

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

Sophisticated Analytical Instrument Facility (SAIF)

ANALYSIS REQUEST FORM AND SAFETY DATA SHEET-CHNS/O

User Type: IITB/ External (University/ National Lab/ R & D/ Industry)

Name of the user: AMARVEER PRATAP RANA
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Name of the Institute/Organization: IIT PATNA
Address of Institute / Organization: IIT PATNA, BIHAR, 801106 (BIHAR)

Name of Guide/PI: Dr. JAGADISH DAS
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Contact No 9456382643

1. Sample Code/Name: **AR-1, AR-2, AR-3, AR-4, AR-5**

2. Number of Samples: **Five (5)**

Kindly Tick whichever is applicable for the following:

3. Analysis required- Qualitative/Quantitative ☒

4. Details of Analysis required: **CHNS**

5. Expected Percentage: **Separate sheet submitted**

6. Sample Type: ☒ Solid (Powder, Pellet, Bulk)/ ☒ Liquid/ Dispersion/ Emulsion/ Colloidal/
Gel/Oil/Others (Specify)

7. Sample Category: Biological (Microorganisms/ Fungal/Bacterial/ Protein/ blood/ Plasma/ Serum/
Organs/ urine/Stool/ Cancerous Cells/Non Cancerous Cells/Plant Extracts/ Marine extracts)/
☒ Composite Material/ Thin Film / Metal/ Polymer/ Environmental/ Ceramic/ Others (Specify)

8. Sample quantity (weight/volume) (Specify) : **15mg per sample**

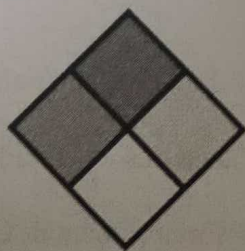
9. Sample nature: ☒ Organic/ ☐ Inorganic/ ☐ Magnetic/ ☐ Non Magnetic /Any other characteristic nature
(Specify)

10. Moisture: Present/Absent/☒ NA

11. Volatile organic compound: Present/ Absent/☒ NA

12. Specify the Storage and handling conditions (Room temp/ Refrigeration/.....) ☒

13. **Sample Properties:** Carcinogenic (carcinogenicity level-----) /Non Carcinogenic Radioactive
Explosive / Toxic/ Corrosive/ Flammable/ Non flammable / Other(specify) ✓
14. **Stability of sample:** Stable under RTP, hygroscopic, sublimes, Reactive in air/moisture/ light/heat ✓
15. **Decomposition temperature:** $> 300^{\circ}\text{C}$
16. **Whether incompatible with any material-** Yes/No (Specify the materials) ✓
17. **Toxicity:** Hazardous/ Non Hazardous ✓
18. **Health hazards:** Yes/No(irritant to skin/irritant to eyes/harmful to skin/ toxic if inhaled/toxic if ingested) ✓
19. **First aid measures:** Eye/Skin/Inhalation/ Ingestion/Others(specify) ✓
20. **Disposal Method of sample**
21. **Additional information if any:**
22. **Label the sample(s)/ sample container(s) with hazard category**
23. All Samples will be discarded within 7 days of analysis. If you wish to collect the samples then you are required to make arrangement for the same. SAIF office will not dispatch the same to users under any circumstances.
24. **MSDS (should be uploaded/ attached if available)**
25. Please fill in appropriate numbers in the NFPA diamond if MSDS is available: (*Kindly refer the image at the end of the file for reference):



Declaration

I confirm that the samples submitted for analysis are for research purpose only and the above furnished details are correct and true to the best of my knowledge. I understand that I will be held responsible for any damages arising from incorrect information provided by me against points 13-18.

I agree to acknowledge DST and SAIF/CRNTS, IIT Bombay for providing (Instrument name) analytical facility for my research work, in my publications. I also agree to send the publication reference (Journal name/volume number/names of the authors/date of issue of the publication etc) to office.saif@iitb.ac.in

I declare that the "Content of this report is meant for our information only and we will not use the content of this report for advertisement, evidence, litigation or quote as certificate to third party"

I accept that all the issued reports/results (Soft/hard) will not carry any Signature or Seal and Stamp of SAIF/CRNTS IIT Bombay.

AMARVEER PRATAPANA
Signature of the User

Jagadish
17.10.25
Signature of the In Charge/HOD/PI with College / P.I. / Guide
seal / stamp

Dr. Jagadish Das
Assistant Professor
Dept. of Chemistry
Indian Institute of Technology
Bihta, Patna-801106

Date: 17/10/25

Place: IIT, PATNA

CHEMISTRY DEPARTMENT

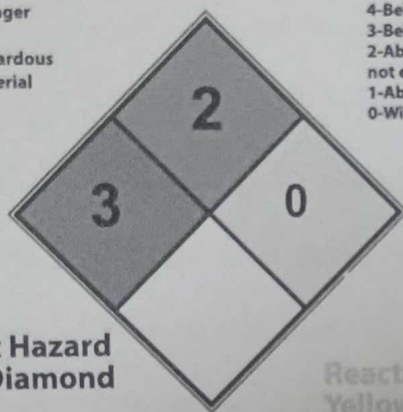
* refer the image below for reference for filling up Point 25:

**Health Hazard
Blue Diamond**

- 4-Deadly
- 3-Extreme Danger
- 2-Hazardous
- 1-Slightly Hazardous
- 0-Normal Material

**Fire Hazard
Red Diamond**

- Flash Points
- 4-Below 73°F
 - 3-Below 100°F
 - 2-Above 100°F
not exceeding 200°F
 - 1-Above 200°F
 - 0-Will not burn



**Specific Hazard
White Diamond**

- ACID - Acid
- ALK - Alkali
- COR - Corrosive
- OXY - Oxidizer
- ☢ - Radioactive
- ☞ - Use No Water

**Reactivity
Yellow Diamond**

- 4-May Detonate
- 3-Shock & Heat
may detonate
- 2-Violent Chemical
change
- 1-Unstable if heated
- 0-Stable