



State Rajasthan Pollution Control Board

Headquarter, 4, Institutional Area, JhalanaDoongri, Jaipur-302004
Phone :0141-27168049,2716800 e-mail : member-secretary@rpcb.nic.in
HelplineNo. : 0141-2716877



क्रमांक एफ.11(702)/रा.प्र.नि.मं./188

दिनांक:- 17/06/2025

ई-निविदा सूचना संख्या: 2025-26

राजस्थान राज्य प्रदूषण नियंत्रण मंडल, मुख्यालय संस्थानिक क्षेत्र झालाना डूंगरी जयपुर द्वारा राज्य मण्डल की केन्द्रीय प्रयोगशाला एवं 24 क्षेत्रीय प्रयोगशालाओं (13 existing Labs and 11 new laboratories) में नमूना (जल, दूषित जल, वायु, मृदा एवं ध्वनि) एकत्रीकरण एवं विश्लेषण सुविधा उन्नत करने तथा नयी प्रयोगशालाओं में विश्लेषण सुविधा प्रदान करने हेतु योग्य निर्माताओं/अधिकृत वितरकों (Eligible manufacturers/ Authorized distributors) से द्विप्रकमी खुली बोली आमंत्रित की जाती है।

बिड की अनुमानित लागत	बिड प्रपत्र शुल्क	बिड सिक्यूरिटी	बिड प्रारम्भ होने की तिथि व समय	बिड अपलोड किये जाने की अंतिम तिथि व समय	प्री बिड मीटिंग की तिथि व समय	तकनीकी बिड खोलने की तिथि एवं समय
1	2	3	4	5	6	7
रुपये 13.13 करोड़	रुपये 2000/- डी. डी./ बैंकर्स चैक	उपकरणों की अनुमानित लागत की 2%	16.06.2025 सायं 5:30 बजे से	07.07.2025 सायं 6:00 बजे तक	24.06.2025 सुबह 11:30 बजे	08.07.2025 सुबह 11:30 बजे

बिड प्रपत्र एवं विस्तृत विवरण विभागीय वेबसाइट <https://www.environment.rajasthan.gov.in/> एवं उपापन पोर्टल <https://eproc.rajasthan.gov.in/nicgep/app> or spp portal - <https://sppp.rajasthan.gov.in/> से डाउनलोड किया जा सकता है परन्तु बिड e-proc portal - <https://eproc.rajasthan.gov.in/nicgep/app> पर ही सबमिट की जा सकेगी। बिड शुल्क व बिड सिक्यूरिटी का शुल्क बैंक ड्राफ्ट / बैंकर्स चैक सदस्य सचिव, राजस्थान राज्य प्रदूषण मंडल, जयपुर के नाम एवम् बिड प्रक्रिया शुल्क 2500/- MD, RISL, जयपुर (डी.डी./ बैंकर्स चैक) के पक्ष में देय होगा।

UBN:- PCB2526G2OB00038

सदस्य सचिव

क्रमांक एफ.11(702)/रा.प्र.नि.मं./188

दिनांक:- 17/6/2025

प्रतिलिपि:-

- निदेशक सूचना एवं जनसम्पर्क विभाग जयपुर को प्रेषित कर लेख है कि उक्त बोली सूचना का प्रकाशन एक क्षेत्रीय, एक राज्य स्तरीय 50 हजार से अधिक प्रतियों का परिचालन वाले मुख्य क्षेत्रीय समाचार पत्र में करवाने का श्रम करे।
- प्रभारी अधिकारी आई.टी. शाखा को बोली सूचना का उक्तानुसार मण्डल की वेबसाइट पर अविलम्ब अपलोड करने हेतु प्रेषित है।
- नोटिस बोर्ड, राजस्थान प्रदूषण नियंत्रण मण्डल, जयपुर।

सदस्य सचिव



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



BID NOTICE No. RSPCB/.....

E-TENDER

**FOR PROCUREMENT OF 29 TYPES OF LABORATORY INSTRUMENTS ALONG
WITH 05 YEARS WARRANTY AND COMPREHENSIVE MAINTENANCE CONTRACT
(CAMC) FOR 03 YEARS**

FOR REGIONAL LABORATORIES & CENTRAL LABORATORY

OF

RAJASTHAN STATE POLLUTION CONTROL BOARD

(Estimated Total Cost of Tender- 13.13 Cr.)



JUNE, 2025

RAJASTHAN STATE POLLUTION CONTROL BOARD
4, Institutional Area, Paryavaran Marg, Jhalana Doongari, Jaipur- 302004
Rajasthan

Phone: 0141-2711263, 2711807

Website: <http://www.rpcb.rajasthan.gov.in>,

E-mail: member-secretary@rpcb.nic.in

Signature of Bidder with Seal
Date:

RSPCB
2025-26



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No.: - F11 (702)/RPCB/Lab/2025-26/ 178

Date: 13/06/2025

NOTICE INVITING E-TENDER

Double stage unconditional e-Bids are invited by Rajasthan State Pollution Control Board, Jaipur for the procurement of "29 types of Laboratory Instruments" from eligible manufacturer/Authorized distributors as per details given in the respective Bid Document. The Complete Tender Documents can be downloaded from e-procurement www.eproc.rajasthan.gov.in or SPP Portal www.sppp.rajasthan.gov.in or <http://www.environment.rajasthan.gov.in>. Bid will be submitted only on <http://www.eproc.rajasthan.gov.in>. Member Secretary, Rajasthan State Pollution Control Board, Jaipur reserves the right to accept or reject any or all Tenders in part or full without assigning any reason thereof.

S .no.	Name of instrument	Quantity	Estimated cost in lac.
1	Analytical Balance, 05 Digits.	20	130.00
2	BOD Incubator, Capacity 250-300 Ltr.	15	23.25
3	Conductivity Meter	16	26.40
4	COD Digester with Condensers	14	42.00
5	Centrifuge	14	8.40
6	Deep Freezer (Chest type)	17	5.10
7	Digital Portable Barometer	18	16.20
8	Double Distillation Water Assembly	16	34.40
9	Flue Gas Analyser	08	76.00
10	Filtration Assembly with Suction Pump For Suspended Solids	16	12.00
11	Heating Mantle	32	13.60
12	High Volume Sampler	25	31.25
13	Hot Plate With Magnetic Stirrer	15	13.50
14	Hot Air Oven	19	17.10
15	Muffle Furnace, 800-1000 degree	16	20.00
16	Noise Level Meter	20	90.00
17	pH Meter	18	24.30
18	PM 2.5 Sampler	76	307.80
19	Refrigerator (2 Doors)	15	4.50
20	Respirable Dust Sampler	67	100.16
21	Specific Ion Meter for Nitrate and Fluoride	18	54.00
22	Stack Monitoring Kit	16	34.40
23	Turbidity Meter	05	8.97

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24	Total Kjheldal Nitrogen Analyser	04	61.80
25	UV - Visible Spectrophotometer Real Double Beam	17	101.15
26	Visible Spectrophotometer	17	17.85
27	Weather Station for Metrological Parameters	06	21.00
28	Water Bath	15	17.25
29	Thermometer (digital)	50	0.1250
Total		605	13.13 Cr

Earnest Money (By D.D./BG/RTGS/NEFT Only in favor of Member Secretary, Rajasthan State Pollution Control Board, Jaipur as per given Bank Details.	2% of estimated Tender cost of each category.
Tender document Fee (By D.D./RTGS/NEFT Only in favor of Member Secretary, Rajasthan State Pollution Control Board, Jaipur)- Non-refundable	Rs 2000
Tender Processing Fee by D.D. in favor of MD, RISL, payable at Jaipur - Non-refundable	Rs. 2500/-
Date of publishing NIB & Tender Document on e-procurement www.eproc.rajasthan.gov.in and www.sppp.rajasthan.gov.in and http://www.environment.rajasthan.gov.in and Date from which tender document can be downloaded from e-procurement i.e., https://eproc.rajasthan.gov.in SPP Portal i.e., https://sppp.rajasthan.gov.in http://www.environment.rajasthan.gov.in	16/06/2025 at 5:30 PM
Date of Pre-Bid meeting to be held at RSPCB, Jaipur.	24/06/25 at 11:30 AM
Clarification end date	25/06/25 at 6:00 PM
Last time and date up to which Bids can be submitted/ uploaded on e-procurement website.	07/07/25 at 6:00 PM
Time & Date of Opening of Technical Bid	8/7/25 at 11:30 AM
Time & Date of Opening of financial Bid	To be declared later.

Note: -

1. In case bidder is unable to submit Demand Drafts of Tender Fee & Earnest Money in physical form, bidders are also allowed to online transfer these amounts in RSPCB's Bank Account as per given details. In that case, separate transaction should be made for each amount and scan copy of transactions should be uploaded at EPROC site and transaction reference no. should also be quoted. In additions, bidders are also required

Signature of Bidder with Seal

Date:

RSPCB
2025-26

05



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to inform us about online transfer of these amounts along with transaction details via e-mail at lab.rpcb@gmail.com and nmlmc.rpcb@gmail.com.

2. Detailed descriptions of the item and instructions for submitting the offer can be downloaded from e-Procurement Portal.
3. Purchaser will not be responsible for delay in online submission due to any reason. For this, bidders are requested to upload the complete bid well advance in time so as to avoid 11th hour issues like slow speed; choking of web site due to heavy load or any other unforeseen problems.
4. To participate in online bidding process, Bidders must procure a Digital Signature Certificate (TypeIII) as per Information Technology Act-2000 using which they can digitally sign their electronic bids. Bidders can procure the same from any CCA approved certifying agency, i.e. TCS, Safe crypt, Encode etc. Bidders who already have a valid Digital Signature Certificate (DSC) need not procure a new DSC. Also, bidders must register on <http://eproc.rajasthan.gov.in> (bidders already registered on <http://eproc.rajasthan.gov.in> before 30-09-2011 must register again).
5. Bid Security /EMD should be submitted separately for each quoted equipment.
6. Any query please contact **CSO/GIC-STORE, RSPCB, Jaipur**.
7. The detailed terms & conditions with specifications of instruments and tender document may be downloaded from <https://eproc.rajasthan.gov.in> or <https://sppp.rajasthan.gov.in> and <http://www.environment.rajasthan.gov.in>. The provisions of RTTP Act, 2012 & Rules, 2013, there to shall be applicable for this procurement, further, in case of any inconsistency in any of the provision of this Tender Documents with the RTTP Act 2012, & Rules 2013 and GF&AR, there to the later shall prevail.

Our Bank detail is as follows:

Name of Organization	: Member Secretary, Rajasthan State Pollution Control Board
Name of Bank	: Bank of Baroda
Branch Name/code	: IDS Extension Counter, Jaipur/EXTNEH
Account No.	: 98150100000521
Account Type	: Saving
IFSC Code No.	: BARB0EXTNEH
Bank Branch Address	: IDS Extension Counter, Jhalana Institutional Area, Jaipur-302004


Member Secretary

Signature of Bidder with Seal
Date:

RSPCB
2025-26



INDEX		
S.No.	Contents	Page No.
1.	Covering Letter with NIB	1-4
2.	Index	5-7
3.	Abbreviations & Definitions	7-9
4.	General Information	9-13
5.	Project Profile & Background Information and Pre-qualification/ Eligibility Criteria	14-16
6.	Scope of work, deliverables & timelines and Installation, commissioning and maintenance	16
7.	Activity, deliverables & timelines	17
8.	Bidding Process & Instruction to bidders (<i>Availability of Bidding Document, Submission of Bid</i>)	18
9.	Technical Bid, Financial Bid	19-21
10.	Changes in the Bidding Document	21
11.	Period of Validity of Bids	21-22
12.	CAMC, Warranty & Terms And Conditions	22-25
13.	Earnest Money Deposit	25-26
14.	Bid Security and Exemption/ Partial Exemption From Payment Of Bid Security	26-28
15.	Additional Performance Security, Unbalanced Bid Amount, Cost & Language Of Bidding, Alternative/ Multiple Bids	29-30
16.	Deadline for the submission of Bids and Withdrawal, Substitution, and Modification of Bids	30-31
17.	Opening of Bid and Clarification of Bids	31-32
18.	Selection Method	32
19.	Evaluation & Tabulation of Technical Bids	32-34
20.	Correction of Arithmetic Errors in Financial Bids	34-35
21.	Price/ purchase preference in evaluation and Negotiations	35
22.	Exclusion of Bids/ Disqualification and Lack of competition	36-37
23.	Acceptance of the successful Bid and award of contract	37
24.	Information and publication of award, Procuring entity's right to accept or reject any or all Bids	37
25.	Procuring entity's right to vary quantities (repeat order), dividing quantities among more than one bidder at the time of award	37-38
26.	Execution of agreement and Confidentiality	38-39
27.	Cancellation of procurement process and Code of Integrity for Bidders , Interference with Procurement Process	39-41
28.	Appeals	42-43

Signature of Bidder with Seal
 Date:

(Handwritten signature)

RSPCB
2025-26

*दी.एस.परिहार
 वैज्ञानिक अधिकारी*



Rajasthan State Pollution Control Board
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29.	Stay of procurement proceedings, Vexatious Appeals & Complaints, Offenses by Firms/ Companies, Debarment from Bidding	43-45
30.	Monitoring of Contract	45-46
31.	General Terms And Conditions Of Tender & Contract (Definition, Contract Documents, Interpretation, Language, Eligible Goods and Related Services, Notices, Governing Law, Scope of Supply, Delivery & Installation, Supplier's/ Selected Bidder's Responsibilities, Contract Price, Recoveries from Supplier/ Selected Bidder, Taxes & Duties, Copyright, Confidential Information, Sub-contracting, Specifications and Standards, Packing and Documents, Insurance, Injury and Damage, Transportation, Inspection, Rejection)	46-54
32.	Delivery Period and Liquidated Damages (LD)	54-56
33.	Authenticity of Equipment	56
34.	Change Orders and Contract Amendments	56-57
35.	Termination, Settlement of Disputes, Arbitration, laws and regulations, effectiveness	57-61
36.	Limitation of Liability, Force Majeure	59
37.	Payment Terms and Schedule and Service Level Standards/ Requirements/Agreement	59-60
38.	Special Terms And Conditions Of Tender & Contract	61-63
39.	Border Security Act	64
40.	Application Form/ Checklist (To Be Filled By The Bidder) <i>Annexure-I</i>	65-67
41.	Bid Form For Technical Bid With Technical Specifications <i>Annexure-II</i> and Certificate Of Conformity/ No Deviation With Respect To Board's Technical Specifications <i>Annexure-III</i>	68-106 107-108
42.	Bid Form For Price Bid <i>Annexure- IV</i>	109-111
43.	Schedule Of Delivery <i>Annexure-V</i>	112-114
44.	List of laboratories of RSPCB with code nos. Located in Rajasthan <i>Annexure-VI</i>	115-116
45.	Undertaking <i>Annexure-VII</i>	117-118
46.	Self-Declaration <i>Annexure-VIII</i>	119
47.	Bidder's Authorization Certificate <i>Annexure-IX</i>	120-121
48.	Undertaking <i>Annexure-X</i>	122-123
49.	Form of Bank Guarantee for Performance Security <i>Annexure-XI</i>	124-125
50.	Form to Contract Agreement on Rs. 500/- Non Judicial Stamp Paper (With stamp to be submitted at the time of execution of work by successful bidder and during the bidding process shall be	126-128

Signature of Bidder with Seal

Date:

RSPCB

2025-26



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	submitted by Seal and Sign without stamping)	<i>Annexure-XII</i>	
51.	No Lesser Price Certificate	<i>Annexure-XIII</i>	129
52.	Financial Bid Cover Letter & Format	<i>Annexure-XIV</i>	130
53.	Memorandum of Appeal under the Rajasthan Transparency in Public Procurement Act, 2012 <i>Annexure A,B,C,D</i>	<i>Annexure-XV&</i>	131-137
54.	Schedule Of Earnest Money	<i>Annexure- XVI</i>	138-141

RAJASTHAN STATE POLLUTION CONTROL BOARD
4, Institutional Area, Paryavaran Marg, Jhalana Doongari, Jaipur- 302004 Rajasthan
Phone: 0141-2711263, 2711802, RSPCB Helpline 0141-2716877
Website: <http://www.rpcb.rajasthan.gov.in>
email: member-secretary@rpcb.nic.in

ABBREVIATIONS & DEFINITIONS

Act	The Rajasthan Transparency in Public Procurement Act, 2012 (Act No. 21 of 2012) and Rules thereto
Authorised Signatory	The bidder's representative/ officer vested (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement. Also called signing officer/ authority having the Power of Attorney (PoA) from the competent authority of the respective Bidding firm.
BG	Bank Guarantee
Bid/ eBid	A formal offer made in pursuance of an invitation by a procuring entity and includes any tender, proposal or quotation in electronic format
Bid Security	A security provided to the procuring entity by a bidder for securing the fulfilment of any obligation in terms of the provisions of the bidding documents.
Bidder	Any person/ firm/ agency/ company/ contractor/ supplier/ vendor participating in the procurement/ bidding process with the procuring entity
Bidding Document	Documents issued by the procuring entity, including any amendments thereto, that set out the terms and conditions of the given procurement and includes the invitation to bid
CMC	Contract Monitoring Committee
Competent Authority	An authority or officer to whom the relevant administrative or financial powers have been delegated for taking decision in a matter relating to procurement. Member Secretary, RSPCB in this bidding document.
Contract/ Procurement Contract	A contract entered into between the procuring entity and a successful bidder concerning the subject matter of procurement
Contract/ Project	The Contract/ Project Period shall commence from the date of issue of Work

Signature of Bidder with Seal
Date:

वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी



Period	order till completion of warranty/services.
Day	A calendar day as per GoR/Gol.
FOR/ FOB	Free on Board or Freight on Board
GoI/ GoR	Govt. of India/ Govt. of Rajasthan
Goods	All articles, material, commodities, electricity, livestock, furniture, fixtures, raw material, spares, instruments, software, machinery, equipment, industrial plant, vehicles, aircraft, ships, railway rolling stock and any other category of goods, whether in solid, liquid or gaseous form, purchased or otherwise acquired for the use of a procuring entity as well as services or works incidental to the supply of the goods if the value of services or works or both does not exceed that of the goods themselves
IFB	Invitation for Bids (A document published by the procuring entity inviting Bids relating to the subject matter of procurement and any amendment thereto and includes notice inviting Bid and request for proposal)
INR/Rs.	Indian Rupee
ISI	Indian Standards Institution
ISO	International Organisation for Standardisation
IT	Information Technology
ITB	Instruction to Bidders
LD	Liquidated Damages
LoI	Letter of Intent
NCB	A bidding process in which qualified bidders only from within India are allowed to participate
NIB	Notice Inviting Bid
Notification	A notification published in the Official Gazette
OEM	Original Equipment Manufacturer
PAN	Permanent Account Number
PBG	Performance Bank Guarantee
PC	Procurement/ Purchase Committee
PQ	Pre-Qualification
Procurement Process	The process of procurement extending from the issue of invitation to Bid till the award of the procurement contract or cancellation of the procurement process, as the case may be
Procurement/ Public Procurement	The acquisition by purchase, lease, license or otherwise of works, goods or services, including award of Public Private Partnership projects, by a procuring entity whether directly or through an agency with which a contract for procurement services is entered into, but does not include any acquisition without consideration, and "procure" or "procured" shall be construed accordingly
Project Site	Wherever applicable, means the designated place or places.
PSD/ SD	Performance Security Deposit/ Security Deposit
Purchaser/ Tendering Authority/ Procuring Entity	Person or entity that is a recipient of a good or service provided by a seller (bidder) under a purchase order or contract of sale. Also called buyer. Member Secretary, RSPCB in this RFP document.
RSPCB/RPCB	Rajasthan State Pollution Control Board

Signature of Bidder with Seal

Date:


वी.एस. परिहार
मुख्य वैज्ञानिक अधिकारी



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GST	Goods and Service Taxes
Services	Any subject matter of procurement other than goods or works and includes physical, maintenance, professional, intellectual, consultancy and advisory services or any service classified or declared as such by a procuring entity and does not include appointment of any person made by any procuring entity
State Government	Government of Rajasthan (GoR)
State Public Procurement Portal	http://sppp.raj.nic.in
Subject Matter of Procurement	Any item of procurement whether in the form of goods, services or works
TIN	Tax Identification Number
TPA	Third Party Auditors
VAT/ CenVAT	Value Added Tax/ Central VAT
WO/ PO	Work Order/ Purchase Order

GENERAL INFORMATION

1. Rajasthan State Pollution Control Board (RSPCB) invites e-tender from eligible bidders for **Supply, Installation, Testing, Demonstration, and Commissioning of 29 types of Laboratory instruments** as specified in the bid document.
2. Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.
3. The provisions of RTPP Act, 2012 and Rules-2013 and GF&AR thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPP Act, 2012 and Rules-2013 and GF&AR thereto, the later shall prevail.

Details of instruments invited vide bid for supply are as mentioned below: -

Details of Instruments/Laboratory items

S.no.	Name of instrument	Quantity	Estimated cost in lac.
1	Analytical Balance, 05 Digits.	20	130.00
2	BOD Incubator, Capacity 250-300 Ltr.	15	23.25
3	Conductivity Meter	16	26.40
4	COD Digester with Condensers	14	42.00
5	Centrifuge	14	8.40
6	Deep Freezer (Chest type)	17	5.10
7	Digital Portable Barometer	18	16.20

Signature of Bidder with Seal
Date:

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मुख्य वैज्ञानिक अधिकारी



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8	Double Distillation Water Assembly	16	34.40
9	Flue Gas Analyser	08	76.00
10	Filtration Assembly with Suction Pump For Suspended Solids	16	12.00
11	Heating Mantle	32	13.60
12	High Volume Sampler	25	31.25
13	Hot Plate With Magnetic Stirrer	15	13.50
14	Hot Air Oven	19	17.10
15	Muffle Furnace,800-1000 degree	16	20.00
16	Noise Level Meter	20	90.00
17	pH Meter	18	24.30
18	PM 2.5 Sampler	76	307.80
19	Refrigerator (2 Doors)	15	4.50
20	Respirable Dust Sampler	67	100.16
21	Specific Ion Meter for Nitrate and Fluoride	18	54.00
22	Stack Monitoring Kit	16	34.40
23	Turbidity Meter	05	8.97
24	Total Kjheldal Nitrogen Analyser	04	61.80
25	UV - Visible Spectrophotometer real Double Beam	17	101.15
26	Visible Spectrophotometer	17	17.85
27	Weather Station for Metrological Parameters	06	21.00
28	Water Bath	15	17.25
29	Thermometer (digital)	50	0.1250
Total		605	13.13 Cr

4. For participating in the above e-tender, the Bidders shall have to get themselves registered on website <http://eproc.rajasthan.gov.in> and get User ID, password, Class 3 Digital Signatures Certificate (DSC) is mandatory to participate in the e-tendering process. For any clarification/ difficulty/ regarding e-tendering process bidders can contact helpdesk on the phone numbers mentioned on the website.

5. The bid documents can be downloaded from website: <http://eproc.rajasthan.gov.in>.

Signature of Bidder with Seal

Date:

RSPCB

2025-26

वी.एस.परिहार
 मुख्य वैयक्तिक अधिकारी
 Page 10 of 141



Rajasthan State Pollution Control Board

Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004

E-Mail: member-secretary@rpcb.nic.in

Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



- <https://sppp.rajasthan.gov.in> and <http://www.environment.rajasthan.gov.in>. The document downloaded from the aforesaid website should not be tempered, and if any such tempering is detected before or after the opening of Bids, the Bidder shall be debarred for a period of 06 (six) months.
6. Bidder (through its Authorized Representative) shall submit their offer (the **-Bid or- Proposal**) online in electronic formats comprising of both Technical Bid and Financial Bid. Bid/Tender Fees and EMD fee should be deposited through **D.D./BG/RTGS/NEFT in favor of Member Secretary, Rajasthan State Pollution Control Board, Jaipur as per given bank details" and Tender Processing Fees should be deposited through demand draft in favor of MD, RISI., payable at Jaipur.**
 7. Any subsequent addendum/ corrigendum shall be published/ uploaded only on the website <http://eproc.rajasthan.gov.in>, <https://sppp.rajasthan.gov.in> and <http://www.environment.rajasthan.gov.in>. In case there is a holiday on the day of opening of Bids, activities assigned on that date shall be carried out on the next working day.
 8. While electronically submitting the Bids, it should be ensured that the Bid Documents including conditions of Tender are digitally signed by the Bidder.
 9. The documents shall be prepared and scanned in different files and uploaded during online submission of the Bid.
 10. Rajasthan Pollution Control Board will not be responsible for delay in online submission due to any reason. For this, Bidders are advised to upload their complete Bid well advance in time so as to avoid 11th hour issues like slow speed; choking of web site due to heavy load or any other unforeseen problems.
 11. The Bid Document is non-transferable by the purchaser. The bid form in the bid document at **Annexure – II** will be used for technical bid. Each page of the bid must be digitally signed by the bidder. The price bid must be in the form provided herewith at **Annexure - IV**
 12. The bid prepared by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser, shall be written in English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by English translation of its pertinent passages, in such case, for the purpose of interpretation of the bid, English translation shall govern. The check list of documents for submission of bid is available at **Annexure – I**.
 13. The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bid document carefully. Failure to furnish all information required by the bid documents or submission of a bid not substantially responsive to the

Signature of Bidder with Seal

Date:

डी.एस. परिहार
मुख्य वैज्ञानिक अधिकारी

RSPCB

2025-26



- bid document in every respect will be at the bidder's risk and may result in the rejection of its bid.
14. Documents, literature, diagrams, leaflets, original catalogue, specifications of equipment and samples if any etc., enclosed with the bids shall become the property of the Board without any cost.
 15. The prices should be quoted both in words and figures.
 16. Bidder shall provide link of website for cross verifying the submitted specifications. If it is found that provided website or provided specifications are tempered then bidder shall be debarred for a period of six months.
 17. At any time, prior to the deadline for submission of bids, the buyer may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bidding documents by an amendment.
 18. **The authorized agent/dealer/supplier/Representative should have agency/partnership/ participation or collaboration with their principal foreign/Indian manufacturer.** The documentary proof of such agency / authorization/ MOU should be submitted along with the technical part. If the bid of the firm does not contain the proof of such nomination/authorization, Indian agent will be rejected.
 19. The list of instruments/equipment, their approximate quantity and point of delivery are given at **Annexure-V** and the detailed specifications of the instrument are given in the technical Bid Format (**Annexure-II**) The quantity mentioned in the bid document may be increased or decreased at the discretion of the Competent Authority in the Board without assigning any reason.
 20. The items have to be supplied in standard packing. The supplier will be held liable for any damage, theft or loss during transit. The instruments are to be dispatched to the respective places directly and to be installed there, by the supplier under intimation to **CSO/GIC-STORE, RSPCB, 4- Institutional Area, Jhalana Doongari, Jaipur.**
 21. RSPCB can do pre-delivery/dispatch inspection of quoted item.
 22. The bidder shall be responsible for the proper packing so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good condition such loss and shortage found at the checking/inspection of the materials by the consignee. "No extra cost" on such account shall be admissible.
 23. The Bidders are requested to quote the rates item-wise for each equipment on F.O.R. destination basis including total price of each instrument including 05 years warranty and 03 years CAMC charges with calibration FROM NABL ACCREDITATED LAB OF EACH INSTRUMENT during 08 years (Warranty and CAMC period) AND separately

Signature of Bidder with Seal
Date:

व.एस.परिहार
मुख्य वैज्ञानिक अधिकारी
Page 12 of 141

RSPCB
2025-26



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- indicating the Govt. levies and other expenditure item-wise. The freight charges and insurance charges will be borne by the supplier in both cases of imported items and Indian goods. For indigenous items supplied by Indian firms, the rate should be F.O.R. Central /Regional laboratories of RSPCB.
24. The bidder will give the undertaking (**Annexure - X**) that he or his authorized dealer will service / repair the equipment during the warranty and CAMC period of 08 years.
 25. Uploaded documents of valid successful Bidders will be verified with the original before signing the agreement, to be submitted prior to the date and time for Bid submission is specified herein.
 26. Bid(s) once submitted online cannot be resubmitted or withdrawn.
 27. Conditional Bids, Bids without payment of EMD and Bids not meeting the qualifying criteria on the date of receipt of Bids shall be summarily rejected.
 28. Corrigendum/Addendum, if any, will be published on the website <https://www.eproc.rajasthan.gov.in> itself.
 29. Member Secretary, Rajasthan Pollution Control Board i.e., Procuring Entity reserves the sole right to cancel the bid process and reject any or all of the bids without assigning any reason
 30. Bid EMD and BOQ should be submitted separately for each quoted equipment.

वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

Signature of Bidder with Seal
Date:

RSPCB
2025-26



1.0 ELIGIBILITY CRITERIA:

A bidder participating in the procurement process shall possess the following minimum pre-eligibility criteria.

S. No.	Basic Requirement	Specific Requirements	Documents Required
1.	Legal Entity	The bidder should be a Proprietorship firm duly registered either under the Rajasthan Shops & Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement. (Note: A self-certified declaration regarding the non-applicability of registration to any Act should be submitted by the bidder) OR A company registered under Indian Companies Act, 1956 OR A partnership firm registered under Indian Partnership Act, 1932.	- Copy of valid Registration Certificates In case of company, - Copy of Certificates of incorporation - Copy of Bidders Certificates of IEC, ISO, MSME.
2.	Financial Turnover	Average Annual Turnover of the bidder from IT/ITeS during the last three financial years, i.e., 2021-22, 2022-23 and 2023-24 (as per the last published audited balance sheets), should be at least Rs. 5.0 Cr. (FIVE Crore only).	CA Certificate with CA's UDIN No. for Net Worth
3.	Financial: Net Worth	The net worth of the bidder in the last three financial years, i.e. 2021-22, 2022-23 and 2023-24, should be Positive.	CA Certificate with CA's UDIN No. for net worth.
4.	Technical Capability	The bidder/manufacturer must have executed successful supply and installations of same/equivalent make and model of the instrument having at least 50% of quantity of instrument quoted in this tender during last three financial years i.e. 2022-23, 23-24 and 2024-25 in INDIA. & enclose the certified copy of purchase order along with satisfactory working certificate of equipment issued by the	Copy of Purchase Order/Work order along with satisfactory working certificate

Signature of Bidder with Seal
 Date:

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 वी.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी
 Page 14 of 141

RSPCB
2025-26



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 Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



S. No.	Basic Requirement	Specific Requirements	Documents Required
		purchaser.	
5.	Tax registration and clearance	The bidder should have a valid registered number of i. GST where his business is located ii. Income Tax / PAN/TIN The bidder should have cleared his previous GST dues if any, to the Government.	Copies of relevant certificates of registration issued by the competent authority.
6.	Mandatory Undertaking	Bidder should: - a) not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons; b) not have, and their directors and officers not have, been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings; c) not have been blacklisted by any Government department/PSU or under a declaration of ineligibility for fraudulent or corrupt practices or inefficient/ineffective performance. d) Not have a conflict of interest in the procurement in question as specified in the bidding document.	A Self Certified letter as per Annexure VIII Self-Declaration

Signature of Bidder with Seal
 Date:

वो.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी

RSPCB
 2025-26



S. No.	Basic Requirement	Specific Requirements	Documents Required
		e) Comply with the code of integrity as specified in the bidding document.	
7.	Service Support Centre	Manufacturer or its authorized dealer in India should have at least <u>one</u> service support center with valid documentary proof /workshop/ competent service engineer for repairing/calibration of the same equipment in Rajasthan region.	Details / Undertaking for setting up Service Support Centers in India as per Annexure X
8.	Mandatory Undertaking/ Authorization/ Declaration	As per Tender Document	Annexure are available in tender Document
9.	Demonstration of instrument at RSPCB	The bidder has to give demonstration of the instrument/instruments quoted by him as per the technical specifications required by RSPCB at Head Office, RSPCB, Jaipur before opening of financial bid. For the same prior intimation will be given and if Bidder fails to demonstrate the quoted instrument in the given time line the decision of the technical committee shall be final. After demonstration of the instrument the decision of the technical committee shall be firm and final	Final recommendation of the technical committee shall be firm and final.

2. SCOPE OF WORK, DELIVERABLES & TIMELINES:

The selected bidder shall be required to supply, install and commission ordered items and to provide maintenance, repair and change of spare parts (except consumables) services during the comprehensive warranty period of five years and CAMC period of 03 years for each quoted instruments at the various delivery destinations (Central Laboratory and Regional Offices of RSPCB) as specified in **'Annexure-V AND VI**.

1) DETAILS OF WORK:

The successful commissioning of the quoted instruments requires the bidder to provide quality & timely services. The bidders are strongly advised to carefully read the Scope of Work. The

Signature of Bidder with Seal

Date:


 वी.एस.परिहार
 मुख्य वैज्ञानिक

RSPCB
 2025-26



broad scope of work for the bidder during the period of contract/ engagement would include the following:-

i. INSTALLATION, COMMISSIONING AND MAINTENANCE:

The installation and commissioning of the instruments is the entire responsibility of the supplier. **It must be done either by the principal supplier or their authorized dealer within 60 days from the date of purchase order.** The supplier or their authorized dealer should be in touch with the **CSO/GIC-STORE, RSPCB, Jaipur** to know the exact day of receipt of stores supplied/ dispatched by them.

- i. A period of 60 days will be allowed for delivery of equipment from the date of issue of purchase order in the case of Indian manufacturers/suppliers. In case of delay in delivery (including installation and commissioning) the liquidated damages will be levied from successful bidder as per clause no. 55 (d) of this document.
- ii. Bidder has to provide demonstration during installation and commissioning on operation and maintenance of the instrument/ equipment to Board Officials of respective Central Laboratory and Regional laboratories without any additional charges.

ii. ACTIVITY, DELIVERABLES & TIMELINES:

The milestones, deliverables and time schedule for the implementation of the title procurement would be as follows: -

- i. The time specified for delivery and other activities as mentioned in the table below shall be deemed to be the essence of the contract and the bidder shall arrange supplies and provide the required services within the specified period.
- ii. "T" is the event marking RSPCB issuing the work/purchase order to the selected bidder:-

S. No.	Milestone/ Phase	Deliverables	Timelines (T=Date of WO)/PO
1.	Supply, installation and commissioning of quoted items and to provide maintenance and repair services.	a. Delivery Challan for quoted items b. Installation Report c. Warranty Certificates d. Calibration Certificates (from NPL/NABL certified laboratory) e. Operational Manual and Troubleshooting guide.	T+60 days
2.	Installation Commissioning and Demonstration/training		Within 60 days from releasing purchase

Signature of Bidder with Seal
 Date:

वी.एस.परिवार
 मुख्य वैज्ञानिक अधिकारी

RSPCB
 2025-26



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of Instruments at the specified locations of Instruments.	order.
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3.0 BIDDING PROCESS (Instructions to bidders, *Availability of Bidding Document, Submission of Bid*):

- Rajasthan Pollution Control Board has adopted online double stage two parts process involving Technical Bid and Financial Bids for selection of the Bidder for award of the Project (collectively referred to as the —Bidding Process). The first part involves technical qualification and short listing of the qualified Bidders who become eligible for opening of their Financial Bids.
- The bid document shall be uploaded on the e-procurement portal, along with the Notice Inviting Bids, <http://eproc.rajasthan.gov.in>, <https://sppp.rajasthan.gov.in>, <http://www.environment.rajasthan.gov.in>. However, bid is to be submitted only through the website <http://eproc.rajasthan.gov.in>. The prospective Bidders may download the tender document from the portal. The price of the tender document, bid security and processing fee of e-bid shall have to be paid to Procuring Entity in the amount and manner as specified herein and e-procurement portal.
- Rajasthan Pollution Control Board is not responsible for the completeness of the Bidding Document and its addenda, if they were not downloaded correctly from the e-procurement portal/the State Public Procurement Portal or www.environment.rajasthan.gov.in.
- The Bidder is expected to examine all instructions, forms, terms and specifications in the tender Document. Failure to furnish all information or authentic documentation required by the Bidding Document may result in the rejection of the Bid.
- All the documents uploaded should be digitally signed with the DSC of authorized signatory.**
- The technical bid shall consist of the following documents: -

S. No.	Documents Type	Document Format
Fee Details		
1.	Bidding document Fee (Tender Fee)	Proof of submission (in PDF format only)
2.	RISL Processing Fee (e-Procurement)	Instrument/ Proof of submission (in PDF format only)
3.	EMD	Instrument/ Proof of submission (in PDF format only)
Eligibility Documents		
4.	Application form/Checklist	As per Annexure-I (in PDF format)

Signature of Bidder with Seal
Date:

वी.एस.परिहार
Page 18 of 141

RSPCB
2025-26



		only)
5.	Bidder's Authorization Certificate	As per Annexure-IX (in PDF format only) along with copy of PoA/ Board resolution stating that Auth. Signatory can sign the bid on behalf of the firm.
6.	All the documents mentioned in the "Eligibility Criteria", in support of the eligibility	As per the format mentioned against the respective Pre-Qualification eligibility criteria clause (in PDF format only)
Technical Documents		
7.	Technical Bid form to be submitted by the Bidder along with product brochure of quoted make and model.	As per Annexure-II (in PDF format only).
8.	Certificate of Conformity/ No Deviation with respect to technical specifications compliance sheet for quoted instruments /items.	As per Annexure - III (in PDF format only)
9.	Declaration by Bidders	As per Annexure-VIII (in PDF format only)
10.	Manufacturer's Authorization Form (MAF)	As per Annexure-IX (Indicative Format) (in PDF format only)
11.	Bidders undertaking	As per Annexure-VII (in PDF format only)
12.	Undertaking on Authenticity of Equip. by manufacturer	As per Annexure-X (in PDF format only)
13.	Components Offered + Technical specifications compliance sheet for all items only on Bidder's Letter Head	As per Annexure-II AND III (in PDF format only)

4A. TECHNICAL BID:

Scanned copies of the required documents and information as per this bid document should be attached in the Technical Bid. The bid shall remain valid for a period of 120 days from the last date of receipt of opening of Technical Bids It must contain the following documents:

- The manufacturer will give the undertaking (**Annexure-X**) that he or his authorized dealer will service/repair/calibration the equipment during guaranty/ warranty/maintenance contract period.

Signature of Bidder with Seal

Date:


 वी.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी
 Page 19 of 141

RSPCB
 2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in,
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- In case of authorized distributor, scanned copy of authorization certificate from principal manufacturer (with period of validity) as per **Annexure IX** and in case of manufacturer, shall submit a copy of self-declaration along with manufacturer registration certificate (DIC) with ISO 9001:2015.
- Turnover of three years should be average rupees five crore and bidder shall submit the turn over certificate/ITR return/balance sheet of last three years signed by Chartered Accountant with UDIN number or balance sheet duly verified by CA
- Bidder shall submit scanned copy of Registration certificate of GST (Goods & Service Tax) and latest copy of GST return.
- The duly scanned copies of all the documents which are part of technical bid shall be uploaded on <http://eproc.rajasthan.gov.in>.
- The prospective bidders may seek clarifications regarding the tender document, terms and conditions on or before clarification end date on the email id: nmlmc.rpcb@gmail.com.
- In case, any of the above said documents are found missing on the website, the tender of such agency shall be summarily rejected.
- The bidder should be a legal entity and must be a registered company/firm incorporated in India. Copies of incorporation certificate shall be enclosed.
- The bidders shall submit their eligibility and qualification details, technical bid, financial bid etc., in the online standard formats given in e-Procurement web site only. The bidders shall upload the scanned copies of all the relevant certificates, documents etc. in support of their eligibility criteria/technical bids and other certificate/ documents through the e-Procurement web site. The bidder shall digitally sign on the supporting statements, documents and certificates uploaded by him, owning responsibility for their correctness/authenticity.
- Bidder or their authorized representatives should have adequate financial and technical capability to execute the contract.
- The bidder is expected to examine all instructions, forms, terms and conditions and specifications mentioned in the bid document carefully. Failure to furnish all information required in the bid documents or submission of a bid not substantially responsive to the bid document in every respect will be at the bidder's risk and may result in the rejection of the bid.

B. FINANCIAL BID: -

(a) Financial bid shall include the following documents: -

S. No.	Documents Type	Document Format
1.	Financial Bid - Format	As per BoQ (.XLS) format as per Annexure-IV available on e-Procurement portal.

Signature of Bidder with Seal

Date:

वी.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



- (b) The bidder should ensure that all the required documents, as mentioned in this bidding document, are submitted along with the Bid and in the prescribed format only. Non-submission of the required documents or submission of the documents in a different format/ content may lead to the rejections of the Bid submitted by the bidder.
- (c) Bidder shall provide the BoQ of financial bid including 05 years warranty and the comprehensive maintenance contract for (36 months) 03 YEARS) as per **annexure IV WHICH WILL ALSO INCLUDE 08 YEARS CALIBRATION OF THE INSTRUMENT BY NABL LAB ON YEARLY BASIS.**
- (d) The financial bid should be submitted online in BoQ (in .XLS/.XLSX format only), otherwise financial bid will not be considered.

(e) Pre-bid Meeting/ Clarifications

There will be pre-bid meeting if required.

1) Changes in the Bidding Document

- At any time, prior to the deadline for submission of Bids, the procuring entity may for any reason, whether on its own initiative or as a result of a request for clarification by a bidder, modify the bidding documents by issuing an addendum in accordance with the provisions below.
- In case, any modification is made to the bidding document or any clarification is issued which materially affects the terms contained in the bidding document, the procuring entity shall publish such modification or clarification in the same manner as the publication of the initial bidding document.
- In case, a clarification or modification is issued to the bidding document, the procuring entity may, prior to the last date for submission of Bids, extend such time limit in order to allow the bidders sufficient time to take into account the clarification or modification, as the case may be, while submitting their Bids.
- Any bidder, who has submitted his Bid in response to the original invitation, shall have the opportunity to modify or re-submit it, as the case may be, within the period of time originally allotted or such extended time as may be allowed for submission of Bids, when changes are made to the bidding document by the procuring entity:
Provided that the Bid last submitted or the Bid as modified by the bidder shall be considered for evaluation.

2) Period of Validity of Bids

- The validity of Bid would be for a minimum period of 120 (One Twenty) days from the date of opening of Technical Bids.
- A Bid valid for a shorter period shall be rejected by the procuring entity as non-responsive Bid.
- Prior to the expiry of the period of validity of Bids, the procuring entity, in exceptional circumstances, may request the bidders to extend the bid validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of Bid and in such circumstances bid security shall not be forfeited.

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैधानिक अधिकारी
Page 21 of 141

RSPCB
2025-26



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E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



- Bidders that agree to an extension of the period of validity of their Bids shall extend or get extended the period of validity of bid securities submitted by them or submit new bid securities to cover the extended period of validity of their bids. A bidder whose bid security is not extended, or that has not submitted a new bid security, is considered to have refused the request to extend the period of validity of its Bid.

5.0 TERMS AND CONDITIONS

- 5.1 The documentary proof of such agency ship/ authorization/MOU shall be submitted along with the technical bid. If the bid of the firm does not contain the proof of such nomination/authorization, bid will be rejected.
- 5.2 Bid is to be addressed to **Member Secretary, RSPCB, Jaipur.**
- 5.3 This tender is an e-tender; Tender must be fill up online according to the directions given in the tender notice/tender document.
- 5.4 Only bidder or their one authorized dealer will be allowed to be present at the time of opening of tender.
- 5.5 No refund of tender form fee and tender processing fee shall be made for tender/s not accepted, returned or submitted.
- 5.6 All rates (including GST) must be quoted F.O.R. **Central Laboratory, Jaipur & Regional Laboratories (Alwar, Bhiwadi, Bharatpur, Bundi, Bikaner, Bhilwara, Kishangarh, Chittorgarh, Udaipur, Kota, Sikar, Balotra, Pali, Jodhpur, Jhalawar, Rajsamand, Sirohi, Hanumangarh, Banswra, Nagaur, Jhunjhunu, Jaipur (South) Jaisalmer, Sawai Madhopur).** Cartage/unloading charges will not be paid to supplier by RSPCB.
- 5.7 The RSPCB reserve the right to withdraw tender at any stage.
- 5.8 The counter terms & conditions will not be accepted and as such no additions/ deletions or alternate in the tender form should be done. In such case bid document may be liable to reject.
- 5.9 The approved supplier shall not assign or sub-let his contract or any substantial part there-off to any other agency.
- 5.10 The manufacturer or approved dealer shall deem to have carefully examined/understand the terms & conditions of the tender document, specifications, designs, make etc. of the instruments to be supplied. In case, any doubts as to the meaning of any portion of these terms & conditions, specifications etc. he/she shall before filling the tender document and signing the contract agreement may refer to the **CSO, RSPCB, Jaipur** and get clarifications.

Signature of Bidder with Seal
Date:


वी.एस.परिहार
मुख्य वैज्ञानिक

RSPCB
2025-26



Rajasthan State Pollution Control Board

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Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



- 5.11 Instruments shall be delivered to the consignee lab on F.O.R. Basis, within the stipulated time given in supply order. In case of non-compliance Liquidity Damages/Risk & Cost Clause shall apply.
- 5.12 Any damage/faults to the instrument during transportation shall be on the manufactures or approved suppliers account and have to be replaced without any further levies of charges.
- 5.13 It may be noted that mere quoting lowest rates will not entitle any firm to get the order. For qualifying in the technical bid, the quality of the item being offered, the past performance, past service experience supply etc. will also be taken into consideration. The Board may call for any details, explanation, regarding technical & financial aspect.
- 5.14 In case of the instruments are not of the approved specifications, design or make used for the job are supplied, the same will be rejected on supplier cost. The rejected articles must be removed by the supplier at his cost from the site within 15 days-time of the information of the rejection.
- 5.15 It is not essential for a bidder to quote prices for all instruments. The interested bidder can quote prices selectively for the instruments in which the firm deals, accordingly.
- 5.16 The bidder should sign the tender form at each page at the end in token of the acceptance of all the terms & conditions of the tender.
- 5.17 The RSPCB reserve the right to accept any bid, not necessarily the lowest bid and reject any bid in whole or part without assigning any reason thereof. Order can be placed for whole or part of the job to the bidder at the absolute discretion of the RSPCB.
- 5.18 The Procurement Committee of RSPCB has the right to split the tender between more than one bidder.
- 5.19 Conditional offers will not be considered.
- 5.20 Any discrepancy in filling the bid/ incomplete tender form shall make the bid liable to be rejected. No overwriting should be done.
- 5.21 In all cases of disputes, the first appellant authority is Member Secretary and the second appellant authority is Chairperson. The decision of the **Chairman, RSPCB, Jaipur** shall be binding on all parties.
- 5.22 **Demonstration shall be taken of the instruments/equipment on the basis of the technical specifications as per asked in tender document before opening of financial bid and decision of the technical committee shall be firm and final. If the bidder fails to demonstrate the quoted model in given time line the decision of the technical committee shall be final.**
- 5.23 **WARRANTY(including CAMC during warranty):** The comprehensive warranty period will be for sixty months (05 years) starting from the date of successful commissioning of the instrument. Under this warranty, upon the receipt of such notice,

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

Page 23 of 141

RSPCB

2025-26



supplier/agent shall, within the seven working days specified, repair /replace the defective instrument or spare parts thereof at the ultimate destination from the date of issuing the request letter for repairing. The supplier/agent shall take over the replaced parts/goods, in the event of any correction of defects or replacement of defective material. In such cases, the warranty for the corrected/replaced materials shall be extended to the left-over period of warranty. The comprehensive warranty includes maintenance/service/repair/replace of equipment including spare parts, service charges etc except consumables. **During Warranty period, supplier is required to provide annual calibration certificates of each instruments supplied, from NABL Accredited Laboratories without any cost.**

- 5.24 If bidder does not repair the instrument within specified period (i.e. 07 working days) and fails to recommission the instrument a penalty **will be charged by RSPCB @ Rs.1,000/- (in words Rupees One Thousand only) per day in first instance at any place. If, not repaired still or faults persists the instruments shall be replaced by a new instrument by the supplier, else the Board may take steps to replace the instruments and recover its cost from the performance security deposit submitted.**
- 5.25 The specifications are clearly mentioned in the document and the Bidder is requested to submit Bid only if their offer strictly complies with specifications. The bidding for the instruments having different specification will be on Bidder's risk as the Board will not entertain such bids. Bids carrying the statement like "specification as per tender document" shall not be entertained. The product specifications supported by technical literature and list of users must be enclosed with **Annexure II**.
- 5.26 The placement of work order/purchase order will be according to technical evaluation of the tender and after consideration of its price worthiness.
- 5.27 The price to be quoted/given in the tender are fixed prices, irrespective of rise in Materials prices etc., till the delivery of the overall consignment. No request regarding increase in the price of instruments etc., will be entertained after the submission of the tender.
- 5.28 The nomenclature of the instruments and spares will be invariably same in Pro-forma Invoice, Invoice, packing list and all other relevant papers in case the Bidder is awarded with the purchase order for supply against its offer.
- 5.29 If the instrument supplied is not in conformity with the specification asked for, it will have to be replaced at the risk and cost of the supplier. No freight and other charges for export and re-shipment will be paid by the Board.
- 5.30 "Supply, Installation, Testing, Demonstration, Commissioning and training of Instruments "within Rajasthan (HQ, Jaipur & Delivery destination) as specified in the bid document is **the entire responsibility of the supplier. It must be completed within 60 days from the date of issue of purchase order. In case of delay in delivery the**

Signature of Bidder with Seal
Date:

RSPCB
2025-26



liquidated damages will be levied as per Para no. 55(d) from successful bidder. The supplier or their authorized agent shall be in touch with the Board to know the exact day of receipt of stores supplied/ dispatched by them.

5.31 The equipment/quantity of instrument's/equipment's and point of delivery is given at **Annexure-V** and the detailed specification of the instruments are given at **annexure-II**. The quantity mentioned in the tender document may be increased or decreased at the discretion of the Competent Authority in the Board without assigning any reason.

5.32 Bidder has to provide demonstration on operation to Board Officials of laboratory without any additional charges

5.33 Comprehensive Annual Maintenance Contract: For 03 years


- (i) After sales service is most important to be considered for comparison of the bids. Bid of those firms who do not have Indian/Local Agents to provide after sales service during warranty period will not be considered. After sales service must be provided at the premises of the Laboratory/Offices of RSPCB, by the manufacturer or authorized service provider. The instrument will not be sent to the service provider for repair.
- (ii) The Bidder has to provide calibration of each Laboratory equipment (as applicable) for next 03 years which must be provided at the premises of the Laboratory/offices of RSPCB without any additional charges from NABL certified laboratory.
- (iii) At the time of goods delivery, the selected bidder shall submit a certificate/ undertaking from all the respective OEMs mentioning the fact that the goods supplied are covered under comprehensive warranty & support (CAMC) for the prescribed period of 3years.
- (iv) The purchaser shall give a written notice to the selected bidder stating the nature of any defect together with all available evidence thereof, promptly following the discovery thereof. Under this warranty, upon the receipt of such notice, supplier / agent shall, within the three working days/ specified time, repair /replace the defective instrument or spare parts thereof at the ultimate destination from the date of issue of request letter for repairing. The selected bidder shall expeditiously cause to repair the defective goods or parts thereof or replace the defective goods or parts thereof with brand new genuine/ authentic ones having similar or higher specifications from the respective OEM, at no cost to the Purchaser. Any goods repaired or replaced by the selected bidder shall be delivered at the respective location without any additional costs to the purchaser. The supplier/agent shall take over the replaced parts/goods, in the event of any correction of defects or replacement of defective material. In such cases, the warranty for the corrected/replaced materials shall be extended to the left over period of warranty.
- (v) During the warranty period, the bidder shall also be responsible to ensure adequate and timely availability of spare parts needed for repairing/replacement of the supplied goods.
- (vi) The comprehensive warranty includes maintenance of equipments including spare parts service and service charges etc. except consumables.
- (vii)

6.0 EARNST MONEY DEPOSIT:

Every bidder, if not exempted, participating in the procurement process will be required to furnish the bid security as specified in the NIB.

Signature of Bidder with Seal

Date:


वी.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी

RSPCB
 2025-26



- (a) Bid security instrument or receipt of bid security or a bid securing declaration shall necessarily accompany the technical bid.
- (b) The bid security is to be given in the form of demand draft in physical form, bidders are also allowed to online transfer these amounts in RSPCB's Bank Account as per given details
- Exemption/ Partial Exemption from Payment of Bid Security:** Normally bid security will be taken 2% of the estimated cost of the items. The exemption in the bid security will be given as per RTPP Rules-2013 mainly.
 - Bid Security will not be taken from the Undertakings, Corporations, Autonomous bodies, Registered Societies, Co-operative Societies which are controlled/ managed by Government, Govt. Undertakings and Companies of Union Government and Government of Rajasthan.
 - In lieu of bid security, a bid securing declaration shall be taken from Departments of the State Government, Undertakings, Corporations, Autonomous bodies, Registered Societies and Cooperative Societies which are owned or controlled or managed by the State Government and Government Undertakings of the Central Government.
 - Bid Security will be taken @ 0.50% of the value of the quantity offered for supply by the S.S.I. and MSME Units of Rajasthan. They will furnish original or Photostat copy, duly attested by Gazetted Officer, of the Registration of SSI Unit issued by the Director of Industries in respect of the stores for which they are registered.
 - Bid Security will be taken @ 1.00% of the value of the bid from the Sick Industries (other than S.S.I.). Sickness certificate issued by competent authority should be enclosed along with bid document.
- (c) Bid security of a bidder lying with the procuring entity in respect of other bids awaiting decision shall not be adjusted towards bid security for the fresh bids. The bid security originally deposited may, however, be taken into consideration in case bids are re-invited.
- (d) The bid security must remain valid thirty days beyond the original or extended validity period of the bid.
- (e) The issuer of the bid security and the confirmer, if any, of the bid security, as well as the form and terms of the bid security, must be acceptable to the procuring entity.
- (f) Prior to presenting a submission, a bidder may request the procuring entity to confirm the acceptability of proposed issuer of a bid security or of a proposed confirmer, if required. The procuring entity shall respond promptly to such a request.
- (g) The bid security of unsuccessful bidders shall be refunded/ returned without any interest soon after final acceptance of successful bid and signing of Agreement and submitting performance security by successful bidder and in case of the successful bidder, the amount of bid security (without interest) may be adjusted in arriving at the amount of the

Signature of Bidder with Seal

Date:


व.एस.परिहार
मुख्य वैज्ञानिक अधिकारी
Page 26 of 141

RSPCB
2025-26



Performance Security upon request of successful bidder, or refunded if the successful bidder furnishes the full amount of performance security.

- (h) The Bid security taken from a bidder shall be forfeited, including the interest, if any, in the following cases, namely: -
- when the bidder withdraws or modifies its bid after opening of bids;
 - when the bidder does not execute the agreement, if any, after placement of supply/ work order within the specified period;
 - when the bidder fails to commence the supply of the goods or service or execute work as per supply/ work order within the time specified;
 - when the bidder does not deposit the performance security within specified period after the supply/ work order is placed; and
 - if the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
- (i) Notice will be given to the bidder with reasonable time before bid security deposited is forfeited.
- (j) No interest shall be payable on the bid security.
- (k) The procuring entity shall promptly return the bid security after the earliest of the following events, namely: -
- the expiry of validity of bid security;
 - the execution of agreement for procurement and performance security is furnished by the successful bidder;
 - the cancellation of the procurement process; or
 - the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.

- 6.1 No interest shall be payable on the EMD.
- 6.2 The EMD will be refunded to the unsuccessful bidder within three months of the final acceptance of the bid. However, the EMD of the successful bidder will be adjusted in the security deposit.
- 6.3 Remittance on movement made to the firm will be borne by the supplier.
- 6.4 Request for adjustment of any other amount lying with RSPCB will not be considered.
- 6.5 The EMD will be forfeited if the bidder modifies/withdraws the offer during the validity period from the date of bid submission.
- 6.6 In case successful bidder fails to deposit the balance security deposit, the deposited EMD will be forfeited.

7.0 SECURITY DEPOSIT/ PERFORMANCE SECURITY:

Signature of Bidder with Seal
Date:


वी.एस.परिहार
मुख्य निदेशिका
Page 27 of 141

RSPCB
2025-26



- 7.1 The EMD deposited by successful bidder will be transferred to security deposit. Whereas successful bidder has to deposit the balance security deposit i.e. 5% of the quantity offered for supply by the bidder within 10 days from date of award of tender.
- 7.2 No interest shall be payable on security deposit.
- 7.3 In case successful bidder fails to execute the agreement in given time/fail to supply the instruments even after 30 days from delivery period, the bid security money will be forfeited.
- 7.4 The deposited security money will be refunded after two months of expiry of the guarantee/warranty period to the manufacturer or supplier after only on submission of **"no dues certificate from the competent authority of RSPCB"**. The security deposit shall be refunded after making all sort of deductions due from the manufacturer or supplier pertaining to delays, short supply, breach of contract and such other losses thus sustained etc.
- (a) EXEMPTION/ PARTIAL EXEMPTION FROM PAYMENT OF PERFORMANCE SECURITY (Exemption is applied on the basis of finance (G&T) department, GoR.
- a. Performance Security will not be taken from the Undertakings, Corporations, Autonomous bodies, Registered Societies, Co-operative Societies which are controlled/ managed by Government, Govt. Undertakings and Companies of Union Government and Government of Rajasthan. However, a performance security declaration shall be taken from them.
- b. Performance security will be taken @ 1.0% from SSI units of the amount of supply order to be supplied valid certificates to be attached and 2.0% of the amount of supply order to be supplied by the Sick Industries (other than S.S.I.). Sickness certificate issued by competent authority should be enclosed along with bid document.
- c. Firms registered with the Director of Industries Rajasthan (MSME) in respect of stores for which they are registered, subject to their furnishing the registration in original from the Director of Industries or a Photostat copy or a copy thereof duly attested by any Gazetted Officer will be partially exempted from Performance Security (19/11/15 notification) and shall pay Performance Security at the rate of 1 % of the amount of supply order to be supplied.
- (b) Performance security shall be furnished in any one of the following forms: -
- i. Bank Draft or Banker's Cheque of a scheduled bank;
- ii. National Savings Certificates and any other script/ instrument under National Savings Schemes for promotion of small savings issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted

Signature of Bidder with Seal

Date:


वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



- at their surrender value at the time of bid and formally transferred in the name of procuring entity with the approval of Head Post Master;
- iii. Bank guarantee/s of a scheduled bank. It shall be got verified from the issuing bank. Other conditions regarding bank guarantee shall be same as mentioned in the bidding document for bid security;
- iv. Fixed Deposit Receipt (FDR) of a scheduled bank. It shall be in the name of procuring entity on account of bidder and discharged by the bidder in advance. The procuring entity shall ensure before accepting the FDR that the bidder furnishes an undertaking from the bank to make payment/premature payment of the FDR on demand to the procuring entity without requirement of consent of the bidder concerned. In the event of forfeiture of the performance security, the Fixed Deposit shall be forfeited along with interest earned on such Fixed Deposit.
- (c) Performance security furnished in the form specified in clause [a.] to [d.] of (d) above shall remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the bidder, including warranty obligations and maintenance and defect liability period.
- (d) Forfeiture of Security Deposit: Security amount in full or part may be forfeited, including interest, if any, in the following cases: -
- When any terms and condition of the contract is breached.
 - When the bidder fails to make complete supply satisfactorily.
 - In case, the instrument supplied is found defective and not attended by the supplier /authorized agent.
 - If the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
 - If the bidder failed to provide satisfactory services during warranty period.
- (e) Notice will be given to the bidder with reasonable time before PSD deposited is forfeited.

8.0 Additional Performance Security:-

Additional Performance Security.- (1) In addition to Performance Security as specified in rule 75, an Additional Performance Security shall also be taken from the successful bidder in case of unbalanced bid. The Additional Performance Security shall be equal to **fifty percent of Unbalanced Bid Amount**. The Additional Performance Security shall be deposited in lump sum by the successful bidder before execution of Agreement. The Additional Performance Security shall be deposited through e-Grass, Demand Draft, Banker's Cheque, Government Securities 9 [Bank guarantee or electronic bank guarantee (e-BG)].

Signature of Bidder with Seal

Date:


वी.एस.पटिल
मुख्य वैज्ञानिक

RSPCB
2025-26



(2) The Additional Performance Security shall be refunded to the contractor after satisfactory completion of the entire work. The Additional Performance Security shall be forfeited by the Procuring Entity when work is not completed within stipulated period by the supplier.

9.0 COST & LANGUAGE OF BIDDING:

- (a) The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the procuring entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- (b) The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the procuring entity, shall be written only in English Language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English/ Hindi language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

1.0 ALTERNATIVE/ MULTIPLE BIDS:

Alternative/ Multiple Bids shall not be considered at all. Also, the bidder shall not quote for multiple brands/ make/ models but only one in the technical Bid and should also mention the details of the quoted make/ model and submit the brochure also.

10.0 DEADLINE FOR THE SUBMISSION OF BIDS:

- (a) Bids shall be received online at e-Procurement portal and up to the time and date specified in the NIB.
- (b) Normally, the date of submission and opening of Bids would not be extended. In exceptional circumstances or when the bidding document are required to be substantially modified as a result of discussions in pre-bid meeting/ conference or otherwise and the time with the prospective bidders for preparation of Bids appears insufficient, the date may be extended by the procuring entity. In such case the publicity of extended time and date shall be given in the manner, as was given at the time of issuing the original NIB and shall also be placed on the State Public Procurement Portal, if applicable. It would be ensured that after issue of corrigendum, reasonable time is available to the bidders for preparation and submission of their Bids. The procuring entity shall also publish such modifications in the bidding document in the same manner as the publication of initial bidding document. If, in the office of the Bids receiving and opening authority, the last date of submission or opening of Bids is a non-working day, the Bids shall be received or opened on the next working day.

Signature of Bidder with Seal

Date:

वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

RSPCB

2025-26



11.0 WITHDRAWAL, SUBSTITUTION, AND MODIFICATION OF BIDS:

- If permitted on e-Procurement portal, a Bidder may withdraw its Bid or re-submit its Bid (technical and/ or financial cover) as per the instructions/ procedure mentioned at e-Procurement website under the section "Bidder's Manual Kit".
- Bids withdrawn shall not be opened and processes further.
- No bid shall be withdrawn, substituted, or modified after the due time and date fixed for receipt of bids.

12.0 OPENING OF BID:

- The Bids shall be opened by the Bid Opening & Bid Evaluation Committee on the date and time mentioned in the notice inviting bid in the presence of the bidders or their authorized representatives who choose to be present.
- The committee may co-opt experienced persons in the committee to conduct the process of Bid Opening.
- The committee shall prepare a list of the bidders or their representatives attending the opening of Bids and obtain their signatures on the same. The list shall also contain the representative's name, e-mail, telephone number of corresponding bidders' name and address. The authority letter, if any, brought by the representatives shall be attached to the list. The list shall be signed by all the members of Bid Opening Committee with date and time of opening of the Bids.
- The committee shall conduct a preliminary scrutiny of the opened technical Bids to assess the prima-facie responsiveness and ensure that the:-
 - ✓ bid is accompanied by bidding document fee, Bid Security and processing fee;
 - ✓ bid is valid for the period, specified in the bidding document;
 - ✓ bid is unconditional and the bidder has agreed to give the required performance security;
 - ✓ other conditions, as specified in the bidding document are fulfilled; and
 - ✓ Any other information which the committee may consider appropriate.
- No Bid shall be rejected at the time of Bid opening except the Bids not accompanied with the proof of payment or instrument of the required price of bidding document, processing fee and Bid Security.
- The Bid would be regarded as turned down, if no award of contract has been obtained till the expiry of the Bid validity. No separate communication will be made in this regard.
- In case of the date of submission and the date of opening of Bid is declared as Public Holiday, the Bid shall be submitted and opened on the next working day at the same time.

LATE AND DELAYED BIDS WILL NOT BE CONSIDERED.

Signature of Bidder with Seal

Date:


वी.एस.परितार
मुख्य वैज्ञानिक अधिकारी

Page 31 of 141

RSPCB
2025-26



13.0 CLARIFICATION OF BIDS:

- To assist in the examination, evaluation, comparison and qualification of the Bids, the bid evaluation committee may, at its discretion, ask any bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the bidder shall be through the e-Procurement portal.
- Any clarification submitted by a bidder with regard to its Bid that is not in response to a request by the committee shall not be considered.
- No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the committee in the evaluation of the financial Bids.
- No substantive change to qualification information or to a submission, including changes aimed at making an unqualified bidder, qualified or an unresponsive submission, responsive shall be sought, offered or permitted.

14.0 SELECTION METHOD:

The selection method is technically responsive followed by lowest financially evaluated bid based on BoQ.

15.0 EVALUATION & TABULATION OF TECHNICAL BIDS:

Subject to the provisions of "Acceptance of Successful Bid and Award of Contract" below, the procuring entity shall take following actions for evaluation of financial Bids: -

- For two part/ cover Bid system, the financial Bids of the bidders who qualified in technical evaluation shall be opened online at the notified time, date and place by the bid evaluation committee in the presence of the bidders or their representatives who choose to be present;
- the process of opening of the financial Bids shall be similar to that of technical Bids.
- the names of the bidders, the rates given by them and conditions put, if any, shall be read out and recorded;
- The evaluation shall include all costs and all taxes and duties applicable (other than GST) to the bidder as per law of the Central/ State Board/ Local Authorities, and the evaluation criteria specified in the bidding documents shall only be applied;
- The offers shall be evaluated and marked L1, L2, and L3 etc. L1 being the lowest offer (total bid value) and then others in ascending order, or evaluated and marked H1, H2, H3 etc. in descending order.
- The Bid Evaluation Committee shall prepare a comparative statement in tabular form in accordance with rules along with its report on evaluation of financial Bids and recommend the lowest offer for acceptance to the RSPCB.
- The members of Bids Evaluation Committee shall give their recommendations below the table regarding lowest and sign it.

Signature of Bidder with Seal

Date:


दी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



(h) It shall be ensured that the offer recommended for sanction is justifiable looking to the prevailing market rates of the goods, works or service required to be procured.

(a) DETERMINATION OF RESPONSIVENESS:

- i. The bid evaluation committee shall determine the responsiveness of a Bid on the basis of bidding document and the provisions of pre-qualification/ eligibility criteria of the bidding document.
- ii. A responsive Bid is one that meets the requirements of the bidding document without any material deviation, reservation, or omission where: -
 - a. "deviation" is a departure from the requirements specified in the bidding document;
 - b. "reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
 - c. "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
- iii. A material deviation, reservation, or omission is one that,
 - i. if accepted, shall:-
 - a. affect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the bidding documents; or
 - b. limits in any substantial way, inconsistent with the bidding documents, the procuring entity's rights or the bidder's obligations under the proposed contract; or
 - ii. if rectified, shall unfairly affect the competitive position of other bidders presenting responsive Bids.
- iv. The bid evaluation committee shall examine the technical aspects of the Bid in particular, to confirm that all requirements of bidding document have been met without any material deviation, reservation or omission.
- v. The procuring entity shall regard a Bid as responsive if it conforms to all requirements set out in the bidding document, or it contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirements set out in the bidding document, or if it contains errors or oversights that can be corrected without touching on the substance of the Bid.

(b) NON-MATERIAL NON-CONFORMITIES IN BIDS:

- a. The bid evaluation committee may waive any non-conformities in the Bid that do not constitute a material deviation, reservation or omission, the Bid shall be deemed to be substantially responsive.
- b. The bid evaluation committee may request the bidder to submit the necessary information or document like audited statement of accounts/ CA Certificate, Registration Certificate, GST certificate, ISO Certificates, etc. within a reasonable

Signature of Bidder with Seal

Date:


 वी. एस. परिख
 मुख्य वैज्ञानिक अधिकारी
 Page 33 of 141

RSPCB

2025-26



period of time. Failure of the bidder to comply with the request may result in the rejection of its Bid.

- c. The bid evaluation committee may rectify non-material nonconformities or omissions on the basis of the information or documentation received from the bidder under (b) above.

(c) TECHNICAL EVALUATION CRITERIA:

Bids shall be evaluated based on the documents submitted as part of technical bid including product brochure submitted for quoted items. Technical bid shall contain all the documents as asked in the clause "Format and signing of Bids".

Proof of concept may be conducted for any item asked in tender document and if not found technically qualified, complete bid will be rejected.

(d) TABULATION OF TECHNICAL BIDS:

- a. If Technical Bids have been invited, they shall be tabulated by the bid evaluation committee in the form of a comparative statement to evaluate the qualification of the bidders against the criteria for qualification set out in the bidding document.
- b. The members of bid evaluation committee shall give their recommendations below the table as to which of the bidders have been found to be qualified in evaluation of Technical Bids and sign it.
- c. The number of firms qualified in technical evaluation, if less than three and it is considered necessary by the procuring entity to continue with the procurement process, reasons shall be recorded in writing and included in the record of the procurement proceedings.
- d. The bidders who qualified in the technical evaluation shall be informed in writing about the date, time and place of opening of their financial Bids.

16.0 CORRECTION OF ARITHMETIC ERRORS IN FINANCIAL BIDS:

The bid evaluation committee shall correct arithmetical errors in substantially responsive Bids, on the following basis, namely: -

- (a) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the bid evaluation committee there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above.

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी.

RSPCB
2025-26



- (d) If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security amount shall be forfeited.

17.0 PRICE/ PURCHASE PREFERENCE IN EVALUATION:

Price and/ or purchase preference notified by the State Government (GoR) and as mentioned in the bidding document shall be considered in the evaluation of Bids and award of contract.

18.0 NEGOTIATIONS:

- (a) Except in case of procurement by method of single source procurement or procurement by competitive negotiations, to the extent possible, negotiations shall be conducted.
- (b) Negotiations may, however, be undertaken only with the lowest or most advantageous bidder when the rates are considered to be much higher than the prevailing market rates.
- (c) The bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.
- (d) The lowest or most advantageous bidder shall be informed in writing either through messenger or by registered letter and e-mail (if available). A minimum time of seven days shall be given for calling negotiations. In case of urgency the bid evaluation committee, after recording reasons, may reduce the time, provided the lowest or most advantageous bidder has received the intimation and consented to regarding holding of negotiations.
- (e) Negotiations shall not make the original offer made by the bidder inoperative. The bid evaluation committee shall have option to consider the original offer in case the bidder decides to increase rates originally quoted or imposes any new terms or conditions.
- (f) In case of non-satisfactory achievement of rates from lowest or most advantageous bidder, the bid evaluation committee may choose to make a written counter offer to the lowest or most advantageous bidder and if this is not accepted by him, the committee may decide to reject and re-invite Bids or to make the same counter-offer first to the second lowest or most advantageous bidder, then to the third lowest or most advantageous bidder and so on in the order of their initial standing and work/ supply order be awarded to the bidder who accepts the counter-offer. This procedure would be used in exceptional cases only.
- (g) In case the rates even after the negotiations are considered very high, fresh Bids shall be invited.

19.0 EXCLUSION OF BIDS/ DISQUALIFICATION:

- (a) RSPCB shall exclude/ disqualify a Bid, if: -
- the information submitted, concerning the qualifications of the bidder, was false or constituted a misrepresentation; or
 - the information submitted, concerning the qualifications of the bidder, was materially inaccurate or incomplete; and
 - the bidder is not qualified as per pre-qualification/ eligibility criteria mentioned in the bidding document;

Signature of Bidder with Seal

Date:


वो.एस.परिहार
मुख्य वैज्ञानिक अधिकारी
Page 35 of 141

RSPCB

2025-26



- iv. the Bid materially departs from the requirements specified in the bidding document or it contains false information;
 - v. the bidder, submitting the Bid, his agent or any one acting on his behalf, gave or agreed to give, to any officer or employee of the procuring entity or other governmental authority a gratification in any form, or any other thing of value, so as to unduly influence the procurement process;
 - vi. a bidder, in the opinion of the procuring entity, has a conflict of interest materially affecting fair competition.
- (b) A Bid shall be excluded/ disqualified as soon as the cause for its exclusion/ disqualification is discovered.
- (c) Every decision of a procuring entity to exclude a Bid shall be for reasons to be recorded in writing and shall be: -
- i. communicated to the concerned bidder in writing;
 - ii. Published on the State Public Procurement Portal, if applicable.

20.0 LACK OF COMPETITION:

- (a) A situation may arise where, if after evaluation of Bids, the bid evaluation committee may end-up with one responsive Bid only. In such situation, the bid evaluation committee would check as to whether while floating the NIB all necessary requirements to encourage competition like standard bid conditions, industry friendly specifications, wide publicity, proper time for publicity, sufficient time for formulation of Bids, etc were fulfilled. If not, the NIB would be re-floated after rectifying deficiencies. The bid process shall be considered valid even if there is one responsive Bid, provided that: -
- a. the Bid is technically qualified;
 - b. the price quoted by the bidder is assessed to be reasonable;
 - c. the Bid is unconditional and complete in all respects;
 - d. there are no obvious indicators of cartelization amongst bidders; and
 - e. the bidder is qualified as per the provisions of pre-qualification/ eligibility criteria in the bidding document.
- (b) The bid evaluation committee shall prepare a justification note for approval by the next higher authority of the procuring entity, with the concurrence of the accounts member.
- (c) In case of dissent by any member of bid evaluation committee, the next higher authority in delegation of financial powers shall decide as to whether to sanction the single Bid or re-invite Bids after recording reasons.
- (d) If a decision to re-invite the Bids is taken, market assessment shall be carried out for estimation of market depth, eligibility criteria and cost estimate.

21.0 ACCEPTANCE OF THE SUCCESSFUL BID AND AWARD OF CONTRACT:

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



- (a) The RSPCB after considering the recommendations of the bid evaluation committee and the conditions of Bid, if any, financial implications, trials, sample testing and test reports, etc., shall accept or reject the successful Bid. If any member of the bid evaluation committee, has disagreed or given its note of dissent, the matter shall be referred to the next higher authority, as per delegation of financial powers, for decision.
- (b) Decision on Bids shall be taken within original validity period of Bids and time period allowed to procuring entity for taking decision. If the decision is not taken within the original validity period or time limit allowed for taking decision, the matter shall be referred to the next higher authority in delegation of financial powers for decision.
- (c) Before award of the contract, the procuring entity shall ensure that the price of successful Bid is reasonable and consistent with the required quality.
- (d) A Bid shall be treated as successful only after the competent authority has approved the procurement in terms of that Bid.
- (e) The procuring entity shall award the contract to the bidder whose offer has been determined to be the lowest or most advantageous in accordance with the evaluation criteria set out in the bidding document and if the bidder has been determined to be qualified to perform the contract satisfactorily on the basis of qualification criteria fixed for the bidders in the bidding document for the subject matter of procurement.
- (f) Prior to the expiration of the period of bid validity, the procuring entity shall inform the successful bidder, in writing, that its Bid has been accepted.
- (g) As soon as a Bid is accepted by the competent authority, its written intimation shall be sent to the concerned successful bidder by registered post or email and asked to execute an agreement on Rs 500/- **non-judicial stamp** paper with all terms and condition mentioned in bid form and deposit performance security equal to 5% of the amount of supply order to be supplied for which bids are accepted within 10 days from the date of dispatch of the letter by which the acceptance of the bid is communicated to the bidder.
- (h) The decision of the Member Secretary, RSPCB in this regard shall be final.**
- (i) The expenses of completing and stamping the agreement shall be paid by the bidder and bidder shall furnished free of charge with one executed stamped counter part of the agreement to State Board.
- (j) The bid security of the bidders whose Bids could not be accepted shall be refunded soon after the contract with the successful bidder is signed and its performance security is obtained.

22.0 INFORMATION AND PUBLICATION OF AWARD:

Information of award of contract shall be communicated to all participating bidders and published on the respective website(s) as specified in NIB.

23.0 PROCURING ENTITY'S RIGHT TO ACCEPT OR REJECT ANY OR ALL BIDS:

Signature of Bidder with Seal

Date:


वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी
Page 37 of 141

RSPCB
2025-26



The Procuring entity reserves the right to accept or reject any Bid, and to annul (cancel) the bidding process and reject all Bids at any time prior to award of contract, without thereby incurring any liability to the bidders.

24.0 PROCURING ENTITY'S RIGHT TO VARY QUANTITIES (REPEAT ORDER):

- At the time of award of contract, the quantity of Goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase shall not exceed fifty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit prices or other terms and conditions of the Bid and the conditions of contract.
- If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 50% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply. If the Supplier fails to do so, the Procuring Entity shall be free to arrange for the balance supply by limited Bidding or otherwise and the extra cost incurred shall be recovered from the Supplier.

25.0 DIVIDING QUANTITIES AMONG MORE THAN ONE BIDDER AT THE TIME OF AWARD:

As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.

26.0 EXECUTION OF AGREEMENT:

- A procurement contract shall come into force from the date on which the letter of acceptance or letter of Intent is dispatched to the bidder.
- That successful bidder shall execute and sign an agreement on Rs 500/- non-judicial stamp paper (to be purchase from anywhere in Rajasthan only) with all terms and condition mentioned in bid form at Annexure- XII and deposit performance security equal to 5% of the amount of supply order to be supplied for which bids are accepted within 10 days from

Signature of Bidder with Seal
Date:


वी.एस.परिहार
मुख्य निरीक्षक अधिकारी
Page 38 of 141

RSPCB
2025-26



the date of dispatch of the letter by which the acceptance of the bid is communicated to the bidder.

- (c) If the bidder, who's Bid has been accepted, fails to sign a written procurement contract or fails to furnish the required performance security within specified period, the procuring entity shall take action against the successful bidder as per the provisions of the bidding document and Act. The procuring entity may, in such case, cancel the procurement process or if it deems fit, offer for acceptance the rates of lowest or most advantageous bidder to the next lowest or most advantageous bidder, in accordance with the criteria and procedures set out in the bidding document.

27.0 EXECUTION OF AGREEMENT:

- (d) A procurement contract shall come into force from the date on which the letter of acceptance or letter of Intent is dispatched to the bidder.
- (e) That successful bidder shall execute and sign an agreement on Rs 500/- non-judicial stamp paper (to be purchase from anywhere in Rajasthan only) with all terms and condition mentioned in bid form and deposit performance security equal to 5% of the amount of supply order to be supplied for which bids are accepted within 10 days from the date of dispatch of the letter by which the acceptance of the bid is communicated to the bidder.
- (f) If the bidder, who's Bid has been accepted, fails to sign a written procurement contract or fails to furnish the required performance security within specified period, the procuring entity shall take action against the successful bidder as per the provisions of RTPP Act and Rules. The procuring entity may, in such case, cancel the procurement process or if it deems fit, offer for acceptance the rates of lowest or most advantageous bidder to the next lowest or most advantageous bidder, in accordance with the criteria and procedures set out in the bidding document.

28.0 CONFIDENTIALITY:

- (a) Notwithstanding anything contained in this bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information, a procuring entity shall not disclose any information if such disclosure, in its opinion, is likely to: -
- impede enforcement of any law;
 - affect the security or strategic interests of India;
 - affect the intellectual property rights or legitimate commercial interests of bidders;
 - affect the legitimate commercial interests of the procuring entity in situations that may include when the procurement relates to a project in which the procuring entity is to make a competitive bid, or the intellectual property rights of the procuring entity.

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैधानिक अधिकारी



- (b) The procuring entity shall treat all communications with bidders related to the procurement process in such manner as to avoid their disclosure to competing bidders or to any other person not authorized to have access to such information.
- (c) The procuring entity may impose on bidders and sub-contractors, if there are any for fulfilling the terms of the procurement contract, conditions aimed at protecting information, the disclosure of which violates (a) above.
- (d) In addition to the restrictions specified above, the procuring entity, while procuring a subject matter of such nature which requires the procuring entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.

29.0 CANCELLATION OF PROCUREMENT PROCESS:

- (a) If any procurement process has been cancelled, it shall not be reopened but it shall not prevent the procuring entity from initiating a new procurement process for the same subject matter of procurement, if required.
- (b) A procuring entity may, for reasons to be recorded in writing, cancel the process of procurement initiated by it -
 - i. at any time prior to the acceptance of the successful Bid; or
 - ii. after the successful Bid is accepted in accordance with (d) and (e) below.
- (c) The procuring entity shall not open any bids or proposals after taking a decision to cancel the procurement and shall return such unopened bids or proposals.
- (d) The decision of the procuring entity to cancel the procurement and reasons for such decision shall be immediately communicated to all bidders that participated in the procurement process.
- (e) If the bidder who's bid has been accepted as successful fails to sign any written procurement contract as required, or fails to provide any required security for the performance of the contract, the procuring entity may cancel the procurement process.
- (f) If a bidder is convicted of any offence under the Act, the procuring entity may: -
 - i. cancel the relevant procurement process if the Bid of the convicted bidder has been declared as successful but no procurement contract has been entered into;
 - ii. rescind (cancel) the relevant contract or forfeit the payment of all or a part of the contract value if the procurement contract has been entered into between the procuring entity and the convicted bidder.

30.0 CODE OF INTEGRITY FOR BIDDERS:

- (a) No person participating in a procurement process shall act in contravention of the code of integrity prescribed by the State Government.
- (b) The code of integrity includes provisions for: -
 - a. **PROHIBITING**

Signature of Bidder with Seal
 Date:


 वी.एस.परिवार
 मुख्य वैज्ञानिक

RSPCB
 2025-26



- i. any offer, solicitation or acceptance of any bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process;
- ii. any omission, including a misrepresentation that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- iii. any collusion, bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- iv. improper use of information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process or for personal gain;
- v. any financial or business transactions between the bidder and any officer or employee of the procuring entity;
- vi. any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- vii. any obstruction of any investigation or audit of a procurement process;
 - b. disclosure of conflict of interest;
 - c. disclosure by the bidder of any previous transgressions with any entity in India or any other country during the last three years or of any debarment by any other procuring entity.

(c) Without prejudice to the provisions below, in case of any breach of the code of integrity by a bidder or prospective bidder, as the case may be, the procuring entity may take appropriate measures including: -

- i. exclusion of the bidder from the procurement process;
- ii. calling-off of pre-contract negotiations and forfeiture or encashment of bid security;
- iii. forfeiture or encashment of any other security or bond relating to the procurement;
- iv. recovery of payments made by the procuring entity along with interest thereon at bank rate;
- v. cancellation of the relevant contract and recovery of compensation for loss incurred by the procuring entity;
- vi. debarment of the bidder from participation in future procurements of the procuring entity for a period not exceeding three years.
- vii. Conditional bids will be rejected without assigning any reason.

31.0 INTERFERENCE WITH PROCUREMENT PROCESS:

A bidder, who: -

- a) withdraws from the procurement process after opening of financial bids;
- b) withdraws from the procurement process after being declared the successful bidder;
- c) fails to enter into procurement contract after being declared the successful bidder;

Signature of Bidder with Seal

Date:


वी.एस.परिवार
मुख्य वैज्ञानिक



- d) fails to provide performance security or any other document or security required in terms of the bidding documents after being declared the successful bidder, without valid grounds,
- shall, in addition to the recourse available in the bidding document or the contract, be punished with fine which may extend to fifty lakh rupees or ten per cent of the assessed value of procurement, whichever is less.

32.0 APPEALS

- (a) Subject to "Appeal not to lie in certain cases" below, if any bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of the Act or the rules or guidelines issued thereunder, he may file an appeal to such officer of the procuring entity, as may be designated by it for the purpose, within a period of 10 days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:
- Provided that after the declaration of a bidder as successful in terms of "Award of Contract", the appeal may be filed only by a bidder who has participated in procurement proceedings:
 - Provided further that in case a procuring entity evaluates the technical Bid before the opening of the financial Bid, an appeal related to the matter of financial Bid may be filed only by a bidder whose technical Bid is found to be acceptable.
- (b) The officer to whom an appeal is filed under (a) above shall deal with the appeal as expeditiously as possible and shall endeavor to dispose it of within 30 days from the date of filing of the appeal.
- (c) If the officer designated under (a) above fails to dispose of the appeal filed under that sub-section within the period specified in (c) above, or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed, the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to an officer or authority designated by the State Government in this behalf within 15 days from the expiry of the period specified in (c) above or of the date of receipt of the order passed under (b) above, as the case may be.
- (d) The officer or authority to which an appeal is filed under (c) above shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within 30 days from the date of filing of the appeal:
- (e) The officer or authority to which an appeal may be filed under (a) or (d) above shall be: - **First Appellate Authority: Member Secretary, RSPCB, Jaipur**
Second Appellate Authority: Chairperson, RSPCB, Jaipur

Signature of Bidder with Seal
Date:

वी.एस.मिश्रा

RSPCB
2025-26



(f) Form of Appeal:

- a. Every appeal under (a) and (c) above shall be as per Annexure-XV along with as many copies as there are respondents in the appeal under the Rajasthan Transparency in Public Procurement Act, 2012 and Rules, 2013. The appeal will be settled as per the terms and condition of bid document with the provisions of Rajasthan Transparency in Public Procurement Act, 2012 and Rules their upon 2013 and amendment time to time will be applicable.
- b. Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- c. Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorised representative.

(g) Fee for Appeal: Fee for filing appeal:

- a. Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
- b. The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank payable in the name of First Appellate Authority concerned.

(h) Procedure for disposal of appeal:

- a. The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- b. On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall-
 - i. hear all the parties to appeal present before him; and
 - ii. peruse or inspect documents, relevant records or copies thereof relating to the matter.
- c. After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- d. The order passed under (c) shall also be placed on the State Public Procurement Portal.

- (i) No information which would impair the protection of essential security interests of India, or impede the enforcement of law or fair competition, or prejudice the legitimate commercial interests of the bidder or the procuring entity, shall be disclosed in a proceeding under an appeal.

33.0 STAY OF PROCUREMENT PROCEEDINGS:

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैज्ञानिक
Page 43 of 141

RSPCB

2025-26



While hearing of an appeal, the officer or authority hearing the appeal may, on an application made in this behalf and after affording a reasonable opportunity of hearing to the parties concerned, stay the procurement proceedings pending disposal of the appeal, if he, or it, is satisfied that failure to do so is likely to lead to miscarriage of justice.

34.0 VEXATIOUS APPEALS & COMPLAINTS:

Whoever intentionally files any vexatious, frivolous or malicious appeal or complaint under the "The Rajasthan Transparency Public Procurement Act 2012", with the intention of delaying or defeating any procurement or causing loss to any procuring entity or any other bidder, shall be punished with fine which may extend to twenty lakh rupees or five per cent of the value of procurement, whichever is less.

35.0 OFFENSES BY FIRMS/ COMPANIES:

- (a) Where an offence under "The Rajasthan Transparency Public Procurement Act 2012" has been committed by a company, every person who at the time the offence was committed was in charge of and was responsible to the company for the conduct of the business of the company, as well as the company, shall be deemed to be guilty of having committed the offence and shall be liable to be proceeded against and punished accordingly:
- (b) Provided that nothing contained in this sub-section shall render any such person liable for any punishment if he proves that the offence was committed without his knowledge or that he had exercised all due diligence to prevent the commission of such offence.
- (c) Notwithstanding anything contained in (a) above, where an offence under this Act has been committed by a company and it is proved that the offence has been committed with the consent or connivance of or is attributable to any neglect on the part of any director, manager, secretary or other officer of the company, such director, manager, secretary or other officer shall also be deemed to be guilty of having committed such offence and shall be liable to be proceeded against and punished accordingly.
- (d) For the purpose of this section-
- "company" means a body corporate and includes a limited liability partnership, firm, registered society or co-operative society, trust or other association of individuals; and
 - "director" in relation to a limited liability partnership or firm, means a partner in the firm.
- (e) Abetment of certain offenses: Whoever abets an offence punishable under this Act, whether or not that offence is committed in consequence of that abetment, shall be punished with the punishment provided for the offence.

36.0 DEBARMENT FROM BIDDING:

- (a) A bidder shall be debarred by the RSPCB if he has been convicted of an offence: -

Signature of Bidder with Seal

Date:

RSPCB
2025-26



Rajasthan State Pollution Control Board

Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004

E-Mail: member-secretary@rpcb.nic.in

Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



- a. under the Prevention of Corruption Act, 1988 (Central Act No. 49 of 1988); or
- b. under the Indian Penal Code, 1860 (Central Act No. 45 of 1860) or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.
- (b) A bidder debarred under (a) above shall not be eligible to participate in a procurement process of RSPCB for a period not exceeding three years commencing from the date on which he was debarred.
- (c) If RSPCB finds that a bidder has breached the code of integrity prescribed in terms of "Code of Integrity for bidders" above, it may debar the bidder for a period not exceeding three years.
- (d) Where the entire bid security or the entire performance security or any substitute thereof, as the case may be, of a bidder has been forfeited by a procuring entity in respect of any procurement process or procurement contract, the bidder may be debarred from participating in any procurement process undertaken by the procuring entity for a period not exceeding three years.
- (e) The RSPCB or a procuring entity, as the case may be, shall not debar a bidder under this section unless such bidder has been given a reasonable opportunity of being heard.

37.0 MONITORING OF CONTRACT:

- (a) An officer or a committee of officers named Contract Monitoring Committee (CMC) may be nominated by procuring entity to monitor the progress of the contract during its delivery period.
- (b) During the delivery period the CMC shall keep a watch on the progress of the contract and shall ensure that quantity of goods and service delivery is in proportion to the total delivery period given, if it is a severable contract, in which the delivery of the goods and service is to be obtained continuously or is batched. If the entire quantity of goods and service is to be delivered in the form of completed work or entire contract like fabrication work, the process of completion of work may be watched and inspections of the selected bidder's premises where the work is being completed may be inspected.
- (c) If delay in delivery of goods and service is observed a performance notice would be given to the selected bidder to speed up the delivery.
- (d) Any change in the constitution of the firm, etc. shall be notified forth with by the contractor in writing to the procuring entity and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- (e) No new partner/ partners shall be accepted in the firm by the selected bidder in respect of the contract unless he/ they agree to abide by all its terms, conditions and deposits with the procuring entity through a written agreement to this effect. The bidder's receipt for

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैधानिक अधिकारी
Page 45 of 141

RSPCB
2025-26



acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.

- (f) The selected bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of procuring entity.

38.0 GENERAL TERMS AND CONDITIONS OF TENDER & CONTRACT:

Bidders should read these conditions carefully and comply strictly while sending their bids.

38.1 DEFINITIONS:

For the purpose of clarity, the following words and expressions shall have the meanings hereby assigned to them: -

- "Contract" means the Agreement entered into between the Purchaser and the successful/ selected bidder, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- "Contract Documents" means the documents listed in the Agreement, including any amendments thereto.
- "Contract Price" means the price payable to the successful/ selected bidder as specified in the Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
- "Day" means a calendar day.
- "Delivery" means the transfer of the Goods from the successful/ selected bidder to the Purchaser in accordance with the terms and conditions set forth in the Contract.
- "Completion" means the fulfillment of the related services by the successful/ selected bidder in accordance with the terms and conditions set forth in the Contract.
- "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the successful/ selected bidder is required to supply to the Purchaser under the Contract.
- "Purchaser" means the entity purchasing the Goods and related services, as specified in the bidding document.
- "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the successful/ selected bidder under the Contract.
- "Subcontractor" means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the related services is subcontracted by the successful/ selected bidder.
- "Supplier/ Successful or Selected bidder" means the person, private or government entity, or a combination of the above, whose Bid to perform the Contract has been accepted by the

Signature of Bidder with Seal

Date:

वी.एस.परिहार
जनित अधिकारी

RSPCB
2025-26



Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the successful/ selected bidder.

- 1) "The Site" where applicable, means the designated project place(s) named in the bidding document.

Note: The bidder shall be deemed to have carefully examined the conditions, specifications, size, make and drawings, etc., of the goods to be supplied and related services to be rendered. If the bidder has any doubts as to the meaning of any portion of these conditions or of the specification, drawing, etc., he shall, before submitting the Bid and signing the contract refer the same to the procuring entity and get clarifications.

The bid shall be considered only for those instruments for which the rates have been specifically quoted. The Board further reserves the right to accept the Bid for all the instruments or some of the instruments for which the Bidder has quoted the Bid.

38.2 CONTRACT DOCUMENTS

Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

38.3 INTERPRETATION:

- If the context so requires it, singular means plural and vice versa.
- Entire Agreement: The Contract constitutes the entire agreement between the Purchaser and the Supplier/ Selected bidder and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.
- Amendment: No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.
- Non-waiver: Subject to the condition (f) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.
- Severability: If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

Signature of Bidder with Seal

Date:


बी.एस.परिहार



38.4 LANGUAGE

- The Contract as well as all correspondence and documents relating to the Contract exchanged by the successful/ selected bidder and the Purchaser, shall be written in English language only. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the special conditions of the contract, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- The successful/ selected bidder shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

38.5 ELIGIBLE GOODS AND RELATED SERVICES:

- For purposes of this Clause, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, transportation, supply, installation, integration, testing, commissioning, training, and initial maintenance.
- All products quoted by the successful/ selected bidder must be associated with specific make and model number, item code and names and with printed literature describing configuration and functionality. Any deviation from the printed specifications should be clearly mentioned in the offer document by the bidder/ supplier. Also, the bidder is to quote/ propose only one make/ model against the respective item.
- Bidder must quote products in accordance with above clause "Eligible goods and related services".

38.6 NOTICES:

- Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the contract. The term "in writing" means communicated in written form with proof of dispatch and receipt.
- A Notice shall be effective when delivered or on the Notice's effective date, whichever is later.

38.7 GOVERNING LAW

The Contract shall be governed by and interpreted in accordance with the laws of the Rajasthan State/ the Country (India), unless otherwise specified in the contract.

39.0 SCOPE OF SUPPLY

- Subject to the provisions in the bidding document and contract, the goods and related services to be supplied shall be as specified in the bidding document.
- Unless otherwise stipulated in the Contract, the scope of supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining delivery and completion of the goods and related services as if such items were expressly mentioned in the Contract.

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी
Page 48 of 141

RSPCB
2025-26



Rajasthan State Pollution Control Board

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Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



- c) The bidder shall not quote and supply and instrument /hardware/ software that is likely to be declared as End of Sale in next 6 months and End of Service/ Support for a period of 5 Years from the last date of bid submission. OEMs are required to mention this in the MAF for all the quoted hardware/ software. If any of the instrument /hardware/ software is found to be declared as End of Sale/ Service/ Support, then the bidder shall replace all such hardware/ software with the latest ones having equivalent or higher specifications without any financial obligation to the purchaser.

40.0 DELIVERY & INSTALLATION

- a) Subject to the conditions of the contract, the delivery of the goods and completion of the related services shall be in accordance with the delivery and completion schedule specified in the bidding document. The details of supply/ shipping and other documents to be furnished by the successful/ selected bidder are specified in the bidding document and/ or contract.
- b) The contract for the supply can be repudiated at any time by the purchase officer, if the supplies are not made to his satisfaction after giving an opportunity to the bidder of being heard and recording the reasons for repudiation.
- c) The Supplier/ Selected Bidder shall arrange to supply, install and commission the ordered materials/ system as per specifications within the specified delivery/ completion period at various departments and/ or their offices/ locations mentioned in the PO/ WO.
- d) Shifting the place of Installation: The user will be free to shift the place of installation within the same city /town/ district/ division. The successful/ selected bidder shall provide all assistance, except transportation, in shifting of the equipment. However, if the city/town is changed, additional charges of assistance in shifting and providing maintenance services for remaining period would be decided mutually.

41.0 SUPPLIER'S/ SELECTED BIDDER'S RESPONSIBILITIES

The Supplier/ Selected Bidder shall supply all the goods and related services included in the scope of supply in accordance with the provisions of bidding document and/ or contract.

42.0 CONTRACT PRICE

- a) The Contract Price shall be paid as specified in the contract subject to any additions and adjustments thereto, or deductions there from, as may be made pursuant to the Contract.
- b) Prices charged by the Supplier/ Selected Bidder for the Goods delivered and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier/ Selected Bidder in its bid, with the exception of any price adjustments authorized in the special conditions of the contract.

43.0 RECOVERIES FROM SUPPLIER/ SELECTED BIDDER:

- a) Recovery of liquidated damages, short supply, breakage, rejected articles shall be made ordinarily from bills.

Signature of Bidder with Seal

Date:


वी.एस.परिहार
कृष्ण वैज्ञानिक अधिकारी
Page 49 of 141

RSPCB
2025-26



- b) The Member Secretary, RSPCB shall withhold amount to the extent of short supply, broken/ damaged or for rejected articles unless these are replaced satisfactorily. In case of failure to withhold the amount, it shall be recovered from his dues and performance security deposit available with RSPCB.
- c) The balance, if any, shall be demanded from the Supplier/ Selected Bidder and when recovery is not possible, the Member Secretary, RSPCB shall take recourse to law in force.

44.0 TAXES & DUTIES:

- a) For goods supplied from outside India, the successful/ selected bidder shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the country.
- b) For goods supplied from within India, the successful/ selected bidder shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- c) If any tax exemptions, reductions, allowances or privileges may be available to the successful/ selected bidder in India, the State Board shall use its best efforts to enable the successful/ selected bidder to benefit from any such tax savings to the maximum allowable extent.

45.0 SUB-CONTRACTING:

- a) The bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of Purchaser/ Tendering Authority.
- b) If permitted, the selected bidder shall notify the Purchaser, in writing, of all subcontracts awarded under the Contract, if not already specified in the Bid. Subcontracting shall in no event relieve the Supplier/ Selected Bidder from any of its obligations, duties, responsibilities, or liability under the Contract.
- c) Subcontractors, if permitted, shall comply with the provisions of bidding document and/ or contract.

46.0 CONFIDENTIAL INFORMATION:

- a) The State Board and the Supplier/ Selected Bidder shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any drawings, documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.
- b) The Supplier/ Selected Bidder may furnish to its Subcontractor, if permitted, such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी
Page 50 of 141

RSPCB
2025-26



the Supplier/ Selected Bidder shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier/ Selected Bidder.

- c) The Purchaser shall not use such documents, data, and other information received from the Supplier/ Selected Bidder for any purposes unrelated to the Contract. Similarly, the Supplier/ Selected Bidder shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
- d) The obligation of a party under sub-clauses above, however, shall not apply to information that: -
 - i. the Purchaser or Supplier/ Selected Bidder need to share with user department or RSPCB or other institutions participating in the Contract;
 - ii. now or hereafter enters the public domain through no fault of that party;
 - iii. can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - iv. otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- e) The above provisions shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the supply or any part thereof.
- f) The provisions of this clause shall survive completion or termination, for whatever reason, of the Contract.

47.0 SUB-CONTRACTING:

- d) The bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of Purchaser/ Tendering Authority.
- e) If permitted, the selected bidder shall notify the Purchaser, in writing, of all subcontracts awarded under the Contract, if not already specified in the Bid. Subcontracting shall in no event relieve the Supplier/ Selected Bidder from any of its obligations, duties, responsibilities, or liability under the Contract.
- f) Subcontractors, if permitted, shall comply with the provisions of bidding document and/ or contract.

48.0 SPECIFICATIONS AND STANDARDS

- a) All Instruments/articles supplied shall strictly conform to the specifications, trademark laid down in the bidding document and wherever articles have been required according to ISI/ ISO/ other applicable specifications/ certifications/ standards, those articles should conform strictly to those specifications/ certifications/ standards. The supply shall be of best quality and description. The decision of the competent authority/ purchase committee whether the articles supplied conform to the specifications shall be

Signature of Bidder with Seal
Date:


वी.एस.परिहार
Page 51 of 141

RSPCB
2025-26



final and binding on the supplier/ selected bidder. During Demo before opening of financial bid the specification criteria shall be strictly followed.

b) Technical Specifications and Drawings:

- i. The Supplier/ Selected Bidder shall ensure that the goods and related services comply with the technical specifications and other provisions of the Contract.
 - ii. The Supplier/ Selected Bidder shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
 - iii. The goods and related services supplied under this Contract shall conform to the standards mentioned in bidding document and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.
- c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the bidding document. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with the general conditions of the contract.
- d) The supplier/ selected bidder must certify that all the goods are new, unused, and of the agreed make and models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- e) The supplier/ selected bidder should further warrant that the Goods shall be free from defects arising from any act or omission of the supplier/ selected bidder or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the place of final destination.

49.0 PACKING AND DOCUMENTS:

- a) The Supplier/ Selected Bidder shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit.
- b) The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the contract, and in any other instructions ordered by the Purchaser.

Signature of Bidder with Seal

Date:

वी.एस.पथक
मुख्य निदेशक

Page 52 of 141

RSPCB
2025-26



50.0 INSURANCE:

- a) The Goods supplied under the Contract shall be fully insured against loss by theft, destruction or damage incidental to manufacture or acquisition, transportation, storage, fire, flood, under exposure to weather and delivery at the designated project locations, in accordance with the applicable terms. The insurance charges will be borne by the supplier and Purchaser will not be required to pay such charges if incurred.
- b) The goods will be delivered at the FOR destination in perfect condition.
- c) Successful bidder shall be responsible during entire contract period to take care of any loss or injury due to accident caused by any equipment installed by the successful bidder and shall be solely responsible for paying all kinds of compensation and damages due to loss of life or property and would be responsible for any civil or criminal case arising there from.

51.0 INJURY AND DAMAGE:

- a) **Injury or death of persons:** The Supplier shall be liable for and shall indemnify the Board against any liability, loss, claim or proceedings, whatsoever arising under any statute or law in respect of personal injury or death or any disability caused by the carrying out the Works.
- b) **Damage to property:** The Supplier shall be liable for and shall indemnify the Board against and insure and cause any Manufacturers and subcontractors to insure against any expense, liability, loss claim or proceedings in respect of any damage, whatsoever to any real or personal property for any one occurrence in so far as such damage arises out of or in the course of or by reason of the carrying out of the Works and is due to any negligence, omission or default of the Supplier or any person for whom the supplier is responsible or any Manufacturers and subcontractors or person whom the Manufacturers and subcontractors are responsible.

52.0 TRANSPORTATION:

- a) The supplier/selected bidder shall be responsible for transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good such loss and shortage found at the checking/ inspection of the material by the consignee. No extra cost on such account shall be admissible.
- b) All goods must be sent freight paid through Railways or goods transport.

53.0 INSPECTION:

- a) The Member Secretary, RSPCB or his duly authorized representative shall at all reasonable time have access to the supplier's/ selected bidder's premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship

Signature of Bidder with Seal
Date:


व.एस.परिहार
मुख्य वैज्ञानिक अधिकारी



of the goods/ equipment/ machineries during manufacturing process or afterwards as may be decided.

- b) The supplier/ selected bidder shall furnish complete address of the premises of his factory, office, go-down and workshop where inspection can be made together with name and address of the person who is to be contacted for the purpose.
- c) After successful inspection, it will be supplier's/ selected bidder's responsibility to dispatch and install the equipment at respective locations without any financial liability to the Purchaser. However, supplies when received at respective locations shall be subject to inspection to ensure whether they conform to the specification.

54.0 REJECTION:

- a) Articles not approved during inspection or testing shall be rejected and will have to be replaced by the selected bidder at his own cost within the time fixed by the Member Secretary, RSPCB.
- b) If, however, due to exigencies of user department work, such replacement either in whole or in part, is not considered feasible, the Member Secretary, RSPCB after giving an opportunity to the selected bidder of being heard shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.
- c) The rejected articles shall be removed by the supplier/ bidder/ selected bidder within 15 days of intimation of rejection, after which Member Secretary, RSPCB shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the selected bidder's risk and on his account.

55.0 DELIVERY PERIOD AND LIQUIDATED DAMAGES (LD):

- a) Except as provided under clause "Force Majeure", if the supplier/ selected bidder fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in (d) below for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the bidding document and/ or contract. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to clause "Termination".
- b) The time specified for delivery in the bidding document shall be deemed to be the essence of the contract and the supplier/ selected bidder shall arrange goods supply and related services within the specified period.

Signature of Bidder with Seal

Date:


 वा.एस.परिहाड़
 सचिव वैज्ञानिक अधिकारी

RSPCB
2025-26



- c) Delivery and installation/ completion period may be extended with or without liquidated damages, if the delay in the supply of goods or service is on account of hindrances beyond the control of the supplier/ selected bidder.
- i. The supplier/ selected bidder shall request in writing to the Purchaser giving reasons for extending the delivery period of service, if he finds himself unable to complete the supply of goods or service within the stipulated delivery period or is unable to maintain prorate progress in the supply of goods or service delivery. This request shall be submitted as soon as a hindrance in delivery of goods and service occurs or within 15 days from such occurrence but before expiry of stipulated period of completion of delivery of goods and service after which such request shall not be entertained.
- ii. The Purchaser shall examine the justification of causes of hindrance in the delivery of goods and service and the period of delay occurred due to that and recommend the competent authority on the period of extension which should be granted with or without liquidated damages.
- iii. If the competent authority agrees to extend the delivery period/ schedule, an amendment to the contract with suitable denial clauses and with or without liquidated damages, as the case may be, shall be issued. The amendment letter shall mention that no extra price or additional cost for any reason, what so ever beyond the contracted cost shall be paid for the delayed supply of goods and service.
- iv. It shall be at the discretion of the concerned authority to accept or not to accept the supply of goods and/ or services rendered by the contractor after the expiry of the stipulated delivery period, if no formal extension in delivery period has been applied and granted. The competent authority shall have right to cancel the contract with respect to undelivered goods and/ or service.
- v. If user department or RSPCB in need of the good and/ or service rendered after expiry of the stipulated delivery period, it may accept the services and issue a letter of extension in delivery period with usual liquidated damages and denial clauses to regularize the transaction.
- d) In case of extension in the delivery and/ or installation/ completion/ commissioning period is granted with full liquidated damages, the recovery shall be made on the basis of following percentages of value of goods and/ or service which the supplier/ selected bidder has failed to supply/ install/ complete: -

No	Condition	LD %*
a.	Delay up to one fourth period of the prescribed period of delivery, successful installation and completion of work.	2.5 %

Signature of Bidder with Seal

Date:


वी.एस.परिवार
मुख्य वैधानिक अधिकारी

RSPCB

2025-26



b.	Delay exceeding one fourth but not exceeding half of the prescribed period of delivery, successful installation and completion of work.	5.0 %
c.	Delay exceeding half but not exceeding three fourth of the prescribed period of delivery, successful installation and completion of work.	7.5 %
d.	Delay exceeding three fourth of the prescribed period of delivery, successful installation and completion of work.	10.0 %
i.	Fraction of a day in reckoning period of delay in supplies, successful installation and completion of work shall be eliminated, if it is less than half a day.	
ii.	The maximum amount of liquidated damages shall be 10% of the contract value.	
iii.	*The percentage refers to the payment due for the associated works/ goods/ service.	

56.0 AUTHENTICITY OF EQUIPMENT:

- The selected bidder shall certify that the supplied goods are brand new, genuine/ authentic, not refurbished, conform to the description and quality as specified in this bidding document and are free from defects in material, workmanship and service.
- If during the contract period, the said goods be discovered counterfeit/ unauthentic or not to conform to the description and quality aforesaid or have determined (and the decision of the Member Secretary, RSPCB in that behalf will be final and conclusive), notwithstanding the fact that the purchaser may have inspected and/ or approved the said goods, the purchaser will be entitled to reject the said goods or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods will be at the selected bidder's risk and all the provisions relating to rejection of goods etc., shall apply. The selected bidder shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejected by Member Secretary, RSPCB, otherwise the selected bidder shall pay such damage as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Member Secretary, RSPCB in that behalf under this contract or otherwise.
- Goods accepted by the purchaser in terms of the contract shall in no way dilute purchaser's right to reject the same later, if found deficient in terms of the this clause of the contract.

57.0 CHANGE ORDERS AND CONTRACT AMENDMENTS:

- The Purchaser may at any time order the supplier/ selected bidder through Notice in accordance with clause "Notices" above, to make changes within the general scope of the Contract in any one or more of the following: -
 - drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;

Signature of Bidder with Seal
 Date:


 वी.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी

RSPCB
 2025-26



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- ii. the method of shipment or packing;
 - iii. the place of delivery; and
 - iv. the related services to be provided by the supplier/ selected bidder.
- b) If any such change causes an increase or decrease in the cost of, or the time required for, the supplier's/ selected bidder's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly should be amended. Any claims by the supplier/ selected bidder for adjustment under this clause must be asserted within thirty (30) days from the date of the supplier's/ selected bidder's receipt of the Purchaser's change order.
- c) Prices to be charged by the supplier/ selected bidder for any related services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier/ selected bidder for similar services.

58.0 TERMINATION:

a) TERMINATION FOR DEFAULT

- i. The tender sanctioning authority of RSPCB may, without prejudice to any other remedy for breach of contract, by a written notice of default of at least 30 days sent to the supplier/ selected bidder, terminate the contract in whole or in part: -
 - a. If the supplier/ selected bidder fails to deliver any or all quantities of the service within the time period specified in the contract, or any extension thereof granted by RSPCB; or
 - b. If the supplier/ selected bidder fails to perform any other obligation under the contract within the specified period of delivery of service or any extension granted thereof; or
 - c. If the supplier/ selected bidder, in the judgement of the Purchaser, is found to be engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the contract.
 - d. If the supplier/ selected bidder commits breach of any condition of the contract.
- ii. If RSPCB terminates the contract in whole or in part, amount of PSD may be forfeited.
- iii. Before cancelling a contract and taking further action, advice of senior most finance person available in the office and of legal adviser or legal assistant posted in the office, if there is one, may be obtained.

b) TERMINATION FOR INSOLVENCY:

RSPCB may at any time terminate the Contract by giving a written notice of at least 30 days to the supplier/ selected bidder, if the supplier/ selected bidder becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the supplier/

Signature of Bidder with Seal

Date:


वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी
Page 57 of 141

RSPCB

2025-26



selected bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to RSPCB.

c) TERMINATION FOR CONVENIENCE:

- i. RSPCB, by a written notice of at least 30 days sent to the supplier/ selected bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the supplier/ selected bidder under the Contract is terminated, and the date upon which such termination becomes effective.
- ii. Depending on merits of the case the supplier/ selected bidder may be appropriately compensated on mutually agreed terms for the loss incurred by the contract if any due to such termination.
- iii. The Goods that are complete and ready for shipment within twenty-eight (28) days after the supplier's/ selected bidder's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - a. To have any portion completed and delivered at the Contract terms and prices; and/or
 - b. To cancel the remainder and pay to the supplier/ selected bidder an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the supplier/ selected bidder.

59.0 LIMITATION OF LIABILITY:

- a) Neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier/ selected bidder to pay liquidated damages to the Purchaser; and
- b) The aggregate liability of the supplier/ selected bidder to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the total contract value/amount/charges paid to the Supplier/ selected bidder until the time such claim was brought about, provided that this limitation shall not apply; i) to any obligation of the supplier/ selected bidder to indemnify the Purchaser with respect to patent infringement, and ii) any damages payable due to the Gross Negligence or Willful Misconduct of the Supplier/selected bidder. For the purpose of this clause, Gross Negligence or Willful Misconduct shall mean;
"Gross Negligence" means any act or failure to act by a Party which was in reckless disregard of or gross indifference to the obligations of the Party under the Contract and which causes harmful consequences to life, personal safety or real property of the other

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैज्ञानिक
Page 58 of 141

RSPCB
2025-26



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Party which such Party knew, or would have known if it was acting as a reasonable person, would result from such act or failure to act. Notwithstanding the foregoing, Gross Negligence shall not include any action taken in good faith for the safeguard of life or property or a mistake made in good faith.

"Willful Misconduct" means an intentional disregard of any provision of this Contract which a Party knew or should have known if it was acting as a reasonable person, would result in harmful consequences to life, personal safety or real property of the other Party but shall not include any error of judgment or mistake made in good faith. The above provision does not limit either Parties rights provided under applicable laws of Govt. of India.

60.0 FORCE MAJEURE:

- The supplier/ selected bidder shall not be liable for forfeiture of its PSD, LD, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the supplier/ selected bidder that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the supplier/ selected bidder. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- If a Force Majeure situation arises, the supplier/ selected bidder shall promptly notify the RSPCB in writing of such conditions and cause thereof within 15 days of occurrence of such event. Unless otherwise directed by RSPCB, the supplier/ selected bidder shall continue to perform its obligations under the contract as far as reasonably practical.
- If the performance in whole or part or any obligation under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party at its option may terminate the contract without any financial repercussion on either side.
- In case a Force Majeure situation occurs with the user department or RSPCB, the user department or RSPCB may take the case with the supplier/ selected bidder on similar lines.

61.0 CHANGE ORDERS AND CONTRACT AMENDMENTS:

- The Purchaser may at any time order the supplier/ selected bidder through Notice in accordance with clause "Notices" above, to make changes within the general scope of the Contract in any one or more of the following: -
 - drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;

Signature of Bidder with Seal

Date:


वी.एस.पथक
मुख्य वैज्ञानिक
Page 59 of 141

RSPCB

2025-26



- vi. the method of shipment or packing;
 - vii. the place of delivery; and
 - viii. the related services to be provided by the supplier/ selected bidder.
- e) If any such change causes an increase or decrease in the cost of, or the time required for, the supplier's/ selected bidder's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly should be amended. Any claims by the supplier/ selected bidder for adjustment under this clause must be asserted within thirty (30) days from the date of the supplier's/ selected bidder's receipt of the Purchaser's change order.
- f) Prices to be charged by the supplier/ selected bidder for any related services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier/ selected bidder for similar services.

62.0 TERMINATION:

d) TERMINATION FOR DEFAULT

- iv. The tender sanctioning authority of RSPCB may, without prejudice to any other remedy for breach of contract, by a written notice of default of at least 30 days sent to the supplier/ selected bidder, terminate the contract in whole or in part: -
- e. If the supplier/ selected bidder fails to deliver any or all quantities of the service within the time period specified in the contract, or any extension thereof granted by RSPCB; or
 - f. If the supplier/ selected bidder fails to perform any other obligation under the contract within the specified period of delivery of service or any extension granted thereof; or
 - g. If the supplier/ selected bidder, in the judgement of the Purchaser, is found to be engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the contract.
 - h. If the supplier/ selected bidder commits breach of any condition of the contract.
- v. If RSPCB terminates the contract in whole or in part, amount of PSD may be forfeited.
- vi. Before cancelling a contract and taking further action, advice of senior most finance person available in the office and of legal adviser or legal assistant posted in the office, if there is one, may be obtained.

e) TERMINATION FOR INSOLVENCY:

RSPCB may at any time terminate the Contract by giving a written notice of at least 30 days to the supplier/ selected bidder, if the supplier/ selected bidder becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the supplier/

Signature of Bidder with Seal
Date:


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी
Page 60 of 141

RSPCB
2025-26



selected bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to RSPCB.

f) TERMINATION FOR CONVENIENCE:

- iv. RSPCB, by a written notice of at least 30 days sent to the supplier/ selected bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the supplier/ selected bidder under the Contract is terminated, and the date upon which such termination becomes effective.
- v. Depending on merits of the case the supplier/ selected bidder may be appropriately compensated on mutually agreed terms for the loss incurred by the contract if any due to such termination.
- vi. The Goods that are complete and ready for shipment within twenty-eight (28) days after the supplier's/ selected bidder's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - c. To have any portion completed and delivered at the Contract terms and prices; and/or
 - d. To cancel the remainder and pay to the supplier/ selected bidder an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the supplier/ selected bidder.

63.0 LAWS AND REGULATIONS:

The formation, validity and performance of this Contract shall be governed as to all matters by and under the laws and regulations of India and courts of Jaipur shall have exclusive jurisdiction in all matters arising under this Contract. The Supplier shall respect and abide by all laws and regulations of India and shall make its best effort to ensure that the personnel of the Supplier and their dependents, while staying in India, shall respect and abide by all laws and regulation of India. The Supplier shall protect, absolve and indemnify the Board, and their representatives from any claim, loss or damage arising from any non compliance alleged or proved, without claiming them for payment.

64.0 EFFECTIVENESS:

This Contract shall come into force and effect on the date of the Letter of Award and shall be in force until the expiry of the warranty period and all the payments have been made to the Supplier.

65.0 SPECIAL TERMS AND CONDITIONS OF TENDER & CONTRACT

1) PAYMENT TERMS AND SCHEDULE:

- a) Payment schedule - Payments to the bidder, after successful completion of the target milestones (including specified project deliverables), would be made as

Signature of Bidder with Seal
Date:


वी.एस.पथक
मुख्य वैज्ञानिक अधिकारी
Page 61 of 141

RSPCB
2025-26



Rajasthan State Pollution Control Board
 Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
 E-Mail: member-secretary@rpcb.nic.in
 Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



under:-

S. No.	Milestone/ Phase	Deliverables	Timelines	Payable Amount
1	Satisfactory delivery, installation & commissioning of the instrument.	i. Delivery of the instrument. ii. Installation of the instrument. iii. Commissioning of the instrument. iv. Training of the State Board officials.	T+60 days for commissioning and training (T=Date of work order)	80% of the total payment will be released
2	Performance during warranty and CAMC period of the instrument.	i. Onsite support/ service/ maintenance of the instrument. ii. Satisfactory performance report by the Authroized Person of the RSPCB. iii. NABL calibration certificate of each instrument	Yearly for a period of eight (8) years.	In equated installments of remaining 20% amount i.e. 20/8 per year shall be released.

Note:

- The comprehensive warranty shall be valid for five years along with additional CAMC for three years starting from the date of successful commissioning of the instrument
- The supplier's/ selected bidder's request for payment shall be made to the purchaser in writing.
- Due payments shall be made promptly by the purchaser, generally within thirty (30 Days) days after submission of an invoice or request for payment by the supplier/selected bidder /authorized partner, and the purchase has accepted it. Payment maybe delayed due to unforeseen circumstances.
- The currency or currencies in which payments shall be made to the supplier/selected bidder under this Contract shall be Indian Rupees (INR) only.

Signature of Bidder with Seal

Date:

डॉ. एस. परिहार
 वैयक्तिक अधिकारी

Page 62 of 141

RSPCB
2025-26



- e) All remittance charges will be borne by the supplier/ selected bidder/authorized partner.
- f) In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.
- g) Payment in case of those goods which need testing shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.
- h) Any penalties /liquidated damages, as applicable, for delay and non-performance as mentioned in this bidding document, will be deducted from the payments for the respective milestones.
- i) Taxes, as applicable, will be deducted/ paid, as per the prevalent rules and regulations.

2) SERVICE LEVEL STANDARDS/ REQUIREMENTS/AGREEMENT:

a) SERVICE LEVEL REQUIREMENTS

- i. Service level plays an important role in defining the Quality of Services (QoS). The prime objective of service levels is to ensure high quality of services from selected bidder/authorized partner, in an efficient manner to the identified users under this procurement.
- ii. The service level shall be tracked on a periodic basis and have penalty clauses on non-adherence to any of them. The Bidder shall submit reports on all the service levels to the Purchaser in accordance with the specified formats and reporting periods and provide clarification, if required. The service level defined below provide for target level of services required, measurements thereof and associated penalties.

S. No.	Measurement Parameter	Service Level	Penalty
1.	Time taken for responding in the issues requiring technical support telephonically/e-mail.	Within 8 hours of lodging the complaint	No penalty
2.	Time taken for responding in the issue requiring onsite servicing of the instrument.	Within 07 day of lodging the complaint	No Penalty
3.	Time taken for responding in the issues requiring technical support telephonically/e-mail.	After 7 days of lodging the complaint	Rs. 500 per day
4.	Time taken for responding in the issue requiring onsite servicing of the instrument.	After 72 hours of lodging the complaint	Rs. 1000 per day

In case the supplier fails to rectify the defect(s) within 15 calendar days, it may be considered as breach of contract. Maximum applicable penalty shall be 10% of the agreed yearly value.

Signature of Bidder with Seal

Date:


 डॉ. एस. परिहार
 Page 63 of 141
 मध्य प्रदेश सरकार

RSPCB
 2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



66. Border Security Act-

Any 'Bidder from a country which shares a land border with India', as specified in the Bidding Documents, will be eligible to bid in this tender only if bidder is registered with the Competent Authority as mentioned in the Bidding Documents.

Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, will be eligible to bid only if the bidder is registered with the same competent authority.

However, the said requirement of registration will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects.

र.स.प.स.
वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

Signature of Bidder with Seal
Date:

RSPCB
2025-26

वी.एस.परिहार
Page 64 of 141
मुख्य वैज्ञानिक अधिकारी



Rajasthan State Pollution Control Board
 Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
 E-Mail: member-secretary@rpcb.nic.in
 Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



ANNEXURE-I

No.: - F11 (702)/RPCB/Lab/2023-24/

Date:

CHECKLIST TO BE SUBMITTED ON THE FIRM'S LETTER HEAD DULY SEALED AND SIGNED

S. No.	Particulars	Information to be filled by the Bidder	Page No.
1	Bid is to be addressed to Member Secretary, RSPCB, Jaipur.		
2	Name and full address of the firm submitting the bid		
3	Details of the bidder		
	a) Name of the Proprietor/ Partner / Director /Authorized person		
	b) Postal address		
	c) Mobile No. &Designation		
	d) Telephone No.		
	e) Fax No.		
	f) E-Mail address		
4	PAN No.		
5	GST registration No.		
6	Annual Turnover of the firm / company for : the last three financial years- (i) Year 2021-22 (ii) Year 2022-23 (iii) Year 2023-24 (Enclose certified documents)	Rs. Lac Rs. Lac Rs. Lac	
7	Bank details for payment a. Name of the Account b. Bank A/c No. c. Bank name d. Branch name e. IFSC Code f. Other details	
8	Any other information vital for entering for Tender		

Signature of Bidder with Seal
 Date:

वी.एस.शर्मा
 मुख्य वैज्ञानिक अधिकारी

RSPCB
 2025-26



9	Copy of the orders with Govt. organizations/ NABL labs/reputed institutes any other (in India) 22-23, 23-24 and 24-25 with satisfactory work completion certificates as per point no.4 of the eligibility criteria.				
10	Tender document fee Rs. 2000/- in form of D.D./RTGS/NEFT in favor of Member Secretary, Rajasthan State Pollution Control Board, Jaipur).				
11	Tender Processing Fee Rs. 2500/- D.D. in favor of MD, RISL, payable at Jaipur)				
12	Information regarding current litigation/ past Debarment / black listing, if any.				
13	Detail of Demand Draft's				
	Particular	Name of Bank and Branch	DD/UTR No.	DD date	Amount
	Processing Fees				
	Tender Fees				
	EMD (Category wise)				
14	Documents required, place date page: 1. Bid Security Declaration Form (dully filled) 2. Turn over Details 3. Copy of GST Certificate and Returns 4. Authorization Certificate 5. Duly Filled Integrity Pact (format attached) 6. No lesser price certificate				

UNDERTAKING

1. That I/we have carefully studied all the terms & conditions of the tender and all terms and conditions are agreed and acceptable to me/us.
2. That I/We shall supply the items of requisite quality at the given time and in case of failure to do so, penal action against liquidated damages may be taken against me/us.
3. That I/We undertake that sample of items will be kept ready for inspections by the RSPCB, Jaipur. I/We shall be responsible for the cancellation of tender if samples are not up to

Signature of Bidder with Seal
Date:


वी.एस.परिहार
Page 66 of 141

RSPCB
2025-26



mark.

4. That I / we are not blacklisted/ suspended or any service-related dispute with Govt. organization in India or abroad.
5. I know the fact that incase of non-fulfillment of any of the required information/document(s), the bid will be summarily rejected without giving any notice.
6. That I/We undertake that the rate offered by me/us is not lesser than the rate quoted to any other Govt. Organization in Rajasthan/India by me/us. I/we know that in case the RSPCB finds that the rates offered by me/us is lower than quoted to any other Govt Organization, the supply/work order may be terminated and my/our firm may be banned for participating in future tenders of RSPCB.
7. That I/We undertake that the information given in this bid are true and correct in all respect and I/We hold the responsibility for the same.
8. We agree to abide by all the conditions mentioned in NIB Number issued by Member Secretary, Rajasthan State Pollution Control Board (RSPCB), Jaipur and also the further condition of the said bid Notice given in the attached sheets (all the pages of which have been signed with seal by us in token of our acceptance of the terms mentioned there in).
9. All types of taxes are included in quoted price.

Date:

Place:


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

Signature of bidder with seal

Signature of Bidder with Seal

Date:

RSPCB
2025-26



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BID FORM FOR TECHENICAL BID

(Please do not write the Price)

Details showing specifications and other details of the equipment offered)
 (To be filled by the bidder and must be kept marked as "Technical Bid" part of the Bid)

ANNEXURE-II

Sr No	Item Code with Instruments Name	Specifications specified by the Board		Remarks, If any
		Particular/Criteria	Requirement	
	A	B1	B2	C
1	<u>Analytical Balance (5 Digit)</u>	Capacity	220 gm maximum capacity	
		Readability	0.01 mg upto 80 gm/0.1 mg upto 220 gm	
		Tarring Facility	Entire Range	
		Repeatability	0.02 mg /0.07 mg	
		Display	Touch Screen Display	
		Calibration Adjustment	Should have internal calibration facility with internal adjustment weight and provision for external calibration, Calibration mode - Fully automatic time and temperature controlled in built adjustment	
		Linearity	0.2 mg in full scale	
		Printing Port	3 interface system USB/ Ethernet for printer and for computer SICS command function is there.	
		Settling Time	<5 sec. or better	
		Weighing Pan	min 80 mm or higher with Full metal Housing (S.S) (Anti corrosive)	
		Draft Shield	Manual Glass Draft shield	
		Level Control	Level control on screen guidance and warning feature for Easy levelling	
		Power Supply	Should operate on 230±10 Volts, 50 Hz, AC	
		Other Requirements	(i) To be supplied complete with dust cover, Operation Manual, (ii) NABL Calibration certificate must be provided with each instrument for entire 8 years on yearly basis.	
		Door Mechanism	Ergo Doors	

Signature of Bidder with Seal
 Date:

रा.एस.परिहार
 मुख्य वैज्ञानिक
 Page 68 of 141

RSPCB
 2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



Data Transfer	MT SICS command
Password protection	Password Protection with User Management
Calibration weight box	Standard calibration weight box 1.0 gm to 200 gm of E2 class traceable to National/international standard with certificate(only one set for all balances)
Warranty	Warranty for 5 years from date of installation
Calibration	The instrument must be calibrated from NABL accredited laboratory NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)

2

BOD Incubator

Stainless steel double-walled (inside SS 304 and outside by powder coated steel) chamber with at least 70 mm thick PUF insulation or better to minimize the heat exchange. The outside metal door with proper insulation shall have the magnetic gasket and lock and key and door alarm sytem	
Capacity	250 to 300 Ltrs.
Material	Internal – stainless steel; External – powder coated steel.
Temperature	5° to 60° C, with accuracy of $\pm 0.5^{\circ}$ C or Better
Temperature uniformity	< 1.5°C or better
Display	Digital display of date, time & temperature
Alarm	Over temperature limiter and door opening alarm
Control system	Micro processor based PID controller with digital display and PT-100 sensors, With Printer interface facility.
Glass Door	Full view inner transparent door with Frame closes on a resilient gasket and allow inspection of the object , without disturbing the thermal conditions of the instrument chamber.

Signature of Bidder with Seal
Date:

वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



3	Compressor	Hermetically sealed compressor coupled with evaporation coil and condenser, safe guarded by time delay circuit, CFC free refrigerant.
	Mounting	Cooling Unit is placed on heavy duty Iron angle Frame below the Chamber with Castor wheel
	Blower	Air is circulated by self cooling Motor with fans to keep the temperature uniform throughout the inner chamber.
	Inside Chamber	Stainless Steel with with long life stainless steel tubular air heater and adjusting perforated shelves at convenient Illumination Lamp (15 W) will be provided inside the Chamber.
	Power	220/230 Volt, AC, 50/60 Hz mains
	Shelves	Three adjustable Stainless Steel Perforated Shelves
	Accessories	Supplied complete with Voltage Stabilizer and Instruction Manual power cable, plug and tool kit etc.
	Instrument Certification Required	ISO 9001 and IQ, OQ, PQ documentation are mandatory required. USFDA listed or equivalents documents required also.
	Safety device	electric circuit breaker TDR (Threat detection response)and OCR (Optical character recognition) for compressor switch on./ CLS (custom logical safe)- control system
	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
	Warranty	5 years from the date of installation.
	Conductivity Meter Mode	Conductivity, Temperature, Salinity, TDS (Bench Top Model)

Signature of Bidder with Seal
Date:

म.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
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Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



Display	LCD, Simultaneous display of Temperature
Control	Microprocessor with all functions automatically.
Conductivity Range	0.05 micro siemens to 500.00 millisiemens
Resolutions	0.01/ 0.1microS, 0.001/0.01/0.1 mS
Accuracy	+/-1.0% of Full Scale or better
Temperature Range	0.0 to 100 °C
Temperature Accuracy	±0.2°C or better
Resolution	0.1°C
Auto Read	Automatic/manual selectable
Temparature Normalisation	15 °C-25 °C
Calibration	5 points
Cell constants	Cell Constant selection : 0.01 to 10 (provide NIST traceable certificate)
Salinity Range	0.0 to 50% or more, in direct display.
TDS Range	0.05 to 50000 mg/L or more
Power Supply	230 ±10Volts / 50Hz Ac/ Battery operated
Warranty	5 years comprehensive on instrument & at least 12 months on electrodes.
Splash Proof Housing	Yes
Calibration Protocol	Yes
USB Port	Yes
Alarm Functions	Yes
Accessories :-	
Ø To be supplied complete with carrying case, Electrode (1+1) ,Cell Graphite with Epoxy-Body Conductivity/ATC Probe., electrode should be supplied along with meter.(Nearly 0.5 K), Electrode stand, Operation & service Manual (Two set).	
Ø NIST traceable reference solution(minimum 05) 500 ml each covering both lower and upper side , Temparature compensation ATC/MTC, conductivity cell: 4 cellGraphite epoxy body with 0.5 K.	

Signature of Bidder with Seal
Date:

वा.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



4	<u>COD Digester with Condensers</u>	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
		Warranty	5 years from the date of installation.
		Capacity	15 Samples at a time
		Construction	Should be compact and made of SS and should have 15 holes to take reaction vessels, cooling tray and an air cooler stand for 15 air coolers and stand for 15 reaction vessels. The capacity of glass vessels should be 200ml. Air Condenser should be of total length 700 mm or better.
		Temperature	250°C ± 1.0°C (uniform heating)
		Temperature controller	Digital PID temperature cum controller with built in timer for temperatures up to 250°C
		Timer	Integrated Programmable time with digital display of set value and process value. Programmable countdown timer in HH:MM up to 99 hours 59 minutes with 2 hours adjustable timer with buzzer.
		Sample size	20 ml (Total volume 60 ml with reagent)
		Safety features	Auto alarm /Buzzer for user's attention, Auto power off mode on completion of COD digestion, Automatic safety features like auto over temperature protection,
		Glassware	15 reaction vessels along with air condensers. (Should be made of standard quality Borosilicate glass). Additional 15 reaction vessels and 15 Air condenser should also be supplied.
		Accessories	1. SS holder for glassware handling along with FRP water tank

Signature of Bidder with Seal
 Date:


 वी.एस. परिहार
 मुख्य वैज्ञानिक अधिकारी

RSPCB
 2025-26



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Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



		2. Aluminum stand for reaction vessels	
		3. Aluminum stand for air condensers	
		4. Standard Toolkit and Manual	
	Display board	Digital LCD display with big visible fonts with date & time	
	Power Requirement	230 V/50Hz AC mains.	
	Calibration	The instrument should be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
	Warranty	5 years from the date of installation.	
5	<u>Centrifuge</u>	RPM (Max Speed)	6000, Centrifugation glass tube size 100 ml, at least 04 at a time and stepless speed regulator.
		Maximum RCF	5250 or better
		Digital Timer Range	0-99 min
		Display	7 segment LED display, Microprocessor based
		Chamber (Inner)	Stainless Steel
		Header	4x100 ml
		Power	230V, 50 Hz
		Motor	Brushless induction motor with variable frequency drive
		Instrument Certification Required	ISO 9001 and IQ, OQ, PQ documentation required mandatorily. USFDA listed or equivalent (documents required)
		safety features	automatic roter identification safety lid inter lock, imbalance detection and stop. Dynamic break for quick deacceleration. gas hinge to prevent door falling.

वी.एस. परिहार
मुख्य वैज्ञानिक अधिकारी

Signature of Bidder with Seal
 Date:

RSPCB
 2025-26



	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
	Warranty	Five years from the date of installation.
6	Deep Freezer (chest type)	Robust construction for heavy duty use, has lock and key system and recessed handle for durability, 5 Star Rating Refrigerant, enhanced power saving, Heavy duty castor wheels at bottom of freezer, High density puff insulation for better holding time
	Temp. range	(-5 to +8) degree C
	Compressor	Quiet in operation, energy efficient
	Stabilizer Free Operation	YES
	Capacity	500 Litre or above
	Number of Doors	double door
	Power supply	230 ± 10 V AC, 50 Hz.
	Refrigerant	R290
	Defrost	Manual Defrost
	Door Mechanism	Swing/Hinge Door
	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
	Warranty	Five years from the date of installation. 10 years on compressure
7	Digital Portable Barometer	Features: Portable High Accuracy Barometer. Measures the actual barometric pressure.
	Working temperature:	0°C to 55°C (32°F to 131°F).
	Data field:	8 to 17 psi (~560 to 1170 mbar)
	Accuracy:	±3 hPa

Signature of Bidder with Seal
 Date:


 वी.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी
 Page 74 of 141

RSPCB
 2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in,
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Resolution	±0.1 hPa
Conditions for the accuracy	100 to 900 m height. Normal battery voltage.
Altitude	Displayed in feet or meters
Operating Modes	Local pressure, sea level pressure from user set height, altitude from user set datum
Display	LCD with white LCD backlight. Stopwatch/time of day clock
Calibration interval	180 days
Calibration adjustment	Zero and Span may be reset without affecting linearity.
Pressure units	mm Hg, PSI, in Hg, mbar, bar, hPa,
RESET:	Resets the memory. The height must be set again.
Process Features	Min/Max capture, leak test, damping rates, auto shutoff
Battery life	200 hrs
Certificate	Supplied with Calibration Certificate Traceable to NIST
Weight with Battery	less than 120 gm.
Communications	RS-232
Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
Supplied all required accessories for measuring. Pressure port: Clean, dry, non-corrosive, non-combustible, non-oxidizing gases for all rated ranges.	
Warranty	Five years from the date of installation.

8	<u>Double Distillation Water Assembly</u>	Double distillation unit with water softener designed according to quality of feed water, Compact vertical design with cabinet , auto Cut (With Alarm) in reference to Water Flow and Temperature and built in boiler over heat protection.
		Water output min. 2.5 Ltr/hour
		Quartz make Double walled condenser

Signature of Bidder with Seal
Date:

वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



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	Power cutoff and safety control unit	Controlled power supply	
	Boiler and Condenser	Quartz Boiler and Condenser, Should have large boiling space. Minimum Requirement.	Cooling Water
	Specific Conductivity	0.1-0.5 μ s/cm	
	Biological Activity (Distillate quality)	Pyrogen free	
	pH	6.0-7.0	
	Organic Matter	Nil	
	Total Solids	0.1 mg/Ltr or less	
	Silica	<0.01 mg/Ltr	
	Free Service:	For 1 year after expiry of warranty	
	Electric Requirement	Single Phase 230 \pm 10 Volts	
	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
	Warranty	Five years from the date of installation on applicable parts	
9	<u>Filtration Assembly (Suction Pump For Suspended Solids)</u>	Material	Stainless steel lid, funnel, base, clamp and filter support of SS perforated filter mesh with 1 place manifold (simple type)
		Filter diameter	47mm
		Filtration area	12.5 cm ²
		Funnel	Stainless steel, 47mm dia with 650 ml (minimum) Capacity.
		Suction flask cup	2.0 litre
		Connections	Outer diameter of base outlet 10mm.
		Operating pressure	Vacuum only
		VACUUM PUMP	

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RSPCB
 2025-26



Type	Single phase motor with IP 44 type of protection, with carrying handle and sturdy rubber feet
Vacuum	Should be adequate for smooth filtration of water/waste water. The pump should be an oil free pump/diaphragm with continuous heavy duty type.
Flow rate/ rating	15.0 LPM (Maximum)/ 0.12 KW or 1/16 HP
Supply voltage	230 \pm 10VOLTS, 50 Hz, Single phase AC
Ambient temperature	45°C (Maximum)
Warranty	Five years from the date of installation.
Calibration	The instrument should be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)

The Assembly should be complete with perforated Neoprene stopper, 2 nos. suction flask of 2 liter capacity, Vacuum hose pipes, stainless steel forceps, power cord with plug and toggle switch, and operating manual with standard tool kit.

10	<u>Heating Mantle</u>	Heating Mantle	Made of yarn providing uniform heating of flasks up to 250°C with load voltage of 1.0KW.
		Construction	Built In energy regulator, temperature controlled, indicator light fitted in painted metallic box.
		Holding capacity	Holding capacity for 1000 ml flask.
		Heating element	ISI marked heating element
		Warranty	Five years from the date of installation.


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11	High Volume Sampler	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
		Power requirement	220 ± 10 volt 50 Hz AC
		Housing	Sturdy Aluminum cabinet and consist of Blower, Filter holder assembly, time totaliser, Real time timer, flow meter, Flow controller & flow measurement device with all indicating devices.
		Heavy duty Blower	Brush less motor capable of giving free flow up to 1.7 M3/minute.
		Power Supply	220 VAC ± 10V, 50 Hz (Single Phase)
		Flow Rate	0.9 to 1.4 M3/minute
		Auto shut of timer	24 hour programmable digital timer to automatically shut off the system after pre-set time intervals. Flexible to set at any interval of time
		Time Totalizer	0 – 9999.99 Hrs
		Flow measurement	Glass Manometer tube accurately graduated directly in M ³ /min and calibrated across orifice
		Weight	Easily transportable/portable
		Area	As compact as possible
		Standard Accessories	Equipment to be supplied with power cord, Operational & trouble shooting Manual (Two set) Calibration Certificate for flow meter.
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)

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 Page 78 of 141

RSPCB
 2025-26



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12	Hot Plate With Magnetic Stirrer	Warranty	5 years from the date of installation.
		Type	Compact with Stainless steel top heating plate. Hotplate-Should be ceramic coated chemically resistant to acid and alkali.
		Width	150 to 250mm or better
		Depth	250 to 300mm or better
		Height	100 to 150 mm or better
		Speed	Up to 1500 RPM, provided with electronic speed regulator.
		Heating element	should be 1.0 KW(ISI marked heating element)
		Temperature Range	Ambient to 200° C
		Stirring Unit	Should be enclosed so that corrosive fumes do not enter it.
		Stirring capacity	At least 2 liters (powerful motor of 150 watts motor rating input)
		Heating capacity	1000 watts provided with energy regulator
		Temperature uniformity	±1.0°C with sensor
		Temperature stability	±1.0°C
		Temperature indicator	Digital display. Controls for both hotplate and stirrer should be provided with suitable indicators.
		Power	(230±10) volts/50 Hz AC operated
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
		Warranty	5 years from the date of installation.


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RSPCB

2025-26



13

Hot Air Oven

Accessories	Teflon coated Magnetic stirring bars (cylindrical 12 mm, 25 mm, 35 mm) 10 nos each with 1 holding rods/ supporting rods. Necessary electrical cables should be provided.
Internal Chamber Size	minimum 45 X 40 X 45cm or more POLISH SS WITH ROUNDED CORNERS
Construction	Double wall stainless steel (SS 304) with inside mirror finish and outside chamber made of steel with powder coated having double layer glass door larger viewing window. Double wall insulated door with door lock.
Total Volume	80 Litre or higher
Temperature	10 °C ambient to 300°C
Resolution	0.1°C or better
Temperature stability	± 1.0°C
heater quality	ISI marked heating element
Programmable controller	Shall be available
Control	Microprocessor based PID controller with digital display and PT-100 sensor with provision of time display. TEMP SHALL be maintained for desired range in the entire internal chamber.
Timer	Timing range from 1 minute to 9999 minutes.
Rating KW	1.50 KW
Electrical wiring	High quality fire retardant with contactor
Power Requirement	230 ±10 Volt, 50Hz AC
No. of Shelves	minimum 2 nos. adjustable (SS perforated adjustable shelves)
Safety System	Over temperature and temperature difference alarm and cut-off power supply in case the controller fails.


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	Accessories	To be provided with Temp. control, digital display of temperature, Power cord (At least five meters): 02 Nos and plug
	Product Certification	ISO 9001 and Documentation for Installation Qualification (IQ), Operational Qualification (OQ), and Performance Qualification (PQ) must be provided. It should be USFDA standards compliant or equivalent(documents required)
	Air Circulation	An inbuilt air circulation fan with motor to maintain temperature uniformly inside the chamber.
	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
	Warranty	5 years from the date of installation.
14	<u>Muffle Furnace</u>	Must be designed for the environmental sample analysis applications like, inorganic solids, volatile solids & loss on ignition at 550°C and ash content at 800°C & 1000°C, using silica and platinum crucibles with low power consumption.
	Constructions	Dual shell furnace housing of rust free stainless steel material. Housing made of textured/mat finished stainless steel. Shall be compact and light weight. Multi layered high thermal efficient insulation with fiber plates in the furnace chamber.
	Temperature Range	300C - 1100°C with working temperature 1000 oC
	Size	Internal furnace cavity dimensions shall be at least 150 x 300 x 150 (w x d x h) mm.
	Capacity	Volume of the furnace internal cavity shall be about minimum 4 liters or better

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	Heating	Based on heating elements Kanthal "A1" grade or better and ISI marked heating element
	Temperature Controller	Microprocessor based PID controller and digital temperature indicator
	Display	LCD / LED
	Door	Opening & closing with heat proof handle. Exhaust fume exit provision.
	Power	230 ± 10V/50 Hz AC
	Calibration and Inspection	Shoud have calibration and inspection certificate from factory. Calibration of the equipment shall also be ensured during warranty.
	Features	Highly insulated, Pilot lamp for thermostat operation, Safety interlock switch for open door
	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
	Warranty	5 years from the date of installation.
15	<u>Sound Level Meter (Class-I)</u>	Digital Integrating Sound Level Meter (Class-I)
		Display Language
		Display type
		Confirmation with National & International Standards
		Microphone (class-I)

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Ranges	20-140 dB in single measurement range however SLM should be capable to get upgraded to microphone 25-160 db in a single measurement range (without need of switching between ranges) in future whenever required. Department will procure only high level microphone(s) and its adapters whenever required in future.
Parameters	L1,L5,L10,L50,L90,L95,LMax,LMin,Lpk(peak),Leq, SPL etc,with date & time
Frequency Weighing	Simultaneously Measurement A,C & Z
Response Time	Fast,Slow&Impuse (less than 100 μ S)
Octave Bands	1:1 and 1:3 octave
Weight	Light Weight (Not more than 400gms)
Operating Range	Temp. -10.0 degree C to 50.0 degree C , Humidity: 10% to 90% RH, non -condensing
GPS	Inbuilt GPS should not be detachable from the instrument and operative without internet.GPS location must be stored with each reading on meter and can be seen on SLM memory.
Printer	BIS approved portable and battery rechargeable mini dot matrix printer along with logo of RSPCB and GPS cordinates. On field printout should come with RSPCB logo make, model and serial no. of SLM. Date time and reference level of pre and post calibration , Leq, L50, L90, 1/1 or 1/3rd octave band alongwith GPS co-ordinates.
Storage	More than 500 data files storage capacity or minimum 2GB inbuilt memory.
Internal Clock for date and time	Internal Memory to store date and time and automatically synchronized with present date and time whenever instrument started even after battey removal.

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Computer Interface	Data logging with USB interface compatible with window 7 or better.
Calibration	quoted model of Sound Level Meter as well as Acoustic Calibrator should be calibrated by NPL at the time of supply Or other equivalent national and international agencies.NABL Calibration of each equipment shall be ensured during whole warranty and AMC period on yearly basis.
Field Calibration	Auto calibration (user friendly) at level 114dB and 94 dB (± 1 dB) separator calibrator should be provided with each instrument.
Specification for Acoustic Calibrator	IEC 60942 :2003 or ANSI S1.40:2006 (Class-1) Calibrator frequency 1 Khz or better each at 94 dB and 114 dB. Harmonic distortion less than 1%. Accuracy ± 0.25 dB at 25 degree C.
Batteries	BIS approved Alkaline orrechargeble cell with charger plus Lithium(at least 8 hrs of back up or more) with lowbattery indicator.
Power back up	should have external power back up facility to have cont. Measurement for more than 24 hrs.
Warranty and CAMC	05 year warranty and 03 years CAMC
Demonstration & Training	Free hand on training FOR, tehcnical assistance as and when required.
SLM Kit Includes	SLM with class -I microphone, Accoustic Calibrator, Dot matrix rechargeble printer alongwith charger, heavy duty carry case, Tripod, rechargeble batteries, alongwith charger, power pack, USB cable, data logging software, user maual.
Remarks	OEM should have own service centre with calibration facilities in India at different frequencies. Periodic calibration as per IEC 61672-3:2013

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		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
		Warranty	5 years from the date of installation.
16	pH Meter	Microprocessor based bench top pH meter for routine measurement of pH / mV & temperature with having dual power operating facilities (230 ± 10 V online power mains operation and large multifunction digital display, automatic temperature compensation, and parallel temperature display, 6 - point calibration system in a set including gel filled pH combined electrode with inbuilt temperature sensor. The equipment should be water proof, light weight and portable with all accessories, standards (NIST Traceable) etc.	
		pH Range	(-2.000 to 20.000) pH
		Resolution	0.1/ 0.01/ 0.001 pH
		Accuracy	± 0.002 pH
		Calibration	automatic, six point calibration, standard buffers available (1.68, 4.01, 7.01, 9.18, 10.01, 12.45) buffer should be NIST traceable.
		mV Range	± 1999
		Resolution	0.1 mV or better
		Accuracy	± 0.1 mV or better
		Temperature Range	0-100.0 degree C
		temperature Resolution	0.1 °C
		Accuracy	± 0.2 °C or better
		Temp. Compensation	Automatic
		Reference Temperature	As per mentioned range
		Power Supply	Online for 230 ± 10 V AC and 9 V rechargeable batteries.
		Internal Diagnostics / Self Test Facility	Yes

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Page 85 of 141

RSPCB

2025-26



	Splash Proof Housing	Yes
	Display	LCD/LED Display of the condition of electrode with warning display
	Simultaneous Temperature & pH Display	Simultaneous display of Temperature and pH
	Membrane Keyboard with pressure defined points	Yes
	USB Port	USB Interface /RS 232C interface to attach the normal printer / PC.
	Sensor Validation	Yes
	Combined Electrode Specifications	Combined (glass/reference), composed of epoxy, Ag/AgCl
	Reference Electrolyte	One year replacement warranty
	Electrode Maintenance solution	Suitable electrode filling solution for at least 2 years hassle free operation
	Warranty	Five years from the date of installation. One year on electrode
	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
	Accessories :	
	Power cord, Operation and service manual (2 copies each), one extra Electrode, Electrode stand (preferentially Flexible) Beakers for calibration etc.	
	NIST traceable Standard buffers for 6 point calibration at least 500 ml each.	
17	Refrigerator	Capacity 240 Litre or above


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		Key Feature's	Door Cooling+ Multi Air Flow minimum 03 Star Rating Smart Diagnosis Auto Smart Connect Minimum three no. of shelf Temp of freezer and fridge may be convertable with outer display.
		Compressor Type	Smart Inverter Compressor
		Door alarm	Yes
		External LED Display	Yes
		Door	Double Door
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
		Warranty	Comprehensive warranty of 05 years from the date of installation, with compressor warranty 10 years.
18	<u>Respirable Dust Sampler</u>	Housing	Sturdy Aluminum cabinet and consist of Blower. Filter holder assembly, time totalizer, Real time timer, flow meter, Flow controller & flow measurement device with all indicating devices.
		Heavy duty Blower	Brush less and totally noiseless motor capable of giving free flow up to 1.4 M3/minute, for at least 28 hrs continuous operation
		Power Supply	230 ± 10 V ; 50 Hz (Single Phase)
		Flow Rate	0.9 to 1.4 m3/minute free flow with flow stabilization by electronic flow control device

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Auto Shut Off Timer	24 hour programmable digital timer to automatically shut off the system after pre-set time intervals. Flexible to set at any interval of time.
Time Totalizer	0 – 9999.99 Hrs
Flow controller	Automatic Electronic Feed-back controller with pressure sensor to maintain Constant flow rate and compensate for dust load deposited on filter.
Flow measurement	Glass Manometer tube accurately graduated directly in m ³ /min and calibrated across orifice.
Auto Shut Off	Flow controller should have provision to automatically shut off the system if flow rate drops below 0.85m ³ /min in compliance with BIS 5182-part 23:2006.
Particulate Sampling / Separation	From 10 micron down to 0.1 micron on filter paper and coarse dust should be collected in a cyclonic cup as per BIS design.separation technology based on approved from CSIR NEERI lab.
Filter Holder	Aluminum Casting with fine finished rubber gasket.
Gaseous Sampling attachment	With thermoelectrically cooled controlled container.
Impinger Tubes	35 ml. capacity, 4 Nos. of Borosilicate glass midget impingers kept in thermoelectrically cooled facility for keeping the temperature of impingers around 15° C
Flow Control	Four Inlet and One outlet with built in Needle Valves for flow control of each unit & fitted with silica gel tubes.
Control Valves	Fine control, Calibrated and independent control to each impingers in thermoelectrically cooled controlled container.

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2025-26



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Environment

	Rotameter Flow Rate	Acrylic, maximum of 0-3 lpm (Least count 0.1 LPM) capacity with calibration certificate should be provided by manufacturer.
	Weight	Easily transportable/portable
	Area	As compact as possible
	Standard Accessories	Equipment to be supplied with power cord, Operational & trouble shooting Manual (Two set) Spares glass midget impingers 10 nos., Calibration Certificate for flow meter Rotameter & orifice., Fuse -02 Nos, Rain Covers, Tool Kits with in part
	Warranty	Five years from the date of installation.
	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
19	Specific Ion Meter (Ion Analyzer) for fluoride, Nitrate	Ion Concentration measurement
		Range: 0.0001 to 19999 ppm
		Resolution: 0.1/0.01/0.001
		Accuracy: $\pm 0.5\%$
		Calibration points: 05 points
		pH Range
		(-2.000 to 20.000) pH
		Resolution
		0.1/ 0.01/ 0.001 pH
		Accuracy
		± 0.002 pH
		Calibration
		Automatic upto 05 points calibration, Buffer Groups: USA/ NIST traceable.
		Temperature Measurement
		Range: -0-100.0 degree C
		Resolution: 0.2 °C
		Accuracy : ± 1.0 °C
		Mili Volt Range
		± 1800 or higher
		0.1mv
		± 0.2 mV.
		Display
		Graphic LCD backlit display.

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Printer / Computer connectivity	Should have USB Port for attachment of Printer/ Computer.
Power Supply	DC Volt Line adapter for 230 ± 10 volts, 50 Hz, AC
Ion Selective Electrodes	Two channel ion meter with independent calibration of two ion selective electrode with standard electrolyte solution having at least one year of shelf life.
Additional Feature's	Built-in stirrer and Fluoride ISE. Nitrate simultaneously. Touch Screen Display with Dual Channel ION Modes
Spares and consumables	Should be supplied for two years trouble free operation.
Electrodes (Epoxy body combined solid state) and calibration standard NIST traceable. Fluoride Electrode suitable for range of 0.02 ppm to saturation. Nitrate electrode combined liquid membrane, suitable for range 0.1 to 14000 ppm as N. PH electrode: Epoxy body gel filled.	
All electrode shall be provided/supplied along with reference Electrode fill solution. Standard solution NIST certified 500 ml each for Fluoride, pH and Nitrate. pH, Nitrate and Fluoride shall be provided with the Equipment. One electrode extra for	
Warranty	Five years from the date of installation.
Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
Accessories	
Should be supplied with Power cord, Dust cover, connecting cable, Power adapter, Operational Manual (Two Copies of each), Electrode Stand (Flexible) Beakers for Calibration.	
20	Stack Monitoring
	Instrument Panel
	Manometer
	Digital with 0-1300 mm of H ₂ O range

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 2025-26



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Kit

Stack velocity Range	3 to 60 m/sec
Particulate Matter Sampling	0 to 60 LPM,
Gaseous Sampling	0 – 3 LPM collection in a set of borosilicate glass impingers
Rotameter	Plastic body rotameter with 2% FSD accuracy, 0-60 lpm for particulates and 0-3 lpm for gases
Digital Clock	0-60 minutes, 1 second readout with start and stop switches
Pyrometer Range	Ambient to 600°C (Digital display) and 500-1000°C read separate digital pyrometers.
Thermocouple	Thermocouple sensor SS 304 casing with digital display capable of measuring temperature from 0 to 600°C covered with acid resistant casing and appropriate length (length same as that of pitot tube with 2 M long cable).
	Separate suitable thermocouple with digital display capable of measuring temp. from 500°C to 1000 °C covered with acid resistant casings and appropriate length same as that of pitot tube with 2 M long cable).
Oil Free Vacuum Pump Assembly	
Rotary design and oil free vacuum pump with moisture trap and should be portable.	
Flow	Capable to ensure 60 LPM effective gas flow
Weight	Vacuum pump should be light weight (Weight should be less than 10 Kg)
Pipes	Two set of all required connecting pipes (hose) with leak proof joints. One additional 10 meters length pipe (hose).
Pump Housing	Mild steel case with oven-baked stove-enamel finish and ON/OFF switch with indicator lights.
Power	Single phase motor, 230 ± 10V.
Nozzles, Pitot & Sampling Probe	

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Set of iso kinetic Samples Nozzles	3 set of nozzles (minimum 4 nos. sizing 1/8", 1/4", 3/8", 1/2") fabricated from SS 304 or equivalent material with internal diameter suitable to cover the full range of stack velocities. The leading edge of the nozzle should be sharp and tapered.
Sampling Probe and 'S' - type pitot tubes	Modified S- type pitote tube shall be fabricated from SS 304. Calibration certificate should be provided for each pitote tube (0.6 m extendable to 1.2 mtr)
Sampling Probe	Fabricated from SS 304 tube of suitable diameter (not less than 15 mm ID). The lengths of the Pitot tube and the sampling probes shall be of 1.5m extendable to 2 meter.
Thimble Holder	Made of SS 304 tube suitable to hold cellulose/glass filtration thimble (size 28mm ID x 100 mm long) or glass micro fiber thimble (size 19mm ID x 90 mm long)
Dry Gas Meter	In built dry gas meter heaving resolution of one liter
Cold Boxes for Impingers & Back Panel	
Cold Boxes for Impingers	Four impingers of 120 ml and two numbers of 250 ml capacity Borosilicate glass impingers. Facility should be there for keeping ice at the bottom of impinger box. Thermo electric cooling is desirable
Back Panel	Hinged door panel of mild steel to contain cold box with 5 impingers or cold box can be provided separately.
Calibration	Calibration certificates for Manometer, Rotameter, Pitot tube, Nozzles, Thermocouple and Dry gas meter etc. should be provided. Calibration of the equipment shall also be ensured during warranty.
Warranty	Five years from the date of installation.

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2025-26



		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
		Tools	A kit containing the essential tools required for connecting various components shall be provided with the equipment. Tripod stand
21	<u>Thermometer (Digital)</u>	Range-	50-300 °C (Digital display with degree Celsius and degree Fahrenheit) with certification
		resolution	0.1 °C
		Accuracy	±1.0° C
		Low battery indication.	
22	<u>Turbidity Meter</u>	Should be laboratory bench top turbidity meter suitable for measurements even for colored samples with Auto shut off.	
		Measuring Ranges	0.00 - 10 NTU; 10-100 NTU; 100 - 1000 NTU or higher
		Range selection	Automatic / manual
		Resolution	0.01 NTU, upto 9.99 NTU
			0.1 NTU from 10 to 99.99 NTU
			1 NTU from 100 to 999.99 NTU
		Accuracy	± 2% of reading or 0.02 NTU
		Repeatability	± 1 % of reading or 0.02 NTU, whichever is greater
		Stray light	Less than 0.02 NTU
		Light Source	tungsten filament lamp/light emitting diode for colorless samples and IR LED (should cover both visible and IR range).
		Sample Volume	10ml
		Memory	upto 5000 data
		Display	capacitive Touch Screen/digital
		Power	Re-Chargeable Li-ION Battery, AC 230V with adapter.
		Measuring mode	Normal, average, continuous

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 Date:


वी.एस.परिहार
 मुख्य वैज्ञानिक ३
 Page 93 of 141

RSPCB
 2025-26



	Data Logging	Optional USB connectivity.
	Calibration	4 Point calibration with vials for four standards .
	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
	Warranty	Five years from the date of installation.
	Accessories	
	Should be provided with operation & maintenance Manual (Two Sets), Cable and plug, and dust cover	
	Cuvettes and Cuvette stand (One Cuvette stand and ten Cuvettes).	
	The NIST certified Standards (with certificates) should be supplied with 500 ml of each standard according to 4 point Calibration.	
23	Total Kjeldhal Nitrogen Analyser	TKN system consists of digestion unit, acid fume scrubbing unit and distillation unit for the estimation of total kjeldhal nitrogen in water, industrial effluents, solid wastes, etc., samples.
		Digestion unit
	Automated with integrated programmable control	
	Capacity for 12 x 250 ml digestion tubes	
	Rapid heating via aluminum block	
	Should have the capacity to accommodate at least twelve numbers of digestion tubes each of at least 250ml capacity.	
	Temperature ranges from Ambient to 450 °C / 842 °F, Stability of ± 0.5 °C %, Precision of ± 0.5 °C %, Automatic temperature calibration	
	LCD /LED display and control system, Alarm messages, End of run audible signal, Readout in a choice of °C ,°F and K	
	Should have all essential accessorieslike digestion tube, SS onnert rack, exhaust manifold, SS stand etc. Shpold have leak proof integrated condensors made up of glass.	
	Shold have Auto scrubber power on and Proper digestion exhaust system.	
	Digestion timer for 1-999 minutes in 1-minute steps	
	ISO standards documents mandatory required .Conformity with EPA or equivalent also required. Complete with sample rack, drip tray, suction cap and test tubes, Availability of a dedicated scrubber to trap fumes for operator and environmental safety.	

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RSPCB
 2025-26



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Scrubber unit	
Effective acid fume suction and neutralization scrubber with alkali and water (two-stage) using non-corrosive and oil-free centrifugal suction type, with manual vacuum adjustment facility. Acid resistant tubing inter connections.	
Distillation unit	
Automatic distillation procedures with microprocessoe based distillation unit.: dilution of sample (water addition), alkali (sodium hydroxide) addition, acid (boric acid) addition, distillation time, steam output regulation, and nitrogen/protein calculation in different formats.	
Recovery more than 99.5 % at nitrogen levels between 1-200 mg/l.	
Should be made up of standard quality of borosilicate glass for steam generators along with heater. Steam inlet tube of PTFE.	
Reproducibility 1% RSD	
Detection limit : > 0.1 mg N	
Analysis time from 4 minutes	
Steam distillation in 3 to 4 minutes	
Built-in steam generator and Safety Thermostat. Absence of pressure in the steam generator to increase the safety level, Steam output regulation between 10%-100%	
Validated procedure/ guidelines certification of the for TKN distillation like, EPA or equivalent and Iso certification mandatory required.	
Unbreakable Titanium condenser which eliminates need of any external chiller to maintain the threshold temp	
Limited water consumption (0.5 L/min. with tap water at 15 °C, 1 L/min. at 30 °C)	
Automatic sensing no water condition in the condenser with auto alarm	
equipped with sensors for safety doors distillate temp and water level as well. Should have ventilation valve, automatic and precise dose of boric acid.	
Alarm messages and audible signal., 7" colored and interactive touch screen, Data transfer to pc or to a pen drive, data printing and balance connection, Ethernet, 2 x USB and RS232 connections, 50-program library on-board	
Accessories	
2 set of digestion tubes (24 tubes), Digestion tube stand. Spillage tray for the condensers, Tube removing device and operating manuals etc.	
Warranty: Five years from the date of installation.	


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Signature of Bidder with Seal
 Date:

RSPCB
 2025-26



24	<u>UV - Visible Spectrophoto Meter</u>	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
		Description	Real Double Beam microprocessor based controller having fully controlled by external PC using Windows based software working stand alone.
		Optical	Real double Beam with fixed spectral bandwidth 1 nm or lower.
		Light Source	Tunsten- Halogen and Dueterim lamp
		Wavelength Range	190-1100 nm range
		Wavelength Accuracy	0.1 nm at 656.1 nm and upto 0.3 nm or better at entire range.
		Wavelength Repeatability	better than or equal to ± 0.1 nm
		ABS	(-2.0 to 4.0) Ab or better
		Scan Speed	Slow, Medium, Fast (1000-25000 nm/minute) or better
		Photometric Drift	(+/-0.0002) absorbance units/hour at 0.5 A or better
		Noise Level	Should be 0.00020 Abs or better.
		photometric accuracy-	(+/-0.002 Abs(0.5 abs)
		Stray Light	Less than 0.02 % at 220- 250 nm or better
		Baseline flatness stability.	less than 0.0003 Abs/hr.
		Additional Feature's	instruments should be compatible ISO, APHA, ASTM. Instrument should measure Absorbance, Transmittance, Concentration & Kinetics modes of operations. Should include : a. 2 pair quartz's 10mm square Cuvettes. b. Full Range Scanning 190-1100nm

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 वी.एस.परिहार
 मन्त्रा वै. वि. वि.
 Page 96 of 141

RSPCB
 2025-26



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Certification	The supplier/OEM shall mandatorily submit ISO:9001 and CE certificates.
Power Requirement	230 ± 10 V 50 Hz AC
Warranty	Five years from the date of installation.
Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
Accessories	
Spare Parts	Essential spares parts for five year of operation for main instruments.
UPS	One No. of required capacity with each instrument.
Dust Cover	Two set
Computer and printer	Complete PC with each instrument .minimum Core i5 processor based PC to operate the UV visible spectrophotometer and should be compatible with UV visible software alongwith all required accessories. B/W Laser jet Printer. 4 Gb RAM, 1 TB hard disk, DVD writer LED monitor. Should be supplied with original licence key of the windows Microsoft Office. Antivirus software with licenced CD.Complete PC with mouse and all required accessories.
Operation Manual	Two set
25 <u>Visible Spectrophotometer</u>	Micro processor based single beam grating based single detector Spectrophotometer. The unit should have built in self diagnostics and the sampling compartment should have compatibility for round cells, square cuvettes.
Wavelength Range	340 to 960 nm.
Absorbance Range	(-0.3 to 2.5Abs)
Spectral Bandwidth	5.0 nm or better

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RSPCB
2025-26



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Wavelength Resolution	1.0 nm
Wavelength Display	3.0 Digit Digital
Wavelength Accuracy	1.0 nm or better
Photometric Resolution	0.1 %T , 0.001 Abs
Photometric Accuracy	± 0.001 Abs at 1 Abs
measuring mode value-	abs 0.001 to 1.999 , T 0.00 to 100%
Modes	%T, Abs, Concentration & K Factor
Concentration	0.000-9999 with floating decimal point
Photometric Readout	Digital LCD or LED. Selectable for Transmittance (T), Absorbance (A), Concentration (C) with auto zero facility.
0 & 100% T setting	Manual
Detector	Si-Photo-Diode
Grating	600 lines /mm
Source	Tungsten-Halogen lamp/
Interface	RS-232
Sample Holder	For holding up to 50 nm path length rectangular cuvette
Power Requirement	230 + 10 Volt, 50Hz.
Certificate	Certificate are to be enclosed from manufacturer regarding ISO 9001:2015 and other accreditation certificate from the National or International reputed (Whichever is applicable).
Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)

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RSPCB
2025-26



	Warranty	5 years from the date of installation	
	Accessories		
	Two pair quartz Cuvette (at least 10 mm path length), 02 operating manual (English), Dust cover.		
26	<u>Weather Station for Metrological Parameters</u>	Parameters	Wind Speed, Wind Direction, Temperature, Pressure, Relative Humidity, Rainfall and Solar Radiation.
	Wind Speed	WS range 0.5 to 100 Km/hr. With accuracy of $\pm 0.5\text{m/s}$	
	Wind Direction:	WD range 0 to 360 degrees with 01-degree resolution	
	Temperature & RH:	T range 0 to 50.0 °C with resolution of 0.1 C and 0 to 100% RH with 1% resolution	
	Solar Radiation:	Solar Radiation Sensor	
	Barometric Pressure:	Barometric Pressure Sensor	
	Rainfall:	RF range 0-50 mm per hour with 0.5 mm resolution	
	Memory Capacity	Minimum 45 days storage of all parameters in non-volatile flash memory	
	Real Time Sync	Includes built-in battery backed Real time clock which ensures data is synchronized with real-time even after periods of prolonged power failure	
	Software/Data Access	Windows compatible, software is provided for data download to a PC and analysis, and direct cable connection to USB ports. Analysis tools for export to MS Excel, Graphs, Monthly Averages & Windrose Diagrams	
	Power requirement	Preferably a rechargeable battery packs with minimum back up for about 15 hours.	
		A main power based charger and an optional Solar Panel based charger.	

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मुख्य वैज्ञानिक अधिकारी

Signature of Bidder with Seal
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 2025-26



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Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
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Warranty	Comprehensive warranty of 05 years from the date of installation.
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Construction	Double walled, inner & outer made of SS 304 and with proper insulation between two walls.
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Temperature range	5.0°C above ambient to 99.0C or better.
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Temperature accuracy	± 0.5°C
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Temperature Uniformity	± 1.0°C
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Holes	12 holes with 3" dia. Adjustable concentric rings to use flasks from 50 to 500 ml capacity.
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Temperature Control Primary	PID Controller
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Secondary (safety control)	Hydraulic thermostat controller
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Temperature sensor	100 Pt RTD
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Display	LED/ LCD to show temperature
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Bath Capacity	10 Liters
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Water Low-level cutoff	Yes, adjustable
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Working depth	6"
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Power	230 Volt AC, 50 Hz
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Base	Grounding should be with rubber bushes.
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Spares	One heater spare set shall be provided.
--------	---

27

**Water Bath
thermostatic**

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RSPCB
 2025-26



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28	<u>Flue Gas Analyser</u>	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
		Warranty	5 years from the date of installation.
		Discription	Supply, Installation and commissioning of Portable flue gas analyser for the determination of Oxygen (O ₂), Carbon Dioxide (CO ₂), Carbon Monoxide (CO), Nitric oxide (NO), Nitrogen Dioxide (NO ₂), Sulphur dioxide (SO ₂), Hydrocarbon C _x H _y (HC), Temperature, Efficiency and Pressure in flue gas stack outlet and other gas samples and 06 sensors may be attached at a time.
		Measurement Parameters, Range & Sensor Specifications	<ol style="list-style-type: none"> 1.Oxygen- (O₂) Electrochemical - 0-21 vol% or better-0.01% resolution 2. Carbon Monoxide(CO) Electrochemical(H₂ compensated) - 0-10,000 ppm with 01 ppm resolution 3. Carbon Dioxide (CO₂) - NDIR- 0-50 vol% with 0.1% resolution or better 4. Nitric Oxide- Electrochemical- 0-4,000 ppm or better with 1.0 ppm resolution. 5. Nitrogen Dioxide- Electrochemical- 0-500 ppm with 0.1 ppm resolution 6. Sulphur Dioxide-(SO₂)- Electrochemical- 0-5000 ppm with 1.0ppm resolution 7. Presuure(delta P)- ±200 mbar with 0.1 mbar resolution or better. 8 Temprature- k type thermocouple- 0-1200.0degree C with 0.1 degree resolution 9. Flue Gas Probe- min 1000 mm long probe with sintered filter, with special hose and handle min 2 filters required in Flue Gas path OEM make only and temparature withstand capacity upto 1200.0 degree. 10. HydrocarbonC_xH_y(HC)- Peelistor 100-40000 ppm with 10 ppm resolution.

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2025-26



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Display and User interface	Fully portable large color graphical back lit display with application specific menu and intuitive keypad to provide clear information and simple operation.
Sensors Type	All electrochemical sensors should be pre-calibrated and plug & play type.
Pump & Active flow control	Integrated auto-controlled high suction pump to draw gas sample with a flowrate of 1.0 litres/minute or better.
Operating temperature	must be 5 to 55 °C.
Additional Feature's	<ol style="list-style-type: none">1. Automatic fresh air rinsing / zeroing system shall be available.2. CO sensor overload protection like Dilution or CO purging pump must be available without effecting other measurements3. The Analyzer shall measure both Ambient & Flue Gas Temperature.4. The instrument has the ability to calculate efficiency, and excess air.5. Advanced instrument diagnostic function for gas path check, sensor check and error diagnosis.6. All gas readings should be simultaneously displayed, and the readings can be displayed as ppm or mg/m³ or %.7. The instrument must have minimum IP 40 Protection.
Inbuilt Peltier chiller assembly	An integrated moisture removal system to ensure that gas is completely dry before entering the analyzer with inbuilt Peltier chiller assembly & peristaltic pump to automatically remove condensate must be available. External cooling is not acceptable.
Time Response	Faster response time within 30 seconds to 1 minute for the most gases.
Memory	Instrument must have more than 2,00,000 Storage capacity. Data get store in Folder & Location selected by user with automatic data logging facility on selectable time interval without any PC or Laptop connection.

Signature of Bidder with Seal
Date:


वी.एस.परिवार
मुख्य Page 102 of 141

RSPCB
2025-26




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Communication interface	Instrument shall have Wireless/ Bluetooth and USB connectivity to transfer data from analyzer to PC/Notebook and the supporting software for data analysis shall be supplied which can generate report in terms of PDF, Excel & Diagram
The Analyser is modular, to enable expansion in future even though the initial configuration	a. for 6 Gas Sensors. b. Weight must be not more than 5Kg c. APP Connectivity for easy reporting.
Analyser shall be Incorporated with various Filters protection	a. Gas Pre Filter b. Water Catch pot c. SO ₂ Filter to trap any trace SO ₂ from damaging the CO Sensor, etc. d. Minimum 3 filters in flue gas path are required (45,25,20 micron) e. Supply 10 nos all three size of filter along with each instrument
Power supply	Built in rechargeable battery with minimum 08 hours of operation on one recharge and AC power adapter 220V 50 Hz.
Analyser shall have a built-in	a. Auto Diagnostics b. effective fault finding and status of cell. c. cell zero and cell life. d. Filter/error count.
Print option	Inbuilt/external Printer to produce comprehensive printed reports.
Sensor replacement	On Site sensor replacement mandatory not required to send instrument service centre.
High quality SO ₂ & NO _x tubing with inner PTFE coating must be supplied along with material	YES Required
Carry case	Soft and Hard carrying case must be supplied along with material for safe transportation.

Signature of Bidder with Seal
Date:


वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी
Page 103 of 141

RSPCB
2025-26



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Certification/Compliance	Instrument Must have USEPA/TUV/MCERT/NPL Certified. The complete system should be factory tested as per the scope of work.
Training & Installation	The Bidder/OEM should arrange the training on operation FOR day to day maintenance, system management etc. to ensure effective and safe use of the equipment after successful Installation and Commissioning of Instrument.
Service support	The OEM must have authorized service center & Calibration Lab as per ISO/IEC 17025 in India and maintenance base in local city or nearby area to provide maintenance service of the system being offered, efficiently and promptly.
Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
Warranty	5 years from the date of installation.

2. PM_{2.5} Sampler: -

S. No.	Particular /Criteria	Specification specified by the Board
		Requirement
1.	Sampler	Manual Filter Based Sampler (filter diameter 47 mm) as per sampler design & performance criteria as mentioned at Section A, B, C & D
2.	Flow rate	1 m ³ /hour (16.7 lpm) controlled by a suitable Flow Controller. The Flow Performance criteria should comply with BIS method 5182 (Part 24) 2019 Accuracy $\pm 2\%$ of the reading.
3.	Size Selective Inlets	Should have opposed jet impaction for PM ₁₀ cut-off and WINS Impactor/VSCC for PM _{2.5} collection on filter paper.
4.	Height of the inlet	The height of the inlet should be between 2 ± 0.2 m from the base of the

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 मुख्य वैज्ञानिक अधिकारी
 Page 104 of 141

RSPCB
 2025-26



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		sampler and the sampler should stand alone firmly at erected position
5.	Time Totalizer	Operates only during operation of the pump, display time with a resolution of one second.
6.	Vacuum pump	Suitable pump with brushless motor for providing the designed flow rate. Pulsating pump should have built-in pulse dampeners.
7.	Flow rate control	<p>Sampler should maintain designed volumetric flow rate (16.7 LPM) at inlet incorporating dynamic volumetric corrections with respect to temperature and barometric pressure. Necessary compensation of volumetric flow rate due to compensating pressure drop across the filter should also be ensured.</p> <p>Ambient temperature, barometric pressure during sampling must be displayed and recorded.</p> <p>Flow rate should be measured at least at 30 seconds interval and averaged over 5 minutes. The flow rate shall not vary more than $\pm 5\%$ from the specified flow of 16.7 lpm.</p>
8.	Data Management	<p>Memory-based recording for flowrate and total volume over five minutes should be downloadable to a computer through a suitable port and USB drive. Current/last logged data should be displayed. Logged data should have cloud connectivity and data of last sampling ten days must be available for crosschecking.</p> <p>Data management requirements (other) & ready reference as mentioned in the document Sections C & D of referred document.</p>
9.	Power Supply	A stabilized power supply through suitable voltage stabilizer having display of input and output voltage should ensure an output voltage within 230 ± 10 V, AC 50 Hz.
10.	Supply of Accessories	Manufacturer's standard operation kit must include all required, fittings and accessories for the operation of sampler. Accessories to be supplied with each unit should include Leak check unit-1No., Filter cassettes-2Nos, Filter Cassette Holder- 1No., Blunt Tip Forceps-1No., Filter Carrier- 10 Nos., Silicon Grease 10gm-1 box, Impaction Oil 100 ml-1 bottle. 05 Set of O-rings, pen drive 16 GB-01 No. and Cleaning Brush.
11.	Documents	Operation and maintenance manual of sampler, along with data transfer protocols used with their technical description for data management and data transfer.
12.	Certificates	NABL Calibration certificates issued by the manufacturer with references used for Flowrate, Temperature, Barometric Pressure and Time Totalizer should be supplied with each instrument. A satisfactory performance check certificate as mentioned in section B (para 2) is provided along-with all the data-sets recorded in the system for data management etc.
13.	Validation	<p>Preliminary test report/validation issued by NPL to be submitted for respective make and model.</p> <p>Any changes in model or declared components of the equipment require revalidation by NPL.</p>

Signature of Bidder with Seal

Date:

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RSPCB
2025-26



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		Submission of a preliminary test report/validation from NPL as per the set criteria of NPL is mandatory on or before 30th September 2023.
14.	Warranty	Comprehensive warranty of 05 years from the date of installation
15.	Calibration	The instrument should be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)

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Signature of Bidder with Seal
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2025-26



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ANNEXURE-III

**CERTIFICATE OF CONFORMITY/ NO DEVIATION WITH RESPECT TO BOARD'S
 TECHNICAL SPECIFICATIONS**

{To be filled by the manufacturer}

Please fill the following compliance sheet with respect to specifications offered Equipments.

S. No.	Name of Equipment	Specification of equipment (Only one make and model)	Original equipment manufacturer Details (Name, Address, E-Mail, Mobile Nos.)	Remarks
1	Analytical Balance, 5 Digit,			
2	BOD Incubator, Capacity 250-300 Ltr			
3	Conductivity Meter			
4	COD Digester			
5	Centrifuge			
6	Deep Freezer (Chest type)			
7	Digital Portable Barometer			
8	Double Distillation Water Assembly			
9	Flue Gas Analyser			
10	Filtration Assembly with Suction Pump For Suspended Solids			
11	Heating Mantle			
12	High Volume Sampler			
13	Hot Plate With Magnetic Stirrer			
14	Hot Air Oven			
15	Muffle Furnace, 800-1000 degree			
16	Noise Level Meter			
17	pH Meter			
18	PM 2.5 Sampler			
19	Refrigerator (2 Doors)			
20	Respirable Dust Sampler			
21	Specific Ion Meter (Ion Analyzer for nitrate and			

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 2025-26



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	Fluoride)			
22	Stack Monitoring Kit			
23	Turbidity Meter			
24	Total Kjheldal Nitrogen Analyser			
25	UV - Visible Spectrophotometer			
26	Visible Spectrophotometer			
27	Weather Station for Metrological Parameters			
28	Water Bath			
29	Thermometer (digital)			

I/We declare that make/model submitted by us is in conformities with specifications given in tender document. There will be no deviation of specified parameters /specifications.

Place:


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Signature of Authorized Signatory

Date:



Name and Designation with Seal

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2025-26



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 Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
 E-Mail: member-secretary@rpcb.nic.in
 Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



ANNEXURE -IV

Bid Form for Price Bid For
Details showing quantity, specification and other details of the instruments offered
(To be filled by the bidder and must be kept in "Price Bid" part of the Bid)

S. No.	Name of the Instrument / Equipment	Quantity & unit (in nos.)	Unit Price (excluding Tax including maintenance, freight, 05 years warranty including CAMC, 03 years additional CAMC after 05 year warranty period and calibration charges of 08 years(in figure) in INR only.	Amount of Taxes per unit (GST etc. in figure) in INR only.	Total Amount (F.O.R. RSPCB Delivery Destination) including all charges (in figure) in INR only.	Remarks
1	2	3	4	5	6=3*(4+5)	7
1.	Analytical Balance, 5 Digit,	20				
2.	BOD Incubator, Capacity 250-300 Ltr	15				
3.	Conductivity Meter	16				
4.	COD Digester	14				
5.	Centrifuge	14				
6.	Deep Freezer (Chest type)	17				
7.	Digital Portable Barometer	18				
8.	Double Distillation Water Assembly	16				
9.	Flue Gas Analyser	08				
10.	Filtration Assembly with Suction Pump	16				

Signature of Bidder with Seal
 Date:

RSPCB
 2025-26



Rajasthan State Pollution Control Board
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For Suspended Solids					
11.Heating Mantle	32				
12.High Volume Sampler	25				
13.Hot Plate With Magnetic Stirrer	15				
14.Hot Air Oven	19				
15.Muffle Furnace,800- 1000 degree	16				
16.Noise Level Meter	20				
17.pH Meter	18				
18.PM 2.5 Sampler	76				
19.Refrigerator (2 Doors)	15				
20.Respirable Dust Sampler	67				
21.Specific Ion Meter (Ion Analyzer for nitrate and Fluoride)	18				
22.Stack Monitoring Kit	16				
23.Turbidity Meter	05				
24.Total Kjheldal Nitrogen Analyser	04				
25.UV - Visible Spectrophotometer	17				
26.Visible Spectrophotometer	17				
27.Weather Station for Metrological	06				

Signature of Bidder with Seal
Date:


वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

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	Parameters					
28.	Water Bath	15				
29.	Thermometer (digital)	50				

NOTE: -

1. Price bid should be inclusive of warranty(including CAMC during warranty) for five years and 3 years additional CAMC after completion of comprehensive warranty period and calibration of instrument from NABL accredited lab during whole 8 years (05 years of warranty and 03 years of CAMC).
2. The cost should be quoted inclusive of all components and accessories required for equipment as mentioned in specifications.
3. FOR Annexures are available as Annexure-V and Annexure -VI for reference


वी.एस.परिचारक
मुख्य वैज्ञानिक


Signature with date & stamp of the bidder

Signature of Bidder with Seal
Date:

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2025-26



Rajasthan State Pollution Control Board
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ANNEXURE – V

SCHEDULE OF DELIVERY

List of instrument / Equipments with code no. And delivery destination

S. No.	Name of Instruments	Qty.	Delivery Destination
1.	Analytical Balance, 5 Digit,	20	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BKN(1), KOT(1), PAL(1), CL JPR(1), BHL(1), SKR(1), KIG(1), CTG(1)
2.	BOD Incubator, Capacity 250-300 Ltr	15	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BWD(1), BKN(1), KOT(1), UDR(1)
3.	Conductivity Meter	16	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BWD(1), BKN(1), PAL(1), UDR(1), CL JPR(1)
4.	COD Digester	14	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), CL JPR (1), BKN(1), UDR(1)
5.	Centrifuge	14	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), PAL(1), CL JPR(2)
6.	Deep Freezer (Chest type)	17	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BKN(1), CTG(1), KOT(1), KIG(1), SKR(1), UDR(1)
7.	Digital Portable Barometer	18	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), ALW(1), BHR(1), BWD(1), BKN(1), JDR(1), CL JPR(1), SKR(1)
8.	Double Distillation Water Assembly	16	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BKN(1), CTG(1), KOT(1), PAL(1), CL JPR(1)
9.	Flue Gas Analyser	08	CL JPR(1), CTG(1), BAL(1), BWD(1), PAL(1), KIG(1), BKN(1), BHL(1)
10.	Filtration Assembly with Suction Pump For Suspended Solids	16	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BHR(1), BWD(1), BKN(1), PAL(1), CL JPR(1)
11.	Heating Mantle	32	BNSWR(2), BND(2), HNM(2), JPR-S (2),JSM(2), JLWR(2), JJN(2), NGR(2), RJSMD(2), SWM(2), SRH(2), BKN(1), PAL(2), UDR(2), CL JPR(5)
12.	High Volume Sampler	25	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1).

Signature of Bidder with Seal
 Date:


 वी.एस. मलिक
 मुख्य वै Page 112 of 141

RSPCB
 2025-26



Rajasthan State Pollution Control Board

Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004

E-Mail: member-secretary@rpcb.nic.in

Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



			JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), ALW(1), BKN(2), KOT(2), KIG(1), PAL(2), SKR(1), UDR(2), CL JPR(3)
13.	Hot Plate With Magnetic Stirrer	15	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BWD(1), CL JPR(1), UDR(1)
14.	Hot Air Oven	19	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), SKR(1), BHL(1), BAL(1), BKN(1), KIG(1), PAL(1), UDR(1), CL JPR (1)
15.	Muffle Furnace,800-1000 degree	16	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BWD(1), BKN(1), KOT(1), PAL(1), CL JPR(1)
16.	Noise Level Meter	20	CL JPR(6), ALW(1), BAL(1), BHR(1), BHL(1), BWD(1), BKN(1), CTG(1), JDR(1), KIG(1), KOT(1), PAL(1), SKR(1), UDR(2)
17.	pH Meter	18	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), KOT(1), PAL(1), SKR(1), UDR(1), CL JPR(2)
18.	PM 2.5 Sampler	76	CL JPR(11), ALW(4), BAL(4), BHR(4), BHL(4), BWD(4), BKN(5), CTG(5), JDR(10), KIG(5), KOT(7), PAL(5), SKR(4), UDR(4)
19.	Refrigerator (2 Doors)	15	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), PAL(1), BHL(1), SKR(1), BAL(1), BKN(1), KIG(1),CL JPR(1), CTG(1)
20.	Respirable Dust Sampler	67	BNSWR(2), BND(2), HNM(2), JPR-S (2),JSM(2), JLWR(2), JJN(2), NGR(2), RJSMD(2), SWM(2), SRH(2), BHL(4), SKR(4), BAL(4), BKN(6), KIG(5),PAL(5),CL JPR(7), CTG(1), ALW(1), JDR(3), UDR(3), JPR-N (2),
21.	Specific Ion Meter (Ion Analyzer for nitrate and Fluoride)	18	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BHR(1), BKN(1), CTG(1), CL JPR(1), SKR(1), UDR(1)
22.	Stack Monitoring Kit	16	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BWD(1), CL JPR(1), PAL(1), UDR(1)
23.	Turbidity Meter	05	BAL(1), BHR(1), CL JPR(1), PAL(1), SKR(1)
24.	Total Kjeldal Nitrogen Analyser	04	BAL(1), BHR(1), CL JPR(1), SKR(1)
25.	UV - Visible	17	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1),

Signature of Bidder with Seal

Date:

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Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



	Spectrophotometer		JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BHR(1), CL JPR(1), CTG(1), PAL(1), SKR(1)
26.	Visible Spectrophotometer	17	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), SKR(1), BKN(1), PAL(1), KIG(1), BHL(1), BAL(1)
27.	Weather Station for Metrological Parameters	06	PAL(1), BHL(1), KIG(1), SKR(1), BKN(1), BAL(1)
28.	Water Bath	15	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BHR(1), BWD(1), BKN(1),CL JPR(1)
29.	Thermometer (digital)	50	BNSWR(2), BND(2), HNM(2), JPR-S (2),JSM(2), JLWR(2), JJN(2), NGR(2), RJSMD(2), SWM(2), SRH(2), CL JPR(2), ALW(2), BAL(2), BHR(2), BHL(2), BWD(2), BKN(2), CTG(2), JDR(2), KIG(2), KOT(2), PAL(2), SKR(2), UDR(2)

Note: The name of destination location as Laboratory Code is mentioned at Annexure - VI.



Signature of Bidder with Seal
Date:

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Rajasthan State Pollution Control Board
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ANNEXURE – VI

LIST OF LABORATORIES OF RSPCB WITH CODE NOS. LOCATED IN RAJASTHAN

S. No.	Name of Laboratory	Laboratory Code	Location
1.	Central Laboratory, Head Office, Jaipur	CL JPR	4, Paryavaran Marg, Institutional Area, Jhalana Doongari, Jaipur.
2.	Regional Laboratory, Alwar	ALW	D- Block, Ambedkar Nagar, Alwar.
3.	Regional Laboratory, Balotra	BAL	Jasol Fanta, In front of JdVVNL Office, Balotara, Distt. – Barmer.
4.	Regional Laboratory, Bharatpur	BHR	225, Swarna Jayanti Nagar, Bharatpur.
5.	Regional Laboratory, Bhilwara	BHL	18, Ajad Nagar, Pannadhay Circle, Bhilwara.
6.	Regional Laboratory, Bhiwadi	BWD	G-1, Phase II, Phool Bagh Chouk, RIICO Industrial Area, Bhiwadi, Dist.-Alwar
7.	Regional Laboratory, Bikaner	BKN	SPL- 33, Phase-II Bichhwal Ind. Area, Bikaner.
8.	Regional Laboratory, Chittorgarh	CTG	Near FCI Godown, Chanderiya, Chittorgarh.
9.	Regional Laboratory, Jodhpur	JDR	SPL-II, Phase – I, Marudhar, Ind. Area, Basni, Jodhpur.
10	Regional Laboratory, Kishangarh (Ajmer)	KIG	Sp-2, Phase-5, RIICO Industrial Area, Madanganj, Kishangarh, Dist.-Ajmer.
11	Regional Laboratory, Kota	KOT	SPL-2A, Paryavaran Marg, Road No. 6, IPIA, Kota.
12	Regional Laboratory, Pali	PAL	SA-6, Mandia Road, Pali.
13	Regional Laboratory, Sikar	SKR	Housing Board Colony, Shiv Singh Pura, Nawalgarh Road, Sikar.

Signature of Bidder with Seal

Date:

[Handwritten Signature]

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14	Regional Laboratory, Udaipur	UDR	F-470, MIA, Udaipur.
15	Regional Laboratory, Banswara	BNSWR	Choudhary Campus, Near Durga Petrol Pump, Dahod Road, Thikariya, Banswara.
16	Regional Laboratory, Bundi	BND	Plot no. D-15, Near Ishwari Fruit Garden, New Colony, Bundi.
17	Regional Laboratory, Hanumangarh	HNM	Plot No. 52, Sector 9/1, Hanumangarh Junction, Hanumangarh.
18	Regional Laboratory, Jaipur(S)	JPR-S	8/263, Malviya Nagar, Behind Renault Showroom Near Jawahar Circle, Jaipur.
19	Regional Laboratory, Jaisalmer	JSM	Field Hostel of Indira Gandhi Nahar Pariyojna Residential Colony, Jaisalmer.
20	Regional Laboratory, Jhalawar	JLWR	Room no. 345 to 347, Mini Secretariat, Jhalawar.
21	Regional Laboratory, Jhunjhunu	JJN	C.P.1/90, Rajcomplex, 1st Floor, RIICO Industrial Area Phase-2, Jhunjhunu.
22	Regional Laboratory, Nagaur	NGR	First Floor, Sehkar Bhoomi Vikas Bank Ltd., Nagaur.
23	Regional Laboratory, Rajsamand	RJSMD	Old Building of District Excise Office, Kalalwati, Rajnagar, Rajsamand-313324.
24	Regional Laboratory, Sawai Madhopur	SWM	Plot no. 14,15, Meena Colony, Behind Jail, Sawai Madhopur.
25	Regional Laboratory, Sirohi	SRH	House No. 25 and 26, Singha Colony, Naya Khera, Saatpur Tehsil, Aburoad, Distt. Sirohi (Rajasthan).

Signature of Bidder with Seal
Date:

मुख्यालय कल्याण, महाराष्ट्र
महाराष्ट्र सरकार
वा.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

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ANNEXURE VII

UNDERTAKING

BID NOTICE No. No.: - F11 (702)/RPCB/Lab/2024-25/

Date: -

**THE MEMBER SECRETARY,
 RAJASTHAN STATE POLLUTION CONTROL BOARD,
 4, INSTITUTIONAL AREA, JHALANA DOONGARI,
 JAIPUR RAJASTHAN (INDIA)-302004**

I/ we have thoroughly read the bidding document and by signing this certificate, we hereby submit our token of unconditional acceptance to all the general terms & conditions of the bidding document without any deviations and assumptions.

I/We have examined the conditions of Bid Document and specifications of the instruments/equipment's, the receipt of which is hereby acknowledged. We, the undersigned, offer to supply, deliver and install (WARRANTY AND CAMC) the (Name of equipment / instrument with Code no.):

.....
 The above supply, installation shall be in conformity with the specifications and conditions of bid.

I/We undertake, if our bid is accepted to deliver the instruments quoted by us, we shall deliver and install within the period indicated in the bid document.

I/We agree to abide by this bid for a period of 120 days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before expiry of that period.

I/We are submitting a Demand Draft (Payable at Jaipur) for Rs..... in favor of "Member Secretary Rajasthan State Pollution Control Board", Jaipur towards the Bid Security/EMD.

Signature of Bidder with Seal

Date:


 वी.एस.परिवार
 मुख्य वैज्ञानिक अधिकारी

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This Bid, together with your written acceptance thereof in your notification of award shall constitute a bidding contract between us.

I/ We declare that I am/we are bonafide/Manufacturers/Authorized Service and Support Provider in the goods/stores/equipment/software/calibration for which I/ We have quoted.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our Bid Security may be forfeited in full and the bid, if any, to the extent accepted may be cancelled.

Date:
Place:


वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

Signature of Authorized Signatory,

Name with Stamp & full Address.



Signature of Bidder with Seal
Date:

RSPCB
2025-26



Rajasthan State Pollution Control Board
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E-Mail: member-secretary@rpcb.nic.in
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ANNEXURE -VIII

SELF-DECLARATION

To,
 The Member Secretary,
 Rajasthan State Pollution Control Board,
 4, Institutional Area, Paryavaran Marg, Jhalana Doongari,
 Jaipur-302004 (Rajasthan) (India).

In response to the Notice of inviting bid notice- No.No.: - F11 (702)/RPCB/Lab/25-26/

Date :- { Supply of Instrument /Equipments for Central and Regional Laboratories of Rajasthan State Pollution Control Board}, as an Owner/ Partner/ Director/ Auth. Sign. of _____, I/

We hereby declare that presently our Company/ firm _____, at the time of bidding, -

- possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
- have fulfilled my/ our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
- is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central government/ PSU/ UT.
- Does not have any previous transgressions with any entity in India or any other country during the last three years.
- Does not have any debarment by any other procuring entity.
- is not insolvent in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and is not the subject of legal proceedings for any of the foregoing reasons;
- does not have, and our directors and officers not have been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
- Does not have a conflict of interest as mentioned in the bidding document which materially affects the fair competition.
- Will comply with the code of integrity as specified in the bidding document.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken as per the provisions of the applicable Act and Rules thereto prescribed by GoR, my/ our Bid Security may be forfeited in full and our bid, to the extent accepted, may be cancelled.

Thanking you,

Name of the Bidder: -

Authorized Signatory: -

Seal of the Organization: -


 वी.एस.महिलार
 मुख्य वैज्ञानिक अधिकारी

Date:

Place:

Signature of Bidder with Seal

Date:

RSPCB
 2025-26



Rajasthan State Pollution Control Board
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ANNEXURE -IX
BIDDER'S AUTHORIZATION CERTIFICATE
(To be filled by the Manufacturer on Letter Head)

To,

The Member Secretary,

Rajasthan State Pollution Control Board,

4, Institutional Area, Paryavaran Marg, Jhalana Doongari,

Jaipur-302004 (Rajasthan) (India).

Subject: Issue of the Manufacturer's Authorization Form (MAF)

Reference: BID NOTICE No. No.: - F11 (702)/RPCB/Lab/2025-26/

Date: -

Sir,

We {name and address of the original equipment manufacturer } who are established and reputed original equipment manufacturers (original equipment manufacturer) having factories at {addresses of manufacturing location} do hereby authorize {M/s _____} who is our {Distributor/ Channel Partner/ Retailer/ Others <please specify>} to bid, negotiate and conclude the contract with you against the aforementioned reference for the equipment manufactured by us: -
{original equipment manufacturer will mention the details of proposed product with their make/ model.}

We undertake to provide original equipment manufacturer Warranty for the offered equipment, as mentioned above, for 5 Years.

We hereby confirm that the offered equipment is not likely to be declared as End-of-Service/ Support within next 10 years from the date of Commissioning of equipment.

We hereby confirm that we have direct back-to-back service support agreement with the bidder. As per terms & conditions of bid we will be responsible for providing service/ repairing facility for the equipment quoted in bid even if the dealer is changed.

Signature of Bidder with Seal

Date:


वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



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He/ She is also authorized to attend meetings & submit technical & commercial information/ clarifications as may be required by you in the course of processing the Bid. For the purpose of validation, his/ her verified signatures are as under.

Thanking you,

Name of the Bidder: -

Verified Signature:

Authorized Signatory: -

Seal of the Organization: -

Date: _____

Place: _____


बी.एस.परिहार
मुख्य वैज्ञानिक



Signature of Bidder with Seal

Date:

RSPCB
2025-26



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Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



ANNEXURE - X

UNDERTAKING

I.....(Name),
.....(Designation), for and on behalf
of M/s(name and address of the firm),
hereby, solemnly affirm to give undertaking To, **Member Secretary, Rajasthan State Pollution Control Board, 4, Institutional Area, Paryavaran Marg Jhalana Doongari Jaipur - 302004, Rajasthan, INDIA**, that I (we) will, during warranty and after the expiry of warranty period, be responsible for Comprehensive Maintenance of the supplied item/equipment throughout its life span on CMC charges as mentioned in Price Bid and in any case, will not demand CMC charges at the higher than what we would be charging to our customers whether Govt./Semi-govt. or Private Institutions/Organizations. We also give an undertaking that we will arrange for all spare parts of the quoted model during the period of its comprehensive maintenance.

We hereby undertake that the quoted equipment is of latest model and meet the specifications mentioned in the bid components/ parts/ assembly/ software used in the equipment shall be genuine, original and new components /parts/ assembly/ software from respective OEMs of the products and that no refurbished/ duplicate/ second hand components/ parts/ assembly/ software are being used or shall be used. In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/logo. Also, that it shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our BID SECURITY / SD/ PSD for this bid or debar/ black list us or take suitable action against us.

We understood that you are not bound to accept the lowest or any bid you may receive.

Signature of Bidder with Seal

Date:


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



We or our authorized dealer shall provide the spares/service/replace of equipment under Warranty(5 YEARS) / Guarantee and also during CMC(3 YEARS) after expiry of Warranty / Guarantee. If authorized dealer is not available or authorized dealer is changed, we (Manufacturer) will be responsible for service / repair/replace of the equipment supplied by us. The above undertaking is being submitted in compliance of Bid for.....(Name of Instrument/Equipment)

Place:

Signature of Authorized Signatory

Date:

वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

Designation
Seal



Signature of Bidder with Seal

Date:

RSPCB
2025-26



Rajasthan State Pollution Control Board
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ANNEXURE - XI

Form of Bank Guarantee for Performance Security
 (To be stamped in accordance with Stamp Act, if any, of the country of the issuing Bank)

Bank Guarantee No. _____

Date: _____

Ref. No. _____

To,
Member Secretary,
Rajasthan State Pollution Control Board,
4, Institutional Area, Paryavaran Marg Jhalana Doongari
Jaipur - 302004, Rajasthan
INDIA

Sir/Madam,

THIS AGREEMENT is made on the _____ days of _____ 2025 between [name of the bank] of _____ [address of the bank] (hereinafter called "the Guarantor") of the one part and Rajasthan State Pollution Control Board, with Office at 4, Institutional Area, Paryavaran Marg, Jhalana Doongari, Jaipur - 302004, Rajasthan, INDIA, (hereinafter called "the Board") of the other part.

WHEREAS

1. This agreement is supplemental to a contract number _____ [insert Contract Number] (hereinafter called "the Contract") made between _____ [name of Contractor] of _____ [address of Contractor] (hereinafter called "the Contractor") of the one part and the Board of the other part whereby the Contractor agreed and undertook to execute the works of Supply (Name of Equipment) for RSPCB at (Name of Place) against the Contract for the sum of _____ [amount in Contract Currency] being the Contract Price; and
2. The Guarantor has agreed to guarantee the due performance of the Contract in the manner hereinafter appearing.

NOW, THEREFORE, the Guarantor hereby agrees with the Board as follows:

- a) If the Contractor (unless relieved from the performance by any clause of the Contract or by statute or by the decision of a tribunal of competent jurisdiction) shall in any respect fail to execute the contract or commit any breach of his obligations there under then the Guarantor will indemnify and pay the Board the aggregate sum of _____ [amount of Guarantee shall be 5% of the said value of the Contract, _____] in

Signature of Bidder with Seal

Date:


वी.एस.परिहार
 मुख्य वैधानिक अधिकारी

RSPCB
2025-26



Rajasthan State Pollution Control Board

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words], such sum being payable in the types and amount of currencies in which the Contract Price is payable provided that the Board or his Authorized Representative has notified the Guarantor to that effect and has made a claim against the Guarantor before the expiry of guarantee period (SIXTY months).

- b) The guarantor shall not be discharged or released from his guarantee by an arrangement between the Contractor and the Board, with or without the consent of the Guarantor, or by any alteration in the obligations undertaken by the Contractor, or by any forbearance on the part of the Contractor, whether as to payment, time, performance, or otherwise, any notice to the Guarantor of any such arrangement, alteration, or forbearance is hereby expressly waived.

This guarantee shall be valid until sixty days (60 days) from the date of expiry of warranty period of the equipment supplied as specified in the Contract.

Given under our hand on the date first mentioned above.



SIGNED BY _____

For and on behalf of the Guarantor
(Seal of Guarantor)

In the presence of

(Witness)

Signature of Bidder with Seal

Date:

RSPCB
2025-26



Rajasthan State Pollution Control Board
 Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
 E-Mail: member-secretary@rpcb.nic.in
 Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



ANNEXURE -XII

Form to Contract Agreement on Rs 500/- Non-Judicial Stamp Paper

For Supply of

(Name of Equipment/ Instrument with Quantity)

AGREEMENT

An Agreement made this _____ Day of _____ 2025 between M/s _____ (

hereinafter called "The approved supplier", which expression shall, where the context so admits, be deemed to include his heirs successors, executors and administrators of the one part) and Rajasthan State Pollution Control Board, Jaipur (hereinafter called purchaser which expression shall where the context so admits, be deemed to include his successors in office and assigns) of other part.

1. Whereas the approved supplier has agreed with the Rajasthan State Pollution Control Board, Jaipur to supply to the Board at its Central laboratory at Head Office as well as Regional laboratories throughout Rajasthan, all those articles set forth in the schedule appended hereto in the manner set forth in the conditions of the bid and contract appended here with and the rates set forth in the purchase order.

2. And whereas the approved supplier has deposited a sum of Rs _____/- in words Rs. _____ Bank guarantee/ Cash / Bank Draft / Banker Cheque No _____ dated _____ Name of Bank

3. Now these Presents Witness-

I. In consideration of the payment to be made by the RSPCB (the purchaser) through cheque at the rates set forth in the schedule hereto appended the approved supplier, will duly supply the said articles set forth and thereof in the manner set forth in the conditions of the bid and contract.

II. The conditions of the bid and contract for open bid enclosed to the Bid notice no. No.: - F11(702)/RPCB/Lab/25-26 Date: also appended to this agreement will be deemed to be taken as part of this agreement and are binding on the parties executing this agreement.

III. Letter No. _____ dated _____ received from bidder and letter No. _____ dated _____ issued by the RSPCB and appended to this agreement shall also form part of this agreement.

IV. (a) The RSPCB do hereby agree that if the approved supplier shall duly supply the said articles in the manner aforesaid observe and keep the said terms and conditions, the RSPCB will through pay or cause to be paid to the approved supplier at the time and the manner set forth in the said conditions, the amount payable for each and every consignment.

Signature of Bidder with Seal
 Date:


 वी.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी

**RSPCB
 2025-26**



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- (b) The Mode of payment will be as per bid document.
- V. The delivery shall be affected and completed within the period specified in the supply order.
- VI (i) In case of extension in the delivery period with Liquidated damages, the recovery shall be made on the basis of following percentages of value of stores which the bidder has failed to supply:-
- (a) Delay up to one fourth of the prescribed delivery period- 2.5%
 - (b) Delay exceeding one fourth but not exceeding half of the prescribed Delivery period-5%
 - (c) Delay exceeding one fourth but not exceeding three fourth of the prescribed delivery period-7.5%.
 - (d) Delay exceeding three fourth of the prescribed delivery period -10%

Note: -

- (i) Fraction of a day in reckoning period of delay in supply shall be eliminated if it is less than half a day.
 - (ii) The Maximum amount of agreed liquidated damages shall be 10%.
 - (iii) If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrances, he shall apply in writing to the authority which had placed the supply order, for to the immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
 - (iv) Delivery period may be extended with or without liquidated damages if the delay in the supply of goods is on account of hindrances beyond the control of the bidder.
4. Approved rates are valid for the period of one year from the date of execution of first agreement, which may be extended for another one year with mutual consent.
5. The approved supplier hereby agree to provide the service / repairing of the(Name of equipment with quantity) during warranty period by his authorized dealer or by his office.
6. The approved supplier will provide the service /repairing of the (Name of equipment with quantity) through AMC after expiry of warranty period by his authorized dealer or by himself on mutually agreed rates for five years after expiry of warranty.
7. All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided by the Chairperson RSPCB and the decision of the same shall be final.

In witness where of the parties hereto have set their hands on the _____ Day of _____ 2025.

Signature of Bidder with Seal

Date:


वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



Signature For and on behalf of
Supplier.

Signature for and on of the
behalf of RSPCB Jaipur

Date:
Place:

Date:
Place:

1. Witness
(Signature)
Name, Designation & Address

1. Witness
(Signature)
Name, Designation & Address

वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

Signature of Bidder with Seal
Date:

RSPCB
2025-26



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 E-Mail: member-secretary@rpcb.nic.in
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ANNEXURE - XIII

NO LESSER PRICE CERTIFICATE

I.....(Name),
 (Designation), for and
 on behalf of M/s(name
 and address of the firm), hereby, certify that the firm mentioned above will not charge or quote
 lesser price than the price submitted in **Annexure - IV** for
 instrument....., if any, to any other purchaser or agency or institute in
 India and that the prices offered are the lowest of those offered by us in the country.

Place:

Date:


 वी.एस.परिवार
 मुख्य वैज्ञानिक अधिकारी

Signature of Authorized Signatory

Designation

Seal



Signature of Bidder with Seal

Date:

RSPCB

2025-26



Rajasthan State Pollution Control Board
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ANNEXURE -XIV

FINANCIAL BID COVER LETTER & FORMAT
COVER LETTER

(To be filled by the Bidder on Letter Head)

To,
 The Member Secretary,
 Rajasthan State Pollution Control Board,
 4, Institutional Area, Paryavaran Marg, Jhalana Doongari,
 Jaipur-302004 (Rajasthan) (India).

Subject:- For supply of Laboratories Equipment/ Instrument.....
Reference: Notice of inviting bid No. **No.:- F11(702)/RPCB/Lab/2025-26/** **Date:**
 - Supply of Instrument /Equipments for Central and Regional Laboratories of
 Rajasthan State Pollution Control Board}

Sir,

We, the undersigned bidder, having read & examined in detail, the bidding document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work in conformity with the said bidding document.

- I / We undertake that the prices are in conformity with the specifications prescribed. The quote/ price are inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties as mentioned in the financial bid (BoQ). The prices are inclusive of 05 years warranty and 03 years CMC after expiry of warranty and calibration of the instrument from NABL accereditated lab whole 8 years.
- I/ We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee as prescribed in the bidding document.
- I / We agree to abide by this bid for a period of 180 days after the last date fixed for bid submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.
- Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.
- I/ We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.
- I/ We understand that you are not bound to accept the lowest or any bid you may receive.
- We agree to all the general terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Place:

Date:


वी.एस.परिडार
 मुख्य वैज्ञानिक अधिकारी

Signature of Authorized Signatory
 Name and Designation
 Seal

Signature of Bidder with Seal

Date:

RSPCB
2025-26



Rajasthan State Pollution Control Board
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E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



ANNEXURE -XV

[See rule 83]

**Memorandum of Appeal under the Rajasthan
Transparency in Public Procurement Act, 2012**

Appeal Noof.....
Before the..... (First / Second Appellate Authority)

1. Particulars of appellant:
 - (i) Name of the appellant:
 - (ii) Official address, if any:
 - (iii) Residential address:
2. Name and address of the respondent(s):
 - (i)
 - (ii)
 - (iii)
3. Number and date of the order appealed against and name and designation of the officer / authority who passed the order (enclose copy), or a statement of a decision, action or omission of the Procuring Entity in contravention to the provisions of the Act by which the appellant is aggrieved:
4. If, the Appellant proposes to be represented by a representative, the name and postal address of the representative:
5. Number of affidavits and documents enclosed with the appeal:
6. Grounds of appeal:(Supported by an affidavit)
7. Prayer:

Place.....

Date.....


वी.एस.परिवार
मुख्य वैज्ञानिक

Appellant's Signature

Signature of Bidder with Seal

Date:

RSPCB

2025-26



Annexure A: Compliance with the code of Integrity and No Conflict of Interest

Any person participating in a procurement process shall-

- Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process;
- Not misrepresent or omit that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
- Not indulge in any collusion, Bid rigging or anti-competitive behavior to impair the transparency, fairness and progress of the procurement process;
- Not misuse any information shared between the procuring Entity and the Bidders with an intent to gain unfair advantage in the procurement process;
- Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
- Not obstruct any investigation or audit of a procurement process;
- Disclose conflict of interest, if any; and
- Disclose any previous transgressions with any Entity in India or any other country during the last three years or any debarment by any other procuring entity.

CONFLICT OF INTEREST:-

The Bidder participating in a bidding process must not have a Conflict of Interest. A Conflict of Interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

A Bidder may be considered to be in conflict of Interest with one or more parties in a bidding process if, including but not limited to:-

- Have controlling partners / shareholders in common; or
- Receive or have received any direct or indirect subsidy from any of them; or
- Have the same legal representative for purposes of the Bid; or
- Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to influence the decisions of the Procuring Entity regarding the bidding process; or
- The Bidder participates in more than one Bid in a bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which the Bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a Bidder, in more than one Bid; or

Signature of Bidder with Seal

Date:


वी.एस.परितार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



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- F. The Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the Goods, Works or Services that are the subject of the Bid; or
- G. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge/ consultant for the contract.

Annexure B: Declaration by the Bidder regarding Qualifications

Declaration by the Bidder

In relation to my/our Bid submitted to.....for procurement of Instrument /Equipments for Central and Regional Laboratories of Rajasthan State Pollution Control Board in response to their Notice Inviting No. No.: - **F11(702)/RPCB/Lab/2025-26/**

Date: - I / we hereby declare under Section 7 of Rajasthan Transparency in public procurement Act, 2012, that: -

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
3. I/we are not insolvent, in receivership bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my /our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
4. I/we do not have, and our directors and officers not have, been convicted of any criminal offence related to my /our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

Date:

Place:


 वी.एस.पी.
 मुख्य वैज्ञानिक

Signature of bidder

Name:

Designation:

Address:

Signature of Bidder with Seal

Date:

RSPCB
 2025-26



Annexure C: Grievance Redressal during procurement process

The designation and address of the First Appellate Authority is _____

The designation and address of the Second Appellate Authority is _____

(1) Filing an appeal

If any bidder or prospective bidder is aggrieved that any decision, action or omission of the Procuring Entity is in contravention to the provisions of the Act or the Rules or the Guidelines issued there under, he may file an appeal to First Appellate Authority, as specified in the Bidding Document within a period of ten days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

Provided that after the declaration of a Bidder as successful the appeal may be filed only by a Bidder who has participated in procurement proceedings; provided further that in case a Procuring Entity evaluates the Technical Bids before the opening of the Financial Bids, an appeal related to the matter of Financial Bids may be filed only by a Bidder whose Technical Bid is found to be acceptable.

(2) The officer to whom an appeal is filed under para (1) shall deal with the appeal as expeditiously as possible and shall endeavor to dispose it of within thirty days from the date of the appeal.

(3) If the officer designated under para (1) fails to dispose of the appeal filed within the period specified in para (2), or if the Bidder or prospective bidder or the Procuring Entity is aggrieved by the order passed by the First Appellate Authority, the Bidder or prospective bidder or the Procuring Entity, as the case may be, may file a second appeal to Second Appellate Authority specified in the Bidding Document in this behalf within fifteen days from the expiry of the period specified in para (2) or of the date of receipt of the order passed by the First Appellate Authority, as the case may be.

(4) Appeal not to lie in certain cases

No appeal shall lie against any decision of the Procuring Entity relating to the following matters, namely:-

- determination of need of procurement;
- provisions limiting participation of Bidders in the Bid process;
- the decision of whether or not to enter into negotiations;
- cancellation of a procurement process;
- applicability of the provisions of confidentiality;

(5) Form of Appeal

- An appeal under Para (1) or (3) above shall be in the annexed Form along with as many copies as there are respondents in the appeal.

Signature of Bidder with Seal

Date:


 वी.एस.परिहार
 मुख्य वैधानिक अधिकारी

RSPCB
 2025-26



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- b. Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
- c. Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorized representative.

(6) Fee for filing appeal

- a. Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
- b. The fee shall be paid in the form of bank demand draft or banker's cheque of a Scheduled Bank in India payable in the name of Appellate Authority concerned.

(7) Procedure for disposal of appeal

- a. The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
- b. On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall,
 - I. hear all the parties to appeal present before him; and
 - II. Peruse or inspect documents, relevant records or copies thereof relating to the matter.
- c. After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
- d. The order passed under sub-clause (c) above shall also be placed on the State Public Procurement Portal.


वी.एस.परिकार
जलवायु प्रदूषण नियंत्रण आयोग

Signature of Bidder with Seal

Date:

RSPCB
2025-26



Annexure D: Additional Conditions of Contract

1. Correction of arithmetical errors

Provided that a Financial Bid is substantially responsive, the Procuring Entity will correct arithmetical errors during evaluation of Financial Bids on the following basis:-

- (i) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Procuring Entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- (ii) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (iii) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (i) and (ii) above.

If the Bidder that submitted the lowest evaluated Bid does not accept the correction of errors, its Bid shall be disqualified and its Bid Security shall be forfeited or its Bid Securing Declaration shall be executed.

2. Procuring Entity's Right to Vary Quantities

- (i) At the time of award of contract, the quantity of Goods, works or services originally specified in the Bidding Document may be increased or decreased by a specified percentage, but such increase or decreases shall not exceed twenty percent, of the quantity specified in the Bidding Document. It shall be without any change in the unit prices or other terms and conditions of the Bid and the conditions of contract.
- (ii) If the Procuring Entity does not procure any subject matter of procurement or procures less than the quantity specified in the Bidding Document due to change in circumstances, the Bidder shall not be entitled for any claim or compensation except otherwise provided in the Conditions of Contract.
- (iii) In case of procurement of Goods or services, additional quantity may be procured by placing a repeat order on the rates and conditions of the original order. However, the additional quantity shall not be more than 50% of the value of Goods of the original contract and shall be within one month from the date of expiry of last supply. If the Supplier fails to do so, the Procuring Entity shall be free to arrange for the balance supply by limited Bidding or other wise and the extra cost incurred shall be recovered from the Supplier.


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

Signature of Bidder with Seal
Date:

RSPCB
2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
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Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



3. Dividing quantities among more than one Bidder at the time of award (In case of procurement of Goods)

As a general rule all the quantities of the subject matter of procurement shall be procured from the Bidder, whose Bid is accepted. However, when it is considered that the quantity of the subject matter of procurement to be procured is very large and it may not be in the capacity of the Bidder, whose Bid is accepted, to deliver the entire quantity or when it is considered that the subject matter of procurement to be procured is of critical and vital nature, in such cases, the quantity may be divided between the Bidder, whose Bid is accepted and the second lowest Bidder or even more Bidders in that order, in a fair transparent and equitable manner at the rates of the Bidder, whose Bid is accepted.


वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

Signature & Seal of Bidder



Signature of Bidder with Seal

Date:

RSPCB
2025-26



ANNEXURE -XVI

SCHEDULE OF EARNEST MONEY

List of instrument / equipments with code no. And delivery destination

S.No.	Description of Instrument	Approx. Qty. (Nos.)	Estimated Cost of Total Qty (Rs. In Lacs.)	Bid Security/ EMD Amount in Rs	Delivery Destination in form of Laboratory code along with quantities to be supplied (Pls. refer code list @) Annexure-VI)
1	Analytical Balance, 05 Digits.	20	130.00	260000	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BKN(1), KOT(1), PAL(1), CL JPR(1), BHL(1), SKR(1), KIG(1), CTG(1)
2	BOD Incubator, Capacity 250-300 Ltr.	15	23.25	46500	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BWD(1), BKN(1), KOT(1), UDR(1)
3	Conductivity Meter	16	26.40	52800	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BWD(1), BKN(1), PAL(1), UDR(1), CL JPR(1)
4	COD Digester with Condensers	14	42.00	84000	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), CL JPR (1), BKN(1), UDR(1)
5	Centrifuge	14	8.40	16800	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), PAL(1), CL JPR(2)
6	Deep Freezer (Chest type)	17	5.10	10200	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BKN(1), CTG(1), KOT(1), KIG(1), SKR(1).

Signature of Bidder with Seal
 Date:

वी.एस.परिहार
 मुख्य वैज्ञानिक अधिकारी

RSPCB
 2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
E-Mail: member-secretary@rpcb.nic.in
Phone: 0141-2711263, 2716802, RSPCB Helpline No.- 0141-2716877



					UDR(1)
7	Digital Portable Barometer	18	16.20	32400	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), ALW(1), BHR(1), BWD(1), BKN(1), JDR(1), CL JPR(1), SKR(1)
8	Double Distillation Water Assembly	16	34.40	68800	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BKN(1), CTG(1), KOT(1), PAL(1), CL JPR(1)
9	Flue Gas Analyser	08	76.00	152000	CL JPR(1), CTG(1), BAL(1), BWD(1), PAL(1), KIG(1), BKN(1), BHL(1)
10	Filtration Assembly with Suction Pump For Suspended Solids	16	12.00	24000	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BHR(1), BWD(1), BKN(1), PAL(1), CL JPR(1)
11	Heating Mantle	32	13.60	27200	BNSWR(2), BND(2), HNM(2), JPR-S (2),JSM(2), JLWR(2), JJN(2), NGR(2), RJSMD(2), SWM(2), SRH(2), BKN(1), PAL(2), UDR(2), CL JPR(5)
12	High Volume Sampler	25	31.25	62500	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), ALW(1), BKN(2), KOT(2), KIG(1), PAL(2), SKR(1), UDR(2), CL JPR(3)
13	Hot Plate With Magnetic Stirrer	15	13.50	27000	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BWD(1), CL JPR(1), UDR(1)
14	Hot Air Oven	19	17.10	34200	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), SKR(1), BHL(1), BAL(1), BKN(1), KIG(1), PAL(1), UDR(1), CL JPR (1)

Signature of Bidder with Seal

Date:

(Signature)
 पी.एस. परिहार
 मुख्य वैज्ञानिक अधिकारी

RSPCB

2025-26



Rajasthan State Pollution Control Board
Headquarter, 4-Institutional Area, Jhalana Doongari, Jaipur-302004
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15	Muffle Furnace,800-1000 degree	16	20.00	40000	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BWD(1), BKN(1), KOT(1), PAL(1), CL JPR(1)
16	Noise Level Meter	20	90.00	180000	CL JPR(6), ALW(1), BAL(1), BHR(1), BHL(1), BWD(1), BKN(1), CTG(1), JDR(1), KIG(1), KOT(1), PAL(1), SKR(1), UDR(2)
17	pH Meter	18	24.30	48600	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), KOT(1), PAL(1), SKR(1), UDR(1), CL JPR(2)
18	PM 2.5 Sampler	76	307.80	615600	CL JPR(11), ALW(4), BAL(4), BHR(4), BHL(4), BWD(4), BKN(5), CTG(5), JDR(10), KIG(5), KOT(7), PAL(5), SKR(4), UDR(4)
19	Refrigerator (2 Doors)	15	4.50	9000	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), PAL(1), BHL(1), SKR(1), BAL(1), BKN(1), KIG(1),CL JPR(1), CTG(1)
20	Respirable Dust Sampler	67	100.16	200320	BNSWR(2), BND(2), HNM(2), JPR-S (2),JSM(2), JLWR(2), JJN(2), NGR(2), RJSMD(2), SWM(2), SRH(2), BHL(4), SKR(4), BAL(4), BKN(6), KIG(5),PAL(5),CL JPR(7), CTG(1), ALW(1), JDR(3), UDR(3), JPR-N (2),
21	Specific Ion Meter for Nitrate and Fluoride	18	54.00	108000	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BHR(1), BKN(1), CTG(1), CL JPR(1), SKR(1), UDR(1)
22	Stack Monitoring Kit	16	34.40	68800	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BWD(1), CL JPR(1), PAL(1), UDR(1)

Signature of Bidder with Seal
Date:

वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी

RSPCB
2025-26



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23	Turbidity Meter	05	8.97	17940	BAL(1), BHR(1), CL JPR(1), PAL(1), SKR(1)
24	Total Kjheldal Nitrogen Analyser	04	61.80	123600	BAL(1), BHR(1), CL JPR(1), SKR(1)
25	UV - Visible Spectrophotometer real Double Beam	17	101.15	202300	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BAL(1), BHR(1), CL JPR(1), CTG(1), PAL(1), SKR(1)
26	Visible Spectrophotometer	17	17.85	35700	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), SKR(1), BKN(1), PAL(1), KIG(1), BHL(1), BAL(1)
27	Weather Station for Metrological Parameters	06	21.00	42000	PAL(1), BHL(1), KIG(1), SKR(1), BKN(1), BAL(1)
28	Water Bath	15	17.25	34500	BNSWR(1), BND(1), HNM(1), JPR-S (1),JSM(1), JLWR(1), JJN(1), NGR(1), RJSMD(1), SWM(1), SRH(1), BHR(1), BWD(1), BKN(1),CL JPR(1)
29	Thermometer (digital)	50	0.1250	250	BNSWR(2), BND(2), HNM(2), JPR-S (2),JSM(2), JLWR(2), JJN(2), NGR(2), RJSMD(2), SWM(2), SRH(2), CL JPR(2), ALW(2), BAL(2), BHR(2), BHL(2), BWD(2), BKN(2), CTG(2), JDR(2), KIG(2), KOT(2), PAL(2), SKR(2), UDR(2)

Note: The name of destination location as Laboratory Code is mentioned at Annexure -VI

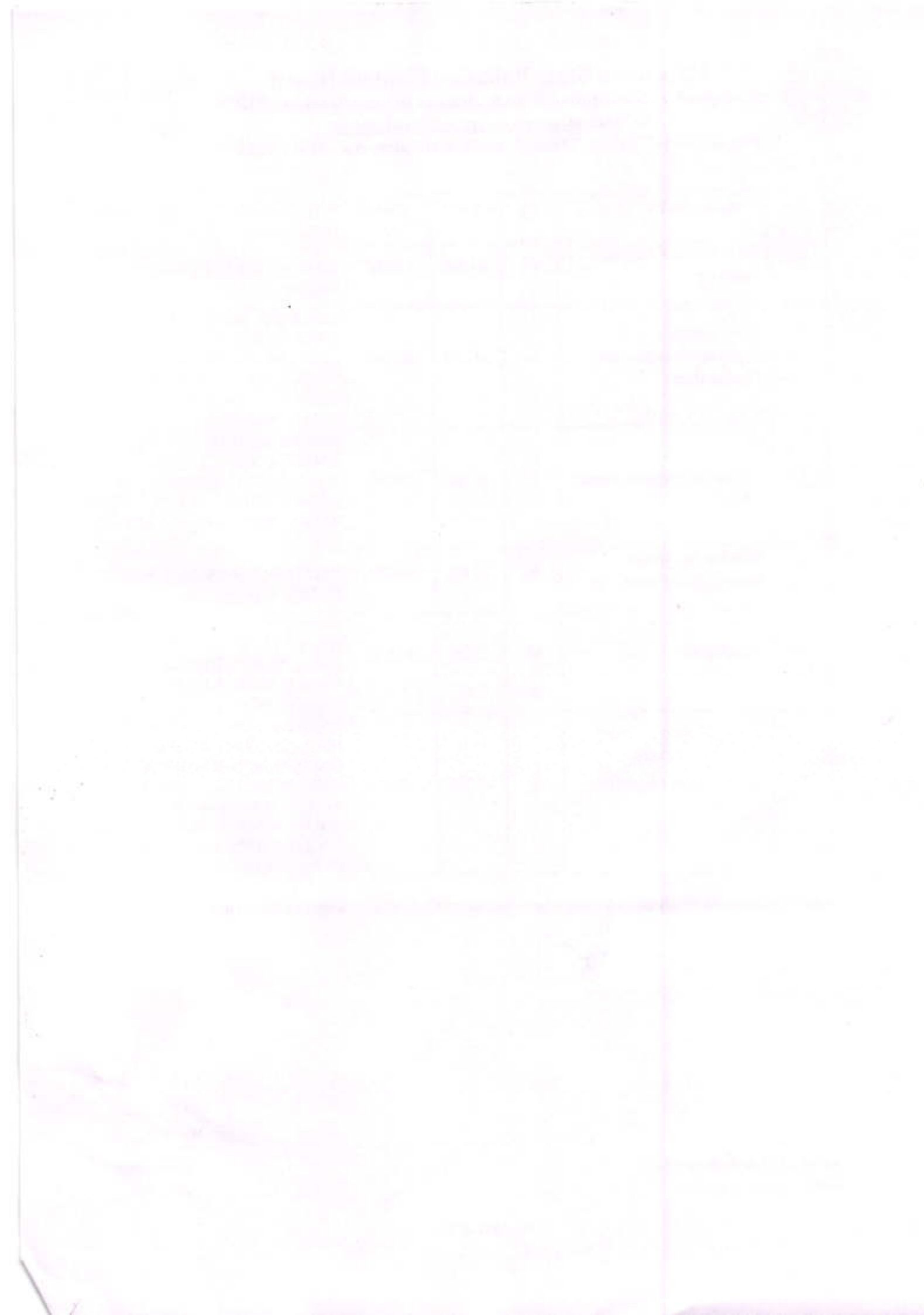
वी.एस.परिवार
मुख्य वैज्ञानिक अधिकारी

Signature of Bidder with Seal

Date:

RSPCB

2025-26



Minutes of Meeting of Procurement Committee dated 13/06/2025

A meeting of procurement committee was held on 13/06/2025 regarding finalization of the Tender Document for procurement of 29 types of laboratory instruments for existing laboratories of the State Board and also for new laboratories to be established with basic Air and Water analysis facilities. These instruments will help to monitor and analyze the samples collected from Air, Water, Waste Water, Soil and Noise which will strengthen the analytical power of the State Board.

Earlier meeting of the procurement committee was held on 9/06/2025 and suggested changes/corrections were incorporated in the corrected Tender Document and it was presented before the committee members and following decision were taken.

- Committee provides approval on the Tender Document for procurement of 29 types of laboratory instruments for existing laboratories of the State Board and also for new laboratories to be established. Accordingly tender document shall be uploaded on e-Procurement portal and SPPP.
- Validity period of the bid is 120 days (four months) and it is directed by the committee to ensure the completion of the bid process within given timeline.



(O.P. Shardul)

GIC-Admin.



(Sheeba)

GIC Lab
Procurement



(Nidhi Mehta)

Financial
Advisor



(Vikram Singh
Parihar)

CSO



Prema Lal Raiger)

CEE



(S. P. Singh)

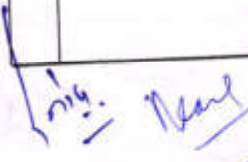

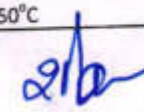

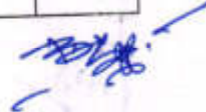
Member Secretary

वी.एस.परिहार
मुख्य वैज्ञानिक अधिकारी


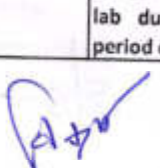
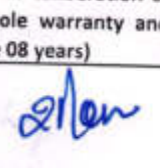
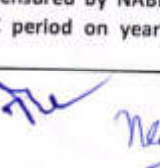
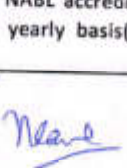

Sl No	Item Code with Instruments Name	Specifications specified by the Board		Remarks, If any
		Particular/Criteria	Requirement	
	A	B1	B2	C
1	Analytical Balance (5 Digit)	Capacity	220 gm maximum capacity	
		Readability	0.01 mg upto 80 gm/0.1 mg upto 220 gm	
		Taring Facility	Entire Range	
		Repeatability	0.02 mg /0.07 mg	
		Display	Touch Screen Display	
		Calibration Adjustment	Should have internal calibration facility with internal adjustment weight and provision for external calibration, Calibration mode - Fully automatic time and temperature controlled in built adjustment	
		Linearity	0.2 mg in full scale	
		Printing Port	3 interface system USB/ Ethernet for pprinter and for computer SICS command function is there.	
		Settling Time	<5 sec. or better	
		Weighing Pan	min 80 mm or higher with Full metal Housing (S.S) (Anti corrosive)	
		Draft Shield	Manual Glass Draft shield	
		Level Control	Level control on screen guidance and warning feature for Easy levelling	
		Power Supply	Should operate on 230±10 Volts, 50 Hz, AC	
		Other Requirements	(i) To be supplied complete with dust cover, Operation Mannual, (ii) NABL Calibration certificate must be provided with each instrument for entire 8 years on yearly basis.	
		Door Mechanism	Ergo Doors	
		Data Transfer	MT SICS command	
		Password protection	Password Protection with User Management	
		Calibration weight box	Standard calibration weight box 1.0 gm to 200 gm of E2 class traceable to National/international standard with certificate(only one set for all balances)	
		Warranty	Warranty for 5 years from date of installation	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)	
2	BOD Incubator	Stainless steel double-walled (inside SS 304 and outside by powder coated steel) chamber with at least 70 mm thick PUF insulation or better to minimize the heat exchange. The outside metal door with proper insulation shall have the magnetic gasket and lock and key and door alarm sytem		
		Capacity	250 to 300 Ltrs.	
		Material	Internal – stainless steel; External – powder coated steel.	
		Temperature	5° to 60° C, with accuracy of ±0.5 ° C or Better	
		Temperature uniformity	< 1.5°C or better	
		Display	Digital display of date, time & temperature	
		Alarm	Over temperature limiter and door opening alarm	
		Control system	Micro processor based PID controller with digital display and PT-100 sensors, With Printer interface facility.	
		Glass Door	Full view inner transparent door with Frame closes on a resilient gasket and allow inspection of the object , without disturbing the thermal conditions of the instrument chamber.	
		Compressor	Hermetically sealed compressor coupled with evaporation coil and condenser, safe guarded by time delay circuit, CFC free refrigerant.	
		Mounting	Cooling Unit is placed on heavy duty Iron angle Frame below the Chamber with Castor wheel	
		Blower	Air is circulated by self cooling Motor with fans to keep the temperature uniform throughout the inner chamber.	
		Inside Chamber	Stainless Steel with with long life stainless steel tubular air heater and adjusting perforated shelves at convenient Illumination Lamp (15 W) will be provided inside the Chamber.	
		Power	220/230 Volt, AC, 50/60 Hz mains	
		Shelves	Three adjustable Stainless Steel Perforated Shelves	

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		Accessories	Supplied complete with Voltage Stabilizer and Instruction Manual power cable, plug and tool kit etc.	
		Instrument Certification Required	ISO 9001 and IQ, OQ, PQ documentation are mandatory required. USFDA listed or equivalents documents required also.	
		Safety device	electric circuit breaker TDR (Threat detection response) and OCR (Optical character recognition) for compressor switch on./ CLS (custom logical safe)- control system	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
		Warranty	5 years from the date of installation.	
3	<u>Conductivity Meter</u>	Mode	Conductivity, Temperature, Salinity, TDS (Bench Top Model)	
		Display	LCD, Simultaneous display of Temperature	
		Control	Microprocessor with all functions automatically.	
		Conductivity Range	0.05 micro siemens to 500.00 millisiemens	
		Resolutions	0.01/ 0.1 microS, 0.001/0.01/0.1 mS	
		Accuracy	+/-1.0% of Full Scale or better	
		Temperature Range	0.0 to 100 °C	
		Temperature Accuracy	±0.2°C or better	
		Resolution	0.1°C	
		Auto Read	Automatic/manual selectable	
		Temperature Normalisation	15 °C 25 °C	
		Calibration	5 points	
		Cell constants	Cell Constant selection : 0.01 to 10 (provide NIST traceable certificate)	
		Salinity Range	0.0 to 50% or more, in direct display.	
		TDS Range	0.05 to 50000 mg/L or more	
		Power Supply	230 + 10Volts / 50Hz Ac/ Battery operated	
		Warranty	5 years comprehensive on instrument & at least 12 months on electrodes.	
		Splash Proof Housing	Yes	
		Calibration Protocol	Yes	
		USB Port	Yes	
		Alarm Functions	Yes	
		Accessories :-		
			Ø To be supplied complete with carrying case, Electrode (1+1) ,Cell Graphite with Epoxy-Body Conductivity/ATC Probe., electrode should be supplied along with meter.(Nearly 0.5 K), Electrode stand, Operation & service Manual (Two set).	
			Ø NIST traceable reference solution (minimum 05) 500 ml each covering both lower and upper side , Temperature compensation ATC/MTC, conductivity cell: 4 cell Graphite epoxy body with 0.5 K.	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
		Warranty	5 years from the date of installation.	
4	<u>COD Digester with Condensers</u>	Capacity	15 Samples at a time	
		Construction	Should be compact and made of SS and should have 15 holes to take reaction vessels, cooling tray and an air cooler stand for 15 air coolers and stand for 15 reaction vessels. The capacity of glass vessels should be 200ml. Air Condenser should be of total length 700 mm or better.	
		Temperature	250°C ±1.0°C (uniform heating)	
		Temperature controller	Digital PID temperature cum controller with built in timer for temperatures up to 250°C	


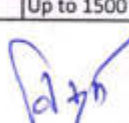
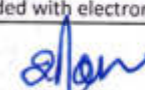









		Timer	Integrated Programmable time with digital display of set value and process value. Programmable countdown timer in HH:MM up to 99 hours 59 minutes with 2 hours adjustable timer with buzzer.	
		Sample size	20 ml (Total volume 60 ml with reagent)	
		Safety features	Auto alarm /Buzzer for user's attention, Auto power off mode on completion of COD digestion, Automatic safety features like auto over temperature protection,	
		Glassware	15 reaction vessels along with air condensers. (Should be made of standard quality Borosilicate glass). Additional 15 reaction vessels and 15 Air condenser should also be supplied.	
		Accessories	1. SS holder for glassware handling along with FRP water tank 2. Aluminum stand for reaction vessels 3. Aluminum stand for air condensers 4. Standard Toolkit and Manual	
		Display board	Digital LCD display with big visible fonts with date & time	
		Power Requirement	230 V/50Hz AC mains.	
		Calibration	The instrument should be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
		Warranty	5 years from the date of installation.	
5	<u>Centrifuge</u>	RPM (Max Speed)	6000, Centrifugation glass tube size 100 ml, at least 04 at a time and stepless speed regulator.	
		Maximum RCF	5250 or better	
		Digital Timer Range	0-99 min	
		Display	7 segment LED display, Microprocessor based	
		Chamber (Inner)	Stainless Steel	
		Header	4x100 ml	
		Power	230V, 50 Hz	
		Motor	Brushless induction motor with variable frequency drive	
		Instrument Certification Required	ISO 9001 and IQ, OQ, PQ documentation required mandatorily. USFDA listed or equivalent (documents required)	
		safety features	automatic rotor identification safety lid inter lock, imbalance detection and stop. Dynamic break for quick deacceleration. gas hinge to prevent door falling.	
6	<u>Deep Freezer (chest type)</u>	Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
		Warranty	Five years from the date of installation.	
		Robust construction for heavy duty use, has lock and key system and recessed handle for durability, 5 Star Rating Refrigerant, enhanced power saving, Heavy duty castor wheels at bottom of freezer, High density puff insulation for better holding time		
		Temp. range	(-5 to +8) degree C	
		Compressor	Quiet in operation, energy efficient	
		Stabilizer	YES	
		Free Operation		
		Capacity	500 Litre or above	
		Number of Doors	double door	
		Power supply	230 ± 10 V AC, 50 Hz.	
		Refrigerant	R290	
		Defrost	Manual Defrost	
		Door Mechanism	Swing/Hinge Door	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	

7	<u>Digital Portable Barometer</u>	Warranty	Five years from the date of installation. 10 years on compressure
		Features:	Portable High Accuracy Barometer. Measures the actual barometric pressure.
		Working temperature:	0°C to 55°C (32°F to 131°F).
		Data field:	8 to 17 psi (~560 to 1170 mbar)
		Accuracy:	±3 hPa
		Resolution	±0.1 hPa
		Conditions for the accuracy	100 to 900 m height. Normal battery voltage.
		Altitude	Displayed in feet or meters
		Operating Modes	Local pressure, sea level pressure from user set height, altitude from user set datum
		Display	LCD with white LCD backlight. Stopwatch/time of day clock
		Calibration interval	180 days
		Calibration adjustment	Zero and Span may be reset without affecting linearity.
		Pressure units	mm Hg, PSI, in Hg, mbar, bar, hPa.
		RESET:	Resets the memory. The height must be set again.
		Process Features	Min/Max capture, leak test, damping rates, auto shutoff
		Battery life	200 hrs
		Certificate	Supplied with Calibration Certificate Traceable to NIST
		Weight with Battery	less than 120 gm.
		Communications	RS-232
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
		Supplied all required accessories for measuring. Pressure port: Clean, dry, non-corrosive, non-combustible, non-oxidizing gases for all rated ranges.	
8	<u>Double Distillation Water Assembly</u>	Warranty	Five years from the date of installation.
		Double distillation unit with water softener designed according to quality of feed water, Compact vertical design with cabinet, auto Cut (With Alarm) in reference to Water Flow and Temperature and built in boiler over heat protection.	
		Water output	min. 2.5 Ltr/hour
		Quartz make	Double walled condenser
		Power cutoff and safety control unit	Controlled power supply
		Boiler and Condenser	Quartz Boiler and Condenser, Should have large boiling space. Minimum Cooling Water Requirement.
		Specific Conductivity	0.1-0.5 µs/cm
		Biological Activity (Distillate quality)	Pyrogen free
		pH	6.0-7.0
		Organic Matter	Nil
		Total Solids	0.1 mg/Ltr or less
		Silica	<0.01 mg/Ltr
		Free Service:	For 1 year after expiry of warranty
		Electric Requirement	Single Phase 230 ± 10 Volts
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
9	<u>Filtration Assembly (Suction Pump For Suspended Solids)</u>	Warranty	Five years from the date of installation on applicable parts
		Material	Stainless steel lid, funnel, base, clamp and filter support of SS perforated filter mesh with 1 place manifold (simple type)
		Filter diameter	47mm
		Filtration area	12.5 cm ²
		Funnel	Stainless steel, 47mm dia with 650 ml (minimum) Capacity.
		Suction flask cup	2.0 litre
		Connections	Outer diameter of base outlet 10mm.
		Operating pressure	Vacuum only

		VACUUM PUMP		
		Type	Single phase motor with IP 44 type of protection, with carrying handle and sturdy rubber feet	
		Vacuum	Should be adequate for smooth filtration of water/waste water. The pump should be an oil free pump/diaphragm with continuous heavy duty type.	
		Flow rate/ rating	15.0 LPM (Maximum)/ 0.12 KW or 1/16 HP	
		Supply voltage	230 \pm 10VOLTS,50 Hz, Single phase AC	
		Ambient temperature	45°C (Maximum)	
		Warranty	Five years from the date of installation.	
		Calibration	The instrument should be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)	
		The Assembly should be complete with perforated Neoprene stopper, 2 nos. suction flask of 2 liter capacity, Vacuum hose pipes, stainless steel forceps, power cord with plug and toggle switch. and operating manual with standard tool kit.		
10	<u>Heating Mantle</u>	Heating Mantle	Made of yarn providing uniform heating of flasks up to 250°C with load voltage of 1.0KW.	
		Construction	Built in energy regulator, temperature controlled, indicator light fitted in painted metallic box.	
		Holding capacity	Holding capacity for 1000 ml flask.	
		Heating element	ISI marked heating element	
		Warranty	Five years from the date of installation.	
		Calibration	The instrument must be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)	
		Power requirement	220 \pm 10 volt 50 Hz AC	
11	<u>High Volume Sampler</u>	Housing	Sturdy Aluminum cabinet and consist of Blower, Filter holder assembly, time totaliser, Real time timer, flow meter, Flow controller & flow measurement device with all indicating devices.	
		Heavy duty Blower	Brush less motor capable of giving free flow up to 1.7 M3/minute.	
		Power Supply	220 VAC \pm 10V, 50 Hz (Single Phase)	
		Flow Rate	0.9 to 1.4 M3/minute	
		Auto shut of timer	24 hour programmable digital timer to automatically shut off the system after pre-set time intervals. Flexible to set at any interval of time	
		Time Totalizer	0 – 9999.99 Hrs	
		Flow measurement	Glass Manometer tube accurately graduated directly in M ³ /min and calibrated across orifice	
		Weight	Easily transportable/portable	
		Area	As compact as possible	
		Standard Accessories	Equipment to be supplied with power cord, Operational & trouble shooting Manual (Two set) Calibration Certificate for flow meter.	
		Calibration	The instrument must be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)	
		Warranty	5 years from the date of installation.	
12	<u>Hot Plate With Magnetic Stirrer</u>	Type	Compact with Stainless steel top heating plate. Hotplate-Should be ceramic coated chemically resistant to acid and alkali.	
		Width	150 to 250mm or better	
		Depth	250 to 300mm or better	
		Height	100 to 150 mm or better	
		Speed	Up to 1500 RPM, provided with electronic speed regulator.	

		Heating element	should be 1.0 KW(ISI marked heating element)	
		Temperature Range	Ambient to 200° C	
		Stirring Unit	Should be enclosed so that corrosive fumes do not enter it.	
		Stirring capacity	At least 2 liters (powerful motor of 150 watts motor rating input)	
		Heating capacity	1000 watts provided with energy regulator	
		Temperature uniformity	±1.0°C with sensor	
		Temperature stability	±1.0°C	
		Temperature indicator	Digital display. Controls for both hotplate and stirrer should be provided with suitable indicators.	
		Power	(230±10) volts/50 Hz AC operated	
		Calibration	The instrument must be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)	
		Warranty	5 years from the date of installation.	
		Accessories	Teflon coated Magnetic stirring bars (cylindrical 12 mm, 25 mm, 35 mm) 10 nos each with 1 holding rods/ supporting rods. Necessary electrical cables should be provided.	
13	Hot Air Oven	Internal Chamber Size	minimum 45 X 40 X 45cm or more POLISH SS WITH ROUNDED CORNERS	
		Construction	Double wall stainless steel (SS 304) with inside mirror finish and outside chamber made of steel with powder coated having double layer glass door larger viewing window.Double wall insulated door with door lock.	
		Total Volume	80 Litre or higher	
		Temperature	10 °C ambient to 300°C	
		Resolution	0.1°C or better	
		Temperature stability	± 1.0°C	
		heater quality	ISI marked heating element	
		Programmable controller	Shall be available	
		Control	Microprocessor based PID controller with digital display and PT-100 sensor with provision of time display.TEMP SHALL be maintained for desired range in the entire internal chamber.	
		Timer	Timing range from 1 minute to 9999 minutes.	
		Rating KW	1.50 KW	
		Electrical wiring	High quality fire retardant with contactor	
		Power Requirement	230 ±10 Volt, 50Hz AC	
		No. of Shelves	minimum 2 nos. adjustable (SS perforated adjustable shelves)	
		Safety System	Over temperature and temperature difference alarm and cut-off power supply in case the controller fails.	
		Accessories	To be provided with Temp. control, digital display of temperature, Power cord (At least five meters): 02 Nos and plug	
		Product Certification	ISO 9001 and Documentation for Installation Qualification (IQ), Operational Qualification (OQ), and Performance Qualification (PQ) must be provided. It should be USFDA standards compliant or equivalent(documents required)	
		Air Circulation	An inbuilt air circulation fan with motor to maintain temperature uniformly inside the chamber.	
		Calibration	The instrument must be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)	
		Warranty	5 years from the date of installation.	
14	Muffle Furnace	Must be designed for the environmental sample analysis applications like, inorganic solids, volatile solids & loss on ignition at 550°C and ash content at 800°C & 1000°C, using silica and platinum crucibles with low power consumption.		

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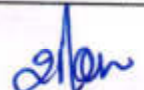
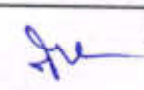

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		Constructions	Dual shell furnace housing of rust free stainless steel material. Housing made of textured/mat finished stainless steel. Shall be compact and light weight. Multi layered high thermal efficient insulation with fiber plates in the furnace chamber.	
		Temperature Range	300C - 1100°C with working temperature 1000 oC	
		Size	Internal furnace cavity dimensions shall be at least 150 x 300 x 150 (w x d x h) mm.	
		Capacity	Volume of the furnace internal cavity shall be about minimum 4 liters or better	
		Heating	Based on heating elements Kanthal "A1" grade or better and ISI marked	
		Temperature Controller	Microprocessor based PID controller and digital temperature indicator	
		Display	LCD / LED	
		Door	Opening & closing with heat proof handle. Exhaust fume exit provision.	
		Power	230 ± 10V/50 Hz AC	
		Calibration and Inspection	Shoud have calibration and inspection certificate from factory. Calibration of the equipment shall also be ensured during warranty.	
		Features	Highly insulated, Pilot lamp for thermostat operation, Safety interlock switch for open door	
		Calibration	The instrument must be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)	
		Warranty	5 years from the date of installation.	
15	<u>Sound Level Meter</u> (Class-I)	Digital Integrating Sound Level Meter (Class-I)	With audio recording and back erase function, if possible, for short time (Approx. 10 seconds).	
		Display Language	English	
		Display type	High resolution LED/LCD Color display(Readable in sunlight)	
		Confirmation with National & International Standards	IEC 61672-1:2013 or ANSI S1 OR higher (PTB, METAS etc. certification required)	
		Microphone (class-I)	1/4 inch for high range measurement	
		Ranges	20-140 dB in single measurement range however SLM should be capable to get upgraded to microphone 25-160 db in a single measurement range (without need of switching between ranges) in future whenever required. Department will procure only high level microphone(s) and its adapters whenever required in future.	
		Parameters	L1,L5,L10,L50,L90,L95,LMax,LMin,Lpk(peak),Leq, SPL etc,with date & time	
		Frequency Weighing	Simultaneously Measurement A,C & Z	
		Response Time	Fast,Slow&Impuse (less than 100 μS)	
		Octave Bands	1:1 and 1:3 octave	
		Weight	Light Weight (Not more than 400gms)	
		Operating Range	Temp. -10.0 degree C to 50.0 degree C , Humidity: 10% to 90% RH, non - condensing	
		GPS	Inbuilt GPS should not be detachable from the instrument and operative without internet.GPS location must be stored with each reading on meter and can be seen on SLM memory.	



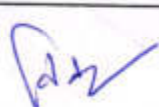

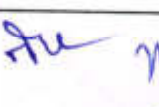
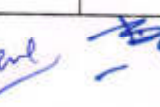









		Printer	BIS approved portable and battery rechargeable mini dot matrix printer along with logo of RSPCB and GPS coordinates. On field printout should come with RSPCB logo make, model and serial no. of SLM. Date time and reference level of pre and post calibration, Leq, L50, L90, 1/1 or 1/3rd octave band alongwith GPS co-ordinates.	
		Storage	More than 500 data files storage capacity or minimum 2GB inbuilt memory.	
		Internal Clock for date and time	Internal Memory to store date and time and automatically synchronized with present date and time whenever instrument started even after battery removal.	
		Computer Interface	Data logging with USB interface compatible with window 7 or better.	
		Calibration	quoted model of Sound Level Meter as well as Acoustic Calibrator should be calibrated by NPL at the time of supply Or other equivalent national and international agencies. NABL Calibration of each equipment shall be ensured during whole warranty and AMC period on yearly basis.	
		Field Calibration	Auto calibration (user friendly) at level 114dB and 94 dB (± 1 dB) separator calibrator should be provided with each instrument.	
		Specification for Acoustic Calibrator	IEC 60942 :2003 or ANSI S1.40:2006 (Class-1) Calibrator frequency 1 kHz or better each at 94 dB and 114 dB. Harmonic distortion less than 1%. Accuracy ± 0.25 dB at 25 degree C.	
		Batteries	BIS approved Alkaline or rechargeable cell with charger plus Lithium (at least 8 hrs of back up or more) with low battery indicator.	
		Power back up	should have external power back up facility to have cont. Measurement for more than 24 hrs.	
		Warranty and CAMC	05 year warranty and 03 years CAMC	
		Demonstration & Training	Free hand on training FOR, technical assistance as and when required.	
		SLM Kit Includes	SLM with class -I microphone, Acoustic Calibrator, Dot matrix rechargeable printer alongwith charger, heavy duty carry case, Tripod, rechargeable batteries, alongwith charger, power pack, USB cable, data logging software, user manual.	
		Remarks	OEM should have own service centre with calibration facilities in India at different frequencies. Periodic calibration as per IEC 61672-3:2013	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
		Warranty	5 years from the date of installation.	
16	<u>pH Meter</u>	Microprocessor based bench top pH meter for routine measurement of pH / mV & temperature with having dual power operating facilities (230 \pm 10 V online power mains operation and large multifunction digital display, automatic temperature compensation, and parallel temperature display, 6 - point calibration system in a set including gel filled pH combined electrode with inbuilt temperature sensor. The equipment should be water proof, light weight and portable with all accessories, standards (NIST Traceable) etc.		
		pH Range	(-2.000 to 20.000) pH	
		Resolution	0.1/ 0.01/ 0.001 pH	
		Accuracy	± 0.002 pH	
		Calibration	automatic, six point calibration, standard buffers available (1.68, 4.01, 7.01, 9.18, 10.01, 12.45) buffer should be NIST traceable.	
		mV Range	± 1999	
		Resolution	0.1 mV or better	
		Accuracy	± 0.1 mV or better	
		Temperature Range	0-100.0 degree C	

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		temperature Resolution	0.1 °C	
		Accuracy	± 0.2 °C or better	
		Temp. Compensation	Automatic	
		Reference Temperature	As per mentioned range	
		Power Supply	Online for 230 ± 10 V AC and 9 V rechargeable batteries.	
		Internal Diagnostics / Self Test Facility	Yes	
		Splash Proof Housing	Yes	
		Display	LCD/LED Display of the condition of electrode with warning display	
		Simultaneous Temperature & pH Display	Simultaneous display of Temperature and pH	
		Membrane Keyboard with pressure defined points	Yes	
		USB Port	USB Interface /RS 232C interface to attach the normal printer / PC.	
		Sensor Validation	Yes	
		Combined Electrode Specifications	Combined (glass/reference), composed of epoxy, Ag/AgCl	
		Reference Electrolyte	One year replacement warranty	
		Electrode Maintenance solution	Suitable electrode filling solution for at least 2 years hassle free operation	
		Warranty	Five years from the date of installation. One year on electrode	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
		Accessories :		
		Power cord, Operation and service manual (2 copies each), one extra Electrode, Electrode stand (preferentially Flexible) Beakers for calibration etc.		
		NIST traceable Standard buffers for 6 point calibration at least 500 ml each.		
17	<u>Refrigerator</u>	Capacity	240 Litre or above	
		Key Feature's	Door Cooling+ Multi Air Flow minimum 03 Star Rating Smart Diagnosis Auto Smart Connect Minimum three no. of shelf Temp of freezer and fridge may be convertible with outer display.	
		Compressor Type	Smart Inverter Compressor	
		Door alarm	Yes	
		External LED Display	Yes	
		Door	Double Door	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
		Warranty	Comprehensive warranty of 05 years from the date of installation, with compressor warranty 10 years.	
18	<u>Respirable Dust Sampler</u>	Housing	Sturdy Aluminum cabinet and consist of Blower, Filter holder assembly, time totalizer, Real time timer, flow meter, Flow controller & flow measurement device with all indicating devices.	

		Heavy duty Blower	Brush less and totally noiseless motor capable of giving free flow up to 1.4 M3/minute, for at least 28 hrs continuous operation	
		Power Supply	230 \pm 10 V ; 50 Hz (Single Phase)	
		Flow Rate	0.9 to 1.4 m3/minute free flow with flow stabilization by electronic flow control device	
		Auto Shut Off Timer	24 hour programmable digital timer to automatically shut off the system after pre-set time intervals. Flexible to set at any interval of time.	
		Time Totalizer	0 – 9999.99 Hrs	
		Flow controller	Automatic Electronic Feed-back controller with pressure sensor to maintain Constant flow rate and compensate for dust load deposited on filter.	
		Flow measurement	Glass Manometer tube accurately graduated directly in m ³ /min and calibrated across orifice.	
		Auto Shut Off	Flow controller should have provision to automatically shut off the system if flow rate drops below 0.85m3/min in compliance with BIS 5182-part 23:2006.	
		Particulate Sampling / Separation	From 10 micron down to 0.1 micron on filter paper and coarse dust should be collected in a cyclonic cup as per BIS design-separation technology based on approved from CSIR NEERI lab.	
		Filter Holder	Aluminum Casting with fine finished rubber gasket.	
		Gaseous Sampling attachment	With thermoelectrically cooled controlled container.	
		Impinger Tubes	35 ml. capacity, 4 Nos. of Borosilicate glass midget impingers kept in thermoelectrically cooled facility for keeping the temperature of impingers around 15° C	
		Flow Control	Four Inlet and One outlet with built in Needle Valves for flow control of each unit & fitted with silica gel tubes.	
		Control Valves	Fine control, Calibrated and independent control to each impingers in thermoelectrically cooled controlled container.	
		Rotameter Flow Rate	Acrylic, maximum of 0-3 lpm (Least count 0.1 LPM) capacity with calibration certificate should be provided by manufacturer.	
		Weight	Easily transportable/portable	
		Area	As compact as possible	
		Standard Accessories	Equipment to be supplied with power cord, Operational & trouble shooting Manual (Two set) Spares glass midget impingers 10 nos., Calibration Certificate for flow meter Rotameter & orifice., Fuse -02 Nos, Rain Covers, Tool Kits with in part	
		Warranty	Five years from the date of installation.	
		Calibration	The instrument must be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)	
19	<u>Specific Ion Meter (Ion Analyzer) for fluoride, Nitrate</u>	Ion Concentration measurement	Range: 0.0001 to 19999 ppm	
			Resolution: 0.1/0.01/0.001	
			Accuracy: \pm 0.5%	
			Calibration points: 05 points	
		pH Range	(-2.000 to 20.000) pH	
		Resolution	0.1/ 0.01/ 0.001 pH	
		Accuracy	\pm 0.002 pH	
		Calibration	Automatic upto 05 points calibration, Buffer Groups: USA/ NIST traceable.	
		Temperature Measurement	Range: -0-100.0 degree C	
			Resolution: 0.2 °C	
			Accuracy : \pm 1.0 °C	
		Milli Volt Range	\pm 1800 or higher	
			0.1mv	
			\pm 0.2 mV.	
		Display	Graphic LCD backlit display.	

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Printer / Computer connectivity	Should have USB Port for attachment of Printer/ Computer.
Power Supply	DC Volt Line adapter for 230 \pm 10 volts, 50 Hz, AC
Ion Selective Electrodes	Two channel ion meter with independent calibration of two ion selective electrode with standard electrolyte solution having at least one year of shelf life.
Additional Feature's	Built-in stirrer and Fluoride ISE. Nitrate simultaneously. Touch Screen Display with Dual Channel ION Modes
Spares and consumables	Should be supplied for two years trouble free operation.
Electrodes (Epoxy body combined solid state) and calibration standard NIST traceable. Fluoride Nitrate Electrode suitable for range of 0.02 ppm to saturation. electrode combined liquid membrane, suitable for range 0.1 to 14000 ppm as N. PH electrode: Epoxy body gel filled. All electrode shall be provided/supplied along with reference Electrode fill solution. Standard solution NIST certified 500 ml each for Fluoride, pH and Nitrate. One electrode extra for pH, Nitrate and Fluoride shall be provided with the Equipment.	
Warranty	Five years from the date of installation.
Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
Accessories	Should be supplied with Power cord, Dust cover, connecting cable, Power adapter, Operational Manual (Two Copies of each), Electrode Stand (Flexible) Beakers for Calibration.
20	Stack Monitoring Kit
Instrument Panel	
Manometer	Digital with 0-1300 mm of H ₂ O range
Stack velocity Range	3 to 60 m/sec
Particulate Matter Sampling	0 to 60 LPM,
Gaseous Sampling	0 – 3 LPM collection in a set of borosilicate glass impingers
Rotameter	Plastic body rotameter with 2% FSD accuracy, 0-60 lpm for particulates and 0-3 lpm for gases
Digital Clock	0-60 minutes, 1 second readout with start and stop switches
Pyrometer Range	Ambient to 600°C (Digital display) and 500-1000°C read separate digital pyrometers.
Thermocouple	Thermocouple sensor SS 304 casing with digital display capable of measuring temperature from 0 to 600°C covered with acid resistant casing and appropriate length (length same as that of pitot tube with 2 M long cable).
	Separate suitable thermocouple with digital display capable of measuring temp. from 500°C to 1000 °C covered with acid resistant casings and appropriate length same as that of pitot tube with 2 M long cable).
Oil Free Vacuum Pump Assembly	
Rotary design and oil free vacuum pump with moisture trap and should be portable.	
Flow	Capable to ensure 60 LPM effective gas flow
Weight	Vacuum pump should be light weight (Weight should be less than 10 Kg)
Pipes	Two set of all required connecting pipes (hose) with leak proof joints. One additional 10 meters length pipe (hose).
Pump Housing	Mild steel case with oven-baked stove-enamel finish and ON/OFF switch with indicator lights.
Power	Single phase motor, 230 \pm 10V.
Nozzles, Pitot & Sampling Probe	
Set of iso kinetic Samples Nozzles	3 set of nozzles (minimum 4 nos. sizing 1/8", 1/4", 3/8", 1/2") fabricated from SS 304 or equivalent material with internal diameter suitable to cover the full range of stack velocities. The leading edge of the nozzle should be sharp and tapered.

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		Sampling Probe and 'S' – type pitot tubes	Modified S- type pitote tube shall be fabricated from SS 304. Calibration certificate should be provided for each pitote tube (0.6 m extendable to 1.2 mtr)	
		Sampling Probe	Fabricated from SS 304 tube of suitable diameter (not less than 15 mm ID). The lengths of the Pitot tube and the sampling probes shall be of 1.5m extendable to 2 meter.	
		Thimble Holder	Made of SS 304 tube suitable to hold cellulose/glass filtration thimble (size 28mm ID x 100 mm long) or glass micro fiber thimble (size 19mm ID x 90 mm long)	
		Dry Gas Meter	In built dry gas meter heaving resolution of one liter	
		Cold Boxes for Impingers & Back Panel		
		Cold Boxes for Impingers	Four impingers of 120 ml and two numbers of 250 ml capacity Borosilicate glass impingers. Facility should be there for keeping ice at the bottom of impinger box. Thermo electric cooling is desirable	
		Back Panel	Hinged door panel of mild steel to contain cold box with 5 impingers or cold box can be provided separately.	
		Calibration	Calibration certificates for Manometer, Rotameter, Pitot tube, Nozzles, Thermocouple and Dry gas meter etc. should be provided. Calibration of the equipment shall also be ensured during warranty.	
		Warranty	Five years from the date of installation.	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
21	Thermometer (Digital)	Tools	A kit containing the essential tools required for connecting various components shall be provided with the equipment. Tripod stand	
		Range-	50-300 °C (Digital display with degree Celsius and degree Fahrenheit) with certification	
		resolution	0.1 °C	
		Accuracy	±1.0 °C	
22	Turbidity Meter	Low battery indication.		
		Should be laboratory bench top turbidity meter suitable for measurements even for colored samples with Auto shut off.		
		Measuring Ranges	0.00 - 10 NTU; 10-100 NTU; 100 – 1000 NTU or higher	
		Range selection	Automatic / manual	
		Resolution	0.01 NTU, upto 9.99 NTU	
			0.1 NTU from 10 to 99.99 NTU	
			1 NTU from 100 to 999.99 NTU	
		Accuracy	± 2% of reading or 0.02 NTU	
		Repeatability	± 1 % of reading or 0.02 NTU, whichever is greater	
		Stray light	Less than 0.02 NTU	
		Light Source	tungsten filament lamp/light emitting diode for colorless samples and IR LED (should cover both visible and IR range.	
		Sample Volume	10ml	
		Memory	upto 5000 data	
		Display	capacitive Touch Screen/digital	
		Power	Re-Chargeable LI-ION Battery, AC 230V with adapter.	
		Measuring mode	Normal, average, continuous	
		Data Logging	Optional USB connectivity.	
		Calibration	4 Point calibration with vials for four standards.	

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		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)	
		Warranty	Five years from the date of installation.	
		Accessories		
		Should be provided with operation & maintenance Manual (Two Sets), Cable and plug, and dust cover		
		Cuvettes and Cuvette stand (One Cuvette stand and ten Cuvettes).		
		The NIST certified Standards (with certificates) should be supplied with 500 ml of each standard according to 4 point Calibration.		
23	Total Kjeldhal Nitrogen Analyser	TKN system consists of digestion unit, acid fume scrubbing unit and distillation unit for the estimation of total kjeldhal nitrogen in water, industrial effluents, solid wastes, etc., samples.		
		Digestion unit		
		Automated with integrated programmable control		
		Capacity for 12 x 250 ml digestion tubes		
		Rapid heating via aluminum block		
		Should have the capacity to accommodate at least twelve numbers of digestion tubes each of at least 250ml capacity.		
		Temperature ranges from Ambient to 450 °C / 842 °F, Stability of ± 0.5 °C %, Precision of ± 0.5 °C %, Automatic temperature calibration		
		LCD /LED display and control system, Alarm messages, End of run audible signal, Readout in a choice of °C, °F and K		
		Should have all essential accessories like digestion tube, SS onnert rack, exhaust manifold, SS stand etc. Shpold have leak proof integrated condensers made up of glass.		
		Shold have Auto scrubber power on and Proper digestion exhaust system.		
		Digestion timer for 1-999 minutes in 1-minute steps		
		ISO standards documents mandatory required .Conformity with EPA or equivalent also required. Complete with sample rack, drip tray, suction cap and test tubes, Availability of a dedicated scrubber to trap fumes for operator and environmental safety.		
		Scrubber unit		
		Effective acid fume suction and neutralization scrubber with alkali and water (two-stage) using non-corrosive and oil-free centrifugal suction type, with manual vacuum adjustment facility. Acid resistant tubing inter connections.		
		Distillation unit		
		Automatic distillation procedures with microprocessoe based distillation unit.: dilution of sample (water addition), alkali (sodium hydroxide) addition, acid (boric acid) addition, distillation time, steam output regulation, and nitrogen/protein calculation in different formats.		
		Recovery more than 99.5 % at nitrogen levels between 1-200 mg/l.		
		Should be made up of standard quality of borosilicate glass for steam generators along with heater. Steam inlet tube of PTFE.		
		Reproducibility 1% RSD		
		Detection limit : > 0.1 mg N		
		Analysis time from 4 minutes		
		Steam distillation in 3 to 4 minutes		
		Built-in steam generator and Safety Thermostat, Absence of pressure in the steam generator to		
		Validated procedure/ guidelines certification of the for TKN distillation like, EPA or equivalent and Iso certification mandatory required.		
		Unbreakable Titanium condenser which eliminates need of any external chiller to maintain the threshold temp		
		Limited water consumption (0.5 L/min. with tap water at 15 °C, 1 L/min. at 30 °C)		
		Automatic sensing no water condition in the condenser with auto alarm		
		equipeed with sensors for safety doors distillate temp and water level as well. Should have ventilation		
		Alarm messages and audible signal., 7" colored and interactive touch screen, Data transfer to pc or to a pen drive, data printing and balance connection, Ethernet, 2 x USB and RS232 connections, 50-program library on-board		

Signature: _____ Date: _____

		Accessories	
		2 set of digestion tubes (24 tubes), Digestion tube stand, Spillage tray for the condensers, Tube removing device and operating manuals etc.	
		Warranty: Five years from the date of installation.	
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
24	<u>UV - Visible Spectrophoto Meter</u>	Description	Real Double Beam microprocessor based controller having fully controlled by external PC using Windows based software working stand alone.
		Optical	Real double Beam with fixed spectral bandwidth 1 nm or lower.
		Light Source	Tunsten- Halogen and Dueterim lamp
		Wavelength Range	190-1100 nm range
		Wavelength Accuracy	0.1 nm at 656.1 nm and upto 0.3 nm or better at entire range.
		Wavelength Repeatability	better than or equal to ± 0.1 nm
		ABS	(-2.0 to 4.0) Ab or better
		Scan Speed	Slow, Medium, Fast (1000-25000 nm/minute) or better
		Photometric Drift	(+/-0.0002) absorbance units/hour at 0.5 A or better
		Noise Level	Should be 0.00020 Abs or better.
		photometric accuracy-	(+/-0.002 Abs(0.5 abs)
		Stray Light	Less than 0.02 % at 220- 250 nm or better
		Baseline flatness stability.	less than 0.0003 Abs/hr.
		Additional Feature's	instruments should be compatible ISO, APHA, ASTM. Instrument should measure Absorbance, Transmittance, Concentration & Kinetics modes of operations. Should include : a. 2 pair quartz's 10mm square Cuvettes. b. Full Range Scanning 190-1100nm
		Certification	The supplier/OEM shall mandatorily submit ISO:9001 and CE certificates .
		Power Requirement	230 \pm 10 V 50 Hz AC
		Warranty	Five years from the date of installation.
		Calibration	The instrument must be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
		Accessories	
		Spare Parts	Essential spares parts for five year of operation for main instruments.
		UPS	One No. of required capacity with each instrument.
		Dust Cover	Two set
		Computer and printer	Complete PC with each instrument .minimum Core i5 processor based PC to operate the UV visible spectrophotometer and should be compatible with UV visible software alongwith all required accessories. B/W Laser jet Printer. 4 Gb RAM, 1 TB hard disk, DVD writer LED monitor. Should be supplied with original lisencc key of the windows Microsoft Office. Antivirus software with licenced CD. Complete PC with mouse and all required accessories.
		Operation Manual	Two set
25	<u>Visible Spectrophotometer</u>	Micro processor based single beam grating based single detector Spectrophotometer. The unit should have built in self diagnostics and the sampling compartment should have compatibility for round cells, square cuvettes.	

Wavelength Range	340 to 960 nm.
Absorbance Range	(-0.3 to 2.5Abs)
Spectral Bandwidth	5.0 nm or better
Wavelength Resolution	1.0 nm
Wavelength Display	3.0 Digit Digital
Wavelength Accuracy	1.0 nm or better
Photometric Resolution	0.1 %T , 0.001 Abs
Photometric Accuracy	± 0.001 Abs at 1 Abs
measuring mode value-	abs 0.001 to 1.999 , T 0.00 to 100%
Modes	%T, Abs, Concentration & K Factor
Concentration	0.000-9999 with floating decimal point
Photometric Readout	Digital LCD or LED. Selectable for Transmittance (T), Absorbance (A), Concentration (C) with auto zero facility.
0 & 100% T setting	Manual
Detector	Si-Photo-Diode
Grating	600 lines /mm
Source	Tungsten-Halogen lamp/
Interface	RS-232
Sample Holder	For holding up to 50 nm path length rectangular cuvette
Power Requirement	230 + 10 Volt, 50Hz.
Certificate	Certificate are to be enclosed from manufacturer regarding ISO 9001:2015 and other accreditation certificate from the National or International reputes (Whichever is applicable).
Calibration	The instrument must be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)
Warranty	5 years from the date of installation
Accessories	
Two pair quartz Cuvette (at least 10 mm path length), 02 operating manual (English), Dust cover.	

26	Weather Station for Metrological Parameters	Parameters	Wind Speed, Wind Direction, Temperature, Pressure, Relative Humidity, Rainfall and Solar Radiation.
		Wind Speed	WS range 0.5 to 100 Km/hr. With accuracy of ± 0.5m/s
		Wind Direction:	WD range 0 to 360 degrees with 01-degree resolution
		Temperature & RH:	T range 0 to 50.0 °C with resolution of 0.1 C and 0 to 100% RH with 1% resolution
		Solar Radiation:	Solar Radiation Sensor
		Barometric Pressure:	Barometric Pressure Sensor
		Rainfall:	RF range 0-50 mm per hour with 0.5 mm resolution
		Memory Capacity	Minimum 45 days storage of all parameters in non-volatile flash memory
		Real Time Sync	Includes built-in battery backed Real time clock which ensures data is synchronized with real-time even after periods of prolonged power failure
		Software/Data Access	Windows compatible, software is provided for data download to a PC and analysis, and direct cable connection to USB ports. Analysis tools for export to MS Excel, Graphs, Monthly Averages & Windrose Diagrams
		Power requirement	Preferably a rechargeable battery packs with minimum back up for about 15 hours. A main power based charger and an optional Solar Panel based charger.
		Calibration	The instrument must be calibrated from NABL accredited laboratory.NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis(for a period of whole 08 years)

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		Warranty	Comprehensive warranty of 05 years from the date of installation.
27	<u>Water Bath thermostatic</u>	Construction	Double walled, inner & outer made of SS 304 and with proper insulation between two walls.
		Temperature range	5.0°C above ambient to 99.0°C or better.
		Temperature accuracy	± 0.5°C
		Temperature Uniformity	± 1.0°C
		Holes	12 holes with 3" dia. Adjustable concentric rings to use flasks from 50 to 500 ml capacity.
		Temperature Control Primary	PID Controller
		Secondary (safety control)	Hydraulic thermostat controller
		Temperature sensor	100 Pt RTD
		Display	LED/ LCD to show temperature
		Bath Capacity	10 Liters
		Water Low-level cutoff	Yes, adjustable
		Working depth	6"
		Power	230 Volt AC, 50 Hz
		Base	Grounding should be with rubber bushes.
		Spares	One heater spare set shall be provided.
		Calibration	The instrument should be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
		Warranty	5 years from the date of installation.
28	<u>Flue Gas Analyser</u>	Discription	Supply, Installation and commissioning of Portable flue gas analyser for the determination of Oxygen (O ₂), Carbon Dioxide (CO ₂), Carbon Monoxide (CO), Nitric oxide (NO), Nitrogen Dioxide (NO ₂), Sulphur dioxide (SO ₂), Hydrocarbon C _x H _y (HC), Temperature, Efficiency and Pressure in flue gas stack outlet and other gas samples and 06 sensors may be attached at a time.
		Measurement Parameters, Range & Sensor Specifications	<ol style="list-style-type: none"> 1. Oxygen- (O₂) Electrochemical- 0-21 vol% or better-0.01% resolution 2. Carbon Monoxide(CO) Electrochemical(H₂ compensated) - 0-10,000 ppm with 0.1 ppm resolution 3. Carbon Dioxide (CO₂) - NDIR- 0-50 vol% with 0.1% resolution or better 4. Nitric Oxide- Electrochemical- 0-4,000 ppm or better with 1.0 ppm resolution. 5. Nitrogen Dioxide- Electrochemical- 0-500 ppm with 0.1 ppm resolution 6. Sulphur Dioxide-(SO₂)- Electrochemical- 0-5000 ppm with 1.0 ppm resolution 7. Pressure(ΔP)- ±200 mbar with 0.1 mbar resolution or better. 8 Temperature- k type thermocouple- 0-1200.0 degree C with 0.1 degree resolution 9. Flue Gas Probe- min 1000 mm long probe with sintered filter, with special hose and handle min 2 filters required in Flue Gas path OEM make only and temperature withstand capacity upto 1200.0 degree. 10. Hydrocarbon C_xH_y(HC)- Peelistor 100-40000 ppm with 10 ppm resolution.
		Display and User interface	Fully portable large color graphical back lit display with application specific menu and intuitive keypad to provide clear information and simple operation.
		Sensors Type	All electrochemical sensors should be pre-calibrated and plug & play type.
		Pump & Active flow control	Integrated auto-controlled high suction pump to draw gas sample with a flowrate of 1.0 litres/minute or better.
		Operating temperature	must be 5 to 55 °C.

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Additional Feature's	<p>1. Automatic fresh air rinsing / zeroing system shall be available.</p> <p>2. CO sensor overload protection like Dilution or CO purging pump must be available without effecting other measurements</p> <p>3. The Analyzer shall measure both Ambient & Flue Gas Temperature.</p> <p>4. The instrument has the ability to calculate efficiency, and excess air.</p> <p>5. Advanced instrument diagnostic function for gas path check, sensor check and error diagnosis.</p> <p>6. All gas readings should be simultaneously displayed, and the readings can be displayed as ppm or mg/m3 or %.</p> <p>7. The instrument must have minimum IP 40 Protection.</p>
Inbuilt Peltier chiller assembly	An integrated moisture removal system to ensure that gas is completely dry before entering the analyzer with inbuilt Peltier chiller assembly & peristaltic pump to automatically remove condensate must be available. External cooling is not acceptable.
Time Response	Faster response time within 30 seconds to 1 minute for the most gases.
Memory	Instrument must have more than 2,00,000 Storage capacity. Data get store in Folder & Location selected by user with automatic data logging facility on selectable time interval without any PC or Laptop connection.
Communication interface	Instrument shall have Wireless/ Bluetooth and USB connectivity to transfer data from analyzer to PC/Notebook and the supporting software for data analysis shall be supplied which can generate report in terms of PDF, Excel & Diagram
The Analyser is modular, to enable expansion in future even though the initial configuration	<p>a. for 6 Gas Sensors.</p> <p>b. Weight must be not more than 5Kg</p> <p>c. APP Connectivity for easy reporting.</p>
Analyser shall be Incorporated with various Filters protection	<p>a. Gas Pre Filter</p> <p>b. Water Catch pot</p> <p>c. SO2 Filter to trap any trace SO2 from damaging the CO Sensor, etc.</p> <p>d. Minimum 3 filters in flue gas path are required (45,25,20 micron)</p> <p>e. Supply 10 nos all three size of filter along with each instrument</p>
Power supply	Built in rechargeable battery with minimum 08 hours of operation on one recharge and AC power adapter 220V 50 Hz.
Analyser shall have a built-in	<p>a. Auto Diagnostics</p> <p>b. effective fault finding and status of cell.</p> <p>c. cell zero and cell life.</p> <p>d. Filter/error count.</p>
Print option	Inbuilt/external Printer to produce comprehensive printed reports.
Sensor replacement	On Site sensor replacement mandatory not required to send instrument service centre.
High quality SO2 & NOx tubing with inner PTFE coating must be supplied along with material	YES Required
Carry case	Soft and Hard carrying case must be supplied along with material for safe transportation.
Certification/Compliance	Instrument Must have USEPA/TUV/MCER/NPL Certified. The complete system should be factory tested as per the scope of work.
Training & Installation	The Bidder/OEM should arrange the training on operation FOR day to day maintenance, system management etc. to ensure effective and safe use of the equipment after successful installation and Commissioning of Instrument.

	Service support	The OEM must have authorized service center & Calibration Lab as per ISO/IEC 17025 in India and maintenance base in local city or nearby area to provide maintenance service of the system being offered, efficiently and promptly.
	Calibration	The instrument should be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)
	Warranty	5 years from the date of installation.

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29. PM_{2.5} Sampler: -

S. No.	Specification specified by the Board	
	Particular /Criteria	Requirement
	A	B
1.	Sampler	Manual Filter Based Sampler (filter diameter 47 mm) as per sampler design & performance criteria as mentioned at Section A, B, C & D
2.	Flow rate	1 m ³ /hour (16.7 lpm) controlled by a suitable Flow Controller. The Flow Performance criteria should comply with BIS method 5182 (Part 24) 2019 Accuracy $\pm 2\%$ of the reading.
3.	Size Selective Inlets	Should have opposed jet impaction for PM ₁₀ cut-off and WINS Impactor/VSCC for PM _{2.5} collection on filter paper.
4.	Height of the inlet	The height of the inlet should be between 2 ± 0.2 m from the base of the sampler and the sampler should stand alone firmly at erected position
5.	Time Totalizer	Operates only during operation of the pump, display time with a resolution of one second.
6.	Vacuum pump	Suitable pump with brushless motor for providing the designed flow rate. Pulsating pump should have built-in pulse dampeners.
7.	Flow rate control	Sampler should maintain designed volumetric flow rate (16.7 LPM) at inlet incorporating dynamic volumetric corrections with respect to temperature and barometric pressure. Necessary compensation of volumetric flow rate due to compensating pressure drop across the filter should also be ensured. Ambient temperature, barometric pressure during sampling must be displayed and recorded. Flow rate should be measured at least at 30 seconds interval and averaged over 5 minutes. The flow rate shall not vary more than $\pm 5\%$ from the specified flow of 16.7 lpm.
8.	Data Management	Memory-based recording for flow rate and total volume over five minutes should be downloadable to a computer through a suitable port and USB drive. Current/last logged data should be displayed. Logged data should have cloud connectivity and data of last sampling ten days must be available for crosschecking. Data management requirements (other) & ready reference as mentioned in the document Sections C & D of referred document.
9.	Power Supply	A stabilized power supply through suitable voltage stabilizer having display of input and output voltage should ensure an output voltage within 230 ± 10 V, AC 50 Hz.
10.	Supply of Accessories	Manufacturer's standard operation kit must include all required, fittings and accessories for the operation of sampler. Accessories to be supplied with each unit should include Leak check unit-1No., Filter cassettes-2Nos, Filter Cassette Holder- 1No., Blunt Tip Forceps-1No., Filter Carrier- 10 Nos., Silicon Grease 10gm-1 box, Impaction Oil 100 ml-1 bottle, 05 Set of O-rings, pen drive 16 GB-01 No. and Cleaning Brush.
11.	Documents	Operation and maintenance manual of sampler, along with data transfer protocols used with their technical description for data management and data transfer.

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12.	Certificates	NABL Calibration certificates issued by the manufacturer with references used for Flowrate, Temperature, Barometric Pressure and Time Totalizer should be supplied with each instrument. A satisfactory performance check certificate as mentioned in section B (para 2) is provided along-with all the data-sets recorded in the system for data management etc. NABL Calibration of each equipment shall be ensured during whole warranty and AMC period on yearly basis.
13.	Validation	Preliminary test report/validation issued by NPL to be submitted for respective make and model. Any changes in model or declared components of the equipment require revalidation by NPL. Submission of a preliminary test report/validation from NPL as per the set criteria of NPL is mandatory on or before 30th September 2023,
14.	Warranty and AMC	Comprehensive warranty of 05 years from the date of installation CMC for 3 years after warranty.
15.	Caliberatuion	The instrument should be calibrated from NABL accredited laboratory. NABL Calibration Certificate must be provided with each instrument, NABL calibration shall be ensured by NABL accredited lab during whole warranty and CAMC period on yearly basis (for a period of whole 08 years)

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