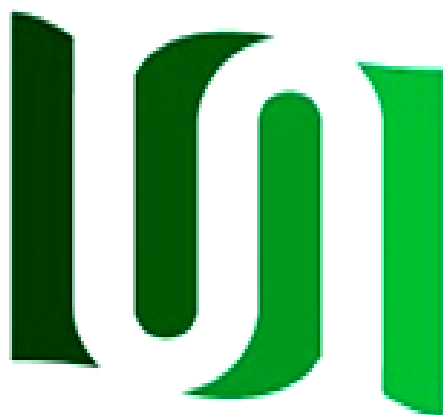


Tender Document

Tender No. UON-24-12-2024-04

**INVITATION TO BIDS/OFFERS
OF
PROCUREMENT OF LAB CHEMICALS FOR UNIVERSITY OF
NAROWAL**



University of Narowal

UNIVERSITY OF NAROWAL
New Campus Shakargarh Road Narowal, Pakistan
Phone: (+ 92) (0542) (920050) URL: www.uon.edu.pk

Important Note:

Bidders must ensure that they submit all the required documents indicated in the Bidding Documents. Bids received without, undertakings, valid documentary evidence, supporting documents and the manner for the various requirements mentioned in the Bidding Documents or test certificates are liable to be rejected at the initial stage itself. The data sheets, valid documentary evidences for the critical components as detailed hereinafter should be submitted by the Bidder for scrutiny.

Applicability of Punjab Procurement Rules, 2014

This Bidding Process will be governed under Punjab Procurement Rules, 2014, as amended from time to time and instructions of the Government of the Punjab received during the completion of the project.

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SECTION I- INVITATION FOR BIDS
PROCUREMENT OF LAB CHEMICALS FOR UNIVERSITY OF
NAROWAL
TENDER NO. UON-24-12-2024-04

University of Narowal invites bids/offers from bidders i.e. firms/companies/sole proprietor/general order suppliers etc. Engaged in trading, registered with relevant Registration Authorities and Tax Departments/Authorities (Income Tax, Sales Tax, Punjab Sales Tax etc). The Bids shall be received as per single stage two envelopes procedure. The detail is as under: -

LOT	Tender Name	Estimated Price	2% Bid Security	Closing Time and Date	Opening Time and Date
01	Lab Chemicals LOT-01	635,872	12,717	24-12-2024 12.30 PM	24-12-2024 01.00 PM
02	Lab Chemicals LOT-02	769,194	15,384		
03	Lab Chemicals LOT-03	884,550	17,691		
04	Lab Chemicals LOT-04	1,722,350	34,447		
05	Lab Chemicals LOT-05	982,450	19,649		
06	Lab Chemicals LOT-06	2,863,235	57,265		

The organization must be registered with the Federal Board of Revenue for Income or Punjab Revenue Authority with an active taxpayer profile. Bidding documents can be obtained immediately from the date of publication of tender notice on website of the University of Narowal and PPRA or on submission of a written request on company's letter head from office of the Secretary Central Purchase Committee, University of Narowal. University shall not be responsible for delays & non delivery caused by courier firms/post office etc. regarding issuance & receiving of bidding document/proposals etc. Technical proposals must contain **bid Security** in the form of CDR/Demand Draft/Pay Order **equivalent to 2% of Estimated Price** (as mentioned in tender notice) in favor of Treasurer, University of Narowal. Sealed bids/offers in conformity with bidding documents should reach in the office of the Secretary Central Purchase Committee, **not later than 12:30 PM on 24-12-2024**. Sealed proposals shall be **opened on same day at 01:00 PM** in the presence of bidders or their representatives having valid authority letter from their respective organization who opts to be present. Bids which are incomplete, unsigned & unstamped on bid form, unsealed, without bid security and late by specified time shall not be considered. In case of official holiday on the day of submission, next day will be treated as closing date. Bid Validity is 120 days. The University Management may reject all bids at any time prior to acceptance of a bid, as provided under Rule-35 of Punjab Procurement Rules-2014.

Contact Details:

Muhammad Azam Ilyas (Secretary Central Purchase Committee)
University of Narowal, New Campus, Shakargarh Road, Narowal, Pakistan.
Email: azam.ilyas@uon.edu.pk Tell: 0542-920050

Section-II: Instructions to Bidders (ITB)

Note: - All the procurement procedures shall be conducted in accordance with Punjab Procurement Authority Act-2009 and Punjab Procurement Rules-2014. In case of any conflict between the provision of this document and PPRA Act-2009/ PPRA Rules-2014, the later shall prevail.

2.1. Introduction

2.1.1 Scope of Bid

- i) The Procuring Agency (PA), as indicated in the Bid Data Sheet (BDS) invites Bids for the provision of Goods as specified in the Section-IV Bid Data Sheet (BDS) and Section III - Technical Specifications & Section VII- Schedule of Requirements. The successful Bidders will be expected to deliver, install/ commissioning) the goods within the specified period and timeline(s) as stated in the BDS.

2.1.2 Source of Funds

- i) The Procuring Agency named in the Bid Data Sheet has received budget from the Government of Punjab. The Procuring Agency intends to apply the provided funds/ a portion of this budget to make eligible payments under the contract for which the Invitation to bids has been issued.

2.1.3 Eligible Bidders

- i) The Invitation to Bids is open to all suppliers i.e. association of firms/companies/sole proprietor/ general order suppliers registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax & Punjab Sales Tax etc.), except as provided hereinafter.
- ii) Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Procuring Agency to provide consultancy services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation to Bids [if applicable].
- iii) Government-owned enterprises may participate only if they are duly/legally authorized in this regard by the respective/relevant competent forum/authority.
- iv) Bidders shall not be under a declaration of blacklisting by the Procuring Agency.

- v) In the case of a Joint Venture, Consortium, or Association, all members shall be jointly and severally liable for the execution of the Contract in accordance with the terms and conditions of the Contract. The Joint Venture, Consortium, or Association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture, consortium, or association during the Bidding process, and in case of award of contract, during the execution of contract.
- vi) The appointment of Lead Member in the Joint Venture, Consortium, or Association shall be confirmed by submission of a valid JV or Consortium agreement to the Procuring Agency.
- vii) Any agreement that form a Joint Venture, Consortium or Association shall be required to be submitted as part of the Bid and shall be attested.
- viii) Any bid submitted by the Joint Venture, Consortium or Association shall indicate the part of proposed contract to be performed by each party and each party shall be evaluated or post qualified with respect to its contribution only and the responsibilities of each party and shall not be substantially altered without prior written approval of the Procuring Agency and in line with any instructions issued by the Authority.
- ix) The invitation for Bids is open to all prospective Supplier, Manufacturers or Authorized Agents/Dealers/Distributors subject to any provisions or licensing/regulatory requirements issued by the respective National/ Provincial Professional Statutory Body established for that particular trade or business as mentioned in bid data sheet.
- x) A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be Non-Responsive. A Bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if they:
 - a) Are associated or have been associated for the procurement of the goods to be purchased under this Invitation for Bids, directly or indirectly with a firm or any of its affiliates which have been engaged by the

Procuring Agency to provide consulting services for the preparation of the design, specifications and other documents to be used.

- b) Have controlling shareholders in common; or
- c) Receive or have received any direct or indirect subsidy from any of them; or
- d) Have the same legal representative for purposes of this Bid; or
- e) Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the Procuring Agency regarding this Bidding process; or

xii) A Bidder may be ineligible if –

- (a) The Bidder is declared bankrupt or, in the case of company or firm, insolvent;
- (b) Payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting, in accordance with the national laws, in the total or partial loss of the right to administer and dispose of its property;
- (c) Legal proceedings are established against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property;
- (d) The Bidder is convicted, by a final judgment, of any offence involving professional conduct;
- (e) The Bidder is debarred and blacklisted due to involvement in corrupt and fraudulent practices in accordance with the provision of section 17A of PPRA

Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.

(f) The Bidder is debarred and blacklisted in general (i.e. to the extent of all public procurement) due to consistent performance failure in accordance with the section 17A of PPRA Act, 2009 and Rule-21, read with Schedule appended with, Punjab Procurement Rules, 2014.

(g) The firm, supplier and contractor is blacklisted/debarred by any international organization.

xiii) Bidders shall provide to the Procuring Agency evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.

xiv) Bidders shall provide such evidence of their continued eligibility satisfactory to the Procuring Agency, as the Procuring Agency shall reasonably request.

xv) Bidders shall submit proposals relating to the nature, conditions and modalities of sub-contracting wherever the sub-contracting of any elements of the contract amounting to more than ten percent of the Bid price is envisaged.

2.1.4. Eligible Goods and Services

i) All goods and related services to be supplied under the Contract shall have their origin in eligible source countries, defined in the *Bid Data Sheet (BDS/Technical Specification)*, and all expenditures made under the contract will be limited to such goods and related services.

ii) For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially-recognized product is obtained that is substantially different in basic characteristics or in purpose or utility from its components.

iii) The origin of goods and services is distinct from the nationality of the Bidder. *In any case, the requirements of Rules 10 & 26 of PPR-14, shall be followed.*

2.1.5. Cost of

i) The Bidder shall bear all costs associated with the preparation

Bidding

and submission of its Bid, and the Procuring Agency named in the Bid Data Sheet, hereinafter referred to as “the Procuring Agency,” will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

2.1.6. One person one bid

- i) As per Rule 36A of Punjab Procurement Rules 2014, a Bidder shall submit only one Bid in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.
- ii) No Bidder can be a sub-contractor while submitting a Bid individually or as a member of a joint venture in the same Bidding process.
- iii) A Bidder, if acting in the capacity of sub-contractor in any Bid, shall not submit bid for the same.

2.2. The Bidding Documents

2.2.1. Content of Bidding Documents

- i) The goods required, Bidding procedures, and contract terms are prescribed in the Bidding documents. The Bidding documents, inter alia, include:
 - (a) Invitation to Bids
 - (b) Instructions to Bidders (ITB)
 - (c) Technical Specifications
 - (d) Bid Data Sheet
 - (e) General Conditions of Contract (GCC)
 - (f) Special Conditions of Contract (SCC) Where Applicable
 - (g) Schedule of Requirements
 - (h) Bid Form
 - (i) Manufacturer’s Authorization Form
 - (j) Bidder Profile Form
 - (k) General Information Form

- (l) Affidavit
- (m) Bid Security Form
- (n) Technical Bid Form
- (o) Contract Form
- (p) Financial Bid Form / Price Schedule
- (q) Performance Guarantee Form
- (r) Check List

- ii) The Bidder is required to examine all instructions, forms, terms, and specifications in the Bidding documents. Failure to furnish all information as required by the Bidding documents or to submit a Bid not responsive to the Bidding documents in every respect will be at the Bidder's risk and may result in the rejection of its Bid.
- iii) In case of discrepancies between the Invitation to Bid and the Bidding Documents listed in **ITB 2.2.1 (i)** above, the said Bidding Documents, not in conflict with any provision of PPR-14, will take precedence.
- iv) The Procuring Agency is not responsible for the completeness of the Bidding Documents and their addenda, if they were not obtained directly from the Procuring Agency or from its website or website of PPRA. Re-confirming from the Procuring Agency that all pages/ contents have been properly and clearly received is the prime responsibility of the Bidder.

**2.2.2. Clarification
of Bidding
Documents**

- i) A prospective Bidder requiring any clarification of the Bidding documents may notify the Procuring Agency in writing or by email at the Procuring Agency's address indicated in Invitation to Bid/ Tender Notice/ Advertisement. The Procuring Agency will respond in writing to any request for clarification of the Bidding documents which it receives no later than seven (7) days prior to the deadline for the submission of Bids prescribed in the Bid Data Sheet. Written copies of the Procuring Agency's response (including an explanation of the query but without identifying) will be sent to all prospective Bidders that have received the Bidding

documents.

- ii) A prospective Bidder requiring any clarification of the Bidding Documents may notify the Procuring Agency in writing or in electronic form that provides record of the content of communication at the Procuring Agency's address indicated in the **BDS**.
- iii) The Procuring Agency will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is received not later than seven (7) days prior to the deadline for the submission of Bids. As prescribed in **ITB 2.2.2 (i), above**. However, this clause shall not apply in case of alternate methods of Procurement.
- iv) Copies of the Procuring Agency's response will be uploaded on the website of procuring agency on given date and forwarded to identified Prospective Bidders through an expeditious identified source of communication, e.g.: e-mail etc., including a description of the inquiry, but without identifying its source.
- v) Should the Procuring Agency deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under **ITB 2.2.3**.
- vi) If indicated **in the BDS**, the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned **in the BDS**. During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents.
- vii) Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Bidders who have obtained the Bidding Documents and by uploading same on the website of the procuring agency. Any modification to the Bidding Documents that may become necessary as a result of the pre-Bid meeting shall be made by the Procuring Agency exclusively through the use of an

Addendum pursuant to ITB 2.2.3. Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

2.2.3. Amendment of Bidding Documents

- i) At any time prior to the deadline for submission of Bids, but not later than three (3) days before the closing date of the submission of Bid, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding documents by amendment. Any such change/amendment in the Bidding documents shall be provided in a timely manner, preferably through electronic means also, not later than three (3) days, and on equal opportunity basis as per Rule-25(3) OR Rule 25(4) of PPR-14 as the case may be.
- ii) In order to allow prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Procuring Agency, at its discretion, may extend the deadline for the submission of Bids, as per rule 29 of PPR-14, in the manner similar to the original advertisements, so as to avoid any inconvenience and to doubly ensure level playing field for all prospective bidders.

2.3. Preparation of Bids

2.3.1. Language of Bid

- i) The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Procuring Agency shall be written in the language specified in the Bid Data Sheet. Supporting documents and printed literature furnished by the Bidder may be in same language.

2.3.2. Bid Form

- i) The Bidder shall complete the Bid Form and the appropriate Price Schedule (Financial Bid) furnished in the Bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity, and prices.

2.3.3. Bid Prices

- i) The Bidder shall indicate on form 7.9 the unit prices (where applicable) and total Bid price of the goods it proposes to supply under the contract.

- ii) Prices indicated on the Price Schedule shall be package wise/

for a complete lot(s).

- iii) The Bidder's separation of price components in accordance with ITB Clause 2.3.3(ii) above will be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency and will not in any way limit the Procuring Agency's right to contract on any of the terms offered.
- iv) Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account, unless otherwise specified in the Bid Data Sheet. A Bid submitted with an **adjustable price quotation** will be treated as non-responsive and may be rejected.

2.3.4. Bid Currencies

- i) Prices shall be quoted in **Pak Rupees** for local/DDP items unless otherwise specified in the Bid Data Sheet.

2.3.5. Documents Establishing Bidder's Eligibility and Qualification

- i) Pursuant to ITB Clause 2.1.3, the Bidder shall furnish, as part of its Bid, documents establishing the Bidder's eligibility to Bid and its qualifications to perform the contract if its Bid is accepted.
- ii) The documentary evidence of the Bidder's eligibility to Bid shall establish to the Procuring Agency's satisfaction that the Bidder, at the time of submission of its Bid, is eligible as defined under ITB Clause 2.1.3.
- iii) The documentary evidence, of the Bidder's qualifications to perform the contract if its Bid is accepted, shall establish to the Procuring Agency's satisfaction:
 - (a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Manufacturer [*Manufacturer's Authorization form No. 7.2*] or producer to supply the same in Pakistan;
 - (b) that the Bidder has the financial, technical, and production capability necessary to perform the contract;
 - (c) that, in the case of a Bidder not doing business within Pakistan, the Bidder is or will be (if awarded the contract) represented by an Agent in that country equipped, and able to carry out the Supplier's maintenance, repair, and spare parts-stocking obligations prescribed in the

Conditions of Contract and/or Technical Specifications;
and

(d) that the Bidder meets the qualification criteria listed in the Bid Data Sheet.

**2.3.6. Documents
Establishing Goods'
Eligibility and
Conformity to
Bidding Documents**

- i) Pursuant to ITB Clause 2.1.4, the Bidder shall furnish, as part of its Bid, documents establishing the eligibility and conformity to the Bidding documents of all goods and related services which the Bidder proposes to supply under the contract.
- ii) The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule/Financial Bid Form of the country of origin of the goods and services offered which shall be confirmed by a **Certificate of Origin** issued at the time of shipment. (where Applicable)
- iii) The documentary evidence of conformity of the goods and services to the Bidding documents may be in the form of literature, drawings, data and shall consist of:
 - (a) a detailed description of the essential technical and performance characteristics of the goods;
 - (b) a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period to be specified in the Bid Data Sheet, following commencement of the use of the goods by the Procuring Agency; and
 - (c) an item-by-item commentary on the Procuring Agency's Technical Specifications demonstrating **responsiveness** of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- iv) For purposes of the commentary to be furnished, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the Procuring Agency in its Technical Specifications, are intended to be descriptive only and not restrictive.

- v) Where a sample(s) is required by a procuring agency, the sample shall be:
 - (a) submitted as part of the bid, in the quantities, dimensions and other details requested in the **BDS**;
 - (b) carriage paid;
 - (c) received on, or before, the closing time and date for the submission of bids; and
 - (d) Evaluated to determine compliance with all characteristics listed in the **BDS**.

{However, the procuring agency may also opt to ask for samples after submission of technical bids (where require)}
- vi) The Procuring Agency may retain the sample(s) of the successful Bidder till the successful delivery of the goods. A Procuring Agency may reject the Bid if the sample(s)-
 - (a) do(es) not conform to all characteristics prescribed in the bidding documents; and
 - (b) is/are not submitted within the specified time clearly mentioned in the Bid Data Sheet.
- vii) Where it is not possible to avoid using a propriety article as a sample, a Bidder shall make it clear that the propriety article is displayed only as an example of the type or quality of the goods being Bided for, and that competition shall not thereby be limited to the extent of that article only.
- viii) Samples made up from materials supplied by a Procuring Agency shall not be returned to a Bidder nor shall a Procuring Agency be liable for the cost of making them.
- ix) All samples produced from materials belonging to an unsuccessful Bidder may be kept by the Procuring Agency till thirty (30) days from the date of award of contract or exhaust of all the grievance forums (including those pending at Authority's Level or in some Court of Law).
- x) **Pursuant to the requirements as indicated in ITB 2.3.6, the Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and related services which the Bidder proposes to deliver.**
- xi) The Bidder shall also furnish a list giving full particulars,

including available sources and current prices of goods, spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period **specified in the BDS** following commencement of the use of the goods by the Procuring Agency.

- xii) The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation attested by the embassy in country of manufacturer into English shall be attached to the original version.

2.3.7. Bid Security

- i) The Bidder shall furnish, as part of its Bid, a Bid security in the amount specified in the Bid Data Sheet.
- ii) The Bid security is required to protect the Procuring Agency against the risk of Bidder's conduct which would warrant the security's forfeiture Pursuant to ITB Clause 2.3.8. (vii).
- iii) The Bid security shall be in Pakistan Rupees and shall be in one of the following forms:
 - (a) Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque valid for One Twenty Day (120) Days, beyond the validity of Bid.
- iv) Any Bid not secured in accordance with ITB Clauses 2.3.8 (i) and (ii) may be rejected by the Procuring Agency as non-responsive.
- v) Unsuccessful Bidders' Bid security will be discharged or returned as promptly as possible but not later than One Twenty (120) days after the expiration of the period of Bid validity prescribed by the Procuring Agency pursuant to ITB Clause 2.3.8 (ii) or along with unopened financial proposal as per rule 38(2)(a)(vii) of PPR-14, which shall take precedence, and is as under:

***"38(2)(a)(vii)** the financial proposal of the Bids found technically non-responsive shall be retained unopened and shall be returned on the expiry of the grievance period or the decision of the complaint, if any, filed by the non-responsive Bidder, whichever is later:*

provided that the Procuring Agency may return the sealed financial proposal earlier if the disqualified or non-responsive Bidder, contractor or consultant submits an affidavit, through

an authorized representative, to the effect that he is satisfied with the proceedings of the Procuring Agency”.

- vi) The successful Bidder’s Bid security will be discharged upon the Bidder signing the contract, pursuant to ITB Clause 2.6.1, and furnishing the Performance Guarantee, pursuant to ITB Clause 2.6.2.
- vii) The Bid security may be forfeited:
 - a. If a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form; or
 - b. In the case of a successful Bidder, if the Bidder:
 - i. Fails to sign the contract in accordance with ITB Clause 2.6.3; **or**
 - ii. Fails to furnish Performance Guarantee in accordance with ITB Clause 2.6.2; or
 - iii. If the blacklisting proceedings under Section-17A of PPRA Act, 2009 read with Rule-21 of PPR-14 are initiated and the bidder is declared blacklisted after due process of law.

2.3.8. Period of Validity of Bids

- i) Bids shall remain valid for the period specified in the Bid Data Sheet after the date of Bid opening prescribed by the Procuring Agency. A Bid valid for a shorter period may be rejected by the Procuring Agency as non-responsive.
- ii) In exceptional circumstances, the Procuring Agency may solicit the Bidder’s consent to an extension of the period of validity (as per rule-28 of PPR-14). The request and the responses thereto shall be made in writing (or by email). The Bid security provided under ITB Clause 2.3.8 shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security. A Bidder accepting the request will not be required nor permitted to modify its Bid.

2.3.9. Format and Signing of Bid

- i) The Bidder shall prepare an original and the number of copies of the Bid indicated in the Bid Data Sheet, clearly marking each “ORIGINAL BID” and “COPY OF BID,” as appropriate. In the event of any discrepancy between them, the original shall prevail.

- ii) The Bidder shall authorize a person/ persons for signing, submission and further correspondence with Procuring Agency on behalf of bidder. Authority letter must be part of bid. However, in case of any issue bidder shall be responsible for all consequences.
- iii) The original and the copy or copies of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized to bind the Bidder to the contract. All pages of the Bid, shall be signed and stamped by the authorized person.
- iv) Any interlineation, erasures, or overwriting shall be valid only if they are initialed by the authorized person for signing the Bid.
- v) The original and the copy or copies of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the **BDS** and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, shall be signed and stamped by the authorized person.
- vi) Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.
- vii) The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid and to contract execution if the Bidder is awarded the contract.

2.4. Submission of Bids

2.4.1 Sealing and Marking of Bids

- i) As per Rule 24, the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as "ORIGINAL" and "COPY." The envelopes shall then be sealed in an outer envelope.
- ii) The inner and outer envelopes shall:
 - a. be addressed to the Procuring Agency at the address given in the Bid Data Sheet; and

- b. bear the title of procurement Activity indicated in the Bid Data Sheet, the Invitation to Bids (ITB) title and number indicated in the Bid Data Sheet, and a statement: “DO NOT OPEN BEFORE..... (time and date),” *[to be completed with the time and the date specified in the Bid Data Sheet, pursuant to ITB Clause 2.4.2.]*
- iii) The inner envelopes shall also indicate the name and address of the Bidder to enable the Bid to be returned unopened in case it is declared “late”.
- iv) If the outer envelope is not sealed and marked as required by ITB Clause 2.4.1 (i), the Procuring Agency will assume no responsibility for the Bid’s misplacement or premature opening.
- v) In case of Single Stage One Envelope Procedure, the Bidder shall seal the original and each copy of the Bid in separate envelopes, duly marking the envelopes as “ORIGINAL” and “COPY.” The envelopes shall then be sealed in an outer envelope securely sealed in such a manner that opening and resealing cannot be achieved undetected.
Note: The envelopes shall be sealed and marked in accordance with the bidding procedure adopted as referred in Rule-38 of PPR-2014, which shall have precedence.
- vi) The inner and outer envelopes shall:
 - a) Be addressed to the Procuring Agency at the address given in the **BDS**; and
 - b) Bear the title of the subject procurement or Project name, as the case may be as indicated in the **BDS**, the Invitation to Bids (ITB) title and number indicated in the **BDS**, and a statement: “DO NOT OPEN BEFORE,” to be completed with the time and the date specified in the **BDS**, pursuant to **ITB 2.4.2.**
- vii) In case of Single Stage Two Envelope Procedure, The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Proposal and the other Financial Proposal. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each Bidder shall submit his bid as under:
 - a) Bidder shall submit his **TECHNICAL PROPOSAL** and

FINANCIAL PROPOSAL in separate inner envelopes and enclosed in a single outer envelope.

- b) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
- (c) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in BDS.

viii) The inner and outer envelopes shall:

- a) be addressed to the Procuring Agency at the address provided in the BDS;
- b) bear the name and identification number of the contract as defined in the BDS; and provide a warning not to open before the time and date for bid opening, as specified in the BDS, pursuant to ITB 2.4.2;
- c) In addition to the identification required in Sub- Clause (b) hereof, the inner envelope shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to ITB.2.4.3.

ix) If all envelopes are not sealed and marked as required by **ITB 2.4.1** or incorrectly marked, the Procuring Agency will assume no responsibility for the misplacement or premature opening of Bid.

2.4.2 Deadline for Submission of Bids

- i) Bids must be received by the Procuring Agency at the address specified under BDS no later than the time and date specified in the Bid Data Sheet. **Bids received through courier services shall not be entertained.**
- ii) The Procuring Agency may, at its discretion and as per rule 29 of PPR-14, extend this deadline for the submission of Bids by amending the Bidding documents in accordance with ITB Clause 2.2.2 & 2.2.3 in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- iii) Bids shall be received by the Procuring Agency at the address specified under **BDS** no later than the date and time specified in the **BDS**.

2.4.3. Late Bids

- i) Any Bid received by the Procuring Agency after the deadline for submission of Bids prescribed by the Procuring Agency pursuant to ITB Clause 2.4.2 will be rejected and returned unopened to the Bidder.
- ii) The Procuring Agency shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids.
- iii) Any Bid received by the Procuring Agency after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.

2.4.4. Modification and Withdrawal of Bids

- i) The Bidder may modify or withdraw its Bid after the Bid's submission, provided that written notice of the modification, including substitution or withdrawal of the Bids, is received by the Procuring Agency prior to the deadline prescribed for submission of Bids.
- ii) The Bidder's modification or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of Clause (i) A withdrawal notice may also be sent by email, but followed by a signed confirmation copy, postmarked not later than the deadline for submission of Bids.
- iii) No Bid may be modified after the deadline for submission of Bids.
- iv) No Bid may be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Bid Form. Withdrawal of a Bid during this interval may result in the Bidder's forfeiture of its Bid security (along with other remedies available under PPR-14), pursuant to the ITB Clause 2.3.8 (vii).
- v) A Bidder may withdraw its Bid after it has been submitted, provided that written notice of the withdrawal of the Bid, is received by the Procuring Agency prior to the deadline for submission of Bids.
- vi) Revised bid may be submitted after the withdrawal of the original bid before the deadline for submission of Bids.

2.5. Opening and Evaluation of Bids

**2.5.1. Opening of
Bids by the
Procuring Agency**

- i) The Procuring Agency will open all Bids, in public, in the presence of Bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the Bid proceedings at the place, on the date and at the time, specified in the **BDS**. The Bidders' representatives present shall sign a register/attendance sheet as proof of their attendance.
- ii) First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out at bid opening.
- iii) Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Bid shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the Bidder unopened. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
- iv) Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Proposal and/or Financial Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the Bids. Any Modification shall be read out along with the Original Bid except in case of Single Stage Two Envelope Procedure where only the Technical Proposal, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Proposal, both Original and Modification, will remain unopened till the prescribed financial bid opening date.
- v) Other envelopes holding the Bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the Bidders names, the Bid prices, the total amount of each Bid, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the Procuring Agency may consider appropriate, will be announced by the Procurement Evaluation Committee.

- vi) In case of Single Stage Two Envelope Procedure, the Procuring Agency will open the Technical Proposals in public at the address, date and time specified in the **BDS** in the presence of Bidders' designated representatives who choose to attend and other parties with a legitimate interest in the Bid proceedings. The Financial Proposals will remain unopened and will be held in custody of the Procuring Agency until the specified time of their opening.
- vii) The envelopes holding the Technical Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) the presence of a Bid Security, if required; and (c) Any other details as the Procuring Agency may consider appropriate.
- viii) Bidders are advised to send in a representative with the knowledge of the content of the Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the Procuring Agency against any claim or failure to read out the correct information contained in the Bidder's Bid.
- ix) No Bid will be rejected at the time of Bid opening except for late Bids which will be returned unopened to the Bidder, pursuant to **2.4.3 (i)**.
- x) The Procuring Agency shall prepare minutes of the Bid opening. The record of the Bid opening shall include, as a minimum: the name of the Bidder and whether or not there is a withdrawal, substitution or modification, the Bid price if applicable.
- xi) The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record.
- xii) Minutes of the Financial Bid Opening shall be recorded and uploaded by the procuring agency on its website or shared to all bidders through e-mail.

2.5.2.

- i) Information relating to the examination, clarification,

Confidentiality

evaluation and comparison of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report in accordance with the requirements of rule 37 of PPR-14.

- ii) Any effort by a Bidder to influence the Procuring Agency processing of Bids or award decisions may result in the rejection of its Bid.
- iii) Notwithstanding **ITB Clause 2.2.2** from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the Procuring Agency on any matter related to the Bidding process, it should do so in writing or in electronic forms that provides record of the content of communication.

2.5.3. Clarification of Bids

- i) As per rule 33(2) of PPR-14, to assist in the examination, evaluation and comparison of Bids and post-qualification of the Bidders, the Procuring Agency may, at its discretion, ask any Bidder for a clarification of its Bid including breakdown of prices to determine its reasonability. Any clarification submitted by a Bidder that is not in response to a request by the Procuring Agency shall not be considered.
- ii) The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. In case of Single Stage Two Envelope Procedure, no change in the prices or substance of the Bid shall be sought, offered, or permitted. Whereas in case of Single Stage One Envelope Procedure, only the correction of arithmetic errors discovered by the Procuring Agency in the evaluation of Bids should be sought in accordance with ITB Clause 2.5.6.
- iii) The alteration or modification in The Bid which in any way affect the following parameters will be considered as a change in the substance of a bid:
 - a) Evaluation & qualification criteria;
 - b) Required scope of work or specifications;
 - c) All securities requirements;
 - d) Tax requirements;
 - e) Terms and conditions of bidding documents.

f) Change in the ranking of the Bidder

iv) From the time of Bid opening to the time of Contract award if any Bidder wishes to contact the Procuring Agency on any matter related to the Bid it should do so in writing or in electronic forms that provide record of the content of communication.

2.5.4. Preliminary Examination

i) The Procuring Agency will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the Bids are generally in order.

ii) Arithmetical errors will be rectified on the following basis:-
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. If the Supplier does not accept the correction of the errors, its Bid may be rejected, and its Bid security may be forfeited.

b. If there is a discrepancy between words and figures, the amount in words will prevail.

iii) Prior to the detailed evaluation, the Procuring Agency will determine the responsiveness of each Bid to the Bidding documents, pursuant to ITB Clause 2.5.5. For purposes of these Clauses, a responsive Bid is one which conforms to all the terms and conditions of the Bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, **such as** those concerning **Bid Security** (ITB Clause 2.3.8), **Applicable Law** (GCC Clause 30), **Taxes and Duties** (GCC Clause 32) & mandatory Registrations/ Renewals will be deemed to be a material deviation. The Procuring Agency's determination of a Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.

iv) If a Bid is not responsive, it will be rejected by the Procuring Agency and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

v) Prior to the detailed evaluation of Bids, the Procuring Agency

will determine whether each Bid:

- a) Meets the eligibility criteria defined in **ITB 2.1.3** and **ITB 2.1.4**;
- b) Has been prepared as per the format and contents defined by the Procuring Agency in the Bidding Documents;
- c) Has been properly signed;
- d) Is accompanied by the required securities; and
- e) Is responsive to the requirements of the Bidding Documents.

The Procuring Agency's determination of a Bid's responsiveness will be based on the contents of the Bid itself.

2.5.5. Examination of Terms and Conditions; Technical Evaluation

- i) The Procuring Agency shall examine the Bid to confirm that all terms and conditions specified in the **GCC** and the **SCC** have been accepted by the Bidder without any material deviation or reservation.
- ii) The Procuring Agency shall evaluate the technical aspects of the Bid submitted to confirm that all requirements specified in **Section III-Technical Specifications, Section VII – Schedule of Requirements & Evaluation Criteria as provided in BDS**, have been met without material deviation or reservation.
- iii) If after the examination of the terms and conditions and the technical evaluation, the Procuring Agency determines that the Bid is not responsive in accordance, it shall reject the Bid.

2.5.6. Correction of Errors

- i) Bids determined to be substantially responsive will be checked for any arithmetic errors. Errors will be corrected as follows: -
 - a) If there is a discrepancy between unit prices 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 Agency there is an obvious misplacement of the decimal point in the unit price, in which 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 sub-totals, the sub-totals shall prevail and the total shall be corrected; and
 - c) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern.

d) Where there is discrepancy between grand total of price schedule and amount mentioned on the Form of Bid, the amount referred in Price Schedule shall be treated as correct subject to elimination of other errors.

ii) The amount stated in the Bid will, be adjusted by the Procuring Agency in accordance with the above procedure for the correction of errors. The concurrence of the Bidder shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, its Bid will then be rejected, and the Bid Security may be forfeited or the Bid Securing Declaration may be executed in accordance with **ITB 2.3.8.**

2.5.7. Conversion to Single Currency

i) As per rule 32(2) of PPR-14, to facilitate evaluation and comparison, the Procuring Agency will convert all Bid prices expressed in the amounts in various currencies in which the Bid prices as follows:

For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day, in case of holiday in State Bank of Pakistan on the day of opening financial bids, then previous working day's ex-change rates will prevail.

2.5.8. Post-Qualification & Evaluation of Bids

i) In the absence of **prequalification**, the Procuring Agency will determine to its satisfaction whether the Bidder is qualified to perform the contract satisfactorily, in accordance with the evaluation criteria listed in BDS & pursuant to ITB Clause 2.1.3.

ii) The determination will take into account the Bidder's financial, technical, and production/ supplying capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 2.3.6, as well as such other information required for eligibility/qualification expressed in Bid Data Sheet as the Procuring Agency deems necessary and appropriate.

iii) The Procuring Agency will **technically evaluate** and compare

the Bids which have been determined to be responsive, pursuant to ITB Clause 2.5.5, as per Technical Specifications required.

- iv) The **financial evaluation** of a Bid will be on the basis of form of Price Schedules/ Financial Bid Form 7.9 to be decided by the Procuring Agency which must include clear cut instruction regarding item wise or package wise evaluation inclusive of prevailing taxes, duties, fees etc.

**2.5.9. Contacting
the Procuring
Agency**

- i) Subject to ITB Clause 2.5.3, no Bidder shall contact the Procuring Agency on any matter relating to its Bid, from the time of the Bid opening to the time the evaluation report is made public i.e. 10 days before the contract is awarded. If the Bidder wishes to bring additional information or has grievance to the notice of the Procuring Agency, it should do so in writing.
- ii) Any effort by a Bidder to influence the Procuring Agency during Bid evaluation, or Bid comparison may result in the rejection of the Bidder's Bid.

**2.5.10. Grievance
Redressal**

- i) As per Rule-67 of PPR-14, Procuring Agency shall constitute a Grievance Redressed Committee (GRC) comprising of odd number of persons with proper powers and authorization to address the complaints. The GRC shall not have any of the members of the Procurement Evaluation Committee. The Committee may preferably have one subject specialist depending upon the nature of the procurement in addition to one person with legal background as per their availability to the Procuring Agency.
- ii) Any Bidder feeling aggrieved can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the Bidding documents found contrary to provision of Rule 33, and the same shall be addressed by the Procuring Agency well before the proposal submission deadline.
- iii) Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in

the bidding documents found contrary to provision of Rule 34 and the same shall be addressed by the Procuring Agency well before the proposal submission deadline.

- iv) Any Bidder feeling aggrieved by any act of the Procuring Agency after the submission of his Bid may lodge a written complaint concerning his grievances not later than ten days after the announcement of the Final evaluation reports. In case of single stage - two envelope bidding procedure any bidder feeling aggrieved from technical evaluation may file a grievance within 5 days of announcement of the technical evaluation report. After completion of the technical evaluation process, the procuring agency shall immediately upload the technical evaluation report on the website of PPRA and Procuring Agency for obtaining/ receiving grievance petitions from the prospective bidders (if any).
- v) In case, the complaint/grievance is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report. Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage one envelop bidding procedure is adopted.
- vi) The GRC shall investigate and decide upon the complaint within fifteen days of the receipt of the complaint. Mere fact of lodging of a complaint shall not warrant suspension of the procurement process.

2.6. Award of Contract

2.6.1. Notification of Award

- i) Prior to the expiration of the period of Bid validity, the Procuring Agency will notify the successful Bidder in writing by registered letter and by email to be confirmed in writing by registered letter, that its Bid has been accepted.
- ii) The notification of award will constitute the formation of the Contract.
- iii) Upon the successful Bidder's furnishing of the Performance Guarantee pursuant to ITB Clause 2.6.2 (i), the Procuring Agency will promptly notify each unsuccessful Bidder and will discharge its Bid security, pursuant to ITB Clause 2.3.8 (v).

2.6.2. Performance Guarantee

- i) Within fifteen (15) *[to be decided by the procuring agency]* days of the receipt of notification of award from the Procuring Agency, the successful Bidder shall furnish the Performance Guarantee in accordance with the Conditions of Contract, in the Performance Guarantee Form provided in the Bidding documents, or in another form acceptable to the Procuring Agency.
- ii) Failure of the successful Bidder to comply with the requirement of ITB Clause (i) above or ITB Clause 2.6.3 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid security along with other remedies available under PPR-14. After that, the Procuring Agency may decide to award the contract to the next lowest evaluated Bidder, keeping in view the Bid validity time, or call for new Bids keeping in view the concept of value for money as defined under rule-2(ae) read with Principles of Procurement as enunciated in rule-4 of PPR-14.

2.6.3. Signing of Contract/ Issuance of Purchase Order

- i) At the same time as the Procuring Agency notifies the successful Bidder that its Bid has been accepted, the Procuring Agency will send the Bidder the Contract Form provided in the Bidding documents, incorporating all agreements between the parties or will issue the purchase order *[as the case may be]*.
- ii) Under rule-63 of PPR-14, where the Procuring Agency requires formal signing of contract, within seven (07) days of receipt of the Contract Form, the successful Bidder shall sign and mention date of the contract and return it to the Procuring Agency.
- iii) Where no such formal signing is required by the procuring agency, the procuring agency shall issue purchase order after the receipt of required performance guarantee, as per rule 55 of PPR-14.

2.6.4. Award Criteria

- i) Subject to ITB Clause 2.6.2, under rule-55 of PPR-14, the Procuring Agency will award the contract to the successful Bidder whose Bid has been determined to be responsive and has been determined to be the lowest evaluated Bid, provided that the Bidder has been determined to be qualified

to perform the contract satisfactorily.

2.6.5. Procuring Agency's Right to Vary Quantities at Time of Award

- i) The Procuring Agency reserves the right at the time of contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions, on the analogy of rule-59 (c)(iv) of PPR-14 (not more than 15%).

2.6.6. Procuring Agency's Right to Accept or Reject All Bids

- i) As per rule 35 of PPR-14, the Procuring Agency reserves the right to accept or reject all Bids or proposals (and to annul the Bidding process) at any time prior to the acceptance of any Bid or proposal, without thereby incurring any liability towards the Bidders.
- ii) The Bidders shall be promptly informed about the rejection of the Bids, if any
- iii) The Procuring Agency shall upon request communicate to any Bidder, the grounds for its rejection of all Bids or proposals, but shall not be required to justify those grounds.

2.6.7. Re-Bidding

- i) If the Procuring Agency rejects all the Bids under rule 35, it may proceed with the process of fresh Bidding but before doing that it shall assess the reasons for rejection and may, if necessary, revise specifications, evaluation criteria or any other condition for Bidders.

2.6.8. Corrupt or Fraudulent Practices

- i) The Procuring Agency Bidders, Suppliers, and Contractors observe the highest standard of ethics during the procurement and execution of contracts.

“Corrupt practices” in respect of procurement process, shall be as given in S-2 (d) of PPRA, Act, 2009, which is as follows:

“(d) “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty; it may include any of the following:

- i. *Coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;*
- ii. *Collusive practice by arrangement between two or more parties to the procurement process or Contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;*
- iii. *Offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;*
- iv. *Any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;*
- v. *Obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators*

in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit process.”

ii) Blacklisting & Debarment:

Blacklisted Bidders i.e. firms/companies/sole proprietor/ general order suppliers/ JVs etc. and those found involved in “Corrupt Practices” are not allowed to participate in bidding.

Requirements & Procedure for Blacklisting & Debarment:

As per S-17A of PPRA, Act, 2009:

“17A. Blacklisting. – (1) *A procuring agency may, for a specified period and in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor indulges in corrupt practice or any other prescribed practice.*

(2) *The Managing Director may, in the prescribed manner, debar a bidder or Contractor from participating in any public procurement process of all or some of the procuring agencies for a specified period.*

(3) *Any person, aggrieved from a decision of a procuring agency, may within prescribed period prefer a representation before the Managing Director.*

(4) *A procuring agency or any other person, aggrieved from a decision of the Managing Director, may within prescribed period prefer a representation before the Chairperson whose decision on such representation shall be final.]*

As per rule 21 of PPR-14:

21. Blacklisting. –(1) *A procuring agency may, for a specified period, debar a bidder or Contractor from participating in any public procurement process of the procuring agency, if the bidder or Contractor has:*

(a) *acted in a manner detrimental to the public*

interest or good practices;

(b) consistently failed to perform his obligation under the Contract;

(c) not performed the Contract up to the mark; or

(d) indulged in any corrupt practice.

(2) If a procuring agency debars a bidder or Contractor under sub-rule (1), the procuring agency:

(a) shall forward the decision to the Authority for publication on the website of the Authority; and

(b) may request the Authority to debar the bidder or Contractor for procurement of all procuring agencies.

(3) The Managing Director may debar a bidder or Contractor of any procuring agency from participating in any public procurement process of all or some of the procuring agencies for such period as the Managing Director may determine.

(4) Any person aggrieved by a declaration made under rule 20 or a decision under sub-rule (1) of this rule may, within thirty days from the date of the publication of the information on the website of the Authority, file a representation before the Managing Director and the Managing Director may pass such order on the representation as he may deem fit.

(5) Any person or procuring agency aggrieved by an order under sub-rule (3) or (4) may, within thirty days of the order, file a representation before the Chairperson and the Chairperson may pass such order on the representation as he may deem appropriate.

(6) The mechanism or process for barring a bidder or Contractor from participating in procurement process of a procuring agency, procuring agencies and a representation under this rule is specified in the Schedule appended to these rules.

As per Schedule appended with PPR-14:

SCHEDULE

see sub-rule (6) of rule 21

BLACKLISTING MECHANISM OR PROCESS

1. *The procuring agency may, on information received from any resource, issue show cause notice to a bidder or Contractor.*
2. *The show cause notice shall contain:*
 - (a) precise allegation, against the bidder or Contractor;*
 - (b) the maximum period for which the procuring agency proposes to debar the bidder or Contractor from*

participating in any public procurement of the procuring agency; and

(c) the statement, if needed, about the intention of the procuring agency to make a request to the Authority for debarring the bidder or Contractor from participating in public procurements of all the procuring agencies.

- 3. The procuring agency shall give minimum of seven days to the bidder or Contractor for submission of written reply of the show cause notice.*
- 4. In case, the bidder or Contractor fails to submit written reply within the requisite time, the procuring agency may issue notice for personal hearing to the bidder or Contractor/ authorize representative of the bidder or Contractor and the procuring agency shall decide the matter on the basis of available record and personal hearing, if availed.*
- 5. In case the bidder or Contractor submits written reply of the show cause notice, the procuring agency may decide to file the matter or direct issuance of a notice to the bidder or Contractor for personal hearing.*
- 6. The procuring agency shall give minimum of seven days to the bidder or Contractor for appearance before the specified officer of the procuring agency for personal hearing.*
- 7. The procuring agency shall decide the matter on the basis of the available record and personal hearing of the bidder or Contractor, if availed.*
- 8. The procuring agency shall decide the matter within fifteen days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the period of personal hearing shall be reckoned from the last date of personal hearing.*
- 9. The procuring agency shall communicate to the bidder or Contractor the order of debarring the bidder or Contractor from participating in any public procurement with a statement that the bidder or Contractor may, within thirty days, prefer a representation against the order before the Managing Director of the Authority.*
- 10. The procuring agency shall, as soon as possible, communicate the order of blacklisting to the Authority with the request to upload the information on its website.*
- 11. If the procuring agency wants the Authority to debar the*

bidder or Contractor from participating in any public procurement of all procuring agencies, the procuring agency shall specify reasons for such dispensation.

12. *The Authority shall immediately publish the information and decision of blacklisting on its website.*
13. *In case of request of a procuring agency under para 11 or representation of any aggrieved person under rule 21, the Managing Director shall issue a notice for personal hearing to the parties and call for record of proceedings of blacklisting. The parties may file written statements and documents in support of their contentions.*
14. *In case of representation of any aggrieved person or procuring agency under rule 21, the Chairperson shall issue a notice for personal hearing to the parties and may call for the record of the proceedings. The parties may file written statements and documents in support of their contentions.*
15. *In every order of blacklisting under rule 21, the procuring agency shall record reasons of blacklisting and also reasons for short, long or medium period of blacklisting.*
16. *The Authority shall upload all the decisions under rule 21, available with it, on its website. But the name of a bidder or Contractor shall immediately be removed from the list of blacklisted persons on expiry of period of blacklisting or order of the competent authority to that effect, whichever is earlier.*
17. *An effort shall be made for electronic communication of all the notices and other documents pursuant to this mechanism or process."*

- iii) Furthermore, Bidders must keep themselves aware of the provision stated in clause 5.4 and clause 24.1 of the General Conditions of Contract.

2.6.9. Quantity and volume of the goods to be considered in mind
[Framework Contract Modality]

- i) While quoting the rate in a framework contract, the Bidder must consider the following facts:
 - a. Certain volume and quantity of the goods as prescribed in Bid Data Sheet.
 - b. The Bidder have to maintain the rates of the goods for the whole financial year.
 - c. The Bidder should quote the rate as per Price Schedule/ Financial Bid form. In case of non-observance of prescribed format, Financial Bid may be rejected.

Section-III. Technical Specifications

3.1. Technical Specifications

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Sr No	Item Name	Make	Cas No.	Qty	Unit
1	1,10-Phenanthroline,Indicator,99%	UK/USA/China/Germany or Equivalent	66-71-7	2	5g
2	1,2-Dibromoethane,99%	UK/USA/China/Germany or Equivalent	106-93-4	1	100g
3	1,2-Propanediol,AR,99% Glycol	UK/USA/China/Germany or Equivalent	57-55-6	2	500ml
4	1-Naphthol,AR,99.0%	UK/USA/China/Germany or Equivalent	90-15-3	1	500g
5	1-Naphthylamine,AR,99.0%	UK/USA/China/Germany or Equivalent	134-32-7	1	100g
6	2,2-Diphenyl-1-picrylhydrazyl,96%	UK/USA/China/Germany or Equivalent	1898-66-4	1	100mg
7	2-Methylimidazole,98%	UK/USA/China/Germany or Equivalent	693-98-1	1	500g
8	3,5-Dihydroxytoluene,≥99%(GC)	UK/USA/China/Germany or Equivalent	504-15-4	2	5g
9	3,6-Dithia-1,8-octanediol,97%	UK/USA/China/Germany or Equivalent	5244-34-8	1	25g
10	3-Indoleacetic acid,98%	UK/USA/China/Germany or Equivalent	87-51-4	2	25g
11	3-Methyl-1-butanol,AR,98.5%	UK/USA/China/Germany or Equivalent	123-51-3	2	500ml
12	4-Methyl-2-pentanone,AR,99.0%	UK/USA/China/Germany or Equivalent	108-10-1	2	500ml
13	5,5 ' -Dithio bis-(2-nitrobenzoic acid),98%	UK/USA/China/Germany or Equivalent	69-78-3	1	5g
14	5-Sulfosalicylic acid dihydrate,≥99%	UK/USA/China/Germany or Equivalent	5965-83-3	1	500g
15	8-Hydroxyquinoline,AR,99.0%	UK/USA/China/Germany or Equivalent	148-24-3	2	100g
16	Acetamide,AR,99%	UK/USA/China/Germany or Equivalent	60-35-5	1	1kg
17	Acetic Acid	UK/USA/China/Germany or Equivalent	64-19-7	3	2.5Ltr
18	Acetone	UK/USA/China/Germany or Equivalent	67-64-1	4	2.5Ltr

19	Acetonitrile,AR,99.0%	UK/USA/China/Germany or Equivalent	75-05-8	2	500ml
20	Acrylamide,AR,99.0%	UK/USA/China/Germany or Equivalent	79-06-1	1	500g
21	Activated charcoal, 200 mesh, powder, brown	UK/USA/China/Germany or Equivalent	7440-44-0	2	500g
22	Agar,BR	UK/USA/China/Germany or Equivalent	9200-18-0	1	kg
23	Alcohol	UK/USA/China/Germany or Equivalent	64-17-5	3	2.5Ltr
24	Aluminium hydroxide,AR	UK/USA/China/Germany or Equivalent	21645-51-2	2	500g
25	Aluminum ammonium sulfate,AR,99.5%	UK/USA/China/Germany or Equivalent	7784-26-1	2	500g
26	Aluminum nitrate nonahydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	7784-27-2	2	500g
27	Aluminum oxide,AR	UK/USA/China/Germany or Equivalent	1344-28-1	2	500g
28	Aluminum potassium sulfate dodechydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	7784-24-9	2	500g
29	Aluminum sulfate hydrate,98	UK/USA/China/Germany or Equivalent	17927-65-0	2	500g
30	Aluminum sulfate hydrate,98%	UK/USA/China/Germany or Equivalent	17927-65-0	2	500g
31	Aluminum,0.1mm,99.99% metals basis	UK/USA/China/Germany or Equivalent	7429-90-5	1	25g
32	Ammonia solution 25% (2.5 L)	UK/USA/China/Germany or Equivalent	1336-21-6	4	2.5L
33	Ammonium acetate,98%	UK/USA/China/Germany or Equivalent	631-61-8	2	500g
34	Ammonium bicarbonate,AR	UK/USA/China/Germany or Equivalent	1066-33-7	2	500g
35	Ammonium bromide,AR,99.0%	UK/USA/China/Germany or Equivalent	12124-97-9	2	500g
36	Ammonium chloride,99.5%	UK/USA/China/Germany or Equivalent	12125-02-9	2	500g
37	Ammonium dichromate ACS reagent, ≥99.5%	UK/USA/China/Germany or Equivalent	.7789-09-05	1	100g
38	Ammonium hydroxide solution,25-28%	UK/USA/China/Germany or Equivalent	336-21-6	2	kg

39	Ammonium iodide,AR,99.0%	UK/USA/China/Germany or Equivalent	12027-06-4	1	100g
40	Ammonium iron sulfate dodecahydrate,ACS	UK/USA/China/Germany or Equivalent	7783-83-7	2	500g
41	Ammonium iron(II) sulfate hexahydrate,AR,99.5	UK/USA/China/Germany or Equivalent	7783-85-9	2	500g
42	Ammonium metavanadate,99% metals basis	UK/USA/China/Germany or Equivalent	7803-55-6	1	25g
43	Ammonium Nitrate	UK/USA/China/Germany or Equivalent	6484-52-2	1	kg
44	Ammonium oxalate monohydrate,AR,99.8%	UK/USA/China/Germany or Equivalent	6009-70-7	2	500g
45	Ammonium persulfate,AR,98.5%	UK/USA/China/Germany or Equivalent	7727-54-0	1	500g
46	Ammonium phosphate dibasic,99%	UK/USA/China/Germany or Equivalent	7783-28-0	2	500g
47	Ammonium sulfate,AR,99%	UK/USA/China/Germany or Equivalent	7783-20-2	3	500g
48	Ammonium sulfide solution,30%-35% in H ₂ O	UK/USA/China/Germany or Equivalent	12135-76-1	1	500ml
49	Ampicillin sodium, biotech grade	UK/USA/China/Germany or Equivalent	69-52-3	1	5g
50	Aniline,≥99.5%	UK/USA/China/Germany or Equivalent	62-53-3	1	500ml
51	Anthrone,AR	UK/USA/China/Germany or Equivalent	90-44-8	1	25g
52	Antimony trichloride,AR,99%	UK/USA/China/Germany or Equivalent	10025-91-9	1	100g
53	Antiserum A	UK/USA/China/Germany or Equivalent	USA or Equivalent	2	Set of 3
54	Asbestos	UK/USA/China/Germany or Equivalent	China or Equivalent	3	1 Sheet
55	Barium carbonate,ACS	UK/USA/China/Germany or Equivalent	513-77-9	1	500g
56	Barium chloride dihydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	10326-27-9	3	500g
57	Barium hydroxide monohydrate,98%	UK/USA/China/Germany or Equivalent	22326-55-2	2	500g
58	Barium sulfate,AR	UK/USA/China/Germany or Equivalent	7727-43-7	2	500g

59	Basic Fuchsin,70%	UK/USA/China/Germany or Equivalent	569-61-9	1	25g
60	Beeswax,AR	UK/USA/China/Germany or Equivalent	8012-89-3	1	250g
61	Benedict's reagent,	UK/USA/China/Germany or Equivalent	63126-89-6	1	50ml
62	Benzaldehyde,AR,>98.5%(GC)	UK/USA/China/Germany or Equivalent	100-52-7	1	500ml
63	Benzamide,99%	UK/USA/China/Germany or Equivalent	55-21-0	1	100g
64	Benzene,AR,≥99.5%	UK/USA/China/Germany or Equivalent	71-43-2	1	500ml
65	Benzoic acid,≥99%	UK/USA/China/Germany or Equivalent	65-85-0	1	1kg
66	Bial reagent	UK/USA/China/Germany or Equivalent	Usa/UK/Italy or Equivalent	1	100ml
67	Bismuth Chloride,AR	UK/USA/China/Germany or Equivalent	7787-60-2	1	500g
68	Bismuth oxide,AR	UK/USA/China/Germany or Equivalent	1304-76-3	1	250g
69	Boiling chips	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	1	100g
70	Boric acid,AR,≥99.5%	UK/USA/China/Germany or Equivalent	10043-35-3	1	500g
71	Brilliant Blue G,AR	UK/USA/China/Germany or Equivalent	6104-58-1	1	25g
72	Bromine water	UK/USA/China/Germany or Equivalent	Sigma	1	1L
73	Bromobenzene,AR,99%	UK/USA/China/Germany or Equivalent	108-86-1	1	500g
74	Bromothymol blue,ACS,Dye content 95 %	UK/USA/China/Germany or Equivalent	76-59-5	2	5g
75	Buffer pH4, pH7, pH10	UK/USA/China/Germany or Equivalent		6	Litre
76	Cadmium carbonate,99.99%	UK/USA/China/Germany or Equivalent	513-78-0	1	100g
77	Cadmium chloride monohydrate,99.95%	UK/USA/China/Germany or Equivalent	35658-65-2	1	100g

78	Cadmium nitrate tetrahydrate,AR,99%	UK/USA/China/Germany or Equivalent	10022-68-1	1	500g
79	Cadmium sulfate,8/3-hydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	7790-84-3	1	500g
80	Cadmium,AR,99.0%	UK/USA/China/Germany or Equivalent	7440-43-9	1	250g

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Sr No	Item Name	Make	Cas No.	Qty	Unit
81	Caesium carbonate,AR,99% metals basis	UK/USA/China/Germany or Equivalent	534-17-8	1	10g
82	Calcium carbide,98%	UK/USA/China/Germany or Equivalent	75-20-7	1	1kg
83	Calcium carbonate,AR,99%	UK/USA/China/Germany or Equivalent	471-34-1	2	500g
84	Calcium chloride anhydrous,96%	UK/USA/China/Germany or Equivalent	10043-52-4	6	500g
85	Calcium chloride dihydrate,AR	UK/USA/China/Germany or Equivalent	10035-04-8	1	500g
86	Calcium chloride hexahydrate,≥97%	UK/USA/China/Germany or Equivalent	7774-34-7	1	250g
87	Calcium hydroxide,AR,95%	UK/USA/China/Germany or Equivalent	1305-62-0	1	500g
88	Calcium oxide,AR,98%	UK/USA/China/Germany or Equivalent	1305-78-8	1	1kg
89	Calcium phosphate monobasic monohydrate,AR 85%	UK/USA/China/Germany or Equivalent	10031-30-8	1	500g
90	Calcium sulfate dihydrate,99%	UK/USA/China/Germany or Equivalent	10101-41-4	1	500g
91	Canada Balsam	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	1	1L
92	Carbon disulfide,AR,99.0%	UK/USA/China/Germany or Equivalent	75-15-0	1	1L
93	Carbon tetrachloride,98%	UK/USA/China/Germany or Equivalent	56-23-5	1	500ml
94	Carbonic acid,AR	UK/USA/China/Germany or Equivalent	463-79-6	1	100g

95	Chlorobenzene,AR,99%	UK/USA/China/Germany or Equivalent	108-90-7	2	500g
96	Chloroform	UK/USA/China/Germany or Equivalent	67-66-3	2	2.5Ltr
97	Chromium chloride hexahydrate,AR	UK/USA/China/Germany or Equivalent	10060-12-5	1	500g
98	Chromium(III) sulfate hydrate,CP	UK/USA/China/Germany or Equivalent	15244-38-9	2	500g
99	Citric acid,≥99.5%(T)	UK/USA/China/Germany or Equivalent	77-92-9	5	kg
100	Cobalt acetate,98%	UK/USA/China/Germany or Equivalent	71-48-7	1	500g
101	Cobalt chloride hexahydrate,AR	UK/USA/China/Germany or Equivalent	7791-13-1	1	500g
102	Cobalt nitrate hexahydrate,AR,99%	UK/USA/China/Germany or Equivalent	10026-22-9	1	500g
103	Cobalt sulfate heptahydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	10026-24-1	1	500g
104	Cobalt(II) carbonate hydrate,AR,Co 43.0 - 47.0 %	UK/USA/China/Germany or Equivalent	57454-67-8	1	250g
105	Cobaltous Nitrate	UK/USA/China/Germany or Equivalent	10026-22-9	1	500g
106	Congo red, indicator grade	UK/USA/China/Germany or Equivalent	573-58-0	1	100g
107	Copper acetate monohydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	6046-93-1	1	500g
108	Copper nitrate hydrate,AR	UK/USA/China/Germany or Equivalent	13778-31-9	1	500g
109	Copper nitrate trihydrate	UK/USA/China/Germany or Equivalent	10031-43-3	1	500g
110	Copper,AR	UK/USA/China/Germany or Equivalent	7440-50-8	1	100g
111	Crystal violet,AR	UK/USA/China/Germany or Equivalent	548-62-9	1	100g
112	Cupric carbonate basic,AR,54-57% Cu basis	UK/USA/China/Germany or Equivalent	12069-69-1	1	500g
113	Cupric oxide,99%	UK/USA/China/Germany or Equivalent	1317-38-0	1	500g
114	Cupric sulfate anhydrous,AR,99.0%	UK/USA/China/Germany or Equivalent	7758-98-7	1	500g
115	Cuprous chloride,AR,97%	UK/USA/China/Germany or Equivalent	7758-89-6	1	500g

116	Cyclohexanol	UK/USA/China/Germany or Equivalent	108-93-0	1	2.5L
117	D-(+)-Glucose monohydrate,98%	UK/USA/China/Germany or Equivalent	14431-43-7	1	1kg
118	D-(+)-Glucose,99%	UK/USA/China/Germany or Equivalent	50-99-7	1	1kg
119	D-(+)-Maltose monohydrate,AR,97.0%	UK/USA/China/Germany or Equivalent	6363-53-7	1	500g
120	Dextrin,AR	UK/USA/China/Germany or Equivalent	9004-53-9	2	500g
121	D-Fructose,99%	UK/USA/China/Germany or Equivalent	57-48-7	1	1kg
122	D-Galactose,99%	UK/USA/China/Germany or Equivalent	59-23-4	1	25g
123	Dibasic calcium phosphate,98%	UK/USA/China/Germany or Equivalent	7757-93-9	1	500g
124	Dichloromethane,99%	UK/USA/China/Germany or Equivalent	75-09-2	1	500ml
125	Diethyl ether	UK/USA/China/Germany or Equivalent	60-29-7	1	2.5Ltr
126	Dimethyl Glyoximal	UK/USA/China/Germany or Equivalent	95-45-4	1	100g
127	Dimethyl sulfoxide,AR	UK/USA/China/Germany or Equivalent	67-68-5	1	500ml
128	Dimethyl yellow,indicator	UK/USA/China/Germany or Equivalent	60-11-7	1	100g
129	Dimethylglyoxime Disodium Salt Octahydrate,97%	UK/USA/China/Germany or Equivalent	75006-64-3	1	1g
130	Diphenylamine,99%	UK/USA/China/Germany or Equivalent	122-39-4	1	100g
131	Dithio oxamide,98% Rubeanic acid	UK/USA/China/Germany or Equivalent	79-40-3	1	1g
132	D-Lactose Monohydrate,98%	UK/USA/China/Germany or Equivalent	10039-26-6	1	1kg
133	DL-Dithiothreitol (DTT),99%	UK/USA/China/Germany or Equivalent	#####	1	5g
134	DNA Ladder (100 bp) Thermo	UK/USA/China/Germany or Equivalent	SM0323 Thermo or Equivalent	1	50ug

135	DNA Restriction enzymes (Hind III) Thermo	UK/USA/China/Germany or Equivalent	ER0501- Thermo or Equivalent	1	5000 Units
136	DNA Taq Polymerase (Enzyme) SolisBio Dyne	UK/USA/China/Germany or Equivalent	01-01- 00500- Thermo or Equivalent	1	500 Unit
137	D-Proline,99%	UK/USA/China/Germany or Equivalent	344-25-2	1	100g
138	D-Sorbitol,AR,98.0%	UK/USA/China/Germany or Equivalent	50-70-4	1	500g
139	Endonuclease PstI,	UK/USA/China/Germany or Equivalent	Imported	1	1000ul
140	Eosin Y, >75.0%(HPLC)	UK/USA/China/Germany or Equivalent	15086-94-9	2	25g
141	Epichlorohydrin,AR	UK/USA/China/Germany or Equivalent	106-89-8	2	500ml
142	Eriochrome black T,Indicator	UK/USA/China/Germany or Equivalent	1787-61-7	1	500g
143	Ethanol absolute	UK/USA/China/Germany or Equivalent	64-17-5	8	2.5Ltr
144	Ethyl alcohol	UK/USA/China/Germany or Equivalent	64-17-5	3	Litre
145	Ethylacetate,99%	UK/USA/China/Germany or Equivalent	141-78-6	8	500ml
146	Ethylenediaminetetraacetic acid (EDTA),AR,99.5%	UK/USA/China/Germany or Equivalent	60-00-4	1	kg
147	FERROUS CHLORIDE DIHYDRATE,99%	UK/USA/China/Germany or Equivalent	16399-77-2	1	5g
148	Folin-Ciocalteu'S phenol reagent, biotech grade	UK/USA/China/Germany or Equivalent	China or Equivalent	1	100ml
149	Formaldehyde solution,37 wt. % in H2O, containing 10-15% methanol stabilizer	UK/USA/China/Germany or Equivalent	50-00-0	1	500ml
150	Formaldehyde solution,37 wt. % in H2O, 含10-15%	UK/USA/China/Germany or Equivalent	50-00-0	2	500ml

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Sr No	Item Name	Make	Cas No.	Qty	Unit
151	Glutamic Acid	UK/USA/China/Germany or Equivalent	56-86-0	1	500g
152	Glycerol,AR,99%	UK/USA/China/Germany or Equivalent	56-81-5	1	500ml
153	Glycine,99.5-100.5%	UK/USA/China/Germany or Equivalent	56-40-6	1	kg
154	Glycogen	UK/USA/China/Germany or Equivalent	9005-79-2	1	1g
155	Hexadecyl trimethyl ammonium bromide (CTAB) ,99%	UK/USA/China/Germany or Equivalent	57-09-0	1	500g
156	Hexadecyl trimethyl ammonium bromide (CTAB),99%	UK/USA/China/Germany or Equivalent	57-09-0	2	500g
157	Hydrobromic acid,AR,40%	UK/USA/China/Germany or Equivalent	10035-10-6	1	500g
158	Hydrochloric acid (HCl) ACS reagent, 37%	UK/USA/China/Germany or Equivalent	7647-01-0	5	2.5Ltr
159	Hydrogen peroxide solution,3 wt. % in H ₂ O	UK/USA/China/Germany or Equivalent	7722-84-1	2	500ml
160	Hydroxyacetone,95%	UK/USA/China/Germany or Equivalent	116-09-6	1	25g
161	Hydroxylammonium chloride,99%	UK/USA/China/Germany or Equivalent	.5470-11-1	1	500g
162	Iodine Solution	UK/USA/China/Germany or Equivalent		1	Litre
163	Iodobenzene,99%	UK/USA/China/Germany or Equivalent	591-50-4	1	100g
164	Iodoform,AR,99.5%	UK/USA/China/Germany or Equivalent	75-47-8	1	25g
165	Iron chloride hexahydrate,99%	UK/USA/China/Germany or Equivalent	10025-77-1	1	500g
166	Iron Filling	UK/USA/China/Germany or Equivalent	9004-66-4	3	10g
167	Iron Metal dust	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	500g
168	Iron pyrate	UK/USA/China/Germany or Equivalent	7439-89-6	1	25g
169	Iron(II) sulfate heptahydrate,AR	UK/USA/China/Germany or Equivalent	7782-63-0	1	500g

170	Iron(III) chloride,AR,99%	UK/USA/China/Germany or Equivalent	7705-08-0	1	500g
171	Isoamyl Alcohol	UK/USA/China/Germany or Equivalent	123-51-3	2	500ml
172	Isopropyl alcohol,ACS,≥99.5%	UK/USA/China/Germany or Equivalent	67-63-0	1	2.5
173	Isopropyl alcohol,AR,≥99.5%	UK/USA/China/Germany or Equivalent	67-63-0	1	500ml
174	Isopropyl myristate,98%	UK/USA/China/Germany or Equivalent	110-27-0	1	1L
175	Kanamycin Sulfate, biological technology	UK/USA/China/Germany or Equivalent	25389-94-0	1	10 g
176	KMNO4 ACS reagent, ≥99.0%	UK/USA/China/Germany or Equivalent	7722-64-7	1	500g
177	L-(+)-Tartaric acid,99%	UK/USA/China/Germany or Equivalent	87-69-4	1	500g
178	L-(+)-Tartaric acid,ACS,≥99.5%	UK/USA/China/Germany or Equivalent	87-69-4	1	500g
179	Lanthanum chloride heptahydrate,AR	UK/USA/China/Germany or Equivalent	10025-84-0	1	500g
180	L-Ascorbic acid,>99.0%(T)	UK/USA/China/Germany or Equivalent	50-81-7	2	500g
181	Lead bromide,AR,99.0%	UK/USA/China/Germany or Equivalent	10031-22-8	1	5g
182	Lead chloride,AR,99.5%	UK/USA/China/Germany or Equivalent	7758-95-4	1	500g
183	Lead shoot guns	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1kg
184	Lead sulfate,AR,98.0%	UK/USA/China/Germany or Equivalent	7446-14-2	1	500g
185	Lead(II) acetate trihydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	6080-56-4	1	500g
186	Lead(IV) oxide,ACS,≥97.0%	UK/USA/China/Germany or Equivalent	1309-60-0	1	100g
187	Leishman stain	UK/USA/China/Germany or Equivalent	12627-53-1	1	25g
188	Limewater	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L

189	Lipid Mixture (1000×)	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	5ml
190	Litmus,AR	UK/USA/China/Germany or Equivalent	1393-92-6	1	100g
191	L-Lysine,98%(dry basis)	UK/USA/China/Germany or Equivalent	56-87-1	1	500g
192	L-Methionine,99%	UK/USA/China/Germany or Equivalent	63-68-3	1	500g
193	Luria Broth	UK/USA/China/Germany or Equivalent	Usa/UK/Italy or Equivalent	1	500g
194	Magnesium carbonate basic,AR,40-45% MgO basis	UK/USA/China/Germany or Equivalent	39409-82-0	1	1kg
195	Magnesium chloride hexahydrate,98%	UK/USA/China/Germany or Equivalent	7791-18-6	1	500g
196	Magnesium chloride,CP,99%	UK/USA/China/Germany or Equivalent	7786-30-3	2	kg
197	Magnesium Nitrate hexahydrate	UK/USA/China/Germany or Equivalent	13446-18-9	1	500g
198	Magnesium powder	UK/USA/China/Germany or Equivalent	7439-95-4	1	100g
199	Magnesium ribbon	UK/USA/China/Germany or Equivalent	Local	10	Roll
200	Magnesium sulfate,AR,99.0%	UK/USA/China/Germany or Equivalent	10034-99-8	3	500g
201	Magneson I ,AR	UK/USA/China/Germany or Equivalent	74-39-5	1	25g
202	Maleic acid,CP,99%	UK/USA/China/Germany or Equivalent	110-16-7	1	500g
203	Maleic anhydride,AR,>99.0%(GC)	UK/USA/China/Germany or Equivalent	108-31-6	1	500g
204	Malt extract	UK/USA/China/Germany or Equivalent	Usa/UK/Italy or Equivalent	1	500g
205	MANGANESE (III) OXIDE,98%	UK/USA/China/Germany or Equivalent	1317-34-6	1	500g
206	Manganese chloride,AR,99.0%	UK/USA/China/Germany or Equivalent	.7773-01-5	1	1kg

207	Manganese dioxide,AR,85%	UK/USA/China/Germany or Equivalent	1313-13-9	1	500g
208	Manganese sulfate monohydrate,AR,99%	UK/USA/China/Germany or Equivalent	10034-96-5	1	500g
209	Mercuric sulfate,AR 99%	UK/USA/China/Germany or Equivalent	7783-35-9	1	100g
210	Mercury nitrate dihydrate,AR,98%	UK/USA/China/Germany or Equivalent	7782-86-7	1	25g
211	Mercury(II) chloride	UK/USA/China/Germany or Equivalent	7487-94-7	1	100g
212	Methanol	UK/USA/China/Germany or Equivalent	67-56-1	6	2.5Ltr
213	Methyl acetate	UK/USA/China/Germany or Equivalent	79-20-9	2	500ml
214	Methyl Orange,IND	UK/USA/China/Germany or Equivalent	547-58-0	1	500g
215	Methyl red,95%	UK/USA/China/Germany or Equivalent	493-52-7	1	100g
216	Methylated spirit	UK/USA/China/Germany or Equivalent	Local	1	5Liter
217	Methylene Blue hydrate,96%	UK/USA/China/Germany or Equivalent	122965-43-9	1	25g
218	Million reagent	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	Litre
219	Molisch reagent	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
220	Molybdenum(V) chloride,99.5%	UK/USA/China/Germany or Equivalent	10241-05-1	1	50g

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Sr No	Item Name	Make	Cas No.	Qty	Unit
221	Murexide Indicator solution(Solid sodium chloride mixture),1%	UK/USA/China/Germany or Equivalent	3051-09-0	1	50g
222	Murexide,AR	UK/USA/China/Germany or Equivalent	3051-09-0	2	25g
223	m-Xylene,AR,98%	UK/USA/China/Germany or Equivalent	108-38-3	2	500ml

224	N,N'-Methylenebis(acrylamide),AR	UK/USA/China/Germany or Equivalent	110-26-9	1	500g
225	n-Butanol,AR,99.5%	UK/USA/China/Germany or Equivalent	71-36-3	2	500ml
226	Neodymium nitrate pentahydrate,99%	UK/USA/China/Germany or Equivalent	14517-29-4	1	100g
227	Nephthalene balls	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1kg
228	Nessler's reagent	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
229	n-Hexane,AR,97%	UK/USA/China/Germany or Equivalent	110-54-3	2	500ml
230	Nickel(II) sulfate hexahydrate,AR,98.5 %	UK/USA/China/Germany or Equivalent	10101-97-0	1	500g
231	Nickle II sulphate	UK/USA/China/Germany or Equivalent	10101-97-0	1	500g
232	Nigrosine water soluble,Biological stain	UK/USA/China/Germany or Equivalent	.8005-03-6	1	100g
233	Nitric Acid	UK/USA/China/Germany or Equivalent	7697-37-2	3	2.5Ltr
234	Nitrotetrazolium blue chloride,>98.0% biotech grade	UK/USA/China/Germany or Equivalent	N6125-1g	1	1g
235	n-Pentane,AR,99%	UK/USA/China/Germany or Equivalent	109-66-0	1	500ml
236	Nucleic acid loading dye Thermo	UK/USA/China/Germany or Equivalent	R0611-Thermo or Equivalent	1	5ml
237	Nutrient agar	UK/USA/China/Germany or Equivalent	Usa/UK/Italy or Equivalent	1	500g
238	Nutrient Broth	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	1	500g
239	Octane,96%	UK/USA/China/Germany or Equivalent	111-65-9	1	500ml
240	Olive oil	UK/USA/China/Germany or Equivalent	Local	1	Litre

241	Orcinol monohydrate,98%	UK/USA/China/Germany or Equivalent	6153-39-5	2	5g
242	Oxalic acid dihydrate,AR,≥99.5%	UK/USA/China/Germany or Equivalent	6153-56-6	6	500g
243	Oxalic acid standard titration solution,0.1mol/L H ₂ O	UK/USA/China/Germany or Equivalent	144-62-7	2	500ml
244	o-Xylene,98.0%	UK/USA/China/Germany or Equivalent	95-47-6	2	500ml
245	Paraffin – polyisobutylene mixture,for tissue embedding	UK/USA/China/Germany or Equivalent	145686-99-3	2	1kg
246	Paraffin oil	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
247	p-Chlorobenzaldehyde,98%	UK/USA/China/Germany or Equivalent	104-88-1	1	500g
248	PCR Master Mixture Thermo	UK/USA/China/Germany or Equivalent	K0171-Thermo or Equivalent	1	200Rxn
249	Pepsin,99%	UK/USA/China/Germany or Equivalent	9001-75-6	4	25g
250	Petroleum ether bp 30-60 °C	UK/USA/China/Germany or Equivalent	8032-32-4	1	2.5L
251	Petroleum jelly	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1kg
252	PH tablets	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	50	1
253	Phenazine methosulfate,98%	UK/USA/China/Germany or Equivalent	299-11-6	1	5g
254	Phenol krist	UK/USA/China/Germany or Equivalent	108-95-2	1	1kg
255	Phenol,AR	UK/USA/China/Germany or Equivalent	108-95-2	4	500g
256	Phenolphthalein,98%	UK/USA/China/Germany or Equivalent	77-09-8	1	500g
257	Phenolphthalein,Indicator	UK/USA/China/Germany or Equivalent	77-09-8	2	100g
258	Phenylhydrazine,AR,98.0%	UK/USA/China/Germany or Equivalent	100-63-0	2	100g

259	Phosphate-buffered saline (Ca ²⁺ - and Mg ²⁺ -free) Thermo	UK/USA/China/Germany or Equivalent	Thermo or Equivalent	1	500ml
260	Phosphoric acid,AR, ≥85 wt. % in H ₂ O	UK/USA/China/Germany or Equivalent	7664-38-2	1	2.5Ltr
261	Phthalic acid,AR,99.5%	UK/USA/China/Germany or Equivalent	88-99-3	2	500g
262	Picric acid	UK/USA/China/Germany or Equivalent	88-89-1	1	100g
263	Plant Agar	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	1	500g
264	Plaster of Paris	UK/USA/China/Germany or Equivalent	Local	1	1kg
265	Platinum wire	UK/USA/China/Germany or Equivalent	China or Equivalent	10	1Inch
266	Poly methyl methacrylate, heat-resistant injection grade	UK/USA/China/Germany or Equivalent	9011-14-7	2	25g
267	Poly(ethylene glycol) ,average Mn 800	UK/USA/China/Germany or Equivalent	25322-68-3	1	kg
268	Poly(vinyl acetate),approx. M.W. 140,000	UK/USA/China/Germany or Equivalent	9003-20-7	2	25g
269	Poly(vinyl alcohol) ,Mw ~205,000	UK/USA/China/Germany or Equivalent	9002-89-5	5	50g
270	Polystyrene, general type II, high strength	UK/USA/China/Germany or Equivalent	9003-53-6	2	500g
271	Polyvinylpyrrolidone (PVP10), average molecular weight 58000, K29-32	UK/USA/China/Germany or Equivalent	9003-39-8	1	500g
272	Potassium acetate,AR,99.0%	UK/USA/China/Germany or Equivalent	127-08-2	7	500g
273	Potassium bicarbonate,AR,99.5%	UK/USA/China/Germany or Equivalent	298-14-6	1	500g
274	Potassium biphthalate ,AR,99.8%	UK/USA/China/Germany or Equivalent	877-24-7	2	500g
275	Potassium bisulfate,AR,99%	UK/USA/China/Germany or Equivalent	7646-93-7	2	500g
276	Potassium bromide,99%	UK/USA/China/Germany or Equivalent	.7758-02-3	2	500g

277	Potassium carbonate,AR,99%	UK/USA/China/Germany or Equivalent	584-08-7	1	1kg
278	Potassium chloride,99.5%	UK/USA/China/Germany or Equivalent	7631-99-4	6	500g
279	Potassium chromate,GR, 99.5%	UK/USA/China/Germany or Equivalent	7789-00-6	2	500g
280	Potassium cyanide	UK/USA/China/Germany or Equivalent	151-50-8	1	500g
281	Potassium dichromate	UK/USA/China/Germany or Equivalent	7778-50-9	1	500g
282	Potassium dichromate (K ₂ Cr ₂ O ₇)	UK/USA/China/Germany or Equivalent	7778-50-9	2	500g
283	Potassium dichromate solution,0.0999mol/L Medium: H ₂ O	UK/USA/China/Germany or Equivalent	7778-50-9	2	45ml
284	Potassium ferricyanide,AR,≥99.5%	UK/USA/China/Germany or Equivalent	13746-66-2	1	500g
285	Potassium ferrocyanide trihydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	14459-95-1	2	500g
286	Potassium hydroxide solution in ethanol	UK/USA/China/Germany or Equivalent	China or Equivalent	1	Liter
287	Potassium hydroxide,95%	UK/USA/China/Germany or Equivalent	1310-58-3	2	500 g
288	Potassium iodate,GR	UK/USA/China/Germany or Equivalent	.7758-05-6	2	100g
289	Potassium nitrate	UK/USA/China/Germany or Equivalent	7757-79-1	2	500g
290	Potassium oxalate monohydrate,AR,99.8%	UK/USA/China/Germany or Equivalent	6487-48-5	2	500g

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Sr No	Item Name	Make	Cas No.	Qty	Unit
291	Potassium phosphate dibasic anhydrous,AR,98%	UK/USA/China/Germany or Equivalent	.7758-11-4	2	500g
292	Potassium phosphate monobasic,99.5%	UK/USA/China/Germany or Equivalent	7778-77-0	4	500g
293	Potassium sodium tartrate tetrahydrate,99%	UK/USA/China/Germany or Equivalent	6381-59-5	1	500g
294	Potassium sodium tartrate tetrahydrate,99.5%	UK/USA/China/Germany or Equivalent	6381-59-5	1	500g

295	Potassium sulfate,AR,99%	UK/USA/China/Germany or Equivalent	7778-80-5	2	500g
296	Proteinase K,≥30U/mg	UK/USA/China/Germany or Equivalent	39450-01-6	1	500mg
297	Pyridine,AR	UK/USA/China/Germany or Equivalent	110-86-1	2	500ml
298	Resorcinol	UK/USA/China/Germany or Equivalent	108-46-3	2	100g
299	Resorcinol,AR	UK/USA/China/Germany or Equivalent	108-46-3	1	500g
300	Rifampicin (Rifampin), 98% biological technology	UK/USA/China/Germany or Equivalent	13292-46-1	1	25g
301	Safranine T, biological staining grade	UK/USA/China/Germany or Equivalent	477-73-6	1	50g
302	Salicylic acid,AR,99.5%	UK/USA/China/Germany or Equivalent	69-72-7	1	1kg
303	Schiff reagent,	UK/USA/China/Germany or Equivalent		2	100
304	Silica gel,AR	UK/USA/China/Germany or Equivalent	112926-00-8	2	500g
305	Soda lime, medical grade, white	UK/USA/China/Germany or Equivalent	8006-28-8	2	500g
306	Sodium acetate anhydrous,99%	UK/USA/China/Germany or Equivalent	127-09-3	1	500g
307	Sodium acetate anhydrous,ACS, ≥99.0%	UK/USA/China/Germany or Equivalent	127-09-3	2	500g
308	Sodium acetate trihydrate,99%	UK/USA/China/Germany or Equivalent	6131-90-4	2	500g
309	Sodium Azide	UK/USA/China/Germany or Equivalent	26628-22-8	2	5g
310	Sodium benzoate,AR,99.5%	UK/USA/China/Germany or Equivalent	532-32-1	3	500g
311	Sodium bicarbonate,≥99.5%	UK/USA/China/Germany or Equivalent	144-55-8	2	500g
312	Sodium bisulfate monohydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	10034-88-5	2	500g
313	Sodium bisulfite solution,1% in H2O	UK/USA/China/Germany or Equivalent	7631-90-5	2	500ml
314	Sodium bromide,AR,99%	UK/USA/China/Germany or Equivalent	7647-15-6	2	500g
315	Sodium carbonate anhydrous,≥99.5%	UK/USA/China/Germany or Equivalent	497-19-8	4	500g

316	Sodium carbonate solution	UK/USA/China/Germany or Equivalent	497-19-8	1	1L
317	Sodium chloride,AR,99.5%	UK/USA/China/Germany or Equivalent	7647-14-5	10	500g
318	Sodium citrate dihydrate,99.0%	UK/USA/China/Germany or Equivalent	.6132-04-3	2	500g
319	Sodium dodecyl sulfate (SDS),AR,92.5-100.5%	UK/USA/China/Germany or Equivalent	151-21-3	1	500g
320	Sodium ethanethiolate,95%	UK/USA/China/Germany or Equivalent	811-51-8	2	10g
321	Sodium hexanitrocobaltate(III),AR,Co 13.5~14.5%	UK/USA/China/Germany or Equivalent	13600-98-1	2	25g
322	Sodium hydrogenphosphate dihydrate,AR	UK/USA/China/Germany or Equivalent	10028-24-7	1	1kg
323	Sodium hydroxide,ACS,97%,	UK/USA/China/Germany or Equivalent	1310-73-2	5	500g
324	Sodium hypochlorite solution,6-14% active chlorine basis	UK/USA/China/Germany or Equivalent	7681-52-9	4	500ml
325	Sodium iodate,99%	UK/USA/China/Germany or Equivalent	7681-55-2	1	500g
326	Sodium iodide,AR,99.5%	UK/USA/China/Germany or Equivalent	7681-82-5	1	100g
327	Sodium Nitrate	UK/USA/China/Germany or Equivalent	127-09-3	1	kg
328	Sodium nitroferricyanide(III) dihydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	13755-38-9	1	100g
329	Sodium oxalate,99.9%	UK/USA/China/Germany or Equivalent	62-76-0	2	500g
330	Sodium phosphate dibasic,99%	UK/USA/China/Germany or Equivalent	7558-79-4	1	500g
331	Sodium phosphate monobasic dihydrate,AR	UK/USA/China/Germany or Equivalent	13472-35-0	2	500g
332	Sodium phosphate tribasic dodecahydrate,AR,98.0%	UK/USA/China/Germany or Equivalent	10101-89-0	2	500g
333	Sodium silicate,≥18% Na (as Na ₂ O) basis, ≥60% Si (as SiO ₂) basis, powder	UK/USA/China/Germany or Equivalent	1344-09-8	1	500g
334	Sodium sulfate anhydrous,AR,99%	UK/USA/China/Germany or Equivalent	7757-82-6	2	kg
335	Sodium tetraborate decahydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	1303-96-4	2	500g

336	Sodium tetraborate,anhydrous,≥99%	UK/USA/China/Germany or Equivalent	1330-43-4	1	1kg
337	Starch soluble,AR	UK/USA/China/Germany or Equivalent	9005-84-9	2	500g
338	Streptomycin sulfate	UK/USA/China/Germany or Equivalent	3810-74-0	1	10g
339	Stronium nitrate	UK/USA/China/Germany or Equivalent	10042-76-9	1	100g
340	Strontium carbonate,AR,99%	UK/USA/China/Germany or Equivalent	1633-05-2	2	500g
341	Strontium chloride,GR	UK/USA/China/Germany or Equivalent	10476-85-4	1	500g
342	Sucrose,99%	UK/USA/China/Germany or Equivalent	57-50-1	6	500g
343	Sulfuric Acid	UK/USA/China/Germany or Equivalent	7664-93-9	5	2.5Ltr
344	TAE Buffer Solution Thermo	UK/USA/China/Germany or Equivalent	K0171	1	200Rxn
345	tert-Butanol,AR,≥99.0%	UK/USA/China/Germany or Equivalent	75-65-0	1	500ml
346	Tetraethyl orthosilicate,98%	UK/USA/China/Germany or Equivalent	78-10-4	1	1L
347	Thiourea,AR,99%	UK/USA/China/Germany or Equivalent	62-56-6	1	500g
348	thymol blue, biotech grade	UK/USA/China/Germany or Equivalent	76-61-9	1	25g
349	Tin(II) chloride,99%	UK/USA/China/Germany or Equivalent	7772-99-8	1	500g
350	Tollen reagents	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
351	Toluene ACS reagent, ≥99.5%	UK/USA/China/Germany or Equivalent	108-88-3	1	500ml
352	Triethylamine,AR,99.0%	UK/USA/China/Germany or Equivalent	121-44-8	1	1L
353	Tris base HCL	UK/USA/China/Germany or Equivalent	77-86-1	1	500ml
354	Tris, ultra pure grade	UK/USA/China/Germany or Equivalent	77-86-1	1	500g
355	Trisodium phosphate anhydrous,AR	UK/USA/China/Germany or Equivalent	7601-54-9	1	500g

356	Urea,99%	UK/USA/China/Germany or Equivalent	57-13-6	1	2.5Kg
357	Water,for HPLC	UK/USA/China/Germany or Equivalent	7732-18-5	1	1L
358	Yeast extract,powder,amino acid enriched type	UK/USA/China/Germany or Equivalent	CAS # 8013-01-2	1	500g
359	Yttrium chloride(III),无水, 粉末, 99.95% metals basis	UK/USA/China/Germany or Equivalent	10361-92-9	1	5g
360	Zinc carbonate basic,AR,57.5%	UK/USA/China/Germany or Equivalent	.5263-02-5	1	1kg
361	Zinc chloride,98%	UK/USA/China/Germany or Equivalent	7646-85-7	1	500g
362	Zinc metal (Turning)	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1kg
363	Zinc nitrate hexahydrate	UK/USA/China/Germany or Equivalent	10196-18-6	1	500g
364	Zinc powder purum, powder	UK/USA/China/Germany or Equivalent	7440-66-6	1	250g
365	Zinc sulfate monohydrate,99%	UK/USA/China/Germany or Equivalent	7446-19-7	1	500g
366	Zirconyl chloride hydrate,99.99% trace metals basis	UK/USA/China/Germany or Equivalent	15461-27-5	1	1g

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Sr No	Item Name	Make	Cas No.	Qty	Unit
367	Lanthanum Chloride 100 g	UK/USA/China/Germany or Equivalent	10099-58-8	1	50g
368	Vanadium Chloride 500 g	UK/USA/China/Germany or Equivalent	7718-98-1	2	25gm
369	Cetyl Trimethyl Ammonium Bromide CTAB	UK/USA/China/Germany or Equivalent	57-09-0	2	500gm
370	TEOS (Tetra Ethyl Ortho Silicate)	UK/USA/China/Germany or Equivalent	78-10-4	1	Liter
371	Epichlorohydrin (1 L)	UK/USA/China/Germany or Equivalent	106-89-8	2	500ml
372	Cerium Nitrate (100 g)	UK/USA/China/Germany or Equivalent	10294-41-4	1	100g
373	Neodymium Nitrate (100 g)	UK/USA/China/Germany or Equivalent	14517-29-4	1	100 g

374	Ethanol	UK/USA/China/Germany or Equivalent	64-17-5	2	2.5Ltr
375	Manganese Chloride (1kg)	UK/USA/China/Germany or Equivalent	.7773-01-5	1	Kg
376	Yttrium chloride (100 g)	UK/USA/China/Germany or Equivalent	10361-92-9	4	5gm
377	Tin(IV) Chloride SnCl ₂ (500gm)	UK/USA/China/Germany or Equivalent	7646-78-8	1	250g
378	Hydrogen Peroxide (2 L)	UK/USA/China/Germany or Equivalent	7722-84-1	4	500ml
379	Poly(vinyl alcohol) ,Mw ~205,000	UK/USA/China/Germany or Equivalent	9002-89-5	4	50g
380	Zirconium oxy chloride (500gm)	UK/USA/China/Germany or Equivalent	13520-92-8	1	500 g
381	4-Nitro Phenol (100 g)	UK/USA/China/Germany or Equivalent	88-30-2	4	5gm
382	Sodium hypochlorite NaOCl solution	UK/USA/China/Germany or Equivalent	7681-52-9	4	500ml
383	1-10 Phenanthroline	UK/USA/China/Germany or Equivalent	66-71-7	1	500gm
384	2-Methlimidazole	UK/USA/China/Germany or Equivalent	693-98-1	1	500 g
385	Hydrochloric acid	UK/USA/China/Germany or Equivalent	7647-01-0	1	2.5Ltr
386	Sulphuric acid	UK/USA/China/Germany or Equivalent	7664-93-9	1	2.5Ltr
387	Potassium dichromate	UK/USA/China/Germany or Equivalent	.7789-09-05	10	100g
388	Potassium permanganate	UK/USA/China/Germany or Equivalent	7722-64-7	2	500gm
389	EDTA	UK/USA/China/Germany or Equivalent	60-00-4	2	Kg
390	Charcoal	UK/USA/China/Germany or Equivalent	7440-44-0	4	500gm
391	Oxalic acid	UK/USA/China/Germany or Equivalent	6153-56-6	4	500gm
392	Iron Nitrate Research grade	UK/USA/China/Germany or Equivalent	7782-61-8	1	2.5Kg
393	Molybdenum Chloride	UK/USA/China/Germany or Equivalent	10241-05-1	4	50g
394	Bismuth Nitrate	UK/USA/China/Germany or Equivalent	10035-06-0	2	500g

395	Ethyl acetate	UK/USA/China/Germany or Equivalent	141-78-6	1	5Liter
396	Silver nitrate	UK/USA/China/Germany or Equivalent	7761-88-8	4	25gm
397	Acetic Acid	UK/USA/China/Germany or Equivalent	64-19-7	1	2.5Ltr
398	Sodium Hydroxide	UK/USA/China/Germany or Equivalent	1310-73-2	4	500gm
399	Potassium Iodide	UK/USA/China/Germany or Equivalent	7681-11-0	4	500g
400	Filter paper sheet	UK/USA/China/Germany or Equivalent	Whatman	2	Pkt
401	Stop Watch Digital Q&Q	UK/USA/China/Germany or Equivalent	Q&Q	2	Each
402	Calorimeter	UK/USA/China/Germany or Equivalent	PAk	10	Each
403	Tripod stands	UK/USA/China/Germany or Equivalent	Pak	10	Each
404	Ammonium Carbonate	UK/USA/China/Germany or Equivalent	506-87-6	1	Kg
405	Ammonia Solution	UK/USA/China/Germany or Equivalent	336-21-6	2	2.5ltr
406	Ammonium molybdate	UK/USA/China/Germany or Equivalent	13106-76-8	2	500gm
407	Aluminum Nitrate	UK/USA/China/Germany or Equivalent	7784-27-2	2	500gm
408	Aluminum Chloride	UK/USA/China/Germany or Equivalent	7446-70-0	2	500gm
409	Acetyl Chloride	UK/USA/China/Germany or Equivalent	75-36-5	1	Liter
410	Acetone	UK/USA/China/Germany or Equivalent	67-64-1	2	2.5ltr
411	Bismuth Chloride	UK/USA/China/Germany or Equivalent	7787-60-2	2	500gm
412	Carbon Disulfide	UK/USA/China/Germany or Equivalent	75-15-0	1	Liter
413	Calcium Dichloride	UK/USA/China/Germany or Equivalent	10035-04-8	1	kg
414	Calcium chloride anhydrous	UK/USA/China/Germany or Equivalent	10043-52-4	1	500gm
415	Cresol	UK/USA/China/Germany or Equivalent	95-48-7	2	500gm

416	Cobalt Nitrate	UK/USA/China/Germany or Equivalent	10026-22-9	2	500gm
417	Cadmium Nitrate	UK/USA/China/Germany or Equivalent	10022-68-1	2	500gm
418	Cadmium iodate	UK/USA/China/Germany or Equivalent	7790-80-9	4	100gm
419	Cadmium chloride	UK/USA/China/Germany or Equivalent	10108-64-2	2	250g
420	Distilled water	UK/USA/China/Germany or Equivalent	Local	2	5 Liter
421	Ethyl alcohol	UK/USA/China/Germany or Equivalent	64-17-5	1	2.5ltr
422	Ferric chloride	UK/USA/China/Germany or Equivalent	7705-08-0	1	500gm
423	Filter paper Whatman 1 No	UK/USA/China/Germany or Equivalent	Whatman	120	Pkt
424	Filter paper sheet 1 no.	UK/USA/China/Germany or Equivalent	Whatman	2	Pkt
425	Glycerin	UK/USA/China/Germany or Equivalent	56-81-5	2	2.5ltr
426	Glucose d	UK/USA/China/Germany or Equivalent	50-99-7	1	kg
427	Hydrochloric acid	UK/USA/China/Germany or Equivalent	7647-01-0	1	2.5ltr
428	Lead carbonate	UK/USA/China/Germany or Equivalent	598-63-0	1	250g
429	Litmus powder	UK/USA/China/Germany or Equivalent	1393-92-6	2	100gm
430	Mercury nitrate dihydrate,AR,98%	UK/USA/China/Germany or Equivalent	7782-86-7	4	25g
431	Magnesium sulfate	UK/USA/China/Germany or Equivalent	10034-99-8	2	500gm
432	Nitric acid	UK/USA/China/Germany or Equivalent	7697-37-2	1	2.5ltr
433	Nickle chloride	UK/USA/China/Germany or Equivalent	7718-54-9	2	500gm
434	Potassium iodate	UK/USA/China/Germany or Equivalent	.7758-05-6	2	100gm
435	Potassium carbonate	UK/USA/China/Germany or Equivalent	584-08-7	1	Kg
436	Potassium oxalate	UK/USA/China/Germany or Equivalent	6487-48-5	2	500gm

437	Potassium nitrate	UK/USA/China/Germany or Equivalent	7757-79-1	2	500gm
438	Potassium acetate	UK/USA/China/Germany or Equivalent	127-08-2	1	500gm
439	Petroleum ether	UK/USA/China/Germany or Equivalent	8032-32-4	1	2.5ltr
440	Silver nitrate	UK/USA/China/Germany or Equivalent	7761-88-8	4	100gm
441	Sulphuric acid	UK/USA/China/Germany or Equivalent	7664-93-9	2	2.5ltr
442	Spirit mathletes	UK/USA/China/Germany or Equivalent	Local	5	Liter
443	Xylene	UK/USA/China/Germany or Equivalent	108-38-3	4	500ml
444	Zinc sulfate	UK/USA/China/Germany or Equivalent	7446-19-7	2	500gm
445	Ethyl acetate	UK/USA/China/Germany or Equivalent	141-78-6	1	5Liter
446	Yellow aluminum sulfide	UK/USA/China/Germany or Equivalent	1302-81-4	1	Liter
447	Chromium chloride	UK/USA/China/Germany or Equivalent	10060-12-5	1	500gm
448	Lead chloride	UK/USA/China/Germany or Equivalent	7758-95-4	1	500gm
449	Potassium nitrite	UK/USA/China/Germany or Equivalent	7758-09-0	1	kg
450	Sodium sulfite	UK/USA/China/Germany or Equivalent	10034-88-5	2	500g
451	Mercurous nitrate	UK/USA/China/Germany or Equivalent	7782-86-7	4	25g

Section-IV: Bid Data Sheet

A. Introduction		
BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
1.	2.1.1	<p>Name of Procuring Agency: University of Narowal.</p> <p>The subject of procurement is: Procurement of Lab Chemicals for University of Narowal</p> <p>Period for delivery of goods: 30 Days</p> <p>Commencement date for delivery of Goods: Immediately after signing the Contract.</p>
2.	2.1.2	<p>Financial year for the operations of the Procuring Agency: 2023-24</p> <p>Name of Project/ Grant (Non Development): Recurring Grant/University of Narowal Annual Budget.</p> <p>Name of financing institution: University of Narowal</p> <p>Name and identification number of the Contract: Procurement of Lab Chemicals for University of Narowal Tender # UON-24-12-2024-04</p>
3.	2.1.3 (iv)	Joint venture, consortium or association shall not be entertained.
4.		Eligible Country for Participation is only Pakistan.
5.	2.3.6(iii)	Demonstration of authorization by manufacturer: <i>[if required]</i> form 7.2 should be followed.
B. Bidding Documents		
6.	2.2.2	The address for clarification of Bidding Documents is Office of the Secretary, Central Purchase Committee, University of Narowal, New Campus, Shakargarh Road, Narowal.
7.	2.2.2	Pre-bid meeting will not be held
8.	2.3.9	One complete set of bidding documents to be completed and

		marked as original.
C. Bid Price, Currency, Language and Country of Origin		
9	2.3.1	<i>Language of Bid must be English (Urdu where applicable). In case of bid in any other language the same shall be translated through relevant embassy.</i>
10	2.3.4	The price quoted shall be in Pakistani Rupees Only.
11.	2.3.4	<i>The price of bid shall be fixed.</i>
12.	2.1.4 (ii)	Country of origin is Pakistan
D. Preparation and Submission of Bids		
13.	2.1.3	<p>Qualification Criteria/Knock down criteria. <i>Minimum requirement for a Bidder to participate in the Bidding process which, may include but not limited to the following: -</i></p> <ul style="list-style-type: none"> i. <i>Copy of CNIC</i> ii. <i>Copy of National Tax No</i> iii. <i>GST/PST Number Required whatever is applicable.</i> iv. <i>Signature of the bidder or his authorized signatory on each page of the tender document as acceptance of the terms and conditions contained in the tender document.</i> v. <i>Bid Security /Demand Draft/Pay Order, 2% of estimated amount.</i> vi. <i>Affidavit on stamp paper to the effect that: -</i> <ul style="list-style-type: none"> • <i>Bidder is not currently blacklisted by the Procuring Agency.</i> • <i>The documents/photocopies provided with Bid are authentic. In case of any fake/bogus document found at any stage, the Bidder shall be blacklisted as per Law/ Rules.</i> • <i>The provided information is correct.</i>
14.	2.3.6&2.3.7	Spare parts required for 02 years of operation. (where applicable)
15.	2.2.2	Bid shall be submitted to: the Office of the Secretary, Central Purchase Committee, New Campus, University of Narowal, Shakargarh Road, Narowal.
16.	2.4.2	<p>The deadline for Bid submission is</p> <p>a) Day: <i>Tuesday</i></p> <p>b) Date: <i>24-12-2024</i></p>

		c) Time: 12:30 PM
17.	2.5.1	Bids will be opened at 01:00 PM on 24-12-2024 in Meeting Hall New Campus, University of Narowal.
18.	2.6.2	Amount of Performance Guarantee is 10% of Contract Amount.
19.	2.3.8	Estimated Contract Price is: LOT-01: 635,872 LOT-02: 769,194 LOT-03: 884,550 LOT-04: 1,722,350 LOT-05: 982,450 LOT-06: 2,863,235 Amount of Bid security is: LOT-01: 12,717 LOT-02: 15,384 LOT-03: 17,691 LOT-04: 34,447 LOT-05: 19,649 LOT-06: 57,265
20.	2.3.9	Bid validity period after opening of the Bid is: 120 Days.
21.	2.3.9	Number of copies of the Bid to be provided are: Only Original Bid is required.
E. Opening and Evaluation of Bids		
22.	2.5.1	The Bid opening shall take place at: University of Narowal, New Campus, Shakargarh Road, Narowal, Punjab, Pakistan At Tuesday, 24-12-2024, 01.00 PM In Meeting Hall, UON
23.	2.3.5	Only Pakistan Rupee shall be used for Bid evaluation

F. BID EVALUATION CRITERIA

Technical Evaluation Criteria for the Procurement of Chemicals contain the following: -

Sr. No.	Description	Allocated Marks	Total Marks
1	Mandatory Criteria		35 Marks
i.	Compliance to the Technical Specifications. The bidder shall awarded full marks, if bidder quote for the equal or above specifications mentioned in Technical Specifications.	<i>20 Marks</i>	
ii.	Manufacturer Authorization Letter/Certificate: The bidder must attach manufacturer authorization letter/certificate along with technical bid.	<i>15 Marks</i>	
2	Company Profile, Experience & International Certifications if any.		30 Marks
i.	Company Profile Years of operations (From Registration date of NTN / FBR) One (1) mark for one (1) year experience may be awarded. Maximum marks may be awarded, if the firm has 05 years or more experience.	<i>05 Marks</i>	
ii.	Sales Tax Registration	<i>05 Marks</i>	
iii.	Relevant Experience Similar assignments / supplies in lab Chemicals over last 05 years. 1 similar project= 05 marks 2 similar projects= 10 marks Purchase orders / supply orders / completion certificates must be attached, otherwise, no marks shall be awarded.	<i>10 Marks</i>	
iv.	Value of Projects Capital Cost of similar projects / Supplies in lab Chemicals completed over last 05 years If the value of any project is equal/more than the estimated value of Relevant lot(s) (for which bidder has quoted) For one project= 05 marks may be awarded For two projects = 10 marks may be awarded Purchase orders / supply orders / completion certificates must be attached, otherwise, no marks shall be awarded.	<i>10 Marks</i>	
3	Financial Position		35 Marks
i.	Annual Turnover (last 03 years) If the total annual turnover indicated in audit report/tax return of last three years is equal to/ above than the estimated cost of relevant lot(s) maximum allocated marks may be awarded.	<i>15 Marks</i>	

	<p>If total turnover during last three years is upto 33% of estimated cost of relevant lot(s) = 05 marks</p> <p>If total turnover during last three years is upto 66% of estimated cost of relevant lot(s) = 10 marks</p> <p>If total turnover during last three years is equal/more than the estimated cost of relevant lot(s) = 15 marks</p> <p>Audit statement/Tax Return of last three financial years must be attached, otherwise, no marks shall be awarded.</p>		
ii.	<p>Tax Return</p> <p>Bidder shall provide income tax returns for last three years</p>	10 Marks	
iii.	<p>Bank Balance / Credit Limit</p> <p>If bank balance / credit limit up-to 30th June, 2024 is equal to or more than estimated cost of current purchase, full marks may be awarded. Otherwise, the marks may be awarded as follows:</p> <p style="text-align: center;"><u>Closing Balance or Credit Limit</u> x 10 Estimate of Current Purchase</p>	10 Marks	
		Total	100
<p>Mandatory Notes:</p> <ul style="list-style-type: none"> • Mandatory Criteria at Sr. # 01 is Compulsory, otherwise no marks will be awarded and bid shall be considered rejected. • Only Bids securing minimum 65% marks would be declared technically accepted. • Shall be applicable and evaluated with respect to scoring for which lot(s) the bidder has applied. • Bidder can apply for all lots / single lot or more than one lot. • Bidder must quote for all items in a lot, otherwise bid shall be not be considered. • Bidder must fulfil mandatory/Knockout Criteria mentioned in Bid Data Sheet, otherwise bid shall be considered rejected. 			

Section-V: General Conditions of Contract

[The Procuring Agency should formulate General Condition of Contract in accordance with PPR-14 keeping in view its requirements, nature of procurement i.e. Bulk/Framework, item wise/package wise and form of contract to be adopted (i.e. DDP, CIF, C&F, FOR, FOP etc. if applicable) However, for a standard procurement/contract contents of a generalized General Conditions of Contract may be as follows:]

1. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the Procuring Agency and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.
- (c) "The Goods" means all of the equipment, machinery, and/or other materials which the Supplier is required to supply to the Procuring Agency under the Contract.
- (d) "The Services" means those services ancillary and related to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, maintenance & repair and other such obligations of the Supplier covered under the Contract.
- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "SCC" means the Special Conditions of Contract.
- (g) "The Procuring Agency" means the organization purchasing the Goods & Services, as named in SCC.
- (h) "The Procuring Agency's country" is the country named in SCC.

- (i) "The Supplier" means the Bidder or firm supplying the Goods and Services under this Contract.
- (j) "The Project Site," where applicable, means the place or places named in SCC.
- (k) "Day" means calendar day.

2. Application

2.1. These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

3. Country of Origin

[where applicable]

3.1. All Goods and Services supplied under the Contract shall have their origin in the countries and territories eligible under the rules, as further elaborated in the SCC.

3.2. For purposes of this Clause, "origin" means the place where the Goods were mined, grown, or produced, or from where the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product is obtained that is substantially different in basic characteristics or in purpose or utility from its components.

3.3. The origin of Goods and Services is distinct from the nationality of the Supplier. In any case, the requirements of rules 10 & 26, PPR-14, shall be followed.

4. Standards

4.1. The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.

5. Use of Contract Documents and Information; Inspection and Audit by the procuring agency.

5.1. The Supplier shall not, without the Procuring Agency's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Agency in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

5.2. The Supplier shall not, without the Procuring Agency's prior written consent, make use of any document or information

enumerated in GCC Clause 5.1 except for purposes of executing the Contract.

5.3. Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Procuring Agency and shall be returned (all copies) to the Procuring Agency on completion of the Supplier's performance under the Contract if so required by the Procuring Agency.

5.4. The Supplier shall permit the Procuring Agency to inspect the Supplier's accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the donors, if so required by the donors.

6. Patent Rights

6.1. The Supplier shall indemnify the Procuring Agency against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof in the Procuring Agency's country.

7. Performance Guarantee

7.1. Within fifteen (15) days or as mentioned in Award Letter from the receipt of the notification of Contract award, the successful Bidder shall furnish to the Procuring Agency the Performance Guarantee in the amount specified in SCC/Bid Data Sheet & clause 2.6.2 of ITB.

7.2. The proceeds of the Performance Guarantee shall be payable to the Procuring Agency as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

7.3. As per Rule-56 of PPR-14, the performance guarantee shall be denominated in the currency of the Contract acceptable to the Procuring Agency and shall be in one of the following forms:

- (a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the Procuring Agency's country, in the form provided in the Bidding documents or another form acceptable to the Procuring Agency; or
- (b) a Bank Guarantee, Bank call-deposit (CDR), Demand Draft (DD), Pay Order (PO) or Banker's cheque cashier's or certified cheque or CDR.

7.4. The performance guarantee will be discharged by the Procuring Agency and returned to the Supplier not later than thirty (30) days

following the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless specified otherwise in SCC.

8. Inspections and Tests

8.1. The Procuring Agency or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Agency. SCC and the Technical Specifications shall specify what inspections and tests the Procuring Agency requires and where they are to be conducted. The Procuring Agency shall notify the Supplier in writing, in a timely manner, of the identity of any representatives nominated for these purposes.

8.2. The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s) (if so allowed by the Procuring Agency), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Agency.

8.3. Should any inspected or tested Goods fail to conform to the Specifications, the Procuring Agency may reject the Goods, and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Procuring Agency.

8.4. The Procuring Agency's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival in the Procuring Agency's country shall in no way be limited or waived by reason of the Goods having previously been inspected, tested, and passed by the Procuring Agency or its representative prior to the Goods' shipment from the country of origin.

8.5. Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing

9.1. The Supplier 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. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the

Goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2. 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 SCC, and in any subsequent instructions ordered by the Procuring Agency.

10. Delivery and Documents

10.1. Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in the Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are specified in SCC.

10.2. Upon delivery, the Procuring Agency shall give receiving certificate to the supplier with the statement that, "completion certificate along with satisfactory report shall be issued after due inspection as per clause-8 of GCC, which will enable the supplier to put up the bill".

10.3. For purposes of the Contract, DDP trade term used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of *Incoterms*

10.4. Documents to be submitted by the Supplier are specified in SCC.

11. Insurance

11.1. The Goods supplied under the Contract shall be delivered *[form of content to be decided by the Procuring Agency]* duty form paid under which risk is transferred to the buyer after having been delivered, hence *[details coverage to be decided by the Procuring Agency]* is seller's responsibility.

12. Transportation

12.1. The Supplier is required under the Contract to transport the Goods to a specified place of destination within the Procuring Agency's country, including *(details to be decided by Procuring Agency as per requirement)* insurance and storage, as shall be specified in the Contract, and related costs shall be included in the Contract Price.

13. Incidental Services

13.1. The Supplier may be required to provide any or all of the following services, including additional services, if any, specified in

SCC:

- (a) satisfactory performance for specified time/ quantity on-site and/or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the Procuring Agency's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

13.2. Prices charged by the Supplier for incidental services shall be included in the Contract Price for the Goods and shall not exceed:

- (i) the prevailing rates charged for other parties by the Supplier for similar services; and
- (ii) original price of goods.

14. Spare Parts

14.1. As specified in SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- (a) such spare parts as the Procuring Agency may choose to purchase from the Supplier, provided that this choice shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) in the event of termination of production of the spare parts:
 - (i) advance notification to the Procuring Agency of the pending termination, in sufficient time to permit the Procuring Agency to procure needed requirements; and

- (ii) following such termination, furnishing at no cost to the Procuring Agency, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1. The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models selected by the Procuring Agency, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship (except when the design and/or material is required by the Procuring Agency's specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

15.2. This warranty shall remain valid for as per terms & Condition given by the Original Manufacturer, unless specified otherwise in SCC.

15.3. The Procuring Agency shall promptly notify the Supplier in writing of any claims arising under this warranty.

15.4. Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without costs to the Procuring Agency.

15.5. If the Supplier, having been notified, fails to rectify the defect(s) within the period specified in SCC, within a reasonable period, the Procuring Agency may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Procuring Agency may have against the Supplier under the Contract/relevant provision of PPR-14 including Blacklisting.

16. Payment

16.1. The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.

16.2. The Supplier's request(s) for payment shall be made to the Procuring Agency in writing, accompanied by an invoice describing, as

appropriate, the Goods delivered and Services performed, and by documents submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the Contract.

16.3. As per rule-62 of PPR-14, payments shall be made promptly by the Procuring Agency, but in no case later than thirty (30) days after submission of an invoice or claim by the Supplier, provided the work is satisfactory.

16.4. The currency of payment is *Pakistani Rupees*

17. Prices

17.1. Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments authorized in SCC.

18. Change Orders

18.1. The Procuring Agency may at any time, by a written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract, only if required for the successful completion of the job, in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Procuring Agency;
- (b) the method of shipment or packing;
- (c) the place of delivery; and/or
- (d) the Services to be provided by the Supplier.

18.2. If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Procuring Agency's change order. But, in no case, the overall impact of the change should exceed 15% of the contract cost and no provisions of PPR-14 should be violated.

19. Contract Amendments

19.1. Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by the mutual consent through written amendment signed by the parties. No variation in

finalized brands/ makes/models shall be allowed except in special conditions where the manufacturer has stopped producing or suspended that model or the latest model of similar series or version has been launched by the manufacturer or non-availability due to international mergers of the manufacturers or similar unavoidable constraints.

20. Assignment 20.1. The Supplier shall not assign the whole of contract to anybody else. However, some parts of contract or its obligations may be assigned to sub-contractors with the prior written approval of the procuring agency.

21. Sub-contracts 21.1. The Supplier shall notify the Procuring Agency in the Bid of all subcontracts to be assigned under this Contract. Such notification, in the original Bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2. Subcontracts must comply with the provisions of GCC Clause 20.

22. Delays in the Supplier's Performance 22.1. Delivery of the Goods and performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirements-

22.2. If at any time during performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Procuring Agency in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Procuring Agency shall evaluate the situation and may at its discretion extend the Supplier's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.

22.3. Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the imposition of liquidated damages.

23. Liquidated Damages 23.1. Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Procuring Agency shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified

in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in SCC. Once the maximum is reached, the Procuring Agency may consider termination of the Contract pursuant to GCC Clause 24 along with other remedies available under PPR-14.

**24. Termination
for Default**

24.1. The Procuring Agency, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Procuring Agency pursuant to GCC Clause 22;
- (b) if the Supplier fails to perform any other obligation(s) under the Contract; or
- (c) if the Supplier, in the judgment of the Procuring Agency has engaged in corrupt practices in competing for or in executing the Contract. For the purpose of this clause, corrupt practices will be defined as per Section-2 (d) of The PPRA Act, 2009.

“Corrupt practices” in respect of procurement process, shall be as given in S-2 (d) of PPRA, Act, 2009:

(d) “corrupt practice” means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official, bidder or Contractor in the procurement process or in Contract execution to the detriment of the procuring agency; or misrepresentation of facts in order to influence a procurement process or the execution of a Contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, noncompetitive levels and to deprive the procuring agency of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty; it may include any of the following:

- vi. coercive practice by impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence the actions of a party to achieve a wrongful gain or to cause a wrongful loss to another party;*
- vii. collusive practice by arrangement between two or more*

parties to the procurement process or Contract execution, designed to achieve with or without the knowledge of the procuring agency to establish prices at artificial, noncompetitive levels for any wrongful gain;

- viii. offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the acts of another party for wrongful gain;*
- ix. any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;*
- x. obstructive practice by harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a Contract or deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements before investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or acts intended to materially impede the exercise of inspection and audit process*

24.2. In the event the Procuring Agency terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Procuring Agency may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Agency for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

25. Force Majeure

25.1. Notwithstanding the provisions of GCC Clauses 22, 23, and 24, the Supplier shall not be liable for forfeiture of its Performance Guarantee, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

25.2. For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Procuring Agency in its sovereign

capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes. Both, the Procuring Agency and the Supplier, may agree to exclude certain widespread conditions e.g: epidemics, pandemics, quarantine restrictions etc from the purview of "Force Majeure".

25.3. If a Force Majeure situation arises, the Supplier shall promptly notify the Procuring Agency in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Agency in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. Any difference of opinion concerning "Force Majeure" may be decided through means given herein below.

**26. Termination
for Insolvency**

26.1. The Procuring Agency may at any time terminate the Contract by giving written notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Agency.

**27. Termination
for Convenience**

27.1. The Procuring Agency, by written notice sent to the Supplier, 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 Procuring Agency's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

27.2. The Goods that are complete and ready for shipment (if applicable) within thirty (30) days after the Supplier's receipt of notice of termination shall be accepted by the Procuring Agency on the Contract terms and prices. For the remaining Goods, the Procuring Agency may choose:

- (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 an agreed amount for partially completed Goods and Services and for materials and parts previously procured by the Supplier.

**28. Resolution of
Disputes**

28.1. After signing the contract or issuance of purchase order, The Procuring Agency and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute

arising between them under or in connection with the Contract.

28.2. If, after thirty (30) days from the commencement of such informal negotiations, the Procuring Agency and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in SCC. These mechanisms may include, but are not restricted to, conciliation mediated by a third party, adjudication in an agreed and/or arbitration as per rule 68 of PPR-14 and in accordance with Arbitration Act-1940.

29. Governing Language

29.1. The Contract shall be written in the language specified in SCC. Subject to GCC Clause 30, the version of the Contract written in the specified language shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

30. Applicable Law

30.1. The Contract shall be interpreted in accordance with the laws of Punjab (Pakistan) unless otherwise specified in SCC.

31. Notices

31.1. Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by any information technology mean for the time being in use and acceptable in ordinary course of business to the other party's address specified in SCC.

31.2. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

32. Taxes and Duties

32.1. Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods & Services to the Procuring Agency. In case of imposition of new taxes/duties or concession thereof after the deadlines for the submission of bids the effect thereof shall be borne or availed by the procuring agency as the case may be.

Section-VI. Schedule of Requirements

6.1 Schedule of Requirements

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Sr No	Item Name	Make	Cas No.	Qty	Unit
1	1,10-Phenanthroline,Indicator,99%	UK/USA/China/Germany or Equivalent	66-71-7	2	5g
2	1,2-Dibromoethane,99%	UK/USA/China/Germany or Equivalent	106-93-4	1	100g
3	1,2-Propanediol,AR,99% Glycol	UK/USA/China/Germany or Equivalent	57-55-6	2	500ml
4	1-Naphthol,AR,99.0%	UK/USA/China/Germany or Equivalent	90-15-3	1	500g
5	1-Naphthylamine,AR,99.0%	UK/USA/China/Germany or Equivalent	134-32-7	1	100g
6	2,2-Diphenyl-1-picrylhydrazyl,96%	UK/USA/China/Germany or Equivalent	1898-66-4	1	100mg
7	2-Methylimidazole,98%	UK/USA/China/Germany or Equivalent	693-98-1	1	500g
8	3,5-Dihydroxytoluene,≥99%(GC)	UK/USA/China/Germany or Equivalent	504-15-4	2	5g
9	3,6-Dithia-1,8-octanediol,97%	UK/USA/China/Germany or Equivalent	5244-34-8	1	25g
10	3-Indoleacetic acid,98%	UK/USA/China/Germany or Equivalent	87-51-4	2	25g
11	3-Methyl-1-butanol,AR,98.5%	UK/USA/China/Germany or Equivalent	123-51-3	2	500ml
12	4-Methyl-2-pentanone,AR,99.0%	UK/USA/China/Germany or Equivalent	108-10-1	2	500ml
13	5,5 ' -Dithio bis-(2-nitrobenzoic acid),98%	UK/USA/China/Germany or Equivalent	69-78-3	1	5g
14	5-Sulfosalicylic acid dihydrate,≥99%	UK/USA/China/Germany or Equivalent	5965-83-3	1	500g
15	8-Hydroxyquinoline,AR,99.0%	UK/USA/China/Germany or Equivalent	148-24-3	2	100g
16	Acetamide,AR,99%	UK/USA/China/Germany or Equivalent	60-35-5	1	1kg
17	Acetic Acid	UK/USA/China/Germany or Equivalent	64-19-7	3	2.5Ltr

18	Acetone	UK/USA/China/Germany or Equivalent	67-64-1	4	2.5Ltr
19	Acetonitrile,AR,99.0%	UK/USA/China/Germany or Equivalent	75-05-8	2	500ml
20	Acrylamide,AR,99.0%	UK/USA/China/Germany or Equivalent	79-06-1	1	500g
21	Activated charcoal, 200 mesh, powder, brown	UK/USA/China/Germany or Equivalent	7440-44-0	2	500g
22	Agar,BR	UK/USA/China/Germany or Equivalent	9200-18-0	1	kg
23	Alcohol	UK/USA/China/Germany or Equivalent	64-17-5	3	2.5Ltr
24	Aluminium hydroxide,AR	UK/USA/China/Germany or Equivalent	21645-51-2	2	500g
25	Aluminum ammonium sulfate,AR,99.5%	UK/USA/China/Germany or Equivalent	7784-26-1	2	500g
26	Aluminum nitrate nonahydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	7784-27-2	2	500g
27	Aluminum oxide,AR	UK/USA/China/Germany or Equivalent	1344-28-1	2	500g
28	Aluminum potassium sulfate dodecchhydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	7784-24-9	2	500g
29	Aluminum sulfate hydrate,98	UK/USA/China/Germany or Equivalent	17927-65-0	2	500g
30	Aluminum sulfate hydrate,98%	UK/USA/China/Germany or Equivalent	17927-65-0	2	500g
31	Aluminum,0.1mm,99.99% metals basis	UK/USA/China/Germany or Equivalent	7429-90-5	1	25g
32	Ammonia solution 25% (2.5 L)	UK/USA/China/Germany or Equivalent	1336-21-6	4	2.5L
33	Ammonium acetate,98%	UK/USA/China/Germany or Equivalent	631-61-8	2	500g
34	Ammonium bicarbonate,AR	UK/USA/China/Germany or Equivalent	1066-33-7	2	500g
35	Ammonium bromide,AR,99.0%	UK/USA/China/Germany or Equivalent	12124-97-9	2	500g
36	Ammonium chloride,99.5%	UK/USA/China/Germany or Equivalent	12125-02-9	2	500g
37	Ammonium dichromate ACS reagent, ≥99.5%	UK/USA/China/Germany or Equivalent	.7789-09-05	1	100g

38	Ammonium hydroxide solution,25-28%	UK/USA/China/Germany or Equivalent	336-21-6	2	kg
39	Ammonium iodide,AR,99.0%	UK/USA/China/Germany or Equivalent	12027-06-4	1	100g
40	Ammonium iron sulfate dodecahydrate,ACS	UK/USA/China/Germany or Equivalent	7783-83-7	2	500g
41	Ammonium iron(II) sulfate hexahydrate,AR,99.5	UK/USA/China/Germany or Equivalent	7783-85-9	2	500g
42	Ammonium metavanadate,99% metals basis	UK/USA/China/Germany or Equivalent	7803-55-6	1	25g
43	Ammonium Nitrate	UK/USA/China/Germany or Equivalent	6484-52-2	1	kg
44	Ammonium oxalate monohydrate,AR,99.8%	UK/USA/China/Germany or Equivalent	6009-70-7	2	500g
45	Ammonium persulfate,AR,98.5%	UK/USA/China/Germany or Equivalent	7727-54-0	1	500g
46	Ammonium phosphate dibasic,99%	UK/USA/China/Germany or Equivalent	7783-28-0	2	500g
47	Ammonium sulfate,AR,99%	UK/USA/China/Germany or Equivalent	7783-20-2	3	500g
48	Ammonium sulfide solution,30%-35% in H2O	UK/USA/China/Germany or Equivalent	12135-76-1	1	500ml
49	Ampicillin sodium, biotech grade	UK/USA/China/Germany or Equivalent	69-52-3	1	5g
50	Aniline,≥99.5%	UK/USA/China/Germany or Equivalent	62-53-3	1	500ml
51	Anthrone,AR	UK/USA/China/Germany or Equivalent	90-44-8	1	25g
52	Antimony trichloride,AR,99%	UK/USA/China/Germany or Equivalent	10025-91-9	1	100g
53	Antiserum A	UK/USA/China/Germany or Equivalent	USA or Equivalent	2	Set of 3
54	Asbestos	UK/USA/China/Germany or Equivalent	China or Equivalent	3	1 Sheet
55	Barium carbonate,ACS	UK/USA/China/Germany or Equivalent	513-77-9	1	500g
56	Barium chloride dihydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	10326-27-9	3	500g

57	Barium hydroxide monohydrate,98%	UK/USA/China/Germany or Equivalent	22326-55-2	2	500g
58	Barium sulfate,AR	UK/USA/China/Germany or Equivalent	7727-43-7	2	500g
59	Basic Fuchsin,70%	UK/USA/China/Germany or Equivalent	569-61-9	1	25g
60	Beeswax,AR	UK/USA/China/Germany or Equivalent	8012-89-3	1	250g
61	Benedict's reagent,	UK/USA/China/Germany or Equivalent	63126-89-6	1	50ml
62	Benzaldehyde,AR,>98.5%(GC)	UK/USA/China/Germany or Equivalent	100-52-7	1	500ml
63	Benzamide,99%	UK/USA/China/Germany or Equivalent	55-21-0	1	100g
64	Benzene,AR,≥99.5%	UK/USA/China/Germany or Equivalent	71-43-2	1	500ml
65	Benzoic acid,≥99%	UK/USA/China/Germany or Equivalent	65-85-0	1	1kg
66	Bial reagent	UK/USA/China/Germany or Equivalent	Usa/UK/Italy or Equivalent	1	100ml
67	Bismuth Chloride,AR	UK/USA/China/Germany or Equivalent	7787-60-2	1	500g
68	Bismuth oxide,AR	UK/USA/China/Germany or Equivalent	1304-76-3	1	250g
69	Boiling chips	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	1	100g
70	Boric acid,AR,≥99.5%	UK/USA/China/Germany or Equivalent	10043-35-3	1	500g
71	Brilliant Blue G,AR	UK/USA/China/Germany or Equivalent	6104-58-1	1	25g
72	Bromine water	UK/USA/China/Germany or Equivalent	Sigma	1	1L
73	Bromobenzene,AR,99%	UK/USA/China/Germany or Equivalent	108-86-1	1	500g
74	Bromothymol blue,ACS,Dye content 95 %	UK/USA/China/Germany or Equivalent	76-59-5	2	5g
75	Buffer pH4, pH7, pH10	UK/USA/China/Germany or Equivalent		6	Litre

76	Cadmium carbonate,99.99%	UK/USA/China/Germany or Equivalent	513-78-0	1	100g
77	Cadmium chloride monohydrate,99.95%	UK/USA/China/Germany or Equivalent	35658-65-2	1	100g
78	Cadmium nitrate tetrahydrate,AR,99%	UK/USA/China/Germany or Equivalent	10022-68-1	1	500g
79	Cadmium sulfate,8/3-hydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	7790-84-3	1	500g
80	Cadmium,AR,99.0%	UK/USA/China/Germany or Equivalent	7440-43-9	1	250g

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Sr No	Item Name	Make	Cas No.	Qty	Unit
81	Caesium carbonate,AR,99% metals basis	UK/USA/China/Germany or Equivalent	534-17-8	1	10g
82	Calcium carbide,98%	UK/USA/China/Germany or Equivalent	75-20-7	1	1kg
83	Calcium carbonate,AR,99%	UK/USA/China/Germany or Equivalent	471-34-1	2	500g
84	Calcium chloride anhydrous,96%	UK/USA/China/Germany or Equivalent	10043-52-4	6	500g
85	Calcium chloride dihydrate,AR	UK/USA/China/Germany or Equivalent	10035-04-8	1	500g
86	Calcium chloride hexahydrate,≥97%	UK/USA/China/Germany or Equivalent	7774-34-7	1	250g
87	Calcium hydroxide,AR,95%	UK/USA/China/Germany or Equivalent	1305-62-0	1	500g
88	Calcium oxide,AR,98%	UK/USA/China/Germany or Equivalent	1305-78-8	1	1kg
89	Calcium phosphate monobasic monohydrate,AR 85%	UK/USA/China/Germany or Equivalent	10031-30-8	1	500g
90	Calcium sulfate dihydrate,99%	UK/USA/China/Germany or Equivalent	10101-41-4	1	500g
91	Canada Balsam	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	1	1L
92	Carbon disulfide,AR,99.0%	UK/USA/China/Germany or Equivalent	75-15-0	1	1L

93	Carbon tetrachloride,98%	UK/USA/China/Germany or Equivalent	56-23-5	1	500ml
94	Carbonic acid,AR	UK/USA/China/Germany or Equivalent	463-79-6	1	100g
95	Chlorobenzene,AR,99%	UK/USA/China/Germany or Equivalent	108-90-7	2	500g
96	Chloroform	UK/USA/China/Germany or Equivalent	67-66-3	2	2.5Ltr
97	Chromium chloride hexahydrate,AR	UK/USA/China/Germany or Equivalent	10060-12-5	1	500g
98	Chromium(III) sulfate hydrate,CP	UK/USA/China/Germany or Equivalent	15244-38-9	2	500g
99	Citric acid,≥99.5%(T)	UK/USA/China/Germany or Equivalent	77-92-9	5	kg
100	Cobalt acetate,98%	UK/USA/China/Germany or Equivalent	71-48-7	1	500g
101	Cobalt chloride hexahydrate,AR	UK/USA/China/Germany or Equivalent	7791-13-1	1	500g
102	Cobalt nitrate hexahydrate,AR,99%	UK/USA/China/Germany or Equivalent	10026-22-9	1	500g
103	Cobalt sulfate heptahydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	10026-24-1	1	500g
104	Cobalt(II) carbonate hydrate,AR,Co 43.0 - 47.0 %	UK/USA/China/Germany or Equivalent	57454-67-8	1	250g
105	Cobaltous Nitrate	UK/USA/China/Germany or Equivalent	10026-22-9	1	500g
106	Congo red, indicator grade	UK/USA/China/Germany or Equivalent	573-58-0	1	100g
107	Copper acetate monohydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	6046-93-1	1	500g
108	Copper nitrate hydrate,AR	UK/USA/China/Germany or Equivalent	13778-31-9	1	500g
109	Copper nitrate trihydrate·	UK/USA/China/Germany or Equivalent	10031-43-3	1	500g
110	Copper,AR	UK/USA/China/Germany or Equivalent	7440-50-8	1	100g
111	Crystal violet,AR	UK/USA/China/Germany or Equivalent	548-62-9	1	100g
112	Cupric carbonate basic,AR,54-57% Cu basis	UK/USA/China/Germany or Equivalent	12069-69-1	1	500g
113	Cupric oxide,99%	UK/USA/China/Germany or Equivalent	1317-38-0	1	500g

114	Cupric sulfate anhydrous,AR,99.0%	UK/USA/China/Germany or Equivalent	7758-98-7	1	500g
115	Cuprous chloride,AR,97%	UK/USA/China/Germany or Equivalent	7758-89-6	1	500g
116	Cyclohexanol	UK/USA/China/Germany or Equivalent	108-93-0	1	2.5L
117	D-(+)-Glucose monohydrate,98%	UK/USA/China/Germany or Equivalent	14431-43-7	1	1kg
118	D-(+)-Glucose,99%	UK/USA/China/Germany or Equivalent	50-99-7	1	1kg
119	D-(+)-Maltose monohydrate,AR,97.0%	UK/USA/China/Germany or Equivalent	6363-53-7	1	500g
120	Dextrin,AR	UK/USA/China/Germany or Equivalent	9004-53-9	2	500g
121	D-Fructose,99%	UK/USA/China/Germany or Equivalent	57-48-7	1	1kg
122	D-Galactose,99%	UK/USA/China/Germany or Equivalent	59-23-4	1	25g
123	Dibasic calcium phosphate,98%	UK/USA/China/Germany or Equivalent	7757-93-9	1	500g
124	Dichloromethane,99%	UK/USA/China/Germany or Equivalent	75-09-2	1	500ml
125	Diethyl ether	UK/USA/China/Germany or Equivalent	60-29-7	1	2.5Ltr
126	Dimethyl Glyoximal	UK/USA/China/Germany or Equivalent	95-45-4	1	100g
127	Dimethyl sulfoxide,AR	UK/USA/China/Germany or Equivalent	67-68-5	1	500ml
128	Dimethyl yellow,indicator	UK/USA/China/Germany or Equivalent	60-11-7	1	100g
129	Dimethylglyoxime Disodium Salt Octahydrate,97%	UK/USA/China/Germany or Equivalent	75006-64-3	1	1g
130	Diphenylamine,99%	UK/USA/China/Germany or Equivalent	122-39-4	1	100g
131	Dithio oxamide,98% Rubeanic acid	UK/USA/China/Germany or Equivalent	79-40-3	1	1g
132	D-Lactose Monohydrate,98%	UK/USA/China/Germany or Equivalent	10039-26-6	1	1kg
133	DL-Dithiothreitol (DTT),99%	UK/USA/China/Germany or Equivalent	#####	1	5g

134	DNA Ladder (100 bp) Thermo	UK/USA/China/Germany or Equivalent	SM0323 Thermo or Equivalent	1	50ug
135	DNA Restriction enzymes (Hind III) Thermo	UK/USA/China/Germany or Equivalent	ER0501- Thermo or Equivalent	1	5000 Units
136	DNA Taq Polymerase (Enzyme) SolisBio Dyne	UK/USA/China/Germany or Equivalent	01-01-00500- Thermo or Equivalent	1	500 Unit
137	D-Proline,99%	UK/USA/China/Germany or Equivalent	344-25-2	1	100g
138	D-Sorbitol,AR,98.0%	UK/USA/China/Germany or Equivalent	50-70-4	1	500g
139	Endonuclease PstI,	UK/USA/China/Germany or Equivalent	Imported	1	1000ul
140	Eosin Y, >75.0%(HPLC)	UK/USA/China/Germany or Equivalent	15086-94-9	2	25g
141	Epichlorohydrin,AR	UK/USA/China/Germany or Equivalent	106-89-8	2	500ml
142	Eriochrome black T,Indicator	UK/USA/China/Germany or Equivalent	1787-61-7	1	500g
143	Ethanol absolute	UK/USA/China/Germany or Equivalent	64-17-5	8	2.5Ltr
144	Ethyl alcohol	UK/USA/China/Germany or Equivalent	64-17-5	3	Litre
145	Ethylacetate,99%	UK/USA/China/Germany or Equivalent	141-78-6	8	500ml
146	Ethylenediaminetetraacetic acid (EDTA),AR,99.5%	UK/USA/China/Germany or Equivalent	60-00-4	1	kg
147	FERROUS CHLORIDE DIHYDRATE,99%	UK/USA/China/Germany or Equivalent	16399-77-2	1	5g
148	Folin-Ciocalteu'S phenol reagent, biotech grade	UK/USA/China/Germany or Equivalent	China or Equivalent	1	100ml
149	Formaldehyde solution,37 wt. % in H2O, containing 10-15% methanol stabilizer	UK/USA/China/Germany or Equivalent	50-00-0	1	500ml

150	Formaldehyde solution,37 wt. % in H ₂ O, 含10-15%	UK/USA/China/Germany or Equivalent	50-00-0	2	500ml
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Sr No	Item Name	Make	Cas No.	Qty	Unit
151	Glutamic Acid	UK/USA/China/Germany or Equivalent	56-86-0	1	500g
152	Glycerol,AR,99%	UK/USA/China/Germany or Equivalent	56-81-5	1	500ml
153	Glycine,99.5-100.5%	UK/USA/China/Germany or Equivalent	56-40-6	1	kg
154	Glycogen	UK/USA/China/Germany or Equivalent	9005-79-2	1	1g
155	Hexadecyl trimethyl ammonium bromide (CTAB) ,99%	UK/USA/China/Germany or Equivalent	57-09-0	1	500g
156	Hexadecyl trimethyl ammonium bromide (CTAB),99%	UK/USA/China/Germany or Equivalent	57-09-0	2	500g
157	Hydrobromic acid,AR,40%	UK/USA/China/Germany or Equivalent	10035-10-6	1	500g
158	Hydrochloric acid (HCl) ACS reagent, 37%	UK/USA/China/Germany or Equivalent	7647-01-0	5	2.5Ltr
159	Hydrogen peroxide solution,3 wt. % in H ₂ O	UK/USA/China/Germany or Equivalent	7722-84-1	2	500ml
160	Hydroxyacetone,95%	UK/USA/China/Germany or Equivalent	116-09-6	1	25g
161	Hydroxylammonium chloride,99%	UK/USA/China/Germany or Equivalent	.5470-11-1	1	500g
162	Iodine Solution	UK/USA/China/Germany or Equivalent		1	Litre
163	Iodobenzene,99%	UK/USA/China/Germany or Equivalent	591-50-4	1	100g
164	Iodoform,AR,99.5%	UK/USA/China/Germany or Equivalent	75-47-8	1	25g
165	Iron chloride hexahydrate,99%	UK/USA/China/Germany or Equivalent	10025-77-1	1	500g
166	Iron Filling	UK/USA/China/Germany or Equivalent	9004-66-4	3	10g

167	Iron Metal dust	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	500g
168	Iron pyrate	UK/USA/China/Germany or Equivalent	7439-89-6	1	25g
169	Iron(II) sulfate heptahydrate,AR	UK/USA/China/Germany or Equivalent	7782-63-0	1	500g
170	Iron(III) chloride,AR,99%	UK/USA/China/Germany or Equivalent	7705-08-0	1	500g
171	Isoamyl Alcohol	UK/USA/China/Germany or Equivalent	123-51-3	2	500ml
172	Isopropyl alcohol,ACS,≥99.5%	UK/USA/China/Germany or Equivalent	67-63-0	1	2.5
173	Isopropyl alcohol,AR,≥99.5%	UK/USA/China/Germany or Equivalent	67-63-0	1	500ml
174	Isopropyl myristate,98%	UK/USA/China/Germany or Equivalent	110-27-0	1	1L
175	Kanamycin Sulfate, biological technology	UK/USA/China/Germany or Equivalent	25389-94-0	1	10 g
176	KMNO4 ACS reagent, ≥99.0%	UK/USA/China/Germany or Equivalent	7722-64-7	1	500g
177	L-(+)-Tartaric acid,99%	UK/USA/China/Germany or Equivalent	87-69-4	1	500g
178	L-(+)-Tartaric acid,ACS,≥99.5%	UK/USA/China/Germany or Equivalent	87-69-4	1	500g
179	Lanthanum chloride heptahydrate,AR	UK/USA/China/Germany or Equivalent	10025-84-0	1	500g
180	L-Ascorbic acid,>99.0%(T)	UK/USA/China/Germany or Equivalent	50-81-7	2	500g
181	Lead bromide,AR,99.0%	UK/USA/China/Germany or Equivalent	10031-22-8	1	5g
182	Lead chloride,AR,99.5%	UK/USA/China/Germany or Equivalent	7758-95-4	1	500g
183	Lead shoot guns	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1kg
184	Lead sulfate,AR,98.0%	UK/USA/China/Germany or Equivalent	7446-14-2	1	500g
185	Lead(II) acetate trihydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	6080-56-4	1	500g
186	Lead(IV) oxide,ACS,≥97.0%	UK/USA/China/Germany or Equivalent	1309-60-0	1	100g

187	Leishman stain	UK/USA/China/Germany or Equivalent	12627-53-1	1	25g
188	Limewater	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
189	Lipid Mixture (1000x)	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	5ml
190	Litmus,AR	UK/USA/China/Germany or Equivalent	1393-92-6	1	100g
191	L-Lysine,98%(dry basis)	UK/USA/China/Germany or Equivalent	56-87-1	1	500g
192	L-Methionine,99%	UK/USA/China/Germany or Equivalent	63-68-3	1	500g
193	Luria Broth	UK/USA/China/Germany or Equivalent	Usa/UK/Italy or Equivalent	1	500g
194	Magnesium carbonate basic,AR,40-45% MgO basis	UK/USA/China/Germany or Equivalent	39409-82-0	1	1kg
195	Magnesium chloride hexahydrate,98%	UK/USA/China/Germany or Equivalent	7791-18-6	1	500g
196	Magnesium chloride,CP,99%	UK/USA/China/Germany or Equivalent	7786-30-3	2	kg
197	Magnesium Nitrate hexahydrate	UK/USA/China/Germany or Equivalent	13446-18-9	1	500g
198	Magnesium powder	UK/USA/China/Germany or Equivalent	7439-95-4	1	100g
199	Magnesium ribbon	UK/USA/China/Germany or Equivalent	Local	10	Roll
200	Magnesium sulfate,AR,99.0%	UK/USA/China/Germany or Equivalent	10034-99-8	3	500g
201	Magneson I ,AR	UK/USA/China/Germany or Equivalent	74-39-5	1	25g
202	Maleic acid,CP,99%	UK/USA/China/Germany or Equivalent	110-16-7	1	500g
203	Maleic anhydride,AR,>99.0%(GC)	UK/USA/China/Germany or Equivalent	108-31-6	1	500g
204	Malt extract	UK/USA/China/Germany or Equivalent	Usa/UK/Italy or Equivalent	1	500g

205	MANGANESE (III) OXIDE,98%	UK/USA/China/Germany or Equivalent	1317-34-6	1	500g
206	Manganese chloride,AR,99.0%	UK/USA/China/Germany or Equivalent	.7773-01-5	1	1kg
207	Manganese dioxide,AR,85%	UK/USA/China/Germany or Equivalent	1313-13-9	1	500g
208	Manganese sulfate monohydrate,AR,99%	UK/USA/China/Germany or Equivalent	10034-96-5	1	500g
209	Mercuric sulfate,AR 99%	UK/USA/China/Germany or Equivalent	7783-35-9	1	100g
210	Mercury nitrate dihydrate,AR,98%	UK/USA/China/Germany or Equivalent	7782-86-7	1	25g
211	Mercury(II) chloride	UK/USA/China/Germany or Equivalent	7487-94-7	1	100g
212	Methanol	UK/USA/China/Germany or Equivalent	67-56-1	6	2.5Ltr
213	Methyl acetate	UK/USA/China/Germany or Equivalent	79-20-9	2	500ml
214	Methyl Orange,IND	UK/USA/China/Germany or Equivalent	547-58-0	1	500g
215	Methyl red,95%	UK/USA/China/Germany or Equivalent	493-52-7	1	100g
216	Methylated spirit	UK/USA/China/Germany or Equivalent	Local	1	5Liter
217	Methylene Blue hydrate,96%	UK/USA/China/Germany or Equivalent	122965-43-9	1	25g
218	Million reagent	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	Litre
219	Molisch reagent	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
220	Molybdenum(V) chloride,99.5%	UK/USA/China/Germany or Equivalent	10241-05-1	1	50g

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Sr No	Item Name	Make	Cas No.	Qty	Unit
221	Murexide Indicator solution(Solid sodium chloride mixture),1%	UK/USA/China/Germany or Equivalent	3051-09-0	1	50g

222	Murexide,AR	UK/USA/China/Germany or Equivalent	3051-09-0	2	25g
223	m-Xylene,AR,98%	UK/USA/China/Germany or Equivalent	108-38-3	2	500ml
224	N,N'-Methylenebis(acrylamide),AR	UK/USA/China/Germany or Equivalent	110-26-9	1	500g
225	n-Butanol,AR,99.5%	UK/USA/China/Germany or Equivalent	71-36-3	2	500ml
226	Neodymium nitrate pentahydrate,99%	UK/USA/China/Germany or Equivalent	14517-29-4	1	100g
227	Nephthalene balls	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1kg
228	Nessler's reagent	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
229	n-Hexane,AR,97%	UK/USA/China/Germany or Equivalent	110-54-3	2	500ml
230	Nickel(II) sulfate hexahydrate,AR,98.5 %	UK/USA/China/Germany or Equivalent	10101-97-0	1	500g
231	Nickle II sulphate	UK/USA/China/Germany or Equivalent	10101-97-0	1	500g
232	Nigrosine water soluble,Biological stain	UK/USA/China/Germany or Equivalent	.8005-03-6	1	100g
233	Nitric Acid	UK/USA/China/Germany or Equivalent	7697-37-2	3	2.5Ltr
234	Nitrotetrazolium blue chloride,>98.0% biotech grade	UK/USA/China/Germany or Equivalent	N6125-1g	1	1g
235	n-Pentane,AR,99%	UK/USA/China/Germany or Equivalent	109-66-0	1	500ml
236	Nucleic acid loading dye Thermo	UK/USA/China/Germany or Equivalent	R0611-Thermo or Equivalent	1	5ml
237	Nutrient agar	UK/USA/China/Germany or Equivalent	Usa/UK/Italy or Equivalent	1	500g
238	Nutrient Broth	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	1	500g

239	Octane,96%	UK/USA/China/Germany or Equivalent	111-65-9	1	500ml
240	Olive oil	UK/USA/China/Germany or Equivalent	Local	1	Litre
241	Orcinol monohydrate,98%	UK/USA/China/Germany or Equivalent	6153-39-5	2	5g
242	Oxalic acid dihydrate,AR,≥99.5%	UK/USA/China/Germany or Equivalent	6153-56-6	6	500g
243	Oxalic acid standard titration solution,0.1mol/L H ₂ O	UK/USA/China/Germany or Equivalent	144-62-7	2	500ml
244	o-Xylene,98.0%	UK/USA/China/Germany or Equivalent	95-47-6	2	500ml
245	Paraffin – polyisobutylene mixture,for tissue embedding	UK/USA/China/Germany or Equivalent	145686-99-3	2	1kg
246	Paraffin oil	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
247	p-Chlorobenzaldehyde,98%	UK/USA/China/Germany or Equivalent	104-88-1	1	500g
248	PCR Master Mixture Thermo	UK/USA/China/Germany or Equivalent	K0171-Thermo or Equivalent	1	200Rxn
249	Pepsin,99%	UK/USA/China/Germany or Equivalent	9001-75-6	4	25g
250	Petroleum ether bp 30-60 °C	UK/USA/China/Germany or Equivalent	8032-32-4	1	2.5L
251	Petroleum jelly	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1kg
252	PH tablets	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	50	1
253	Phenazine methosulfate,98%	UK/USA/China/Germany or Equivalent	299-11-6	1	5g
254	Phenol krist	UK/USA/China/Germany or Equivalent	108-95-2	1	1kg
255	Phenol,AR	UK/USA/China/Germany or Equivalent	108-95-2	4	500g
256	Phenolphthalein,98%	UK/USA/China/Germany or Equivalent	77-09-8	1	500g

257	Phenolphthalein,Indicator	UK/USA/China/Germany or Equivalent	77-09-8	2	100g
258	Phenylhydrazine,AR,98.0%	UK/USA/China/Germany or Equivalent	100-63-0	2	100g
259	Phosphate-buffered saline (Ca ²⁺ - and Mg ²⁺ -free) Thermo	UK/USA/China/Germany or Equivalent	Thermo or Equivalent	1	500ml
260	Phosphoric acid,AR, ≥85 wt. % in H ₂ O	UK/USA/China/Germany or Equivalent	7664-38-2	1	2.5Ltr
261	Phthalic acid,AR,99.5%	UK/USA/China/Germany or Equivalent	88-99-3	2	500g
262	Picric acid	UK/USA/China/Germany or Equivalent	88-89-1	1	100g
263	Plant Agar	UK/USA/China/Germany or Equivalent	USA/UK/Italy or Equivalent	1	500g
264	Plaster of Paris	UK/USA/China/Germany or Equivalent	Local	1	1kg
265	Platinum wire	UK/USA/China/Germany or Equivalent	China or Equivalent	10	1Inch
266	Poly methyl methacrylate, heat-resistant injection grade	UK/USA/China/Germany or Equivalent	9011-14-7	2	25g
267	Poly(ethylene glycol) ,average Mn 800	UK/USA/China/Germany or Equivalent	25322-68-3	1	kg
268	Poly(vinyl acetate),approx. M.W. 140,000	UK/USA/China/Germany or Equivalent	9003-20-7	2	25g
269	Poly(vinyl alcohol) ,Mw ~205,000	UK/USA/China/Germany or Equivalent	9002-89-5	5	50g
270	Polystyrene, general type II, high strength	UK/USA/China/Germany or Equivalent	9003-53-6	2	500g
271	Polyvinylpyrrolidone (PVP10), average molecular weight 58000, K29-32	UK/USA/China/Germany or Equivalent	9003-39-8	1	500g
272	Potassium acetate,AR,99.0%	UK/USA/China/Germany or Equivalent	127-08-2	7	500g
273	Potassium bicarbonate,AR,99.5%	UK/USA/China/Germany or Equivalent	298-14-6	1	500g
274	Potassium biphthalate ,AR,99.8%	UK/USA/China/Germany or Equivalent	877-24-7	2	500g

275	Potassium bisulfate,AR,99%	UK/USA/China/Germany or Equivalent	7646-93-7	2	500g
276	Potassium bromide,99%	UK/USA/China/Germany or Equivalent	.7758-02-3	2	500g
277	Potassium carbonate,AR,99%	UK/USA/China/Germany or Equivalent	584-08-7	1	1kg
278	Potassium chloride,99.5%	UK/USA/China/Germany or Equivalent	7631-99-4	6	500g
279	Potassium chromate,GR, 99.5%	UK/USA/China/Germany or Equivalent	7789-00-6	2	500g
280	Potassium cyanide	UK/USA/China/Germany or Equivalent	151-50-8	1	500g
281	Potassium dichromate	UK/USA/China/Germany or Equivalent	7778-50-9	1	500g
282	Potassium dichromate (K ₂ Cr ₂ O ₇)	UK/USA/China/Germany or Equivalent	7778-50-9	2	500g
283	Potassium dichromate solution,0.0999mol/L Medium: H ₂ O	UK/USA/China/Germany or Equivalent	7778-50-9	2	45ml
284	Potassium ferricyanide,AR,≥99.5%	UK/USA/China/Germany or Equivalent	13746-66-2	1	500g
285	Potassium ferrocyanide trihydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	14459-95-1	2	500g
286	Potassium hydroxide solution in ethanol	UK/USA/China/Germany or Equivalent	China or Equivalent	1	Liter
287	Potassium hydroxide,95%	UK/USA/China/Germany or Equivalent	1310-58-3	2	500 g
288	Potassium iodate,GR	UK/USA/China/Germany or Equivalent	.7758-05-6	2	100g
289	Potassium nitrate	UK/USA/China/Germany or Equivalent	7757-79-1	2	500g
290	Potassium oxalate monohydrate,AR,99.8%	UK/USA/China/Germany or Equivalent	6487-48-5	2	500g

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Sr No	Item Name	Make	Cas No.	Qty	Unit
291	Potassium phosphate dibasic anhydrous,AR,98%	UK/USA/China/Germany or Equivalent	.7758-11-4	2	500g
292	Potassium phosphate monobasic,99.5%	UK/USA/China/Germany or Equivalent	7778-77-0	4	500g

293	Potassium sodium tartrate tetrahydrate,99%	UK/USA/China/Germany or Equivalent	6381-59-5	1	500g
294	Potassium sodium tartrate tetrahydrate,99.5%	UK/USA/China/Germany or Equivalent	6381-59-5	1	500g
295	Potassium sulfate,AR,99%	UK/USA/China/Germany or Equivalent	7778-80-5	2	500g
296	Proteinase K,≥30U/mg	UK/USA/China/Germany or Equivalent	39450-01-6	1	500mg
297	Pyridine,AR	UK/USA/China/Germany or Equivalent	110-86-1	2	500ml
298	Resorcinol	UK/USA/China/Germany or Equivalent	108-46-3	2	100g
299	Resorcinol,AR	UK/USA/China/Germany or Equivalent	108-46-3	1	500g
300	Rifampicin (Rifampin), 98% biological technology	UK/USA/China/Germany or Equivalent	13292-46-1	1	25g
301	Safranine T, biological staining grade	UK/USA/China/Germany or Equivalent	477-73-6	1	50g
302	Salicylic acid,AR,99.5%	UK/USA/China/Germany or Equivalent	69-72-7	1	1kg
303	Schiff reagent,	UK/USA/China/Germany or Equivalent		2	100
304	Silica gel,AR	UK/USA/China/Germany or Equivalent	112926-00-8	2	500g
305	Soda lime, medical grade, white	UK/USA/China/Germany or Equivalent	8006-28-8	2	500g
306	Sodium acetate anhydrous,99%	UK/USA/China/Germany or Equivalent	127-09-3	1	500g
307	Sodium acetate anhydrous,ACS, ≥99.0%	UK/USA/China/Germany or Equivalent	127-09-3	2	500g
308	Sodium acetate trihydrate,99%	UK/USA/China/Germany or Equivalent	6131-90-4	2	500g
309	Sodium Azide	UK/USA/China/Germany or Equivalent	26628-22-8	2	5g
310	Sodium benzoate,AR,99.5%	UK/USA/China/Germany or Equivalent	532-32-1	3	500g
311	Sodium bicarbonate,≥99.5%	UK/USA/China/Germany or Equivalent	144-55-8	2	500g
312	Sodium bisulfate monohydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	10034-88-5	2	500g
313	Sodium bisulfite solution,1% in H2O	UK/USA/China/Germany or Equivalent	7631-90-5	2	500ml

314	Sodium bromide,AR,99%	UK/USA/China/Germany or Equivalent	7647-15-6	2	500g
315	Sodium carbonate anhydrous,≥99.5%	UK/USA/China/Germany or Equivalent	497-19-8	4	500g
316	Sodium carbonate solution	UK/USA/China/Germany or Equivalent	497-19-8	1	1L
317	Sodium chloride,AR,99.5%	UK/USA/China/Germany or Equivalent	7647-14-5	10	500g
318	Sodium citrate dihydrate,99.0%	UK/USA/China/Germany or Equivalent	.6132-04-3	2	500g
319	Sodium dodecyl sulfate (SDS),AR,92.5-100.5%	UK/USA/China/Germany or Equivalent	151-21-3	1	500g
320	Sodium ethanethiolate,95%	UK/USA/China/Germany or Equivalent	811-51-8	2	10g
321	Sodium hexanitrocobaltate(III),AR,Co 13.5~14.5%	UK/USA/China/Germany or Equivalent	13600-98-1	2	25g
322	Sodium hydrogenphosphate dihydrate,AR	UK/USA/China/Germany or Equivalent	10028-24-7	1	1kg
323	Sodium hydroxide,ACS,97%,	UK/USA/China/Germany or Equivalent	1310-73-2	5	500g
324	Sodium hypochlorite solution,6-14% active chlorine basis	UK/USA/China/Germany or Equivalent	7681-52-9	4	500ml
325	Sodium iodate,99%	UK/USA/China/Germany or Equivalent	7681-55-2	1	500g
326	Sodium iodide,AR,99.5%	UK/USA/China/Germany or Equivalent	7681-82-5	1	100g
327	Sodium Nitrate	UK/USA/China/Germany or Equivalent	127-09-3	1	kg
328	Sodium nitroferricyanide(III) dihydrate,AR,99.0%	UK/USA/China/Germany or Equivalent	13755-38-9	1	100g
329	Sodium oxalate,99.9%	UK/USA/China/Germany or Equivalent	62-76-0	2	500g
330	Sodium phosphate dibasic,99%	UK/USA/China/Germany or Equivalent	7558-79-4	1	500g
331	Sodium phosphate monobasic dihydrate,AR	UK/USA/China/Germany or Equivalent	13472-35-0	2	500g
332	Sodium phosphate tribasic dodecahydrate,AR,98.0%	UK/USA/China/Germany or Equivalent	10101-89-0	2	500g
333	Sodium silicate,≥18% Na (as Na ₂ O) basis, ≥60% Si (as SiO ₂) basis, powder	UK/USA/China/Germany or Equivalent	1344-09-8	1	500g

334	Sodium sulfate anhydrous,AR,99%	UK/USA/China/Germany or Equivalent	7757-82-6	2	kg
335	Sodium tetraborate decahydrate,AR,99.5%	UK/USA/China/Germany or Equivalent	1303-96-4	2	500g
336	Sodium tetraborate,anhydrous,≥99%	UK/USA/China/Germany or Equivalent	1330-43-4	1	1kg
337	Starch soluble,AR	UK/USA/China/Germany or Equivalent	9005-84-9	2	500g
338	Streptomycin sulfate	UK/USA/China/Germany or Equivalent	3810-74-0	1	10g
339	Stronium nitrate	UK/USA/China/Germany or Equivalent	10042-76-9	1	100g
340	Strontium carbonate,AR,99%	UK/USA/China/Germany or Equivalent	1633-05-2	2	500g
341	Strontium chloride,GR	UK/USA/China/Germany or Equivalent	10476-85-4	1	500g
342	Sucrose,99%	UK/USA/China/Germany or Equivalent	57-50-1	6	500g
343	Sulfuric Acid	UK/USA/China/Germany or Equivalent	7664-93-9	5	2.5Ltr
344	TAE Buffer Solution Thermo	UK/USA/China/Germany or Equivalent	K0171	1	200Rxn
345	tert-Butanol,AR,≥99.0%	UK/USA/China/Germany or Equivalent	75-65-0	1	500ml
346	Tetraethyl orthosilicate,98%	UK/USA/China/Germany or Equivalent	78-10-4	1	1L
347	Thiourea,AR,99%	UK/USA/China/Germany or Equivalent	62-56-6	1	500g
348	thymol blue, biotech grade	UK/USA/China/Germany or Equivalent	76-61-9	1	25g
349	Tin(II) chloride,99%	UK/USA/China/Germany or Equivalent	7772-99-8	1	500g
350	Tollen reagents	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1L
351	Toluene ACS reagent, ≥99.5%	UK/USA/China/Germany or Equivalent	108-88-3	1	500ml
352	Triethylamine,AR,99.0%	UK/USA/China/Germany or Equivalent	121-44-8	1	1L
353	Tris base HCL	UK/USA/China/Germany or Equivalent	77-86-1	1	500ml

354	Tris, ultra pure grade	UK/USA/China/Germany or Equivalent	77-86-1	1	500g
355	Trisodium phosphate anhydrous,AR	UK/USA/China/Germany or Equivalent	7601-54-9	1	500g
356	Urea,99%	UK/USA/China/Germany or Equivalent	57-13-6	1	2.5Kg
357	Water,for HPLC	UK/USA/China/Germany or Equivalent	7732-18-5	1	1L
358	Yeast extract,powder,amino acid enriched type	UK/USA/China/Germany or Equivalent	CAS # 8013-01-2	1	500g
359	Yttrium chloride(III),无水, 粉末, 99.95% metals basis	UK/USA/China/Germany or Equivalent	10361-92-9	1	5g
360	Zinc carbonate basic,AR,57.5%	UK/USA/China/Germany or Equivalent	.5263-02-5	1	1kg
361	Zinc chloride,98%	UK/USA/China/Germany or Equivalent	7646-85-7	1	500g
362	Zinc metal (Turning)	UK/USA/China/Germany or Equivalent	Sigma or Equivalent	1	1kg
363	Zinc nitrate hexahydrate	UK/USA/China/Germany or Equivalent	10196-18-6	1	500g
364	Zinc powder purum, powder	UK/USA/China/Germany or Equivalent	7440-66-6	1	250g
365	Zinc sulfate monohydrate,99%	UK/USA/China/Germany or Equivalent	7446-19-7	1	500g
366	Zirconyl chloride hydrate,99.99% trace metals basis	UK/USA/China/Germany or Equivalent	15461-27-5	1	1g

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Sr No	Item Name	Make	Cas No.	Qty	Unit
367	Lanthanum Chloride 100 g	UK/USA/China/Germany or Equivalent	10099-58-8	1	50g
368	Vanadium Chloride 500 g	UK/USA/China/Germany or Equivalent	7718-98-1	2	25gm
369	Cetyl Trimethyl Ammonium Bromide CTAB	UK/USA/China/Germany or Equivalent	57-09-0	2	500gm
370	TEOS (Tetra Ethyl Ortho Silicate)	UK/USA/China/Germany or Equivalent	78-10-4	1	Liter
371	Epichlorohydrin (1 L)	UK/USA/China/Germany or Equivalent	106-89-8	2	500ml

372	Cerium Nitrate (100 g)	UK/USA/China/Germany or Equivalent	10294-41-4	1	100g
373	Neodymium Nitrate (100 g)	UK/USA/China/Germany or Equivalent	14517-29-4	1	100 g
374	Ethanol	UK/USA/China/Germany or Equivalent	64-17-5	2	2.5Ltr
375	Manganese Chloride (1kg)	UK/USA/China/Germany or Equivalent	.7773-01-5	1	Kg
376	Yttrium chloride (100 g)	UK/USA/China/Germany or Equivalent	10361-92-9	4	5gm
377	Tin(IV) Chloride SnCl ₂ (500gm)	UK/USA/China/Germany or Equivalent	7646-78-8	1	250g
378	Hydrogen Peroxide (2 L)	UK/USA/China/Germany or Equivalent	7722-84-1	4	500ml
379	Poly(vinyl alcohol) ,Mw ~205,000	UK/USA/China/Germany or Equivalent	9002-89-5	4	50g
380	Zirconium oxy chloride (500gm)	UK/USA/China/Germany or Equivalent	13520-92-8	1	500 g
381	4-Nitro Phenol (100 g)	UK/USA/China/Germany or Equivalent	88-30-2	4	5gm
382	Sodium hypochlorite NaOCl solution	UK/USA/China/Germany or Equivalent	7681-52-9	4	500ml
383	1-10 Phenanthroline	UK/USA/China/Germany or Equivalent	66-71-7	1	500gm
384	2-Methlimidazole	UK/USA/China/Germany or Equivalent	693-98-1	1	500 g
385	Hydrochloric acid	UK/USA/China/Germany or Equivalent	7647-01-0	1	2.5Ltr
386	Sulphuric acid	UK/USA/China/Germany or Equivalent	7664-93-9	1	2.5Ltr
387	Potassium dichromate	UK/USA/China/Germany or Equivalent	.7789-09-05	10	100g
388	Potassium permanganate	UK/USA/China/Germany or Equivalent	7722-64-7	2	500gm
389	EDTA	UK/USA/China/Germany or Equivalent	60-00-4	2	Kg
390	Charcoal	UK/USA/China/Germany or Equivalent	7440-44-0	4	500gm
391	Oxalic acid	UK/USA/China/Germany or Equivalent	6153-56-6	4	500gm
392	Iron Nitrate Research grade	UK/USA/China/Germany or Equivalent	7782-61-8	1	2.5Kg

393	Molybdenum Chloride	UK/USA/China/Germany or Equivalent	10241-05-1	4	50g
394	Bismuth Nitrate	UK/USA/China/Germany or Equivalent	10035-06-0	2	500g
395	Ethyl acetate	UK/USA/China/Germany or Equivalent	141-78-6	1	5Liter
396	Silver nitrate	UK/USA/China/Germany or Equivalent	7761-88-8	4	25gm
397	Acetic Acid	UK/USA/China/Germany or Equivalent	64-19-7	1	2.5Ltr
398	Sodium Hydroxide	UK/USA/China/Germany or Equivalent	1310-73-2	4	500gm
399	Potassium Iodide	UK/USA/China/Germany or Equivalent	7681-11-0	4	500g
400	Filter paper sheet	UK/USA/China/Germany or Equivalent	Whatman	2	Pkt
401	Stop Watch Digital Q&Q	UK/USA/China/Germany or Equivalent	Q&Q	2	Each
402	Calorimeter	UK/USA/China/Germany or Equivalent	PAk	10	Each
403	Tripod stands	UK/USA/China/Germany or Equivalent	Pak	10	Each
404	Ammonium Carbonate	UK/USA/China/Germany or Equivalent	506-87-6	1	Kg
405	Ammonia Solution	UK/USA/China/Germany or Equivalent	336-21-6	2	2.5ltr
406	Ammonium molybdate	UK/USA/China/Germany or Equivalent	13106-76-8	2	500gm
407	Aluminum Nitrate	UK/USA/China/Germany or Equivalent	7784-27-2	2	500gm
408	Aluminum Chloride	UK/USA/China/Germany or Equivalent	7446-70-0	2	500gm
409	Acetyl Chloride	UK/USA/China/Germany or Equivalent	75-36-5	1	Liter
410	Acetone	UK/USA/China/Germany or Equivalent	67-64-1	2	2.5ltr
411	Bismuth Chloride	UK/USA/China/Germany or Equivalent	7787-60-2	2	500gm
412	Carbon Disulfide	UK/USA/China/Germany or Equivalent	75-15-0	1	Liter
413	Calcium Dichloride	UK/USA/China/Germany or Equivalent	10035-04-8	1	kg

414	Calcium chloride anhydrous	UK/USA/China/Germany or Equivalent	10043-52-4	1	500gm
415	Cresol	UK/USA/China/Germany or Equivalent	95-48-7	2	500gm
416	Cobalt Nitrate	UK/USA/China/Germany or Equivalent	10026-22-9	2	500gm
417	Cadmium Nitrate	UK/USA/China/Germany or Equivalent	10022-68-1	2	500gm
418	Cadmium iodate	UK/USA/China/Germany or Equivalent	7790-80-9	4	100gm
419	Cadmium chloride	UK/USA/China/Germany or Equivalent	10108-64-2	2	250g
420	Distilled water	UK/USA/China/Germany or Equivalent	Local	2	5 Liter
421	Ethyl alcohol	UK/USA/China/Germany or Equivalent	64-17-5	1	2.5ltr
422	Ferric chloride	UK/USA/China/Germany or Equivalent	7705-08-0	1	500gm
423	Filter paper Whatman 1 No	UK/USA/China/Germany or Equivalent	Whatman	120	Pkt
424	Filter paper sheet 1 no.	UK/USA/China/Germany or Equivalent	Whatman	2	Pkt
425	Glycerin	UK/USA/China/Germany or Equivalent	56-81-5	2	2.5ltr
426	Glucose d	UK/USA/China/Germany or Equivalent	50-99-7	1	kg
427	Hydrochloric acid	UK/USA/China/Germany or Equivalent	7647-01-0	1	2.5ltr
428	Lead carbonate	UK/USA/China/Germany or Equivalent	598-63-0	1	250g
429	Litmus powder	UK/USA/China/Germany or Equivalent	1393-92-6	2	100gm
430	Mercury nitrate dihydrate, AR, 98%	UK/USA/China/Germany or Equivalent	7782-86-7	4	25g
431	Magnesium sulfate	UK/USA/China/Germany or Equivalent	10034-99-8	2	500gm
432	Nitric acid	UK/USA/China/Germany or Equivalent	7697-37-2	1	2.5ltr
433	Nickle chloride	UK/USA/China/Germany or Equivalent	7718-54-9	2	500gm
434	Potassium iodate	UK/USA/China/Germany or Equivalent	.7758-05-6	2	100gm

435	Potassium carbonate	UK/USA/China/Germany or Equivalent	584-08-7	1	Kg
436	Potassium oxalate	UK/USA/China/Germany or Equivalent	6487-48-5	2	500gm
437	Potassium nitrate	UK/USA/China/Germany or Equivalent	7757-79-1	2	500gm
438	Potassium acetate	UK/USA/China/Germany or Equivalent	127-08-2	1	500gm
439	Petroleum ether	UK/USA/China/Germany or Equivalent	8032-32-4	1	2.5ltr
440	Silver nitrate	UK/USA/China/Germany or Equivalent	7761-88-8	4	100gm
441	Sulphuric acid	UK/USA/China/Germany or Equivalent	7664-93-9	2	2.5ltr
442	Spirit mathletes	UK/USA/China/Germany or Equivalent	Local	5	Liter
443	Xylene	UK/USA/China/Germany or Equivalent	108-38-3	4	500ml
444	Zinc sulfate	UK/USA/China/Germany or Equivalent	7446-19-7	2	500gm
445	Ethyl acetate	UK/USA/China/Germany or Equivalent	141-78-6	1	5Liter
446	Yellow aluminum sulfide	UK/USA/China/Germany or Equivalent	1302-81-4	1	Liter
447	Chromium chloride	UK/USA/China/Germany or Equivalent	10060-12-5	1	500gm
448	Lead chloride	UK/USA/China/Germany or Equivalent	7758-95-4	1	500gm
449	Potassium nitrite	UK/USA/China/Germany or Equivalent	7758-09-0	1	kg
450	Sodium sulfite	UK/USA/China/Germany or Equivalent	10034-88-5	2	500g
451	Mercurous nitrate	UK/USA/China/Germany or Equivalent	7782-86-7	4	25g

The Bidder must supply above items within 30 days from the date of signing of contract.

Section-VII: Sample Forms

7.1 Bid Form

[To be signed & stamped by the Goods Provider and reproduced on the letter head. To be attached with the Bid, in case of Single Stage One Envelope Procedure and with the Financial Bid, in case of Single Stage Two Envelope Procedure]

Date: _____

To: University of Narowal

Gentlemen and/or Ladies:

Having examined the Bidding documents including Addenda Nos. *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, in conformity with the said Bidding documents for the sum of *[total Bid amount in words and figures]* or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, specified in the Schedule of Requirements.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to Ten (10) percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Procuring Agency.

We agree to a Bid by this Bid for a period of 120 days from the date fixed to Bid opening under Clause 2.3.8 of the Instructions to Bidders, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed (*if required*), this Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

[In case of single stage one envelope bidding procedure]

The Composition of our Bid is:

- a) Complete bidding document (without filling) signed and stamped by the bidder

- b) all the forms relevant to the technical and financial bids (clearly indicated on each form)
- c) All the required documents establishing eligibility of bidders/goods shall be made part of the bid.
- d) Any other document required by the procuring agency not inconsistent with PPR-14.

[In case of single stage two envelope bidding procedure],

The Composition of our bid consists on separate Technical and financial bids, detail of which is as follows:

Technical bid includes the following: -

- a) Complete bidding document (without filling) signed and stamped by the bidder
- b) All the forms relevant to the technical bid, to be reproduced on the letter head of the bidder as indicated on each individual form.
- c) Original bid security form along with Original financial instrument in form of *Bank Guarantee / Bank call-deposit (CDR) / Demand Draft (DD) / Pay Order (PO) or Banker's cheque* valid for 120 Days.
- d) Any other document required by the procuring agency not inconsistent with PPR-14.

Financial bid includes the following: -

- a) Original Bid form (as per **form 7.1** of Bidding documents) on letter head of the firm, duly signed and stamped.
- b) Price schedule / financial form (as per **form 7.9**) to be reproduced on the letter head of the bidder duly signed and stamped.
- c) Copy of Bid security form (as per **form 7.10**) along with Copy of financial instrument *in form of Bank Guarantee / Bank call-deposit (CDR) / Demand Draft (DD) / Pay Order (PO) or Banker's cheque* valid for 120 Days.
- d) *Any other document required by the procuring agency not inconsistent with PPR-14.*

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of goods provider	Amount and Currency
------------------------------------	---------------------

_____	_____
-------	-------

_____	_____
-------	-------

_____	_____
-------	-------

(if none, state "none")

We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this _____ day of _____ 20____.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

7.2. Manufacturer's Authorization Form

[To be signed and stamped by the Bidder and to be attached with Technical Bid]

[See Clause 2.3.6 (iii) of the Instructions to Bidders.]

To: University of Narowal

WHEREAS *[name of the Manufacturer]*, who are established and reputable manufacturers of *[name and/or description of the goods]* having factories at *[address of factory]* do hereby authorize *[name and address of Agent]* to submit a Bid, and subsequently negotiate and sign the Contract with you against for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract for the goods offered for supply by the above firm against this Invitation to Bids.

[Signature for and on behalf of Manufacturer]

Note: This letter of authority should be on the letterhead of the Manufacturer and should be signed by a person competent and having the power of attorney to bind the Manufacturer. It should be included by the Bidder in its Bid.

7.3. Bidder Profile Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Sr.#	Particulars
1.	Name of the company:
2.	Registered Office:
Address:	
Office Telephone Number:	
Fax Number:	
3.	Contact Person:
Name:	
Personal Telephone Number:	
Email Address:	
4.	Local office if any:
Address:	
Office Telephone Number:	
Fax Number:	
5.	Registration Details:

a) Audited Financial Statement Attachment/Income Tax Returns (Last ____ years)

Yes	No
-----	----

b) Details of Experience (Last ____ Years)

(i)	Similar Project (Agency/Department)	Item Name
(ii)	Value of total Projects/Tenders/POs	Amount

c) Staff Detail and last month Payroll

Yes	No
-----	----

7.4. General Information Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

	Particulars			
Company Name				
Abbreviated Name				
National Tax No.			Sales Tax Registration No	
PRA Tax No.				
No. of Employees			Company's Date of	
			Formation	

*Please attach copies of NTN, GST Registration & Professional Tax Certificate

Registered Office Address		State/Province	
City/Town		Postal Code	
Phone		Fax	
Email Address		Website Address	

7.5. Affidavit

[To be printed on PKR 100 Stamp Paper, duly attested by oath commissioner. To be attached with Technical Bid]

Name: _____

(Applicant)

I, the undersigned, do hereby certify that all the statements made in the Bidding document and in the supporting documents are true, correct and valid to the best of my knowledge and belief and may be verified by employer if the Employer, at any time, deems it necessary.

The undersigned hereby authorize and request the bank, person, company or corporation to furnish any additional information requested by the *[name of Procuring Agency]* of the Punjab deemed necessary to verify this statement regarding my (our) competence and general reputation.

The undersigned understands and agrees that further qualifying information may be requested and agrees to furnish any such information at the request of the *[name of Procuring Agency]*. The undersigned further affirms on behalf of the firm that:

- (i) The firm is not currently blacklisted by the Procuring Agency.
- (ii) The documents/photocopies provided with Bid are authentic. In case, any fake/bogus document was found at any stage, the firm shall be blacklisted as per Law/ Rules.
- (iii) Affidavit for correctness of information.

[Name of the Contractor/ Bidder/ Supplier] undertakes to treat all information provided as confidential.

Signed by an authorized Officer of the company

Title of Officer: _____

Name of Company: _____

Date: _____

7.6. Performance Guarantee Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

To,

University of Narowal, Narowal.

WHEREAS (Name _____ of _____ the _____ Contractor/ _____ Supplier) _____ hereinafter called "the Contractor" has undertaken, in pursuance of "INVITATION TO BID FOR THE **"PROCUREMENT OF LAB CHEMICALS FOR UNIVERSITY OF NAROWAL"** procurement of the following:

1. **[Please insert details]**.

(Here in after called "the Contract").

AND WHEREAS it has been stipulated by you in the Contract that the Contractor shall furnish you with a bank guarantee by a scheduled bank for the sum specified therein as security for compliance with the Contractor's performance obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor a Guarantee;

THEREFORE WE hereby affirm that we are Guarantor and responsible to you, on behalf of the Contractor, up to a total of _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract, and without cavil or argument, any sum or sums as specified by you, within the limits of _____ (Amount of Guarantee) as aforesaid without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until _____ day of _____, 20____, or for One Year after the rectification of the Defects, whichever is later.

[NAME OF GUARANTOR]

Signature _____

Name _____

Title _____

Address _____

Seal _____

Date _____

7.7. Technical Bid Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

Sr. No.	Item name	Brand name with Country of Manufacturer	Make & model	Quantity	Country of Origin	Specifications dimensions
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

Stamp & Signature of Bidder _____

Note:

All above items shall be considered as complete package FOR Narowal basis.

7.8. Contract Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Technical Bid]

THIS AGREEMENT made on the _____ day of _____ 20____ between UNIVERSITY OF NAROWAL of Pakistan (hereinafter called “the Procuring Agency”) on the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called “the Supplier”) on the other part:

WHEREAS the Procuring Agency invited Bids for certain goods and ancillary services, viz., **Procurement of Lab Chemicals for University of Narowal as per** following details:

Sr.	Name of Items	SPECIFICATIONS	Qty.	Unit Rate	Total Price
01	LAB CHEMICALS LOT-01	As Per Technical Specifications	As per Schedule of Requirement	DO NOT FILL THIS COLUMN AT THIS STAGE	DO NOT FILL THIS COLUMN AT THIS STAGE
02	LAB CHEMICALS LOT-02	As Per Technical Specifications	As per Schedule of Requirement		
03	LAB CHEMICALS LOT-03	As Per Technical Specifications	As per Schedule of Requirement		
04	LAB CHEMICALS LOT-04	As Per Technical Specifications	As per Schedule of Requirement		
05	LAB CHEMICALS LOT-05	As Per Technical Specifications	As per Schedule of Requirement		
06	LAB CHEMICALS LOT-06	As Per Technical Specifications	As per Schedule of Requirement		

and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of [contract price in words and figures] (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Bid Form and the Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Procuring Agency’s Notification of Award.
 - (f) Contract agreement
 - (g) Complete Bidding document
3. In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the goods and services and to rectify defects therein in conformity with all respects in accordance with the provisions of the Contract.
4. The Procuring Agency hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the rectification of defects therein, the Contract Price

or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

5. Delivery; Complete delivery should be completed as per given date in the supply/Work Order, in case of late delivery, late delivery charges @ 3% per month will be recovered.

6. Place of Delivery: The Contractor will be responsible for the safe delivery including transportation/ loading/unloading/handling etc., at its own cost at University of Narowal, Narowal.

7. Marks & Packaging: The consignment should be marked for "Secretary, Central Purchase Committee, University of Narowal, Narowal-Pakistan".

8. Invoicing: Invoice should be accompanied with delivery challan, invoice and general sales tax invoice stating complete description.

9. Payment Terms: The contract price is on FOR University of Narowal basis and the payment shall be made through cross cheque after the inspection of material and satisfactory report of end user.

10. Replacement: The item found not in accordance to the specifications, as per your technical quotation, will be returned and the Contractor must lift the same from the premises of UON at its own cost. The Supplier shall replace the short supplied/ wrong supplied/Misprinted/ faulty or defective material free of additional charges.

11. Black Listing: Under rule 21(1) of Punjab Procurement Rules 2014, University management may, for a specified period, debar the supplier or contractor from participating in any public procurement process, if the bidder or contractor has:

- (i) acted in a manner detrimental to the public interest or good practices.
- (ii) consistently failed to perform his obligation under the contract.
- (iii) not performed the contract up to the mark.
- (iv) indulged in any corrupt practice.

IN WITNESS WHEREOF, the parties here to have put their respective hands to this agreement on the date and the year written above in the presence of the witnesses mentioned below, as token of having accepted the terms and conditions as laid in this contract as well as in work order.

For

CONTACTOR/ SUPPLIER

University of Narowal

(Signature, Name & CNIC)

Witness 01
(Signature, Name & CNIC)

Witness 02
(Signature, Name & CNIC)

7.9. Financial Bid Form/Price Schedule

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Financial Bid]

Sr. No.	Item name	Specifications/ dimensions	Country of Origin	Brand name, make & model	Unit price (inclusive of all taxes & duties etc.)	Quantity	Total price (inclusive of all taxes & duties etc.)	Total price (in words)
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
Total price in figures								
Total price in words								

Note:

In case of difference between unit price and total price, unit price shall prevail and total price shall be “final”. *(Please refer ITB clause 2.5.6).*

In case of difference between amount in “words” and amount in “figures”, amount in “words” shall be considered final.

All above items shall be conspired as complete package FOR Narowal basis.

Stamp & Signature of Bidder _____

7.10. Bid Security Form

[To be signed & stamped by the Bidder and reproduced on the letter head. To be attached with Financial Bid]

Whereas *[name of the Bidder]* (hereinafter called "the Bidder") has submitted its Bid dated *[date of submission of Bid]* for the supply of *[name and/or description of the goods]* (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE *[name of bank]* of *[name of country]*, having our registered office at *[address of bank]* (hereinafter called "the Bank"), are bound unto *[name of Procuring Agency]* (hereinafter called "the Procuring Agency") in the sum of for which payment well and truly to be made to the said Procuring Agency, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ____ day of _____ 20____.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its Bid by the Procuring Agency during the period of Bid validity:
 - (a) fails or refuses to execute the Contract Form, if required; or
 - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the Instructions to Bidders;

we undertake to pay to the Procuring Agency up to the above amount upon receipt of its first written demand, without the Procuring Agency having to substantiate its demand, provided that in its demand the Procuring Agency will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including thirty (30) days after the period of Bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

[Signature of the bank]

Section VIII- Check List

[To be signed and stamped and presented on Bidder's letter head pad]

The provision of this checklist is essential prerequisite along with submission of tenders (with technical proposal).

Sr. #	Detail	Responsive	Non-responsive
1	2% Bid Security of estimated cost of articles / items given by the department. The Bid security must be submitted with technical proposal.		
2	All required samples (if demanded) have been submitted in University of Narowal sample store.		
3	Active Registration with Income Tax Authorities (National Tax Number NTN) at least three years old		
4	Copy of active Registration with Sales Tax Authorities (STRN)		
5	Copy of active Registration (Professional Tax Certificate)		
6	Technical Bid Form (as per form 7.7 of Bidding documents) on letter head of the firm duly signed and stamped.		
7	Financial Bid Form (as per form 7.1 of Bidding documents) on letter head of the firm, duly signed and stamped.		
8	Bid Security Form (as per form 7.10 of Bidding documents) on letter head of the firm, duly signed and stamped.		
9	Performance Guarantee Form (as per form 7.6 of Bidding documents) on letter head of the firm, duly signed and stamped.		
10	General Information Form (as per form 7.4 of Bidding documents) on letter head of the firm duly signed and stamped.		
11	Affidavit (as per form 7.5) on non-judicial Stamp Paper of Rs. 100/- (i) The firm is not currently blacklisted by the Procuring Agency. (ii) The documents/photocopies provided with Bid are authentic. In case of any fake/bogus document look at any stage. They shall be black listed as per Rules / Laws. (iii) Affidavit for correctness of information. Affidavit for correction of information Form (as per form of Bidding documents) on letter head of the firm, duly signed and stamped.		
12	i. Work order / supply order / purchase order of		

	<p>previous relevant experience <i>[where applicable]</i>.</p> <p>ii. Company profile. Staff list along with location and address <i>[where applicable]</i>.</p> <p>iii. Income Tax Returns/Audited Financial Statement, National tax number Certificate, General Sale Tax Number Certificate (last 03 year). <i>[where applicable]</i></p> <p>iv. Bidders profile Form (as per form 7.3 of Bidding documents) on letter head of the firm, duly signed and stamped.</p>		
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Stamp & Signature of Bidder _____