

**Inter University Accelerator Centre
Aruna Asaf Ali Marg,
P.B. No. 10502,
New Delhi-110067**

Indent Number: **1306**

Date: 16/03/2026

ENQUIRY LETTER THROUGH E-PUBLISHING

Inter University Accelerator Centre (IUAC) invites quotations for the following specifications and quantity as given in Annexure A.

Annexure A

| Sr. No | Item/ descriptions | Qty. Total Outer surface area for the painting in Meter square | Unit Price | Total Price |
|--------|--|--|------------|-------------|
| 1. | POLYURETHANE Enamel Painting of 5 Numbers of SF6 Tank (MS) and allied fittings, support structure up to gas handling room as per the technical specification given in the.Paint Specifications: column as per the and terms and conditions After visiting the site | 1350 Approx... | ----- | |
| 2. | GST applicable | | | |
| 3. | Total Price | | | |

Technical specifications CONTENTS

| SR. NO. | DESCRIPTION |
|----------------|--|
| 1 | Scope and General Introduction and standards |
| 2 | Surface Preparation Methods/ Instructions |
| 3 | Paint Application and Restrictions. |
| 4 | Inspection and Testing of Paint Material |
| 5 | Paint Monitoring System |
| 6 | Area classification & recommended painting schemes |
| 7 | Detailed Paint Specifications |
| 8 | Painting Contractor's Responsibility |
| 9 | Guarantee/Warranty |
| 10 | IUAC terms and conditions |

1.1 SCOPE OF WORK AND GENERAL INTRODUCTION

This specification is applicable to general requirements of painting/coating within IUAC. These requirements must be fulfilled and complied for painting and coating of all equipment, pipelines, and storage tanks when they are off stream/shutdown. However, on specific situational based on recommendation from the IUAC engineer, painting may be carried out with certain cautious deviations from these requirements such as painting without stipulated surface preparation. Painting includes surface preparation, clean up and application of paint.

Accordingly, painting specification has been prepared for implementation at IUAC. Scope of work covered in this specification shall include, but not limited to the following:

- Surface preparation
- Selection and application of painting on: approx. surface Area 1350 square meter).
 - a) Associated Steel Structures including ladder, piping, chain fencing, Roof, Equipment etc. up to entrance of Gas handling room.

1.2 Codes and standards / instructions

The paint manufacturer's instructions shall be followed as far as practicable at all times. Particular attention shall be paid to the following:

- a) Instructions for storage (Shelf life of Paint).
- b) Surface preparation prior to painting.
- c) Mixing and thinning on site.
- d) Application of paints and recommended limit on time intervals between coats.
- e) Post painting Normalizing/cleaning of storage tank area.

2. SURFACE PREPARATION METHODS/ Instructions

Most metallic articles that are usually given protective coatings are contaminated and require some cleaning treatment before the coating is applied. The importance of surface preparation cannot be over emphasized as many investigations have shown convincingly that the performance and durability of any protective coatings are, to a large extent governed by the thoroughness of surface preparation. Often they concluded that careful cleaning and preparation of the surface were more important than the quality of the protective coating.

Surface contamination in the form of rust, scale, oil grease and dirt must be removed before painting. Invisible contamination may also be present and represents, on the whole, a greater hazard. Examples of the latter are welding fluxes, perspiration in the form of hand marks must be removed.

The purpose of painting/ coating application is to develop a continuous highly adherent film with an even thickness over the substrate. To achieve this, various factors have to be considered such as type of coatings and weather conditions, application methods etc.

3. PAINT APPLICATION & RESTRICTIONS:

For all cases, paint manufacturer guidelines shall be followed. Following restrictions are given as recommended practices:

1. Coating application shall not be permitted during fog, mist or rain.
2. Coating application shall not be permitted when the relative humidity is 85 percent or above.
3. Coating application shall not be permitted when the steel surface temperature and/or ambient temperature is below 10°C (50°F). Coating application shall not be permitted when the steel surface temperature and/or ambient temperature is above 50°C (120°F).
4. Coating application shall not be permitted when the steel surface temperature is less than 3°C (5°F) above the dew point.
5. Coatings shall not be applied before the surface has been inspected and the preparatory work approved.
6. All sharp projections shall be ground to min. 2mm radius and a thick stripe coat shall be applied at sharp edges.

4. INSPECTION AND TESTING OF PAINTING MATERIAL

- 1) Painting Contractor shall procure from approved manufacturers in a sealed containers conditions as given below:
 - Asian Paints PP G Ltd (Aspa)
 - Berger paints Ltd
 - Good lass Nerolac Paints Ltd
 - Growel India(old -Bombay Paints)
 - Kirloskar corro coats
 - Shalimar paints Ltd.
- 2) Additional manufacturers may be approved by IUAC Inspection, subjecting to technical evaluation. All the procured paint material along with batch/test certificates shall be offered for IUAC inspection for approval. Painting materials should be (manufacturing date) fresh as far as possible. Remaining Shelf life of painting materials shall be at least 24 months.
- 3) IUAC Engineer at his discretion may test paint formulations, if required.
- 4) All defects noticed during stages of inspection, shall be rectified free of cost by the contractor. All records shall be kept by the contractor.
- 5) Minimum suggested stages of **inspection** shall be:
 - a. Surface Preparation/ emery paper rubbing
 - b. Primer application/ putty application wherever needed.
 - c. Each coat of enamel paint
 - d. Hardener (zero) coat / clear
 - e. Final cloth cleaning of tank and general cleaning around the work.
- 6) Frequency of inspection and criteria for acceptance of painting work shall be in accordance with the following **TABLE-1**:

| Test | Frequency | Acceptance criteria |
|---------------------|--------------------------------|---|
| Surface cleanliness | One per ten (10) square meters | Surface preparation grades Manual scraping and wire brushing/emery papers |
| Surface Profile | One per ten (10) square meters | As per coating procedure /Visual inspection |
| Dust | One per ten(10) square meters | As per coating procedure /Visual inspection |
| Holiday Detection | 100% of surface | Zero defects |

7) Tank surface Cleaning:

Very thorough cleaning. The mill scale, rust and foreign matter shall be removed to such an extent that only remnants appear as shades on the surface. Finally, the surface is cleaned & dried with a vacuum cleaner/clean and dry compressed air/a clean brush.

Manual scraping and wire brushing:-

Thorough scraping (with hard-metal scraper/ Steel patra) and wire brushing – disc-sanding, emery cloth/ water emery paper etc. During the operation all the loose scale, rust and foreign matter should be removed.

Site cleaning: complete cleaning of site up to entrance of gas handling room and cloth cleaning of tank for smooth surface after completing the painting work.

Each contractor shall deploy adequate number of **coating inspectors/ foreman** to monitor and inspect the surface preparation, storage, handling, mixing and application on substrate of the painting/coating and to ensure the compliance of this specification. The Inspection test plan which will be mandatory part of the contract shall be prepared by the above qualified inspector and get approved by IUAC. The Contractor's coating inspector and IUAC shall sign an inspection report as per approved inspection test plan. The report shall consist, as a minimum, of the following in addition to the inspection parameters & acceptable criteria as above table - 1.

- Names of the Applicator and the responsible personnel.
- Dates when work was carried out.
- Equipment and techniques used.
- Weather and ambient conditions.

08) Each contractor shall possess relevant standards and deploy all inspection tool/instrument to carry out the all above inspection and testing as per relevant standard.

09) For coating different color shades to be used for primer and intermediate coats, for ease in monitoring & identification of number of coats.

5. PAINT MONITORING SYSTEM

All painting works shall be mentioned (sign writing) with date of completion and P.O. no. at site/structure. These would facilitate defects observations and would also be basis for evaluation of the painting contractor /paint system and manufacturer for future works.

6. AREA CLASSIFICATION and RECOMMENDED PAINTING SCHEMES (Table -2)

Note: for the thickness measurement IUAC may provide the Gauges

| Paint Type | Generic name of the PAINTING SCHEMES/ work | Quality | Method of Application |
|---------------------------|--|---|---|
| Surface preparation | Surface preparation as mentioned in Manual scraping and wire brushing clause & Drying | Thoroughly clean | Scraper, emery cloth water based emery papers / cloth |
| Primer | Primer coating wherever is required | Current Thickness+ 125 microns 1x125 | Brush |
| NC Putty | Application of NC Putty for smooth surface preparation- wherever is required | Smooth surface | with hard-metal scraper |
| POLYURETHANE Enamel paint | Two coats of Grey color POLYURETHANE Enamel Paint a gap of 24 hours for each coat dry period. | Current Thickness + 125 microns | Spray |
| Cloth cleaning | Final cloth cleaning all over the tank | Thoroughly clean | Manual |

7. Paint Specifications:

a. LIST OF PRIMERS & FINISH PAINTS (Table 3)

Materials shall be procured from only those approved manufacturers who will meet the above stated criteria

| SR.N O. | PRIMER& FINISH PAINT | Work | SPECIFIED property |
|------------|--|--|---|
| 1 | Oil-Based (Alkyd & REDOXIDE) Primers / Metal Primers + NC putty | To make the base for the painting +Surface preparation steps | Anti-Corrosive Primers/ base and to fill deep dents /just fine surface scratches |
| 2 | Acrylic Aliphatic weather resistant recoat able POLYURETHANE Enamel Paints. | Final finish in TWO coat. | Engineered to withstand UV rays and moisture flaking. |

Direction of Flow

Where it is required to indicate the direction of flow, arrows or letters may be painted near valves, junctions, walls etc. and at suitable intervals along the pipe. These shall be black or white in colour and in contrast to the colour on which they are superimposed. If a label or badge with codified indication is attached to the pipe, the direction of flow may be indicated by the pointed end of the label or badge.

VISIBILITY MARKINGS

Attention would be given to the visibility of colour markings and the letters. Where the pipelines are located above the normal line of vision of the operator, the lettering should be placed below the horizontal line of the pipe.

8. Painting Contractor's Responsibility

1. All paints and consumables for a particular tank painting work shall be sourced from one manufacturer only to have desired paint performance, guarantee and single point responsibility.
2. Painting contractor shall deploy adequate number of qualified coating Inspectors to supervise, monitor, inspect & control entire painting process right from the surface preparation, storage, handling, mixing and application on substrate of the painting/coating and to ensure the compliance of this specification. These qualified painting inspectors will report to and shall get guided by IUAC.
3. Each contractor shall possess relevant standards and deploy all inspection tool/instrument to carry out the all above inspection and testing as per relevant standard.
4. Organizing of testing all the painting parameters, supply of all the testing instruments, consumables for testing each parameter accepted by IUAC Engineer, shall be the responsibility of painting contractor.
5. The Inspection testing plan which will be mandatory part of the contract shall be prepared by the above qualified coating inspector and get it approved by IUAC .The Contractor's qualified coating inspector and IUAC Engineer shall sign an inspection report as per approved inspection test plan.
6. The report shall consist, as a minimum, of the following in addition to the inspection parameters and acceptable criteria:
7. The painting team should follow all the safety protocols while working on Heights All responsibility in this regard will be the contractor.
 - 1-Names of the applicator and the responsible personnel.
 - 2- Dates when work was carried out.
 - 3-Paint testing parameters test
 - 4-Equipment and techniques used.
 - 5- Type and calibration of instruments used.
 - 6- Weather and ambient conditions.

9. Guarantee/Warranty

- a) The painting contractor shall guarantee that the chemical and physical properties of paint materials used.
- b) Any defects that occur during the painting, either due to improper paint materials used or due to faulty application shall be rectified by contractor at no extra cost to IUAC.
- c) The performance bank guarantee consists of an equivalent value of 5% of the P.O. should be deposited within 15 days of releasing the purchase order.
- d) The bank guarantee will be released on the satisfactory completion of work certified by the IUAC engineers.

1. All the **warranty** should be submitted to IUAC, in the Standard format given in this specification.
2. The performance warranty of 10% of the order value shall be retained for the period of two years. IUAC will release half of this retention amount after one year and balance will be release next year.
3. During the warranty period, the painting contractor will carry out joint inspection every year along with IUAC engineers. All repairs during the warranty period will be done by painting contractor at his cost. The extent of corrosion will be monitored during joint inspections by painting contractor and IUAC engineer. Completion of retention period of two years from the date of completion of work. Guarantee period shall not be extended by any repairs or repainting made during this guarantee period.
 - a. "Defective Areas" mean an area or areas where spontaneous visible corrosion has broken the paint film and where softening of paint and or peeling of paint is noticed. Within the Guarantee period.
 - b. The " Paint supplier/ Applicator (GUARANTOR) hereby confirms that in case of premature paint failure attributable to the quality of the paint, this Guarantee covers that the Guarantor will supply paint free of cost and will repaint/rectify free of cost for those areas (defective) where premature paint failure has been accepted and is attributable to the quality of paint and or workmanship

3. EXCLUSIONS/ Force Majure:-

The "GUARANTOR" shall have no liability under this contract for the following:

- a. Deterioration and damage to the painting system not caused by wear and tear but by Welding or other heating, Mechanical action, Fire, Explosion, unusual action of the elements or any other occurrence outside the Guarantor control, and loss or damage which is a consequence of the aforementioned excluded causes and occurrences.
- b. Coating areas on which repair or other works have been performed by the "owner" after commencement of painting.

- c. Deterioration of coating system caused by physical abuse such as on walkways, handrails, ladders etc.
- d. The " Paint supplier and Applicator" obligations are automatically waived off and void if coating system are affected as consequences of strike, war, invasion, acts of terrorism, or foreign enemies, hostilities, civil war, rebellion, insurrection, military or usurped power, confiscation or Nationalization or requisition or destruction of or damage to property by or under the order of any Gov. or authority and to the extent that loss or damage is directly or indirectly caused by such circumstances or natural catastrophe.

10. Terms & Conditions

The bidder is required to **agree** on the following terms and conditions for successful submission of bid:

- 1. Technical specifications:** The bidder should agree on the technical specifications as mentioned in **Annexure-A** and provide all the necessary documents supporting the specifications mentioned in the table.
- 2. OEM / authorized distributor/ Service provider:** The bidder should either be OEM or authorized distributor/ Service provider of OEM only. In case of distributor, authorization certificate from OEM should be provided along with the quotation.
- 3.** The bidder(s) will have to submit signed copies of all the required documents, if they are asked to submit. The bidder(s) will have to clarify all the queries, if any, asked to them within specified time limit as decided by IUAC.
- 4. Quotation currency:** Price of the item should be quoted in Indian National Rupee (INR) only. Freight and Packing Charges, if any, should be provided along with the quotation.
- 5. Validity of quotation:** The period of validity of quotation should not be less than 45 days.
- 6. Delivery period:** The goods/ Services have to be delivered/ completed at IUAC within **60 days** from the date of Purchase Order.
- 7. Warranty and after sale service: 5 years** warranty period for the painting of SF6 Tank from the date of completion at IUAC. Any damage or repair required in this period should be attended by the vendor free of cost within two weeks of period of reporting. The authorized personnel for servicing / maintenance etc. should be specified. Bidder should specify the capacity &

capability to undertake repair and service works (if available) in India. The parts not covered under the warranty should be clearly mentioned.

8. Bidder must quote all items rate as asked for. Failure in not filling some item rates will lead to be considered them as zero and accepted. No further compensation on that item can be considered later. The bidders should quote unconditional rates.
9. **Performance Security:** The supplier shall require to submit the Performance Security within 15 days on issue of Purchase Order in the form of irrevocable bank guarantee or FDR issued by any Indian Nationalized Bank for an amount which is 5% of the order value and should be kept beyond the delivery period. The Performance Security shall be refunded to the supplier after the due certification by IUAC personnel.
10. **Payment terms:** 90% payment after successful testing and acceptance by the user subject to submission of Performance Security. The performance warranty of 10% of the order value shall be retained for the period of two years. IUAC will release half of this retention amount after one year and balance will be release after next year. Bank details should be provided with the quotation for electronic payment to the successful bidder. Payment will be released on complete delivery of goods/ Services at IUAC and its certification by the personnel concerned. Payment may be rejected if quality of goods/ Services is found unsatisfactory.
11. **GST:** Extra as applicable.
12. **Liquidated Damages (Late Delivery):** In case supply is delayed beyond the specified delivery date, deductions on account of liquidate damage @0.5% per week or thereof will be deducted subjected to maximum of 10% of order value.
13. **Force Majeure:** The right of the contractor/supplier to proceed with the work shall not be terminated because of any delay in the completion of the work due to unforeseeable causes beyond the control and without the fault or negligence of the contractor/supplier, including not limited to acts of God, Pandemic, or of the public enemy, restraints of a sovereign state, firms, wars, fires, epidemics, quarantine restrictions, floods, unusually severe weather. If a Force Majeure situation arises, the supplier/contractor shall promptly notify along with the justification / reasons well in advance to the Director IUAC for approval without any prejudice to price escalation. No time extension request shall be considered after the expiry of completion period/contract. **The decision of the IUAC Director will be final and binding on the bidder/ supplier / contractor.**

13. IUAC reserves the right to reject one/ all the bids or cancel the tender without assigning any reasons thereof.

14. No deviation from the stipulated terms and conditions will be allowed. Tender will be unconditional.

15. Any dispute arising out of this tender will be subjected to jurisdiction of New Delhi/Delhi only.

17. Correspondence: All the correspondence in respect of bid / contractual obligation shall be made to “The Administrative Officer (S&P), Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi – 110067”. E-mail: iuacstores@gmail.com, Telephone: +91-11-24126018, 24126022.

18. Last date for submission: The last date for submission of quotation on company letter head **07/04/2026 at 3.00 pm** by mentioning **Indent No. 1306** on the sealed envelope.