



Centre for Renewable Energy and Materials UNIVERSITY OF KERALA

(Re-accredited by NAAC with 'A++' Grade)

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Hon. Director

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No. CREM/102/ TENDER/2/2025

02.05.2025

TENDER INVITATION NOTICE

Last date of Submission of Quotation: 16/05/2025

Competitive sealed tenders are invited from reputed and established manufacturers or authorized dealers for the purchase of the following chemicals with make and specification detailed below for the Centre for Renewable Energy and Materials, University of Kerala, Kariavattom, Thiruvananthapuram 695581

List of Chemicals

SI No	Product Details	CAS Number	Preferred Company/ Make	Reagent grade/ Purity	Required Quantity
1	Boric acid	10043-35-3	Merck/SRL/ Spectrochem	99%	(500 g×2)
2	Nickel chloride hexahydrate	7791-20-0	Merck/SRL/ Spectrochem	99%	(500 g×4)
3	Benzene tetra carboxylic acid (BTC)	89-05-4	Merck/SRL/ Spectrochem	97%	(500 g×1)
4	Succinic acid	110-15-6	Merck/SRL/ Spectrochem	99%	(500 g×3)
			Merck		(500 g×1)
5	Iron (III) nitrate Nonahydrate	7782-61-8	Merck/SRL/ Spectrochem	99%	(500 g×2)
6	Ethylene diammonium dichloride	333-18-6	Merck/SRL/ Spectrochem	99%	(500 g×1)
7	Nickel (II) Sulfate hexahydrate	10101-97-0	Merck/SRL/ Spectrochem	98%	(250 g×4)
			Merck		(100 g×2)

8	Sodium Hypophosphite hydrate	123333-67-5	Merck/SRL/Spectrochem	99%	(500 g×3)
			Merck/SRL/Spectrochem	99%	(100 g×2)
			Merck		(100 g×2)
9	Stannous chloride anhydrous	7772-99-8	Merck/SRL/Spectrochem	98%	(250 g×4)
					(100 g×2)
10	Potassium hydroxide	1310-58-3	Merck/SRL/Spectrochem	98%	(500 g×4)
11	Zinc Nitrate hexahydrate (Zn(NO ₃) ₂ · 6H ₂ O)	10196-18-6	Merck	reagent grade, 98%	(500 g×2)
12	Citric acid monohydrate	5949-29-1	Merck	ACS reagent, C1909 ≥99.0%	(1 kg×2)
13	Aluminium Nitrate nonahydrate	7784-27-2	Merck	ACS reagent, 23773, ≥98%	(500 g×1)
14	Cobalt Nitrate hexahydrate.	10026-22-9	Merck	ACS reagent, ≥98%	(100 g×4)
15	Palladium(II) chloride	7647-10-1	Merck	≥99.9%	(1g×2)
16	Bi ₂ O ₃	1304-76-3	Merck	purum, ≥98.0% (KT)	(100 g×1)
17	Potassium ferricyanide	13746-66-2	Merck/SRL	ACS reagent	(50 g×1)
18	Disodium hydrogen phosphate	7558-79-4	SRL/LobaChemie	98% purity	(250 g×1)
19	Potassium phosphate dibasic	7758-11-4	SRL/LobaChemie	98% purity	(250 g×1)
20	D-(+)-Glucose	50-99-7	Sigma/TCI	anhydrous for biochemistry Reag. Ph Eur	(250 g×1)
21	Iron (III) chloride	7705-08-0	Sigma/TCI	reagent grade, 97%	(100 g×2)
22	Titanium tetrachloride	7550-45-0	Sigma/TCI	Reagent plus, 99.5%	(100 mL ×1)
23	Cobalt (II) sulphate heptahydrate	10026-24-1	Sigma Aldrich	Reagent plus, >99%	(100 g×3)
24	Nickel Foam				(200 x 200 mm) × 7
25	Bismuth(III) nitrate pentahydrate	10035-06-0	Sigma/TCI	99%	(50 g × 1)
26	Ethylene glycol	107-21-1	TCI/Merck	99.5% purity	(2.5 L × 1)
27	Copper nitrate trihydrate	10031-43-3	Merck	99%	(100 g × 2)

28	Nickel nitrate hexahydrate	13478-00-7	Merck	99.99%	(20g × 2)
29	Nafion™ 117 containing solution	70160	Merck		1
30	1,3 diphenyl-1,3-propanedione	120-46-7	TCI		(25 g × 1)
31	N-Acetylimidazole	2466-76-4	TCI	>98.0%	(25 g × 1)
32	Dimethyl 1,4-Cyclohexanedione-2,5-dicarboxylate	6289-46-9	TCI	>95.0%	(25g × 1)
33	2-Amino-4-hydroxy-6-methylpyrimidine	3977-29-5	TCI	98%	(25 g × 1)
34	Nitrofurazone	59-87-0	TCI	>98.0%	(25 g × 1)
35	Ruthenium (III) chloride hydrate	14898-67-0	Merck/SRL/ Spectrochem		(1 g × 1)

List of Glassware's (Laboratory Contingencies)

1	Volumetric Flask, Amber		Glassco/ Borosil	Penny Head Glass & PP Stopper	(100 mL × 3)
2.	Beaker		Borosil		(100 mL × 6)
3	Beaker		Borosil		(50 mL × 6)
4	Beaker		Borosil		(1000 mL × 2)
5.	Beaker		Borosil		(2000 mL × 2)
6.	Ag/AgCl (Sat. KCl) electrode			With porous frit	1
7.	Paraffin film		Any	NA	(2 inch × 250 feet) × 1

Sealed tenders should reach Hon. Director, Centre for Renewable Energy and Materials, University of Kerala, Kariavattom, Thiruvananthapuram – 695581, on or before **16/05/2025, 3.00 pm.**

Terms and conditions:

- ✚ Kindly quote with price with GST
- ✚ The chemicals and glasswares should have more than 1 year of expiry date from the date we received.
- ✚ Quote separate price list for each make (manufacturer) of the chemicals.
- ✚ Incomplete and conditional quotations and quotations received after the due date will be summarily rejected without assigning any reasons thereof.
- ✚ Quotations submitted shall remain valid for the current financial year
- ✚ The undersigned reserves the right to reject or accept the quotation without assigning any reason.



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S. M. A. Shibli
Hon. Director
Centre for Renewable Energy & Materials
University of Kerala