to be performed and shall indicate the type and location of test apparatus to be employed. The tests shall demonstrate that the operational and installation requirements of this specification have been met. All tests shall be conducted in the presence of the RailTel and shall not be conducted until the Test Plan has been approved.

SYSTEM INSPECTIONS

- A. The installing contractor shall provide two (2) inspections of each system, installed under this contract, during the one-year warranty period. The first inspection shall be at the six-month interval, and the second inspection at the 12-month interval, after system acceptance. Inspections shall be conducted in accordance with the manufacturer's guidelines and the recommendations of NFPA 2001.
- B. Documents certifying satisfactory system(s) operation shall be submitted to the RailTel upon completion of each inspection.

WARRANTY

All system components furnished and installed under this contract shall be warranted against defects in design, materials and workmanship for the full warranty period which is standard with the manufacturer, but in no case less than one (1) year from the date of system acceptance.

Chapter-IV**Form-1**

OFFER LETTER

To,
 Executive Director,
 Railtel Corporation of India Ltd.,
 1-10-39 to 44, 6A, 6th Floor,
 Begumpet Airport Road, Opp. Shoppers Stop,
 BEGUMPET, HYDERABAD- 500 016, Telangana

Tender no: RAILTEL/SR/SC/OT/24-25/24

I/We _____ have read the various conditions detailed in tender documents attached here to and hereby agree to ABIDE BY THE SAID CONDITIONS. I/We also agree to keep this tender open for acceptance for a period of **60 days** from the date fixed for opening the same and in default thereof, I/We will be liable for forfeiture of my/our Earnest Money. I/We offer to supply of material and provide support as per Schedule of requirement given in the Tender Document in Chapter II at the rates quoted in the attached schedule and hereby bind myself/ourselves to complete the work within **90 days** from the date of issue of Purchase Order. I/We also hereby agree to abide by the Various Conditions of Contract and to carry out the supplies according to the Specifications for materials and works laid down by the RailTel for the present contract.

2. A sum of Rs. _____ as an Account Payee ENVIDA Ref No. _____ dt. _____ issued by _____ in favor of RailTel Corporation India Ltd. Secunderabad is herewith forwarded as "Earnest Money". The full value of Earnest Money shall stand forfeited without prejudice to any other rights or remedies if, I/We withdraw or modify the offer within validity period to that effect.

SIGNATURE OF SUPPLIER (S) with Seal

Date:

SIGNATURE OF WITNESS CONTRACTOR (S) ADDRESS

- 1.
- 2.

रेलटेल
 RAILTEL

PROFORMA FOR STATEMENT OF DEVIATIONS

(1) The following are the particulars of deviations from the requirements of the tender specification.

Clause	Deviation	Remarks
		(including justification)

(2) The following are the particulars of deviations from the requirements of the instructions to Tenderers, General and Special Conditions of contract-

Clause	Deviation	Remarks
		(including justification)

Signature and seal of the
Manufacturer/Tenderer.

Note: Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations".

रेलटेल
RAILTEL

PERFORMANCE BANK GURANTEE BOND

(On Stamp Paper of Rs. One Hundred)

(To be used by approved Scheduled Banks)

In consideration of the RailTel Corporation of India Limited: **1-10-39 to 44, 6A, 6th Floor, Gumidelli Towers, Begumpet Airport Road, Opp. Shoppers Stop, Begumpet, Hyderabad-500016 (Herein after called RailTel)**

1. (Herein after called RailTel) having agreed to exempt
 (Hereinafter called "the said Contractor(s)") from the demand, under the terms and conditions of an Agreement No.
 dated made between and
 for (hereinafter called " the said Agreement") of security deposit for the due fulfillment by the said Contractor (s) of the terms and conditions contained in the said Agreement, or production of a Bank Guarantee for Rs. (Rs. only). We, (indicate the name of the Bank) hereinafter referred to as " the Bank") at the request of Contractor(s) do hereby undertake to pay the RailTel an amount not exceeding Rs. Against any loss or damage caused to or suffered or would be caused to or suffered by the RailTel by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

2. We, Bank **and our local branch at (indicate detail address of local Branch with code no.)** do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on demand from the RailTel stating that the amount is claimed is due by way of loss or damage caused to or would be caused to or suffered by the RailTel by reason of breach by the said Contractor(s) of any of terms or conditions contained in the said Agreement or by reason of the Contractor(s) 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.

3. We, bank undertake to pay to the RailTel any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s) / Supplier(s) in any suit or proceedings pending before any court or Tribunal relating thereto our liability under this present being, absolute and unequivocal.
 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) / Supplier(s) shall have no claim against us for making such payment.
 We, Bank 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 RailTel under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till RailTel certifies 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. Unless a demand or claim under the Guarantee is made on us in writing on or before the (1) We shall be discharged from all liability under this Guarantee thereafter.
 We, We, (indicate the name of Bank) Further agree with the RailTel that the RailTel shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the Agreement or to extend time of to postpone for any time or from time to time any of the powers exercisable by the RailTel against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension to the said Contractor(s) or for any forbearance, act or omission on the part of RailTel or any indulgence by the RailTel to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have affect of so relieving us.
 This Guarantee will not be discharged due to the change in the Constitution of the Bank or the Contractor(s) Supplier(s).
We, the Bank further agree that this guarantee shall be invocable at our place of business at / (indicate detailed address of local with code no.). The branch at is being advised accordingly.
 (indicate the name of Bank) lastly undertaken not to revoke this Guarantee during its currency except with the previous consent of the RailTel in writing.

Dated the day of 2022
 for
 (Indicate the name of the Bank)

- Witness
1. Signature
 Name
 2. Signature
 Name

Manufacturer Authorization form (MAF)**To**

Executive Director,
 Railtel Corporation of India Ltd.,
 1-10-39 to 44, 6A, 6th Floor,
 Begumpet Airport Road, Opp. Shoppers Stop,
 BEGUMPET, HYDERABAD- 500 016, Telangana

Dated:**Subject: Manufacturer Authorization form (MAF) to M/s for****Ref: GeM Bid No.**

Dear Sir,

We, M/s....., are established and reputed manufacturer and service provider of(Product details),
 having our registered office at

We hereby authorize M/s (bidder name), Office to
 participate in bid and subsequently upon award of the bid to execute the supply and Installation & Commissioning of our range
 of products against your above said bid.

We further extend our warranty for years for our range of products offered by M/sagainst the
 above-said bid.

Thanking you,
 Best regards,

Authorized Signatory

Certificate for Land Border sharing

I. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority [The Competent Authority for the purpose of registration under this Order shall be the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT)].

II. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

III. "Bidder from a country which shares a land border with India" for the purpose of this Order means: -

- a. An entity incorporated, established or registered in such a country; or
- b. A subsidiary of an entity incorporated, established or registered in such a country; or
- c. An entity substantially controlled through entities incorporated, established or registered in such a country; or
- d. An entity whose beneficial owner is situated in such a country; or
- e. An Indian (or other) agent of such an entity; or
- f. A natural person who is a citizen of such a country; or
- g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

IV. The beneficial owner for the purpose of (III) above will be as under:

1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

Explanation

- a. "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;
- b. "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders agreements or voting agreements;
2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

V. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

VI. The successful bidder shall not be allowed to sub-contract works to any contractor from a country which shares a land border with India unless such contractor is registered with the Competent Authority.

Certificate to be given by the Tenderer:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that I am not from such a country or, if from such a country, I have been registered with the Competent Authority. I hereby certify that I fulfil all requirements in this regard and I am eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

Certificate to be given by Tenderer for Works involving possibility of sub-contracting:

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries; I certify that I am not from such a country or, if from such a country, I have been registered with the Competent Authority and will not sub-contract any work to a contractor from such countries unless such contractor is registered with the Competent Authority. I hereby certify that I fulfill all requirements in this regard and I am eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

**Format for Bid Security Declaration
(On non-judicial stamp paper of Rs. 100/-)**

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

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

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

Or

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

Or

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

Or

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

Or

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

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

(Signed by the Authorized Representative of Firm)

Name of Authorized Representative

Name of Firm

Date

