



**BIDDING DOCUMENT**  
*Single Stage One Envelope Procedure*  
*Rate Contract*

**PROCUREMENT OF REAGENTS / KITS / CHEMICALS /  
GLASSWARE / CONSUMABLES & DISPOSABLE ITEMS  
FOR DOW RESEARCH INSTITUTE OF BIO  
TECHNOLOGY & BIO MEDICAL SCIENCES (DRIBBS)**

**Tender No. DUHS/DP/2016/04**

**Ref. No. DP/2016/04**

**The deadline for bid submission is 15<sup>th</sup> April, 2016 up to 11:00 a.m.  
The Bids will be opened on 15<sup>th</sup> April, 2016 at 11:30 a.m.**

# **INSTRUCTIONS TO BIDDER (ITB)**

## **INTRODUCTION**

### **1. SOURCE OF FUND**

- 1.1. The Procuring Agency has allocated fund for the eligible payments under the contract for which these bidding documents are issued.

### **2. ELIGIBLE BIDDERS**

- 2.1. This Invitation for Bids is open to all original Manufacturers, within Pakistan and abroad, and their Authorized Agents/Importers/Bidders/Distributors.
- 2.2. 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 University to provide consulting 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 for Bids.
- 2.3. Government-owned enterprises may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Federal Govt. or Provincial Govt.
- 2.4. Bidder should not be eligible to bid if they are under a declaration of ineligibility for corrupt and fraudulent practices issued by any Government organization in accordance with sub **clause 36.1**.

### **3. ELIGIBLE GOODS**

- 3.1. All goods and related services to be supplied under the contract shall have their origin in eligible source countries and all expenditures made under the contract shall be limited to such goods and services. For this purpose, the term "Goods" includes any Goods that are the subject of this Invitation for Bids and the term "Services" shall include related services such as transportation, insurance etc. The "Origin" mean the place where the goods are mined, grown, or produced, or the place from which the related services are supplied. Goods are produced through manufacturing or processing, or substantial and major assembly of ingredients / components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

## **THE BIDDING PROCEDURE**

### **4. SINGLE STAGE – ONE ENVELOPE PROCEDURE**

- 4.1. Bids shall be accepted under the single stage one envelope procedure defined in the SPP Rules 2010 at **Clause 46(1)**.
- 4.2. The bids shall be opened in the presence of bidders or their authorized representative at the prescribed time, date and venue.
- 4.3. The bids shall be evaluated in accordance with the specified evaluation criteria.

## **THE BIDDING DOCUMENTS**

### **5. CONTENTS OF BIDDING DOCUMENTS**

- 5.1. The Bidding Documents:  
In addition to the Invitation for Bids (IFB) / Tender Notice, the bidding documents include:
  - i) Instruction to Bidders (ITB)
  - ii) General Conditions of Contract (GCC);
  - iii) Special Conditions of Contract (SCC);
  - iv) Schedule of Requirement

- v) Technical Specification
- vi) Contract Form
- vii) Manufacturer's Authorization Form
- viii) Performance Guarantee Form;
- ix) Bid Form
- x) Certificate
- xi) Invitation for Bids (IFB)
- xii) Price Schedule (Format)

- 5.2. In case of discrepancies between the Invitation for Bids (IFB) and the Bidding Documents, the Bidding Documents shall take precedence.
- 5.3. The bidders are expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish complete information required in the bidding documents or to submit a bid not substantially responsive to the bidding documents may result in rejection.

## **6. AMENDMENT OF BIDDING DOCUMENTS**

- 6.1. At any time prior to the deadline for submission of bids, the Procuring Agency may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the bidding documents by amendment.
- 6.2. All prospective bidders that have received the bidding documents will be notified the amendment(s) in writing or by cable which will be binding on them.
- 6.3. In order to allow prospective bidders reasonable time to take the amendment(s) into account in preparing their bids, the Procuring Agency may, at its discretion, extend the deadline for submission of the bids.

## **7. LANGUAGE OF BID**

- 7.1. Preparation of Bids  
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 in English. Supporting documents and printed literature furnished by the bidder may be in another language provided these are accompanied by an accurate translation of the relevant passages in English, in which case for purposes of interpretation of the Bid, the translated version shall prevail.

## **8. DOCUMENTS COMPRISING THE BID**

- 8.1. The bid prepared by the Bidder shall comprise the following:
  - (a) Bid Form;
  - (b) Price Schedule
  - (c) Documentary evidence to the effect that the bidder is eligible to bid and is qualified to perform the Contract if its bid is accepted;
  - (d) Documentary evidence to the effect that the goods to be supplied by the bidder are eligible goods as defined in **Clause-3** and conform to the bidding documents; and
  - (e) Bid Security

## **9. BID PRICES**

- 9.1. The prices and discounts quoted by the Bidder in the Bid Form and in the Price Schedules shall conform to the requirements specified below.
- 9.2. All items in the Schedule of Supply must be listed and priced separately in the Price Schedule. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. Items not listed in the Price Schedule shall be assumed not to be included in the Bid.
- 9.3. The price to be quoted in the Bid Form shall be the total price of the Bid excluding any discounts offered.

- 9.4. The Bidder shall quote any unconditional discounts and the methodology for their application in the Bid Form.
- 9.5. Bidder, if desire, to offer any good on Free of Cost (FOC) basis, or as a Donation or as Special discount. He may clearly indicate so in the Bid Form and Price Schedule.
- 9.6. Prices proposed in the Price Schedule Forms for Goods, shall be disaggregated, when appropriate as indicated in this sub-clause. This disaggregation shall be solely for the purpose of facilitating the comparison of Bids by the Procuring Agency. This shall not in any way limit the Procuring Agency's right to contract on any of the terms offered:
- (a) Price Schedule for Goods offered from within the Procuring Agency's country:
- (i) quoted on DDP basis, including all customs duties and sales and other taxes already paid or payable on the components and raw material used in the production / manufacture or assembly of goods, or on the previously imported goods of foreign origin;
- (ii) If there is no mention of taxes, the offered/quoted price will be considered as inclusive of all prevailing taxes/duties. The benefit of exemption from or reduction in the GST or other taxes during the contract period shall be passed on to the Procuring Agency; and
- (iii) the total price for the item.
- 9.7. Final Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. A Bid submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected. However, any tax imposed by the Govt. (Federal / Provincial) the BIDDER will be responsible for the payment of the same.
- 9.8. If it is proved during the contract period that Bidder has supplied the contracted item(s) to any other purchasing agency in Pakistan at the prices lower then the contracted prices, the balance amount will be deducted from the bill and / or security deposit of the contractor.

## **10. BID CURRENCIES**

- 10.6. Prices shall be quoted in Pakistani Rupees for goods offered within the Procuring Agency's country Delivery Duty Paid (DDP Basis).

## **11. DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATION**

- 11.1. The documentary evidence of the Bidder's qualification 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 supply goods under the contract which the Bidder did not produce / manufacture or otherwise produce, the Bidder has been duly authorized by the goods' Producer / Manufacturer or producer to supply the goods in the Procuring Agency's country;
- (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 the Procuring Agency's country, the Bidder maintenance, repair, and spare parts stocking obligations prescribed in the Conditions of Contract and / or Technical Specification; and
- (d) that the Bidder meets the evaluation & qualification criteria of bidding document.

## **12. DOCUMENTS ESTABLISHING GOODS' ELIGIBILITY AND CONFORMITY TO BIDDING DOCUMENTS**

- 12.1. Pursuant to ITB Clause 8, the Bidder shall furnish, as part of its, bid documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.
- 12.2. The documentary evidence of the eligibility of the goods and services shall consist of a statement in the Price Schedule 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.

- 12.3. The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings, and data, and shall consist of:
- (a) a detailed description of the essential technical and performance characteristic of the goods; and
  - (b) an item-by-item commentary on the Procuring Agency's Technical specifications demonstrating substantial responsiveness of the goods and services to those specifications, or a statement of deviations and exceptions to the provisions of the Technical Specification.
- 12.4. For purposes of the commentary to be furnished pursuant to ITB **Clause 12.3(b)** above, 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. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its bid, provided that it demonstrates to the Procuring Agency's satisfaction that the Technical Specifications.

### **13. BID SECURITY**

- 13.1. The Bidder shall furnish, as part of its proposal, a Bid Security in the amount and currency specified in the bidding document should not be less than 2% of total bid. Unsuccessful bidder's Bid Security will be returned soon after approval of the successful Bidder. The successful Bidder's Bid Security will be discharged upon signing of contract and furnishing the Performance Security bond, duly guaranteed by a scheduled bank.
- 13.2. The Bid Security shall remain valid for a period of at least 4 months or more specified in this Bidding Document.
- 13.3. The Bid Security is required to protect the Procuring Agency against the risk of Bidder's conduct, which would warrant the Security's forfeiture;
- 13.4. The Bid Security may be forfeited:
- (a) if a Bidder withdraws its bid during the period of bid validity; or
  - (b) in the case of a successful Bidder, the Bidder fails:
    - (i) to sign the Contract after acceptance of award; or
    - (ii) to complete the supplies in accordance with the General Conditions of Contract.

### **14. BID VALIDITY**

- 14.1. Bids shall remain valid for 90 days from the date of its opening. A bid valid for a shorter period shall be treated as non-responsive and rejected.
- 14.2. The Procuring Agency shall ordinarily be under an obligation to process and evaluate the bids within the stipulated bid validity period. However, for any reasons to be recorded in writing (or by e-mail/fax), if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.
- 14.3. The Procuring Agency will sign a Rate Contract with successful evaluated responsive bidders(s), which will be valid for 12 months (extendable for further 6 months with mutual consent).

### **15. ALTERNATIVE BIDS**

- 12.1 Bidders shall purchase separate tender documents and furnish original Tender Purchase Receipt and prescribed Bid Security for each alternate offer in case they want to submit alternate offer for any item. All the bids with alternate offer without separate Tender Purchase Receipt (original) and prescribed Bid Security are suppose to be rejected.

### **16. SEALING AND MARKING OF BIDS**

- 16.1. The envelopes shall:

- a) bear the name and address of the Bidder;
- b) bear the specific identification Name and Number of this bidding process indicated in the Bidding Document; and
- c) Bear the Procuring Agency's name and address i.e. Dow University of Health Sciences, Procurement Directorate, Digital Library Block, OJHA Campus, Karachi and a statement: "DO NOT OPEN BEFORE," the time and date specified in (Section-H) IFB.

16.2. If all envelopes are not sealed and marked as required, the Procuring Agency will assume no responsibility for the misplacement or premature opening of the bid.

## **17. DEADLINE FOR SUBMISSION OF BIDS**

17.1. Bids must be submitted by the bidders and received by the Procuring Agency at the specified address not later than the time and date specified in IFB (Section-H).

17.2. The Procuring Agency may, at its convenience, extend this deadline for submission of bids by amending the bidding documents in which case all rights and obligations of the Procuring Agency and the Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

## **18. LATE BID**

18.1. Any bid received by the Procuring Agency after the deadline for submission of bids prescribed by the Procuring Agency shall not be entertained and returned unopened to the bidder.

## **19. WITHDRAWAL OF BIDS**

19.1. The Bidder may after its submission withdraw prior to the expiry of the deadline prescribed for submission of bids.

## **20. OPENING OF BIDS BY THE PROCURING AGENCY**

20.1. The Procuring Agency will open the bids in the presence of Bidders or their representatives who choose to be present at the time of bid opening on the date, time and place specified in bidding document. The bidder and their representatives who are present shall sign the Attendance Sheet evidencing their attendance.

20.2. The bidders' names, item(s) for which they quoted their rate(s) and bid prices, discounts (if any), and the presence or absence of requisite Bid Security and such other details as the Procuring Agency, may consider appropriate, will be announced on the prescribed date, time and venue.

20.3. Any financial bid found without the prescribed bid security shall be straightaway rejected.

## **21. CLARIFICATION OF BIDS**

21.1. During the process of evaluation of the bids, the Procuring Agency may ask a Bidder for any clarifications of its bid. The request for such clarifications and the response shall be in writing. However, no change in the quoted price or substance of the bid shall be sought, offered, or permitted.

## **22. PRELIMINARY EXAMINATION**

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

22.2. Arithmetical errors in a financial bid will be rectified in the following manner:  
(i) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected.

- (ii) If there is a discrepancy between words and figures, the amount in words will prevail.
  - (iii) If the Bidder does not accept the correction of the error, its bid will be rejected.
- 22.3. The Procurement Committee may waive any minor infirmity, non-conformity, or discrepancy in a bid if in their view, it does not constitute some material deviation, provided that such waiver does not prejudice or affect the relative ranking of any Bidder.
- 22.4. If a bid is found substantially non-responsive, it will be rejected by the Procuring Agency. It can not subsequently be made responsive by the Bidder by correction of the non-conformity / discrepancy.

## **23. EVALUATION & COMPARISON OF BIDS**

- 23.1. The Procuring Agency will evaluate and compare the bids, which have been determined to be substantially responsive.
- 23.2. The Procuring Agency's evaluation of technical proposal / bid shall be on the basis of previous performances, previous test reports, inspection of plant/factory/premises (if not previously conducted), previous experience, financial soundness, and such other details as the Procuring Agency, at its discretion, may consider appropriate, shall be considered. However, the evaluation of financial proposal shall be on the basis of price inclusive of prevailing taxes and duties in pursuant to instruction to bidders.
- 23.3. All Bids shall be evaluated in accordance with the evaluation criteria and other terms & conditions set forth in these bidding documents.
- 23.4. The Bids will be evaluated on the basis of Prescribed Evaluation Criteria in this bidding document. However, the financial proposal will be evaluated on the basis of price inclusive of prevailing taxes and duties and Bid Security, being major factor, without ignoring the other relevant conditions as well.

## **24. EVALUATION CRITERIA**

### **24.1. Scope**

Local Handling and Inland Transportation: The goods will be delivered on DDP basis at Consignee's End. The bidder has to bear the risk and costs, including duties, taxes and other charges of delivering the goods thereto, cleared for importation.

### **24.2. Multiple Contract**

The Procuring Agency will evaluate and compare bids on Itemized basis or on the basis of a group or a combination of groups or as total of groups in order to arrive at the least cost combination for the Procuring Agency by taking into account discounts offered by Bidder in case of award of multiple contracts.

### **24.3. Technical Criteria**

- i. GST Registration Certificate
- ii. NTN Certificate
- iii. Professional Tax Certificate
- iv. Detailed profile of the company and relevant experience
- v. Detailed turn-over of at least three years
- vi. Validity of Bid
- vii. Bid Security
- viii. Fulfillment of all the tender terms & conditions
- ix. Authorization Letter from Manufacturer of goods
- x. Price Schedule
- xi. Delivery Schedule offered in the bid

- xii. Evidence regarding Registration of goods with concerned authority (where applicable).
- xiii. Valid Manufacturing License if manufacturer is based in Pakistan.
- xiv. Goods must be compatible with the existing Equipment on which Test will be performed and Conforming technical specifications as specified in (Section-B) (Technical Specification),
- xv. Valid Manufacturing License is the mandatory requirement of the bid (where applicable).
- xvi. The cost of all quantifiable deviation or deficiencies from the Technical requirements as specified in (Section-B) Technical Specifications shall be evaluated. The Procuring Agency will make its own assessment of the cost of these deviations or deficiencies for the purpose of ensuring fair comparison of Bids. Any major quantifiable deviations from the technical requirement shall not be permitted.
- xvii. The Undertaking must be enclosed with the bid that the shelf life would not less than 80% in case of Imported and 85% in case of indigenous from the date of delivery by the Bidder to the Procuring Agency.
- xviii. An affidavit on legal stamp paper of Rs.100/- to the effect that the Bidder has not been blacklisted in the past on any ground by any Government (Federal or Provincial), a local body or a public sector organization. The Bidder will be debarred from the bidding process for submitting a false statement.
- xix. The Bidder must indicate the Trade name, Generic name, Registration number, Packing details, Country of origin and name of the Manufacturer of each offered good in the relevant price schedule.
- xx. Submission of Samples:
  - (a) The Bidder must submit the sample(s) of quoted items on request of Procurement Committee for physical verification.
  - (b) The sample(s) must be from the most recent stocks, supported by a valid warranty in the name of the Procuring Agency.

#### **24.4. Quality Assurance**

- (a) In the case of manufacturer of the goods, the bidder should provide a valid license issued by the regulatory authority in the country of manufacture to supply the goods as well as fill the Company Profile Performa attached in this Bidding Documents should be duly signed and stamped and submitted at the specified time of bid submission.
- (b) In the case of a bidder who does not manufacture the goods, the bidder should provide evidence of being duly authorized by the manufacturer, meeting the criteria under this document to supply the goods as well as fill the Sole Agent Performa attached in this Bidding Documents should be duly signed and stamp and submitted at the specified time of bid submission.
- (c) GMP & CGMP Certificate issued by the competent authority during last 03 years (where applicable).
- (d) The Bio-availability / Bio-equivalence report should be submitted or a certificate of analysis carried by the authorized Drugs Testing Laboratories. Copy of quality assurance certificate for each batch must be provided along with goods (where applicable).
- (e) The goods of sub-standard or low quality material will not be considered and rejected as non-responsive

#### **24.5. Economic Criteria**

- i) Deviations from the Terms of Payment shall not be permitted.
- ii) Deviations from the Delivery and Completion Schedule shall not be permitted.

#### **24.6. Margin of Preference**

In supply, delivery and installation contracts in which there are a number of items of Goods, a margin of preference shall be granted to eligible domestically produced Goods in accordance with the PPRA Rules.

- i) The preference margin shall not be applied to the whole package but only to the eligible domestically produced Goods.
- ii) No margin of preference shall be applied to any associated services or works included in the package; and
- iii) Bidders shall not be permitted or required to modify the mix of local and foreign Goods after id opening.

#### **25. QUALIFICATION CRITERIA**

Each bid shall comprise one Single Envelope containing the financial proposal and required the following information;

##### **25.1. Size of Operation**

The Bidder should have an average annual turnover of Rs. 10 million (defined as the total payments received by the bidder for contracts completed or under execution) over the three-year period ending on the deadline for bid submission.

##### **25.2. Contractual Experience**

Minimum 5 numbers of Contracts successfully completed as main Bidder within the last THREE years. Value, Nature and Complexity of these contracts should be comparable to the contract to be let.

##### **25.3. Production Capacity**

Manufacturers' minimum supply and / or production capacity should be comparable to the contract to be let, to assure that the bidder is capable of supplying the type, size and quantity of goods required.

##### **25.4. Financial Position**

Soundness of the Bidder's financial position showing long term profitability demonstrated through audited annual financial statements / balance sheet / income statement / income tax return form / bank statement / bank certificate / Proof of GST paid for the last three years.

##### **25.5. Litigation History**

The Bidder should not be involved in any litigation with DUHS in last three years otherwise their bid shall not be considered and rejected straight away and will not be technically evaluated.

#### **26. CONTACTING THE PROCURING AGENCY**

26.1. 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 contract is awarded. If any bidder wishes to bring additional information to the notice of the Procuring Agency, it may do so in writing.

26.2. Any direct or indirect effort by a bidding firm to influence the Procuring Agency during the process of selection of bidder or award of contract may besides rejection of its bid result into its disqualification from participation in the Procuring Agency's future tenders.

#### **27. REJECTION OF BIDS**

27.1. Notwithstanding anything stated here-before after the Procuring Agency may reject any request, communicate to a bidder, the ground for its rejection, but shall not be under obligation to justify those grounds.

## **28. RE-BIDDING**

- 28.1. If the Procuring Agency has rejected all bids, it may move for a re-bidding or may seek any alternative method of procurement under the provisions of the Public Procurement Rules, 2010 (as amended up to date).

## **29. ANNOUNCEMENT OF EVALUATION REPORT**

- 29.1. The Procuring Agency will announce the Evaluation Report and the resultant acceptance or rejection of bids at least 7 days prior to the award of procurement contract.

## **30. ACCEPTANCE OF BID AND AWARD CRITERIA**

- 30.1. The bidder with lowest evaluated bid under clause 23, 24 & 25, if not in conflict with any other law, rules, regulations or policy of the Government, will be awarded the contract within the original or extended period of bid validity.

## **31. PROCURING AGENCY'S RIGHT TO VARY QUANTITIES**

- 31.1. The Procuring Agency reserves the right to increase or decrease the quantity of stores originally specified in the Price Schedule without any change in unit price or other terms and conditions.

## **32. LIMITATIONS ON NEGOTIATIONS**

28.1 The Procuring Agency reserves the right to hold negotiation of rates, delivery schedule or completion schedule for all the items or any item.

32.1. Negotiations will not be used to change substantially:

- i) The technical quality or details of the requirement, including the tasks or responsibilities of the bidder or the performance of the goods;
- ii) The terms and conditions of the Contract and;
- iii) Anything affecting the crucial or deciding factors in the evaluation of the proposals/tenders and/or selection of successful bidder.

## **33. NOTIFICATION OF AWARD**

- 33.1. Prior to the expiry of the original or extended period of bid validity, the successful bidder will be informed in writing of acceptance of its bid by the Procuring Agency.

## **34. SIGNING OF CONTRACT**

34.1. While conveying acceptance of bid to the successful bidder, the Procuring Agency will provide the bidder Contract Form provided in the bidding documents, incorporating all points of agreement between the Parties.

34.2. Ten days after the official announcement of the award, both successful Bidder and the Procuring Agency will sign and date the contract on legal stamp paper with stamp service charges as per the article 22-A (Contract) of the schedule of stamp act 1899. The Procuring Agency will issue Purchase Order as soon as the Contract is signed. In case the successful Bidder, after completion of all codal formalities, shows inability to sign the Contract or fails to deliver the goods after signing the Contract, its Bid Security shall be forfeited. The firm may also be blacklisted from taking part in any future bidding of Procuring Agency for a period up to 5 years. In such a situation, the Procuring Agency may make the award to the next lowest evaluated bidder or move for re-tender.

## **35. PERFORMANCE SECURITY**

- 35.1. On the day signing of the Contract, the successful Bidder shall furnish Performance Security (not less than 5% of total contract). Upon submission of Performance Security the

Bid Security will be returned to the Bidder. The amount of Performance Security is specified in the Special Condition of Contract.

- 35.2.** Failure of the successful Bidder to comply with any of the requirements specified in this document shall be considered as sufficient grounds for the annulment of the award and forfeiture of the Bid Security, in which event the Procuring Agency may make the award to the next lowest evaluated Bidder at the risk and cost of the former.

### **36. CURRUPT OR FRAUDULENT PRACTICES**

36.1.

- (a) The Procuring Agency and the Bidder/Manufacturer/Contractors are expected to observe the highest standard of ethics during the procurement and execution of the Contract. In pursuance of this policy, the relevant terms/phrases as may apply are defined below:
- (i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in Contract. In pursuance of this policy, the relevant terms/phrases as may apply are defined below:
  - (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of Contract to the detriment of the Procuring Agency, and includes collusive practice 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;
- (b) the Procuring Agency will take all possible administrative/legal measures if it is found that the Bidder recommended for award was / is engaged in corrupt or fraudulent practice(s) before or after signing of the contract resulting into the conviction of the proprietor under criminal case besides blacklisting of the firm either indefinitely or for such period of time as may be determined by the Procuring Agency.
- (c) Will declare a firm ineligible, either indefinitely or for a stated period of time, for the award of Contract if it, at any time, determines that the firm has engaged in corrupt or fraudulent practices in competing for or in executing a Contract.



# Dow University of Health Sciences

Procurement Directorate, Prof. Masood Hameed Khan Library,  
OJHA Campus – Karachi

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**TENDER No. DUHS/DP/2016/04, Ref: DP/2016/04 Dated 30-03-2016, Procurement of Reagents / Kits / Chemicals / Glassware / Consumables & Disposable Items For Dow Research Institute Of Bio Technology & Bio Medical Sciences (DRIBBS) .**

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**Date of submission of Bids: 21<sup>st</sup> April, 2016 at 11:00 a.m.**

**Date of opening of Bids: 21<sup>st</sup> April, 2016 at 11:30 a.m.**

**At Procurement Directorate, Prof. Masood Hameed Khan, OJHA Campus, Karachi.**

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## **GENERAL CONDITIONS OF CONTRACT (GCC)**

1. Dow University of Health Sciences (DUHS), Karachi, invites sealed bids **for the goods reflected in the Section-B**, from the manufacturers, authorized Importers, Sole Distributors etc. regarding **RATE CONTRACT** on DDP basis for the **Procurement Of Reagents / Kits / Chemicals / Glassware / Consumables & Disposable Items For Dow Research Institute Of Bio Technology & Bio Medical Sciences (DRIBBS)**. (Invitation for Bid is attached as Section-J)
2. The General Conditions shall apply to the extent that they are not inconsistent with provisions of other parts of the Contract.
3. The goods supplied under this Contract shall conform to the standards specified in the Technical Specification (Section-B).
4. The Bidder 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 Bidder in the performance of the Contract. Disclosure to such employed person shall be made in confidence and shall extend only, as far as may be necessary, to such performance and not further or otherwise.
5. The Bids shall be evaluated in accordance with the specified evaluation criteria.
6. The inspection committee constituted by the Procuring Agency shall inspect the quantity, specifications of goods or any other fact showing the satisfaction of the delivered items.
7. Any document, other than the Contract itself, shall remain the property of the Procuring Agency and shall be returned (all copies) on completion of the Bidder's performance under the Contract.
8. The Bidder 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 country.
9. The Bidder shall permit the Procuring Agency to inspect the Bidder's accounts and records relating to the performance of the Supply.
10. The Supplier shall provide the requisite samples (free of cost) of the product to purchase.
11. The Bidder shall arrange such transportation of the goods as is required to prevent them from damage or deterioration during transit to their final destination.
12. The Bidder should submit the offer in Duplicate. One ORIGINAL and one COPY.
13. To ensure storage arrangements for the intended supplies, the Bidder shall inform the Procuring Agency at least two weeks prior to the arrival of the consignments at its store/warehouse. However, in case no space is available at its store/warehouse at the time of supply, the Procuring Agency shall, seven days prior to such a situation, inform the Bidder, in writing, of the possible time-frame of availability of space by which the supplies could be made. In case the Bidder abides by the given time frame, he will not be penalized for delay.
14. 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.
15. For the purpose of inspections and tests of goods, the Bidder shall inform the Procuring Agency at least 15 working days in advance when all or any specific consignment / installment of goods is manufactured and ready for inspection. The inspection team shall inspect the quantity, specifications of goods and send samples from each batch to DTL for quality test (if necessary).

The Bidder shall furnish all reasonable facilities and assistance including access to drawings and production data to the inspectors at no charge to the Procuring Agency. However, if the Bidder proves an undue delay in conduct of inspection on the part of Procuring Agency, the Bidder shall not be liable for penalty on account of that delay. The cost of such lab tests shall be borne by the Manufacturer / Bidder.

16. Soon after the supply, the samples for tests, the goods/stores shall be sealed for test/analysis from the DTL (if necessary).
17. The Bidder will be responsible for free replacement of stocks if the same is not found to be of the same specifications as required in the Invitation of Bid / Substandard / Spurious / Misbranded / Expired. Moreover, it will replace the unconsumed expired stores without any further charges.
18. The Bidder shall not assign, in whole or in part, its obligations to perform to another party under this Contract, except with the Procuring Agency's prior written consent.
19. The goods supplied under the Contract shall be delivered to Procuring Agency after the payment of all taxes and customs duty and other charges etc. Risk will be transferred to the Procuring Agency only after the delivery of these goods has been made to the Procuring Agency. Hence, payment of insurance premium, if any, shall be the responsibility of the Bidder.
20. If the goods supplied are found during physical examination / inspection to be against the required specifications, approved samples, etc. even if it is of standard quality, the Procuring Agency may reject the goods, and the Bidder shall either replace the rejected goods or arrange alterations necessary for rectification of observation, to meet the required specifications free of cost. Replacement in lieu of the rejected supplies must be completed within 20 days from the date of communication of decision to the Manufacturer / Bidder by the concerned authority. In case after replacement or alteration, the Inspection Committee again declare the item as of against the required specifications, the supply would completely be rejected and the proportionate amount of performance security of the concerned installment would be forfeited to the government account and the firm shall be blacklisted minimum for two years.
21. The Rate Contract will be valid for 12 Months Extendable for six months or till the finalization of new contract.
22. The Bidder shall arrange such transportation / cold chain maintenance of the goods as is required to prevent their damage or deterioration during transit to their destination.
23. The goods shall be supplied on "DDP" basis at the Dow University of Health Sciences, Karachi as per Schedule of Requirements on the risk and cost of the Bidder. Transportation including loading/unloading of goods shall be the responsibility of the Bidder.
24. The bidder will be required to provide to the Procuring Agency incidental services the cost of which should be included in the total bid price.
25. Goods shall have the shelf life not less than 80% incase of Imported and 90% incase of Indigenous from the date of delivery the Bidder to Procuring Agency.
26. The Procuring Agency shall promptly notify the Bidder in writing of any claims arising out of this warranty.
27. Delivery of the goods shall be made by the Bidder in accordance with the time schedule prescribed by the Procuring Agency in the Schedule of Requirement / Contract Award.
28. Any undue delay by the Bidder in the performance of its delivery obligations shall render it liable to the imposition of liquidated damages.
29. In case of late delivery, even for reasons beyond control, penalty will be imposed upon the Bidder / Producer / Manufacturer. The Procuring Agency may consider termination of the Contract in case there is an unusual delay in the delivery of the goods whereby the ongoing activity is likely to be affected seriously.
30. The bidder shall not be liable for forfeiture of its Performance Guaranty/Bid Security, or termination / blacklisting for default if and to the extent that this delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure. For the purposes of this Clause Force Majeure means an act of God or an event beyond the control of the Bidder and not involving the Bidder's fault or negligence directly or indirectly purporting to mal-planning, mismanagement and /or lack of foresight to handle the situation. Such event may include but are not restricted to acts of the Procuring Agency in its sovereign capacity, wars or revolutions, fires, floods, earthquakes, strikes, epidemics, quarantine restrictions and freight embargoes. If a Force Majeure situation arises, the Bidder shall promptly notify the Procuring Agency in writing with sufficient and valid evidence of such condition and the cause thereof. The Committee, constituted

- for redressing grievances, will examine the pros and cons of the case and all reasonable alternative means for completion of purchase order under the Contract and will submit its recommendations to the competent authority. However, unless otherwise directed by the Procuring Agency in writing, the Bidder shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek reasonable alternative means for performance not prevented by the force Majeure event.
31. The Procuring Agency and the Bidder shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the Contract.
  32. If after 30 days from the commencement of such informal negotiations, the Procuring Agency and the Bidder have been unable to resolve amicably a Contract dispute either party may require that the dispute be referred to the Arbitrator for resolution through arbitration.
  33. In case of any dispute concerning the interpretation and/or application of this Contract is to be settled through arbitration, the arbitrator to be appointed with the approval of the University's Syndicate. The decisions taken and/or award given by the sole arbitrator shall be final and binding on the Parties.
  34. The goods shall be accompanied by a manufacturer standard warranty / Shelf Life. The Procuring Agency shall promptly notify the bidder in writing of any claims arising out of this warranty.
  35. All bids must be submitted properly sealed envelope addressed to the Director Procurement, Dow University of Health Sciences, OJHA Campus, Karachi duly indicating the Invitation for Bids (IFB) Number, Date & Time of opening of bids as well as name, address and phone number(s) of the bidder.
  36. The quoted Prices should be in Pak Rupees on DDP Karachi basis including all the taxes and other charges (free delivery at consignee's end)
  37. Bidder should quote their firm and final rates inclusive of all the taxes and Misc. Charges (if applicable) in the prescribed Price Schedules attached as (Section-I) (for DDP offer in Pak Rs.)
  38. Any offer not received as per terms and conditions of the Bid Document is liable to be ignored. No offer shall be considered if:
    - i. Received without original bidding document purchase receipt.
    - ii. Received without prescribed 2% Bid Security.
    - iii. Received after the time and date fixed for the bid opening.
    - iv. Price not quoted on the prescribed Price Schedules i.e. (Section-I) and / or (Section-J).
    - v. Received unsigned Bid.
    - vi. Received Ambiguous Bid.
    - vii. Received Conditional Bid.
    - viii. Offer is from a firm blacklisted, suspended or removed from the approved list.
    - ix. Offer is received through telegram.
    - x. Offer received with shorter bid validity period as prescribed in this Bidding Document.
    - xi. Offer not co
    - xii. Informing the technical specifications reflected in (Section-B).
    - xiii. Received without Authority Letter of the Manufacturer (where applicable).
    - xiv. Received without evidence regarding Registration of goods with MOH or Concerned Authority (where applicable).
  39. No over writing, any cutting, crossing etc., appearing in the offer is acceptable.
  40. All the documents should be authenticated / certified (sealed and signed) by the bidder.
  41. The Procuring Agency reserves the right to purchase full or part of the stores.
  42. The Procuring Agency may reject all or any bids subject to the relevant provisions of PPRA Rules.
  43. The Bid Security/Performance Security is liable to be forfeited and the store purchased at bidder's risk and expenses in case;
    - (a) the offer is withdrawn, amended or revised during the validity period of the offer.
    - (b) the contractor fails to execute the contract strictly in accordance with the terms and conditions laid down in the contract.
    - (c) the contractor delays the supplies as per schedule of delivery time.
    - (d) the contractor refuses to deliver the goods after receiving Acceptance or signing of contract in accordance with the terms & conditions laid down in the contract..
  44. The Procuring Agency reserves the right to claim compensation for the loss caused by the delay in the delivery of the stores.

45. Any undue delay by the Bidder in the performance of its delivery obligations shall render it liable to the imposition of liquidated damages.
46. The Procuring Agency may, without prejudice to any other remedy for breach of Contract, by a written notice of default sent to the Bidder, terminate this Contract in whole or in part if:
  - (a) the bidder fails to deliver goods within the period(s) specified in the Schedule of Requirement, or within any extension thereof granted by the Procuring Agency;
  - (b) the Bidder fails to perform any other obligation(s) under the Contract to the satisfaction of the Procuring Agency; and
  - (c) the Bidder, in the judgment of the Procuring Agency, has engaged itself in corrupt or fraudulent practices before or after executing the Contract.
47. The Procuring Agency may at any time terminate the Contract by giving written notice of one month time to the Bidder if the Bidder becomes bankrupt or otherwise insolvent. In that event, termination will be without compensation to the Bidder, provided that such termination will not prejudice or affect any right or remedy which has accrued or will accrue thereafter to the Parties.
48. The Contract shall be written in English language. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in English.
49. This Contract shall be governed by the laws of Pakistan and the courts of Pakistan shall have exclusive jurisdiction.

## **SPECIAL CONDITIONS & INSTRUCTIONS**

1. Bids should be addressed to the Director Procurement, Dow University of Health Sciences, Prof. Masood Hameed Khan Library, OJHA Campus, Karachi.
2. The bids will be evaluated on the basis of Prescribed Evaluation Criteria in this bidding document.
3. The Bid Security shall remain valid for a period of 4 months or more.
4. Bids should be accompanied by BID SECURITY (Not less than 2% of total Bid Amount and not more than PKR 1,000,000/-), in shape of Pay Order / Bank Draft / Call Deposit / Bank Guarantee from any schedule bank in favor of the "DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI" and shall be attached with the bid, without which no bid will be accepted. Please write on back of Bid Security the Name of Bidder and Tender Number.
5. The Bid Security shall be returned to the unsuccessful bidders, within a reasonable period. However, the Bid Security in respect of the successful bidders will be returned after submission of Contract & Performance Security (5% of total contract amount) from any of the scheduled banks. The Performance Guarantee/Security Form is provided in the bidding documents.
6. The goods received in the Dow University of Health Sciences, Karachi from the Bidder will be thoroughly inspected and examine by a Committee to make sure that the goods received conform to the specifications laid down in the tender documents and which have been approved by the Procurement Committee for procurement. The committee will submit its inspection report, any deficiency pointed out by the Committee shall have to be rectified by the Bidder free of cost.

The sample of the goods will be drawn from the supplied goods by the concerned authority for test and analysis purpose under its Act.

The successful bidder shall pay the testing fees directly to the Testing Lab. for the batches to be supplied and should supply extra quantity of good(s) used for testing purpose.

If a sample of a batch of goods is declared in contravention of section 3/23 of its act on the basis of test analysis report or on presence of any foreign particle seen, those will be destroyed and payment will not be made to the supplier. The supplier will be responsible to provide the fresh stock of standard quality within 45 days against the rejected batch. Otherwise amount equivalent to the supplied quantity of defective goods will be deducted from their bill and action will be initiated against the offending bidder according to the Act or terms and condition of the bidding document, whichever is applicable.

### **7. DELIVERY AND DOCUMENTS**

#### **a. For Goods supplied from within the Procuring Agency's country:**

The Bidder shall provide the following documents at the time of delivery of goods to the Store / Warehouse of the Dow University of Health Sciences, Karachi for verification duly completed in all respects:

- (i) Original copies of Delivery Note (Challan) (in duplicate) showing item's description, make, model, Packing, quantity, producing / manufacturing and expiry dates (if any).
- (ii) Original copies of the Bidder's invoices (in duplicate) showing warranty, item's description, make, model, Packing, quantity, per unit cost, and total amount.
- (iii) Original copies of the Sales Tax Invoices (where applicable) in duplicate showing item's description, quantity, per unit cost (without GST), amount of GST and total amount (with GST).
- (iv) Producer's / Manufacturer's or Bidder's warranty certificate.
- (v) Inspection certificate issued by the nominated inspection committee / Bidder's factory inspection report.
- (vi) Certificate of origin.
- (vii) Manufacturer / Importer of goods should submit Lot Release certificate issued by Federal Govt. Analyst National Control Laboratory for Biological (NCLB) (where applicable).
- (viii) Manufacturers & Importers will furnish the Bill of Warranty and Quality Certificate of each batch for ordered goods.

8. The goods supplied under the contract shall be on DDP basis at consignee's end under which risk will be transferred to the Procuring Agency only after it has taken delivery of the goods. Hence insurance coverage is Bidder's responsibility and they must arrange for it.
9. Dispute resolution mechanism to be applied shall be as follows:

In case of any dispute concerning the interpretation and/or application of this Contract is to be settled through arbitration, the arbitrator to be appointed with the approval of the University's Syndicate. The decisions taken and/or award given by the sole arbitrator shall be final and binding on the Parties.
10. In case deliveries are not completed within the time frame specified in the Schedule of Requirement / Contract, a Show Cause Notice will be served on the Bidder which will be following by cancellation of the Contract to the extent of non-delivered portion of installments. No supplies will be accepted and the amount of Performance Guarantee/Security to the extent of non-delivered portion of supplies of relevant installments will be forfeited. If the firm fails to supply the whole installments, the entire amount of Performance Guarantee/Security will be forfeited to the Government Account and the firm will be blacklisted at least for two years for future participation in bids:

The liquidated damage shall be 0.5% per week of part thereof. The maximum amount of liquidated damages shall be 10% of the amount of contract. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, the Procuring Agency shall rescind the contract, without prejudice to other courses of action and remedies open to it.
11. The bidder shall supply the goods as per tender requirement in commercial packing along with complete literature (Leaflet).
12. Labeling and Packing of the goods must be in accordance with Labeling and Packing Rules 1986 of the Drugs Act 1976. The bidder shall supply Drugs/Medicines as per tender requirement in commercial packing along with complete literature (Leaflet).

The following wording/insignia shall be printed in bold letters in prominent manner both in Urdu & English in indelible red color ink on each carton, pack, bottle, strip / blister, tubes, vial / ampoule etc. in case of items supplied by the foreign manufacturer the mentioned condition may be relaxed by the Procuring Agency.

**“NOT FOR SALE”**

**“PROPERTY OF DOW UNIVERSITY OF HEALTH SCIENCES, KARACHI”**

- The rules for labeling and packing shall be followed as per “The Drugs (Labeling and Packing) Rules, 1986”, framed under the Drugs Act, 1976. However, the name of Drug/Medicine (Generic & Brand), equally prominent, should be printed / written in indelible ink both in English and Urdu on the outer cartons and on each Pack, Bottle, Strip / Blister, Tubes etc. Besides the name and principal place of business of the Manufacturer, the drug manufacturing license No., manufacturing date, expiry date, registration no., batch no., retail price, and Urdu version namely, name of drug, dosage and instructions, should also be written on the outer carton and on the most inner container in bold letters. All tablets shall be supplied in aluminum strip / blister pack, Expiry date must be printed on each aluminum strip / blister. The syrup should be supplied in glass/pet bottle with sealed caps as per sample provided at the time of opening of tender. In case of non fulfillment of these requirements the supply shall not be accepted.
13. The language of this Contract will be in English.
  14. The contract shall be governed by the Laws of Pakistan and the Courts of Pakistan shall have exclusive jurisdiction.
  15. Bidders shall purchase separate tender documents and furnish original Tender Purchase Receipt along-with Bid Security for each alternate offer in case they want to submit alternate offer. All the bids with alternate offers without separate Tender Purchase Receipt (original) Bid Security shall not be considered and rejected.
  16. Bidders, whose bids are accepted, shall have to sign a written contract with the University attached in (Section-C) on the judicial stamp paper with stamp service charges as per the article 22-A (Contract) of the schedule of stamp Act 1899. All supplies should be made within the stipulated period. Bidders failing to deliver the stores within prescribed time shall face forfeiture of Security Deposit and / or imposition of L.D Charges @ 2% per month or a part of

- the month shall be charged from the amount of Bill OR Security Deposit OR through crossed cheque.
17. The bidder, which refuse to pay penalty / liquidated damages shall be removed from the list of approved bidders.
  18. The firm shall pay Stamp Service Charges as per the article 22-A (Contract) of the schedule of stamp act 1899.
  19. Bidding document purchase receipt must be enclosed in original with the offer.
  20. Specific mention should be made of whether the delivery will be ex-stock or will have to be imported and how much time will be required for delivery after placing the supply order.
  21. The exact duration of delivery from the date of purchase order will be mentioned in the Purchase Order.
  22. The stores are required by the consignee within the stipulated time reflected in supply order.
  23. Warranty period of one year or manufacturer's standard warranty whichever is more shall be required.
  24. The Bidder shall quote the bids on the attached Price Schedules format, and shall sign the certificate given therein to the effect that the store shall be supplied exactly in accordance with the requirements as specified in "Technical Specification". In case there is any deviation, it should be clearly stated by the Bidder, otherwise it would be presumed that offer is strictly in accordance with the requirement and specifications.
  25. Bidder should quote their firm and final rates.
  26. Provided that the Bid is substantially responsive, the Procuring Agency shall correct arithmetical errors 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, unless in the opinion of the Procuring Agency there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
    - (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
    - (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
  27. All offers must be typed / computer printed on prescribed format. No hand written offer will be acceptable.
  28. The Procuring Agency has the right to change the specification and any term and condition at any time without assigning any reason.
  29. No quoting firm would be allowed to withdraw its offer during the bid validity period.
  30. Against indigenous stores Bidders who are manufacturers must indicate name and address of the source in Pakistan from where they intend to supply the stores. Other then manufacturers bidders must enclose certificate from their manufacturer as under, failing which the offer shall be ignored:
  31. Any conditional, ambiguous or incomplete offer in any respect shall be ignored. No supplementary or revised offer after the opening of bids shall be entertained.
  32. The rates should be quoted on the basis of accounting unit specified in the "Technical Specification".
  33.
    - a) A certificate should be given by the bidder that they will be responsible for the free replacement of stores if the same is found to be substandard and / or at variance with the specification given in the bidding document. In case similar store offered is at variance with the specification given in the bidding document, the bidder must clearly identify variations in their offer. If the specifications of offered stores are superior to the one specified in the bid document enquiry shall, however, be acceptable.
    - b) Where offers have been invited for specified brands, offers for other brands shall not be acceptable.

34. Bidder shall be bound to submit the sample(s) of quoted items for physical verification. The sample(s) must be from the most recent stocks, supported by a valid warranty in the name of the Procuring Agency.
35. Bidder will replace the un-consumed stock at any stage if it expires.
36. The prices should be quoted on the attached Price Schedule (**Section-C**) and a soft copy of the quoted items should also be submitted with the offer in a CD or on e-mail address: [director.procurement@duhs.edu.pk](mailto:director.procurement@duhs.edu.pk)
37. The rate awarded will be the firm & final and if at any stage, any tax is imposed by the Govt. (Federal / Provincial) the contractor will be responsible for the payment of the same.
38. The contractor shall have to accept any further conditions introduced by the Government during the period of contract.
39. The Procuring Agency reserves the right to enhance / reduce the quantities and / or delete any item and his decision in case of any dispute will be final and cannot be challenged at any forum.
40. Rates offered will be valid for the period of contract (extendable) and supplier will not be allowed to increase the rates in any case.
41. Bidder shall indicate the Brand Name, Registration No. (if any), Name & Address of Manufacturer, Pack Size, Pack Price, Unit Price and Weight / Volume were not mentioned.
42. The shelf life of imported items must not be less than 80% and in case of local items 90% at the time of delivery.
43. The bidder shall ensure that the goods will be stored by them in proper cold storage at their own expenses to protect them from exposure to light, heat and any other adverse effect (where applicable).
44. Test / Analysis (if required) charges will be borne by the bidder / contractor, irrespective of the result sample.
45. Liquidated damages on delayed supplies will be levied at a uniform rate of 2% of the value of contract per month or a part thereof.
46. If the supplies are not made within the prescribed delivery period, purchase will be made at the risk and cost of the bidder / contractor.
47. If sample is rejected, offer will stand rejected automatically.
48. The supplies will be made at the OJHA Campus of Dow University of Health Sciences, Karachi.
49. If it is proved during the contract period that contractor has supplied the contracted item(s) to any other purchasing agency in Pakistan at the prices lower than the contracted prices, the balance amount will be deducted from the bill and / or security deposit of the contractor.
50. All purchases shall be made from the manufacturers, authorized Importers, Sole Distributors etc.
51. In the case of a Bidder offering to supply goods under the contract which was not manufacture or produce by them, a valid authorization letter to be issued by the manufacturer or its Sole Agent / Distributor / Authorized Dealer in favor of bidder must be enclosed with the bid.
52. The bidder shall enclose catalogue / brochure / leaflet / literature / price list and other technical data, in respect of goods offered by them.
53. The contractor / supplier will provide certificate from excise and taxation department that he has cleared all professional taxes and at the time of payment the contractor will have to provide such certificate.
54. The firm shall pay Income Tax / GST or provide valid exemption from the concerned taxation authority.
55. Photocopies of valid registration in General Sales Tax and Income Tax should be enclosed with the Bid. The bidders not registered with Sales Tax and Income Tax Registration Authorities will not be considered and their offer will be rejected as non-responsive.
56. The bidder shall be bound to provide copy of General Sales Tax paid challans against contracted stores (if applicable).

57. An affidavit on legal stamp paper of Rs. 100/- to effect that the Bidder has not been blacklisted in the past on any ground by any Government (Federal or Provincial), a local body or a public sector organization. The Bidder will be debarred from the bidding process for submitting a false statement.
58. The method and conditions of payment to be made to the Bidder under this Contract shall be as follows:  
***For Goods supplied from within the Procuring Agency's country:***
- (a) Payment shall be made in Pak Rupees.
- (b) The payment will be made to the Bidder within 30 days of the receipt of original delivery challan(s) and invoice(s) in duplicate duly completed in all respect and signed and stamped by the Inspection Committee. The Inspection Committee will prepare and submit a report of physical inspection with a certificate to the effect that the goods conform to the specifications laid down in the bidding documents.
59. The stores shall be suitable packed to resist damage in transit from bidder's warehouse to the Consignee's premises. If goods will be damaged due to insufficient or defective packing, the bidder shall be responsible for that loss.
60. All Clearing and bank charges within the Procuring Agency country will be borne by the Dow University of Health Sciences, Karachi.
61. Free Installation / Demonstration at Consignee's end shall be confirmed by the bidder, where necessary.

**62. NOTICES**

Procuring Agency's address for notice purpose:

**The Additional Director Procurement,**

Prof. Masood Hameed Khan Library,  
 Dow University of Health Sciences,  
 OJHA Campus, Off University Road,  
 SUPPARCO Road, Karachi.

Phone No: **021-99261471-5 (Ext. No. 4007 / 4112)**

Email Address: [director.procurement@duhs.edu.pk](mailto:director.procurement@duhs.edu.pk)

**Bidder's address for notice purposes:**

Name of Bidder: \_\_\_\_\_

Name of Contact Person & Designation: \_\_\_\_\_

Phone No: \_\_\_\_\_

Fax No: \_\_\_\_\_

Mobile Phone No: \_\_\_\_\_

Email Address: \_\_\_\_\_

## SECTION – A

### SCHEDULE OF REQUIREMENT

**1 For Goods supplied from within the Procuring Agency's Country:**

The entire quantity of the ordered goods shall be delivered within 15 days or earlier from the date of issuance of supply order / contract award.

**TECHNICAL SPECIFICATION****REAGENTS / KITS / CHEMICALS / GLASSWARE /  
CONSUMABLES & DISPOSABLE ITEMS**

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
1	(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> x 10 H <sub>2</sub> O	ACS grade	Bottle (gram)	100g	1	Bottle
2	(NH <sub>4</sub> ) <sub>6</sub> Mo <sub>7</sub> O <sub>24</sub> .4H <sub>2</sub> O	ACS grade	Bottle (gram)	250g	1	Bottle
3	0.05% Trypsin-EDTA (1X), Phenol Red	1X	Bottle	100 mL	2	Bottle
4	1 KB PLUS DNA ladder	The 1 kb Plus DNA ladder is composed of 20 highly purified, double-stranded DNA bands spanning 100 bp to 12,000 bp.	vial (ul)	250 ul/ vial	6	Vial
5	1 ml, 1 serological pipette	sterile, Made from transparent polystyrene and printed with a positive and negative scale, the products are suitable for all kinds of applications, individually Packed, with filter plug	Pack (number)	50/ Pack	52	Pack
6	10 ml, serological pipette	sterile, Made from transparent polystyrene and printed with a positive and negative scale, the products are suitable for all kinds of applications, individually Packed, with filter plug	Pack (number)	50/ Pack	5	Pack
7	10 x Solution (Phosphate Buffered Saline)	pH-adjusted blend of ultrapure-grade phosphate buffers and saline solutions, ph 7.4, laboratory grade, ultra pure	Bottle (ml)	1 L ML	1	Bottle
8	100 bp DNA MW marker	12 bands suitable for use as molecular weight standards for agarose gel electrophoresis. The digested DNA includes fragments ranging from 100-1,517 base pairs. The 500 and 1,000 base pair bands have increased intensity to serve as reference points. The approximate mass of DNA in each of the bands is provided (assuming a 0.5 µg load) for approximating the mass of DNA in comparably intense samples of similar size.	vial (ul)	100ul/vial	4	Vial
9	15mL Conical Centrifuge Tubes	Closure Type: Dome-seal Screw Cap: Threaded · Capacity: 0.507 oz., 15mL	bag (number)	100	20	bag (number)

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
10	25 ml serological pipette	sterile, Made from transparent polystyrene and printed with a positive and negative scale, the products are suitable for all kinds of applications, individually Packed, with filter plug	Pack (number)	50/ Pack	62	Pack
11	2-D Cleanup Kit	50 preps, general purpose protein preparation kit, includes precipitation agent unaffected by detergents, chaotropic agents, and other common reagents	kit (reactions/preps)	1 kit (50 preps)	1	Kit
12	2-D Quant Kit	2-D Quant Kit is designed for the accurate determination of protein concentration in samples prepared for electrophoresis techniques such as 2-D electrophoresis, SDS-PAGE, or IEF.	kit (assays)	1 kit (500assays)	1	Kit
13	2-Mercaptoethanol	≥99.0% , Clear Appearance , Colorless to Very Faint Yellow Appearance, Liquid Form	Bottle (ml)	500ml	4	Bottle
14	3 way rack	Polypropylene Heathrow 3-Way Rack connects to one another on either end. Convenient finger slots are molded into the rack making them easy to pick up and move.	UNIT (number)	number	4	No's
15	4 nitro phenyl phosphate	Analytical grade	Bottle (gram)	25 gm	1	Bottle
16	4-Nitrophenyl β-D-glucuronide	Analytical grade	Bottle (mg)	250 mg	1	Bottle
17	5 ml, serological pipette	sterile, Made from transparent polystyrene and printed with a positive and negative scale, the products are suitable for all kinds of applications, individually Packed, with filter plug	Pack (number)	50/ Pack	72	Pack
18	50mL Conical Centrifuge Tubes	Material: Polypropylene · Diameter: 30mm · Sterile: Yes ·Metric: Length 115mm	Bag (number)	100	20	Bag (number)
19	5-Sulfosalicylic acid dihydrate	geletinase activity, ACS grade	Bottle (gram)	100 g	1	Bottle
20	7H9 broth	microbiology media grade	Bottle (gram)	500 g	1	Bottle
21	-80 freez boxes rainbow colored	Polycarbonate, frost free, 9x9 divide hold 91 tubes of 1,5 and 2 ml eppendorf tubes, id codes on top and bottom, blue, green, pink, white, orange color	racks (number)	5	50	No's

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
22	-80o Stands/Racks	frost free, easy to open lid for storage of microcentrifuge tubes, Sample Tubes Storage Boxes, 100 cryogenic vials, 1-2 mL	number	unit	4	No's
23	90mm-100mm Petri dishes	Autoclavable, glass	Pack (number)	100	2	Pack
24	96 well plates	96-Well Microplates, Clear plates for colorimetric applications, 400µL	Pack(number)	1 Pack	5	Pack
25	96 well plate, treated	Round bottom	Pack/case (number)	Case qty. 100	2	Pack
26	96 well plates sealing films	Transparent Plate Sealing films	box (number)	1 box( 100 sheets)	2	Box
27	96 well plates sealing films	Highly transparency for qPCR, •Working temperature range: - 80°C to 110°C, •Material: PET (polyethylene terephthalate)	BOX (sheets)	100 sheets	1	Box
28	AccuPrime™ Taq DNA Polymerase High Fidelity	Dry Ice Shipping	vial (reactions)	200 reactions kit	3	Kit
29	AccuPrime™ Taq DNA Polymerase High Fidelity	50 mM MgSO4 (1 mL), 10X AccuPrime™ PCR Buffer I (1 mL), 10X AccuPrime™ PCR Buffer II, Dry Ice Shipping	Kit	1000 rxns	1	Kit
30	Acetic Acid glacial	Acetic acid Reagent Plus®, ≥99%	Bottle (ml)	1 L	2	Bottle
31	Acetone	for HPLC, ≥99.9%	Bottle (ml)	1L	2	Bottle
32	Acetone	chemical grade	Bottle (ml)	2.5 liter	1	Bottle
33	Acetonitrile	HPLC grade	Bottle (ml)	1L	2	Bottle
34	acid fuchsin	chemical grade	Bottle (gram)	100g	1	Bottle
35	Acrylamide Solution (40%)	40% acrylamide solution, Pure Molecular biology grade, For electrophoresis	Bottle (ml)	500ml	6	Bottle
36	acrylic cuvettes	scratch-resistant, dust-free Packaging that contains only cuvettes from the same mold cavity to ensure the lowest variation in extinction coefficient, 2.5-3.5ml	Pack (number)	500 cuvettes /Pack	2	Pack
37	acrylic disposable cuvette	300nm-900nm waveleght for spectrophotometer 1.5-3.0ml	Pack (number)	500	12	No's
38	acrylic disposable cuvette	300nm-900nm waveleght for spectrophotometer 2.5-4.5ml	Pack (number)	500	12	No's
39	Adhesive PCR Plate seals	Temperature range: -20°C to 120°C, prevents evaporation during thermal cycling	Pack/case (number)	100 films	5	Pack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
40	Advanced DMEM/F-12	With glucose, Non Ess. A.A., Na pyruvate, phenol Red; without L-glutamine & HEPES	Bottle	10 X 500 mL	1	Bottle
41	Agar Agar	microbiology media grade	Bottle (gram)	500 g	5	Bottle
42	Agarose	molecular biology grade	Bottle (gm)	500 g	7	Bottle
43	Agarose	Medium EEO, for electrophoresis	Bottle (g)	100g	2	Bottle
44	AggreWell-800	8 wells, each with approximately 300 microwells with a diameter of 800 um	Kit	5 plates	3	Kit
45	Air vent filter	hydrophobic, 0.22um, Autoclavable at 121°C, flow rate upto 5 litre/min, 4-7cm diameter	Pack (number)	50	2	No's
46	Albumin and IgG Depletion SpinTrap	PrePacked columns for the depletion of albumin and plasma.	Pack(Columns)	1 Pack (10 columns)	1	Pack
47	Alexa 488-conjugated anti-mouse IgM antibody	1ug/ml	vial (test)	100 test	3	Kit
48	Alexa 488-conjugated anti-mouse IgM antibody	2 mg/mL conc.	vial	250 µL	1	vial
49	Alkaline hypo chloride solution	Analytical grade	Bottle ( ml)	100 ml	1	Bottle
50	AllPrep DNA/RNA Mini Kit	Probe spans exons	kit (reactions)	100 reactions	2	Kit
51	alpha naphthol	chemical grade	Bottle (gram)	500g	1	Bottle
52	alpha-Naphthylamine	for nitrate test, analytical grade	Bottle (gram)	100 g	2	Bottle
53	Aluminum foil	aluminium foil widely used in Packing	ROLL (cm x m)	1 roll	1	Roll
54	Ammonium bicarbonate	BioUltra, ≥99.5% (T)	Bottle (g)	1 Kg	1	Bottle
55	Ammonium per sulfate	Ammonium persulfate for molecular biology, for electrophoresis, =98% , White to Off-White Powder or Crystals	Bottle (g)	1kg	4	Bottle
56	Ammonium sulfate ((NH4)2SO4)	ACS reagent, ≥99.0%, Colorless or White Powder or Crystals	Bottle (g)	1 kg	2	Bottle
57	Ampicillin sodium salt	Bio reagent	vials/Bottle (gram)	10g	1	Bottle
58	Ampicillin sodium salt Chloramphenicol	Effect against Gram-positive and -negative bacteria	Bottle (gm)	100 gm	1	Bottle
59	Antibiotics disc	microbiology media grade	Pack (number)	50	100	Pack
60	anti-PSA-NCAM antibody	Clone 2-2B	kit (test)	40 test	3	Kit
61	anti-PSA-NCAM antibody	Clone 2-2B	kit	100 test	1	kit
62	anti-TRA-1-60 antibody	Purified mouse monoclonal IgM liquid in 0.05M Potassium Phosphate, 0.3M NaCl pH 8.0 with 0.05% Sodium Azide	vial (ul)	250 µL	3	Vial

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
63	anti-TRA-1-60 antibody	Purified mouse monoclonal IgM liquid in 0.05M Potassium Phosphate, 0.3M NaCl pH 8.0 with 0.05% Sodium Azide	vial	100 µg	3	vial
64	API kits	Microbial identification to species level	kit (17-18 reactions)	17	200	Kit
65	Ascorbic Acid	powder	Bottle (g)	1 kg	1	Bottle
66	Ascorbic Acid	powder	vial	100 mg	5	vial
67	ATCC culture	bacteriological culture	vial (ml)	unit vial	20	Vial
68	ATCC culture	fungal culture	vial (ml)	unit vial	20	Vial
69	Attachment Factor Protein	1X	Bottle (ml)	50 ML	10	Bottle
70	Attachment Factor Protein	1X	Bottle	100 mL	3	Bottle
71	Autoclave tape	500 inches, show diagonal lines after 15 minutes of exposure at 121°C in a steam autoclave, dimension, 1.91 cm	Roll (cm)	1	20	Pack
72	autoclave tape	<ul style="list-style-type: none"> <li>•This autoclave tape is a steam sterilisation indicator tape</li> <li>•White striped turn to black for visual indication</li> <li>•Used for steam and ethylene oxide gas sterilisation processes</li> </ul>	ROLL (in.)	1roll	3	Roll
73	B27 supplement without vitamin A	50X minus vitamin A	vial	10mL	5	vial
74	B-27®Serum-Free Supplement	50X; Dry ice shipping req.	Bottle (ml)	5 mL	10	Bottle
75	B-27®Serum-Free Supplement	50X, liquid, No Vit. A, serum free Dry ice shipping req.	vial	100 mL	3	vial
76	BACTEC 12B broth	microbiology media grade	Bottle (gram)	500 g	1	Bottle
77	Barium Chloride dehydrate	chemical grade	Bottle (gram)	250g	1	Bottle
78	Basic Fibroblast Growth Factor (bFGF), recombinant human	Dry ice shipping req.	vial(ml)	10 x 500 mL	2	Vial
79	Basic Fibroblast Growth Factor (bFGF), recombinant human	Dry ice shipping req.	vial	1mg	1	vial
80	Basic Fibroblast Growth Factor (hbFGF), recombinant human	Lyophilized salt free	vial	10 UG	5	vial
81	Basic Fuchsin	powder form, chemical grade	Bottle (gram)	100g	1	Bottle
82	BBL Selective Streptococcus Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
83	BCA Protein Assays kit	Protein Quantitation Assay, Colorimetric detection	kit (assays)	500 tube assays	5	Kit
84	BD Matrigel™	HESC qualified	vial (ml)	1L Kit	2	Vial
85	BD Matrigel™	HESC qualified	vial	5 mL	2	vial
86	Beaf extract	microbiology grade	Bottle (gram)	500g	1	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
87	Benedict's Reagent	analytical grade	Bottle (ml)	1 lit	2	Bottle
88	Bile Esculin Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
89	bio hazard labels	for labelling of hazardous chemicals, Fluorescent Red, Black	ROLL (inxft)	1000 Roll(s)	1	Roll
90	Bio reaction tubes	15 mL conical, 10/ bag	Pack/case (number)	Case qty. 100	3	Pack
91	Bisacrylamide Solution (2% )	2% bisacrylamide solution, Pure Molecular biology grade, For electrophoresis	Bottle (ml)	500ml	3	Bottle
92	BL21(DE3)pLysS Competent Cells	· Contain a genotype that promotes high mRNA stability and protein yield · Optimized for use with low copy number · T7 promoter-based plasmids	vial (ul)	20 Reactions	3	Vial
93	BL21(DE3)pLysS Competent Cells	· Contain a genotype that promotes high mRNA stability and protein yield · T7 promoter-based plasmids	Eppendorf (ul)	20 eppendorf (each 50ul of culture)	1	Eppendorf (ul)
94	Blot Absorbent Filter Paper	Blot absorbent filter paper, 7.5x10cm for use with protein gels	box (sheets)	1box (60sheets)	4	Box
95	Bovine serum albumin	Analytical grade	Bottle (gram)	1 kg	1	Bottle
96	Bovine Serum Albumin (BSA)	lyophilized powder	Bottle (g)	500g	3	Bottle
97	BOVINE SERUM ALBUMIN; BSA; Bovine Albumin Fraction V	7.5% solution; FRAC V	Bottle (ml)	100ML	5	Bottle
98	Bradford reagent	ready to use solution For estimation of protein concentration	Bottle ( ml)	500 ml	1	Bottle
99	Brain heat infusion Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
100	Brilliant Blue G-250, Coomassie	250, Dye	Bottle (g)	100g	5	Bottle
101	Bromocresol Green sodium salt	crystalline, water soluble, chemical/ microbiological grade	Bottle (gram)	25 g	1	Bottle
102	Bromocresol Purple sodium salt	indicator grade, chemical/ microbiological grade	Bottle (gram)	25g	1	Bottle
103	Bromophenol blue	Powder Form	Bottle (g)	25g	2	Bottle
104	Bromophenol blue	bromophenol blue tracking dye powder	Bottle (gm)	10 g	2	Bottle
105	Bromophenol Blue sodium salt	water soluble, chemical/ microbiological grade	Bottle (gram)	25 g	2	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
106	Butanol	Methanol anhydrous, 99.8% , Color less liquid form	Bottle (ml)	2L	2	Bottle
107	C6H6MgO7	ACS grade	Bottle (gram)	250g	1	Bottle
108	cable ties	100mmX2.5mm, non-releasable, nylon	Pack (number)	100	3	No's
109	CaCl2,	ACS grade	Bottle (gram)	500g	1	Bottle
110	Calcium carbonate	chemical grade	Bottle (gram)	250 g	1	Bottle
111	Calcium chloride	anhydrous, =93.0%	Bottle (g)	500g	2	Bottle
112	CaMg free Hank's Balanced salt solution	HBSS no Ca, Mg and phenol red	Bottle (ug)	100 µg	3	Bottle
113	Caps of bio reaction tubes	Vented for 15 mL	Pack/case (number)	Case qty. 100	3	Pack
114	Carbol Fuchsin solution	For acid fast staining, microbiology grade	Bottle (ml)	1 lit	1	Bottle
115	carbon dioxide cylinder	Universal size cylinder	unit	1	16	No's
116	Carboxymethylcellulose sodium salt	water soluble, Pure ( Assay grade)	Bottle (gram)	1 kg	1	Bottle
117	Cas 9 m RNA	Genome editing with CRISPR/Cas9 sysytem	Vial (ug)	15 ug	3	Vial
118	Casaminoacid	microbiology media grade	Bottle (gram)	500g	1	Bottle
119	Casein	analytic grade, white powdered form, water soluble	Bottle (gram)	500g	1	Bottle
120	Cell culture flasks	Surface coating Nunclon delta, Sterile T25, T75	Pack/case (number)	50	5	Pack
121	Cell culture plate, 12 well	well shape round, sterile, cell culture area 3.5 cm2, Nunclon coating	Pack/case (number)	75	5	Pack
122	Cell culture plate, 24 well	well shape round, sterile, cell culture area 1.8cm2, Nunclon coating	Pack/case (number)	75	5	Pack
123	Cell culture plate, 6 well	well shape round, sterile, cell culture area 9.6 cm2, Nunclon coating	Pack/case (number)	75	5	Pack
124	Cell culture plate, 96 well	Sterile, , surface Nunclon coating, With a lid	Pack/case (number)	50	2	Pack
125	Cell Scraper	25cm handle	Pack/case (number)	Case qty. 100	2	Pack
126	Cell Scraper	30cm handle, pivoting blade	Pack/case (number)	Case qty. 100	2	Pack
127	Cell Scraper and Cell Spatula	<ul style="list-style-type: none"> <li>· special formed blade with sharp edges</li> <li>· Highly visible bilateral marking area</li> <li>· small raised knobs on the handle</li> <li>· lint-free blister Packaging</li> <li>· user friendly TPP dispenser case</li> </ul>	Bag (number)	50	10	Bag (number)

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
128	Cell Strainer	Blue; individually wrapped	Pack/case (number)	Case qty. 50	4	Pack
129	Cell Strainer Caps 35 µm	Use with FACS, 35 µm mesh size	Pack/case (number)	Case of 500	2	Pack
130	CellsDirect Resuspension & Lysis Buffers	Two buffers one is 10mL and the other is of 1mL; Dry ice shipping req.	kit (g)	5 G	2	Kit
131	Centrifuge tube 15 ml	Hydrophobic, biologically inert surface for good cell or protein recovery	Pack/case (number)	Case qty. 300	2	Pack
132	Centrifuge tube 50 ml	Suitable for cell centrifugation applications such as pelleting and separation by density gradients	Pack/case (number)	Case qty. 300	2	Pack
133	Cephalosporin	Bio reagent	vials/Bottle (gram)	10g	1	Bottle
134	Cetrimide agar	microbiology media grade	Bottle (grams)	500g	2	Bottle
135	CHAPS {3-[(3-cholamidopropyl)dimethylammonio]-1-propanesulfonate}	Powder Detergent	Bottle (g)	5 g	1	Bottle
136	chemical (reagent) Bottles	autoclavable, wide mouth, Borosilicate glass Bottle and stopper/caps, 500 ml	number	unit Bottle	5	No's
137	Chloramphenicol	Bioreagent	vial (gram)	10g	1	Vial
138	Chloramphenicol	<ul style="list-style-type: none"> <li>• Powder • BioReagent</li> <li>• Suitable for cell culture</li> </ul>	Bottle (gm)	25gm	2	Bottle (gm)
139	Cholic acid	analytical grade	Bottle (gram)	50 g	1	Bottle
140	Choline bitartrate	Analytical grade	Bottle (gram)	100g	1	Bottle
141	Ciprofloxacin	<ul style="list-style-type: none"> <li>• Purity: More than 98%</li> <li>• Powder • Bio Reagent</li> <li>• Suitable for cell culture</li> </ul>	Bottle (gm)	05gm	2	Bottle (gm)
142	Citric acid	ACS reagent, ≥99.5%	Bottle (gram)	250g	3	Bottle
143	Clarks broth	microbiology media grade	Bottle (grams)	500g	2	Bottle
144	cloning vector	different vectors based on work need, designed to simplify commonly used cloning and sequencing procedures, including the construction of nested deletions for DNA sequencing, generation of RNA transcripts in vitro and site-specific mutagenesis and gene mapping	vial (ug)	~ 20 ug	10	Vial
145	CollagenaSE, Type II , powder	Ability to degrade the triple-helical native collagen fibril	Bottle (g)	1G	5	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
146	Collagenase, Type IV, powder	Collagenase	vial (ml)	500 mL	3	Vial
147	Congo red	biological stain, microbiology grade	Bottle (gram)	25g	1	Bottle
148	Congo red	staining, chemical/ microbiological grade	Bottle (gram)	25g	1	Bottle
149	Conical tube, 15 mL	Disposable, Grade A, Gamma irradiation sterilized, RNase-free, DNase-free, DNA-free and Non-pyrogenic.	polythene bag	Case qty. 500	2	Pack
150	Conical tube, 50 mL	Disposable, Grade A, Gamma irradiation sterilized, RNase-free, DNase-free, DNA-free and Non-pyrogenic.	polythene bag	Case qty. 500	2	Pack
151	Conical flask	2000 ml, autoclavable, pyrex	unit flask (number)	unit flask	10	No's
152	Container for distilled water (nalgene carboy)	20- 25 litres, material carbonyl/polyethylene, graduated, smooth operating leak-proof stopcocks, resistance to chemicals,	number	unit	3	No's
153	Cook meat medium	microbiology media grade	Bottle (gram)	500 g	1	Bottle
154	Copper sulfate	analytical grade	Bottle (gram)	50 g	2	Bottle
155	Cord Blood Bag	Up to 150 mL, includes CPD anticoagulant, 20.45 cm length x 8.48 cm width, 16-gauge needle	Individually Packed in foil; 24/box	1 cord blood collection set	10	Pack
156	Cover slips	cover slips: TMX , 22 x 22 x 0.18mm	box (number)	100 No's	20	Box
157	CRISPR Nuclease m RNA	Genome editing with CRISPR/Cas9 system	vial (ug)	25 µg	3	Vial
158	CRISPR Nuclease Vector Kits	CRISPR Nuclease Vector with OFP Reporter Kit	kit (test)	10 reactions	2	Kit
159	cryo tubes and Caps with O-ring	, research grade, autoclavable, 2 ml, screw capped, o ring sealer, homogenization safe	bags (number)	50/Pack	25	No's
160	Cryo tubes (2 ml screw caps)	graduated autoclavable, screw capped, research grade (2 ml)	bags (number)	50/Pack	105	Pack
161	cryogenic labels	temperature resistant up to -80 degree, high adherence, resist most organic solvents and caustic agents, different colors	Pack (number)	1700	10	Pack
162	CryoStem Freezing Medium	3 months stability	Bottle	50 mL	5	Bottle
163	Cryovials	Used for ultra-low temperature storage of valuable cell cultures, biological solutions and aqueous solutions, STERILE, 2ml	Pack	500 pc /Pack	1	Pack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
164	cryovials / cryogenic tube	autoclavable, sterile, graduated, 2ml, polypropylene, self-standing, colored screw capped with o-ring	Pack (number)	50/Pack	3	Pack
165	Crystal violet	bacterial stain, microbiology grade	Bottle (gram)	100 g	1	Bottle
166	CuCl <sub>2</sub> . 2H <sub>2</sub> O	ACS grade	Bottle (gram)	250g	1	Bottle
167	CuCl <sub>2</sub> .4H <sub>2</sub> O	ACS grade	Bottle (gram)	250g	1	Bottle
168	Culture flasks (Erlenmyer)	pyrex, graduate, size: 50 ml, autoclavable, mouth with heavy tooled rim	unit flask (number)	6	12	No's Each
169	Culture flasks (Erlenmyer)	pyrex, graduate, size: 100 ml, autoclaveable mouth with heavy tooled rim	unit flask (number)	6	12	No's Each
170	Culture flasks (Erlenmyer)	pyrex, graduate, size: 250 ml, autoclaveable, mouth with heavy tooled rim	unit flask (number)	6	12	No's Each
171	Culture flasks (Erlenmyer)	pyrex, graduate, size: 500 ml, autoclaveable, mouth with heavy tooled rim	unit flask (number)	6	12	No's Each
172	Culture flasks (Erlenmyer)	pyrex, graduate, size: 1 litre, autoclaveable, mouth with heavy tooled rim	unit flask (number)	6	12	No's Each
173	Culture flasks (Erlenmyer)	pyrex, graduate, size: 2 litres, autoclaveable, mouth with heavy tooled rim	unit flask (number)	6	12	No's Each
174	Cy2 bis-Reactive Dye	Fluorescence dyes for the labelling of biological compounds with Cy2 Reactive Dye	kit (mg)	1kit (5x1mg)	1	Kit
175	Cy3 bis-Reactive Dye	Fluorescence dyes for or use in ELISA, immunoprecipitation, and blotting applications.	kit (mg)	1 kit (5X1mg)	1	Kit
176	Cy5 bis-Reactive Dye	Fluorescence dyes for the labelling of biological compounds with Cy5 Reactive Dye	kit (mg)	1 kit (5X1mg)	1	Kit
177	D-(+)-glucose	premium quality	Bottle (mg)	100 mg	1	Bottle
178	DAPI Nuclear stain	fluorescent stain	vial (mg)	1 mg/ ml	1	Vial
179	Dessicator	Dessicator round style	unit desiccator	1	1	No's
180	Dextrose	microbiology grade	Bottle (gram)	1 kg	2	Bottle
181	DH5 $\alpha$ <sup>TM</sup> Competent Cells	Transformation efficiency up to 1 $\times$ 10 <sup>9</sup> transformants/ $\mu$ g plasmid DNA • High plasmid yield from the DH5 $\alpha$ <sup>TM</sup> (endA1) E. coli strain • Blue/white screening capable (lacZ $\Delta$ M15) • Greater insert stability (recA1)	vial (ul)	20Reactions	5	Vial

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
182	DH5 $\alpha$ <sup>TM</sup> Competent Cells	Transformation efficiency up to 1 $\times$ 10 <sup>9</sup> transformants/ $\mu$ g plasmid DNA • High plasmid yield from the DH5 $\alpha$ <sup>TM</sup> (endA1) E. coli strain • Blue/white screening capable (lacZ $\Delta$ M15) • Greater insert stability (recA1)	Eppendorf (ul)	20 eppendorf (each 50ul of culture)	2	Eppendorf (ul)
183	Dialysis Kit	1 kDa cut-off	kit (ul)	1 kit (250ul)	3	Kit
184	Dialysis tubing	molecular weight cut-off = 14,000.	roll (cmxm)	100 FT	1	Roll
185	dialysis tubing clips	Dialysis tubing closures, size 50 mm, different colors	unit/Pack	1	10	No's
186	Dialysis tubings	cut off: 5 KDa, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
187	Dialysis tubings	cut off: 10 KDa, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
188	Dialysis tubings	cut off: 15 Kda , 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
189	Dialysis tubings	cut off: 20 KDa, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
190	Dialysis tubings	cut off: 25 Kda, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
191	Dialysis tubings	cut off: 40 KDa, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
192	Dialysis tubings	cut off: 80 Kda, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
193	Dialysis tubings	cut off: 100 Kda, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
194	Dialysis tubings	cut off: 5 KDa, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
195	Dialysis tubings	cut off: 10 KDa, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
196	Dialysis tubings	cut off: 15 Kda , 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
197	Dialysis tubings	cut off: 20 KDa, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
198	Dialysis tubings	cut off: 25 Kda, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
199	Dialysis tubings	cut off: 40 KDa, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
200	Dialysis tubings	cut off: 80 Kda, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
201	Dialysis tubings	cut off: 100 Kda, 0.5, 1, 1.5 inches in width ( 10 metre each)	rolls (meter/centimeter)	1	1	Roll
202	Dibutyryl cyclic-AMP (dcAMP)	powder	vial (mg)	100 mg	5	Vial
203	Dimethylaminobenzaldehyde	Analytical grade	Bottle (gram)	50g	1	Bottle
204	DIMETHYLSULFOXIDE (DMSO)	anhydrous	vial	10 x 3 mL	5	vial
205	Dispase II, powder	No phenol red	vial (g)	1 G	5	Vial
206	Disposable syringe filters (0.22 micron)	disposable, diam. 33 mm, sterile; $\gamma$ -irradiated	box (number)	100	50	No's
207	Disposable syringe filters (0.45 micron)	disposable, diam. 33 mm, sterile; $\gamma$ -irradiated	box (number)	100	50	No's
208	DL-Amphetamine solution	1 mg/ml in methanol, drug standard	ampoule	1 mL	3	ampoule
209	DL-Dithiothreitol(DTT)	$\geq 98\%$ (TLC), $\geq 99.0\%$ (titration)	Bottle (g)	100g	4	Bottle
210	DL-methionine	reagent grade	Bottle (gram)	500g	1	Bottle
211	DMEM/F-12	Dulbecco's Modified Eagle Medium/Nutrient Mixture F-12 with HEPES	Bottle	500 mL	3	Bottle
212	DMEM-LG	With Low Glucose, Sodium Pyruvate, GlutaMAX™, Phenol Red and without HEPES	Bottle (ml)	10 x 500ML	10	Bottle
213	DMSO	PCR REAGENT, Supercools easily and remelts slowly at room temperature.	Vial (ml)	1 ml	2	Vial
214	DMSO, anhydrous	10 tubes of DMSO (DIMETHYLSULFOXIDE)	Bottle (ml)	10 x 500ML	1	Bottle
215	DNA Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
216	DNA extraction kit	High yield and purity	kit (reactions)	100 reactions	5	Kit
217	DNA ligase	T4 DNA Ligase, Supplied with 10X Reaction Buffer, 400,000 units/m	Vial (units/ul)	20,000 units/ vial	5	Vial
218	DNase	Analytical grade	Bottle (gram)	25g	1	Bottle
219	dNTPs	High quality deoxynucleotide triphosphates (dNTPs) $< 98\%$ PURE, The Deoxynucleotide (dNTP) Solution Set contains 0.25 ml of each 100 mM ultrapure nucleotide as four separate solutions(dATP, dCTP, dGTP & dTTP).	Vial (mM)	set of four vials 25 mmol of each	3	Set

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
220	DPBS	without Ca <sup>2+</sup> or Mg <sup>2+</sup>	Bottle	500ML	5	Bottle
221	DPBS without Ca <sup>2+</sup> or Mg <sup>2+</sup>	1X; pH 7.0-7.3	Bottle (ml)	100 mL	1	Bottle
222	Dubos medium	microbiology media grade	Bottle (gram)	500 g	1	Bottle
223	Dulbecco's Phosphate Buffered Saline	• Sterile-filtered • Endotoxin, tested • Suitable for cell culture	Bottle (ml)	500ml	2	Bottle (ml)
224	Dulbecco's Modified Eagle Medium: Nutrient Mixture F-12 (DMEM/F12)	• Liquid With 1000 mg/L glucose, L-glutamine and sodium bicarbonate With pyridoxine (substitutes pyridoxine HCl for pyridoxalHCl) • Cell culture tested • Endotoxin tested • Sterile-filtered	Bottle (ml)	500ml	10	Bottle
225	Dulbecco's Modified Eagle's Medium -	4.5g/L glucose	Bottle (ml)	500mL	5	Bottle
226	Duran Bottles ,100ml	laboratory grade glass Bottles, scratch resistant, suitable for freezing and autoclaving	number	unit	5	No's
227	Duran Bottles ,250ml,	laboratory grade glass Bottles, scratch resistant, suitable for freezing and autoclaving	number	unit	5	No's
228	Duran Bottles 1L,	laboratory grade glass Bottles, scratch resistant, suitable for freezing and autoclaving	number	unit	3	No's
229	Duran Bottles 500ml,	laboratory grade glass Bottles, scratch resistant, suitable for freezing and autoclaving	number	unit	5	No's
230	Durham tubes (length 25 x 7 mm, wall thickness, 0.7 mm)	made of soda lime glass, round bottom, capacity 0.5 ml)	Pack (number)	1000/Pack	2	Pack
231	DYNABEADS SILANE VIRAL NA KIT FOR 96 ISOLATIONS	viral DNA and RNA from human serum/plasma samples	kit (reactions)	96 PREPS	1	Kit
232	ECL detection kit	for the detection of probes/antibodies to be used for western and southern blotting	BOX (ml)	1 box containing 2 solution 500 ml each	1	Kit
233	ECL Western Blotting Detection Reagent	Sensitive Quantitative or Confirmatory Western Blotting, Sufficient for 1000 cm <sup>2</sup> membrane	box (cm <sup>2</sup> membrane)	1 box ( 2 solutions 50ml each)	2	Box
234	EDTA; Concentrated	100mM	Bottle (ml)	100 mL	10	Bottle
235	EDTA (Ethylene diaminetetra acetic acid)	anhydrous, ≥99% (titration)	Bottle (g)	500g	3	Bottle
236	EGM™-2 Bullet Kit, EBM-2 plus Single Quots (includes CC-3156 and CC-4176)	Human endothelial/progenitor cell culture	kit (tests)	100 tests	10	Kit

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
237	EGM™-2 BulletKit™, EBM™-2 plus SingleQuots™	(includes CC-3156 and CC-4176) of Growth Supplements	Bottle (ml)	500mL	10	Bottle
238	EGM™-2 BulletKit™, EBM™-2 plus SingleQuots™ (includes CC-3156 and CC-4176) of Growth Supplements	No BBE (Bovine Brain Extract), hEGF, Hydrocortisone, GA-1000 (Gentamicin, Amphotericin-B), FBS (Fetal Bovine Serum) 10 ml, VEGF, hFGF-B, R3-IGF-1, Ascorbic Acid, Heparin	Bottle and vials	500mL media	2	Pack
239	Electroporation cuvette	crystal styrene material, sterile, capacity 400 micro litres, 0.2 cm gap size, blue capped, sterile, provide with dropper, withstand the pulses of electroporator, aluminium plates on two sides	box (number)	50	5	Box
240	Electroporation cuvette (0.2 cm electr Ode gap width)	0.1 cm gap sterile electroporation cuvette, for use with the Gene Pulser and MicroPulser electroporators, for yeast and bacteria	Packet (number)	approx 1000/ PKT	2	Pack
241	ELISA kit	As per requirement	Kits (reactions)	1 kit (5x 1mg)	1	Kit
242	Endothelial Basal Medium -2 (EBM-2), 1L	Human cell culture Grade	Bottle (ml)	500 ml	20	Bottle
243	EOSIN METHYLENE BLUE AGAR	microbiology media grade	Bottle (gram)	500 g	1	Bottle
244	EPI5 REPROGRAMMING KIT	Episomal Expression, Multi-Gene Expression, Induced Pluripotent Stem Cell Generation	kit (reactions)	100 reactions	2	Kit
245	Epi5™ Episomal iPSC Reprogramming Kit	Vector type; EBNA, OriP	vials (ul)	100uL	3	Vial
246	Eppendorf Tubes 1.5 ml	Polypropylene made in natural color. Higher yields in DNA isolation.	Pack/case (number)	1000 tubes	5	Pack
247	Eppendorff boxes, 100 place	laboratory grade box with lid	box (number)	1 box (of 100 places)	10	Box
248	Eppendorff boxes, 20 place	laboratory grade box with lid	box (number)	1 box (of 20 places)	10	Box
249	Eppendorff Racks	4-Way Micro tube Rack allows you to create as large a rack as you need by linking together multiple racks. Heavy-duty polypropylene racks feature a unique system of tabs and slots, which facilitate easy connection and sturdy fit.	RACK (number)	1 rack	25	Rack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
250	eppendorff stands	Centrifuge Tube Stand Holder Box, withstand at -80, can hold 50 tubes, transparent cover lid, polypropylene	racks (number)	5	10	No's
251	Eppendorffs Tubes	1.5 'Crystal Clear' Microcentrifuge Tube, graduated	bags (number)	500/Pack	10	Pack
252	Eppendorffs Tubes (microcentrifuge tubes)	500ul 'Crystal Clear' Microcentrifuge Tube, graduated	Pack (number)	approx 500	3	Pack
253	Eppendorffs Tubes (microcentrifuge tubes)	1.5ml 'Crystal Clear' Microcentrifuge Tube, graduated	Pack (number)	approx 500	5	Pack
254	Eppendorffs Tubes (microcentrifuge tubes)	2ml 'Crystal Clear' Microcentrifuge Tube, graduated	Pack (number)	approx 500	5	Pack
255	Eppendorffs Tubes (microcentrifuge tubes)	1.5ml 'Crystal Clear' Microcentrifuge Tube, graduated	Pack(number r)	approx 500	20	Pack
256	Eppendorffs Tubes (microcentrifuge tubes)	0.5, 1.5 and 2 ml, 'Crystal Clear' Microcentrifuge Tube, graduated	bags (number)	500	10	Bags Each Size
257	Essential 6 Medium	Feeder-free and xeno-free medium	Bottle	500 mL	3	Bottle
258	Essential 8™ Flex Medium Kit	500mL Basal medium; 10mL supplement	Bottle and vial	1 Kit	3	Bottle and vial
259	Essential 8™ Medium	Xeno-Free	Bottle (ml)	20 x 100ML	1	Bottle
260	Essential 8™ Medium	Liquid, serum-free, xeno-free	Bottle (kit)	500 mL	5	Bottle
261	Essential 8™ Medium (Prototype), consisting of	DMEM/F-12 (HAM) 1:1 & Essential 8 medium supplement(50X)	Bottle (ml)	500 mL	10	Bottle
262	Ethanol Absolute	absolute, ≥99.8% (GC)	Bottle (ml)	1 L	19	Bottle
263	Ethylenediaminetetraacetic acid disodium salt dehydrate	water soluble	Bottle (gram)	500 g	1	Bottle
264	FACS Tubes	5ml polystyrene tubes,	Pack/case (number)	500 tubes	5	Pack
265	Falcon tubes	graduated autoclavble, research grade (15), polypropylene, sterile	bags (number)	50/Pack	30	Pack
266	Falcon tubes	graduated autoclavble, research grade (50 ml), polypropylene, sterile	bags (number)	50/Pack	30	Pack
267	Ferric chloride (FeCL3)	anhydrous, powder, =99.99%	Bottle (g)	1g	1	Bottle
268	Ferric chloride hexa hydrate	Reagent grade	Bottle (gram)	250 g	1	Bottle
269	Ferric chloride hexa hydrate	ACS grade	Bottle (gram)	250g	1	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
270	Fetal Bovine Serum	<ul style="list-style-type: none"> <li>• Suitable for cell culture</li> <li>• ≤10 EU/mL endotoxin</li> <li>• Hemoglobin, ≤25 mg/dL</li> <li>• USDA approved • Sterile-filtered • GMP approved</li> </ul>	Bottle (ml)	500ml	10	Bottle
271	Fetal Bovine Serum (FBS), ES-Cell Qualified	ES CELL QUALIFIED	Bottle	100ML	3	Bottle
272	Fibronectin Human Protein; Native	Fibronectin Natural Human	vial (ml)	10 mL	3	Vial
273	Fibronectin Human Protein; Native	Fibronectin Natural Human	vial	1 mg	5	vial
274	Fildes peptic blood broth	microbiology media grade	Bottle (gram)	500 g	1	Bottle
275	Filter paper	For rapid filtering with excellent retention of coarse particles and gelatinous precipitates. Good rapid filter for routine cleanup of biological fluids or organic extracts during analysis. Also for air pollution monitoring where high flow rates are required.7.5 X10cm	box (sheets)	pkg of 60 sheets	6	Box
276	Filtered masks	mouth and nose protection, disposable, safety in laboratory, comfortable	box (number)	50	100	Box
277	Fine tip labelling markers (Steadler/ sharpie)	permenant, ethanol resistnt, should retain temperature fluctutations, multi colored	BOX (number)	10	1 box for each color	Box
278	Flask	2L, Baffled bottom, vented Cap	Pack/case (number)	Case qty. 6	8	Pack
279	Flask caps	Plugged; 25 and 50 mL	Pack/case (number)	5	20	Pack
280	Forceps	Dissecting forceps recommended for heavy-duty works. Made with 410-Stainless Steel and features serrated points for strong grip and knurled handles for superb hold in wet/dry conditions.	number	unit forcep	5	No's
281	Formic acid	reagent grade, ≥95%	Bottle (ml)	1 L	1	Bottle
282	Fructose	microbiology grade	Bottle (gram)	1 kg	1	Bottle
283	Funnels ( glass)	pyrex, short and wide stem, clear	number	unit funnel	10	No's
284	G 418 disulfate salt	<ul style="list-style-type: none"> <li>• Powder • BioReagent</li> <li>• Suitable for cell culture</li> </ul>	Bottle (gm)	25gm	2	Bottle (gm)
285	Gate clamps	autoclavable material to clamp silicone tubing	Pack (number)	100	1	No's
286	Gel extraction kit	Up to 95% recovery of ready-to-use DNA For gel extraction or cleanup of DNA: with Spin Columns, Buffers, Collection Tubes (2 ml)	Kit (Reactions)	50 reactions	6	Kit

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
287	Gel loadingbtips (1-200ul)	for accurately and easily loading wells in gel electrophoresis , autoclavable, to fit into all the available micropipettes of respective size	box (rack)	Pack of 1000	5	Box
288	Gel Storage Boxes (Large)	Containers for staining and storage of large format protein gels	box (number)	1 box	5	Box
289	Gel Storage Boxes (Medium)	Containers for staining and storage of small and medium size protein gels	box (number)	1 box	10	Box
290	Gelatin	chemical grade	Bottle (gram)	500 g	1	Bottle
291	Gelatin peptone	microbiology grade	Bottle (gram)	500 g	1	Bottle
292	Geltrex™ hESC-qualified Reduced Growth Factor Basement Membrane Matrix	GELTREX HESC QUAL READY TO USE	Bottle (ml)	1000ml	3	Bottle
293	Geltrex™ hESC-qualified Reduced Growth Factor Basement Membrane Matrix	GELTREX HESC QUAL READY TO USE	Bottle	50 ML	2	Bottle
294	Gene Markers	NSCs/NPCs ( <i>SOX2, PAX6, NES, SOX1</i> ); NPC/ DA Neurons ( <i>RALDH1, RALDH2, EN1, EN2, MSX1, FOXA2, LMX1B</i> ); Mature neurons ( <i>ChAT</i> ); General & DA neuron ( <i>TH</i> ); DA Neurons ( <i>CALB1, NR4A2, PITX3, DDC3</i> )	.....	50/75 reactions	2	Pack
295	Genomic Cleavage Detection Kit	Genome editing with CRISPR/Cas9 syytem	kit (test)	20 reactions	2	Kit
296	Genomic DNA and RNA extraction kit	Up to 95% recovery of ready-to-use DNA, For purification of total DNA from animal blood and tissues and from cells, yeast, bacteria, or viruses with Spin Columns, Buffers, Collection Tubes (2 ml)	KIT (reaction)	250 reactions	2	Kit
297	Gentamicin solution	• Tissue Culture grade • 50 mg/mL gentamicin • Sterile-filtered • Bio Reagent • Suitable for hybridoma	Bottle (ml)	20ml	2	Bottle (ml)
298	Glacial acetic acid	ACS grade	Bottle ( ml)	2.5 lit	1	Bottle
299	Glass beads	acid-washed, bead size: 150-212 µm), seive size :70-100 U.S)	Pack/Bottle (gram)	500 g	2	Pack
300	Glass beads for preservation of microorganisms	withsatnd temperature from -80 to 200 °C, for preservation of microorganisms, bead size: 4 mm Acid Washed Glass Beads	Bottle (grams)	200 grams	20	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
301	glass Beakers	Pyrex® borosilicate glass, autoclaavable, (5 ml)	number	unit beaker	10	No's
302	glass Beakers	Pyrex® borosilicate glass, autoclaavable, (10 ml)	number	unit beaker	10	No's
303	glass Beakers	Pyrex® borosilicate glass, autoclaavable, ( 50 ml)	number	unit beaker	10	No's
304	glass Beakers	Pyrex® borosilicate glass, autoclaavable, ( 100 ml)	number	unit beaker	10	No's
305	glass Beakers	Pyrex® borosilicate glass, autoclaavable, (250 ml)	number	unit beaker	10	No's
306	glass Beakers	Pyrex® borosilicate glass, autoclaavable, (500 ml)	number	unit beaker	10	No's
307	glass Beakers	Pyrex® borosilicate glass, autoclaavable, (1000 ml)	number	unit beaker	10	No's
308	glass Beakers	Pyrex® borosilicate glass, autoclaavable, (2000 ml)	number	unit beaker	10	No's
309	Glass pipettes	5ml glass pipettes	Pack/case (number)	500	2	Pack
310	Glass slides	Glass slides,Swiss water-white glass substrate with labelling tag, cover slips: TMX , 22 x 22 x 0.18mm	box (number)	50 No's	20	Box
311	Gloves Powder Free	powder / latex free, nitrile, all sizes	box	10	20	Box
312	Glucose	microbiology grade	Bottle (gram)	1 kg	1	Bottle
313	GlutaMAX™-I Supplement	pH 4.7-6.0; 100X	Bottle (ml)	50 mL	10	Bottle
314	GlutaMAX™-I Supplement+B14:G17B14:F17B12B14:H17B14:H18	pH 4.7-6.0; 100X	Bottle	20 x 100ML	1	Bottle
315	Glycerol	Glycerol for molecular biology, ≥99% , Clear Colorless Liquid	Bottle (ml)	500ml	3	Bottle
316	Glycerol	99%	Bottle (ml)	2.5 litre	5	Vial
317	Glycerol	reagent grade	Bottle (ml)	1 lit	1	Bottle
318	Glycerol Trioleate	≥99%	vial (g)	1g	1	Vial
319	Glycine	Glycine for electrophoresis, ≥99% White to Off White Appearance, Powder Form	Bottle (g)	1 Kg	1	Bottle
320	Glycine	ACS grade	Bottle (gram)	1 kg	2	Bottle
321	H2SO4	ACS grade	Bottle ( ml)	2.5 lit	1	Bottle
322	H3PO4 ortho phosphoric acid	ACS	Bottle (ml)	2.5litre	2	Bottle
323	HCl	ACS grade	Bottle ( ml)	2.5 lit	1	Bottle
324	Hektoen Enteric (HE) Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
325	Heparin	Grade I-A; powder; source porcine	vial (ug)	25 µg	4	Vial
326	HEPES (N-[2-hydroxyethyl]piperazine-N'[2-ethansulfonic acid])	≥99.5% (titration)	Bottle (g)	500g	1	Bottle
327	HEPES buffered saline	· Tissue culture grade 2× concentrate · Composition: o Dextrose 2.0 g/l o Hepes, 10g/l o KCl 0.74 g/l o NaCl 16g/l	Bottle (ml)	50ml	2	Bottle (ml)
328	Hexane	Anhydrous grade	Bottle ( ml)	1 lit	1	Bottle
329	Histopaque® -1077	Sterile filtered	Bottle	500ML	2	Bottle
330	Human Neural Stem Cell Immunocytochemistry Kit	Contains Alexa Fluor® 488, Alexa Fluor® 594, Alexa Fluor® 555; A24354; SOX1, SOX2, Nestin, PAX6	kit	20 test	1	kit
331	Hydrochloric Acid (HCl)	Hydrochloric acid 36.5-38.0%, BioReagent, for molecular biology	Bottle (ml)	2.5L	2	Bottle
332	Hydrochloric Acid (HCl)	Hydrochloric acid 36.5-38.0%, BioReagent, for molecular biology	Bottle (ml)	350 ml	1	Bottle
333	Hydrogen peroxide solution 30 %	Analytical grade	Bottle ( ml)	100 ml	2	Bottle
334	Hygromycin	Bio reagent	vial (gram)	10g	1	Vial
335	Hygromycin B	• Liquid • 5omg/ml • BioReagent • Suitable for cell culture • Suitable for insect cell culture	Bottle (ml)	20ml	2	Bottle (ml)
336	IEF Protein Markers	size range 3 to 10 pl, Unstained	vial (ul)	500ul	1	Vial
337	Immobiline DryStrip Cover Fluid	Immobiline DryStrip Cover Fluid	Bottle (ml)	1L	1	Bottle
338	Immobilized linear pH gradient (IPG) strips -11or12cm	11 or 12 cm, different pH ranges as per requirment	Pack (strip)	1 Pack (12 strips)	1	Pack
339	Immobilized linear pH gradient (IPG) strips- 13 or 14cm	13 or 14cm, different pH ranges as per requirment	Pack (strip)	1 Pack (12 strips)	1	Pack
340	Immobilized linear pH gradient (IPG) strips -17or18cm	17 or 18 cm, different pH ranges as per requirment	Pack (strip)	1 Pack (12 strips)	1	Pack
341	Immobilized linear pH gradient (IPG) strips -17or18cm,pH 3-10	17or18 cm for pH 3-10 and suitable rehydration buffer	Pack (strip)	1 Pack (12 strips)	2	Pack
342	Immobilized linear pH gradient (IPG) strips -17or18cm,pH4,7	17or18 cm for pH 4-7 and suitable rehydration buffer	Pack (strip)	1 Pack (12 strips)	2	Pack
343	Immobilized linear pH gradient (IPG) strips -24or25cm	24 or 25cm, different pH ranges as per requirment	Pack (strip)	1 Pack (12 strips)	1	Pack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
344	Immobilized linear pH gradient (IPG) strips- 7or 8cm	7 or 8 cm, different pH ranges as per requirement	Pack (strip)	1 Pack (12 strips)	1	Pack
345	Immobilized linear pH gradient (IPG) strips -7or8 cm,pH 4-7	7 or 8 cm, pH 4–7,IPG strip for first-dimension separations on IEF systems	Pack (strip)	1 Pack (12 strips)	5	Pack
346	Immobilized linear pH gradient (IPG) strips -7or8cm,pH 3-10	7 or 8 cm, pH 3–10,IPG strip for first-dimension separations on IEF systems	Pack (strip)	1 Pack (12 strips)	5	Pack
347	Inoculation loops calibrated loop diam. X L 10µL x 70 mm	Polypropylene Flexible Disposable Sterile Inoculating Loop,	1 Packts (number)	approx. 10	100	Pack
348	Insulin-Transferrin-Selenium-Sodium Pyruvate (ITS-A) (100X)	100X	vial (ml)	10 mL	5	Vial
349	Iodine	crystal form, microscopy, chemical grade	Bottle (gram)	100g	1	Bottle
350	Iodoacetamide	Bio Ultra	Bottle (g)	100 g	1	Bottle
351	IPG Buffer	For Rehydration of Immobiline DryStrip gels, IPG buffer pH 4-7	vial (ml)	pkg of 1 mL	12	Vial
352	IPG Buffer	For Rehydration of Immobiline DryStrip gels, IPG buffer pH 3-10	vial (ml)	pkg of 1 mL	12	Vial
353	IPG Buffer (for Linear pH gradient)	For Rehydration of Immobiline DryStrip gels of different pH (e.g pH 4-7,3-10,4.5-5.5,5-6,6-11)	vial (ml)	pkg of 1 mL each	1	Vial
354	IPG Buffer (for non linear pH gradient)	For Rehydration of Immobiline DryStrip gels of different non linear pH (e.g pH 3-10,7-11,3-6)	vial (ml)	pkg of 1 mL each	1	Vial
355	IPG strip holder cleaning solution	IPGphor strip holder cleaning solution	Bottle (ml)	950ml	1	Bottle
356	IPG strip storage tube (14cm)	For storage of IPG strip after 2D electrophoresis	box (number)	1 tube	5	Box
357	IPG strip storage tube (24cm)	For storage of IPG strip after 2D electrophoresis	box (number)	1 tube	1	Box
358	IPG strip storage tube (7cm)	For storage of IPG strip after 2D electrophoresis	box (number)	1 tube	5	Box
359	IPTG (Isopropyle thiogalactoside)	powder, microbiology grade	VIAL (gm)	1 gm	1	Vial
360	Iscove's Modified Dulbecco's Medium	• Liquid · Cell culture tested • Endotoxin tested • Sterile-filtered · Suitable for hybridoma	Bottle (ml)	500ml	10	Bottle
361	Isopropanol	70% in H2O	Bottle (ml)	1L	1	Bottle
362	Isopropanol	Analytical	Bottle ( ml)	2.5 litre	2	Bottle
363	Isopropyl alcohol	chemical grade	Bottle (ml)	1 lit	1	Bottle
364	K2HPO4	ACS grade	Bottle (gram)	1kg	2	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
365	K2SO4	ACS grade	Bottle (gram)	250g	1	Bottle
366	Kanamycin	• Powder • Bio Reagent • Suitable for cell culture	Bottle (gm)	25gm	2	Bottle (gm)
367	Kanamycin sulphate	Bio reagent	vials/Bottle (gram)	10g	1	Bottle
368	KCl	ACS grade	Bottle (gram)	250g	1	Bottle
369	KH2PO4	ACS grade	Bottle (gram)	1kg	2	Bottle
370	Kliger's Iron Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
371	KNO2	ACS grade	Bottle (gram)	250g	1	Bottle
372	KNO3,	ACS grade	Bottle (gram)	250g	1	Bottle
373	KNOCKOUT DMEM F12	No glutamine, No HEPES	Bottle (ml)	500 ml	10	Bottle
374	KnockOut™ Serum Replacement	Serum-free, Dry Ice Shipping	Bottle (ml)	500 mL	3	Bottle
375	KOH	ACS grade	Bottle (gram)	250 g	1	Bottle
376	Kovac's reagent	for indole test, microbiology grade	Bottle (ml)	100 ml	2	Bottle
377	Kovács oxidase reagent	microbiology media grade	Bottle (ml)	500 ml	2	Bottle
378	Krebs Ringer Bicarbonate Buffer (KRB)	1 X, without phenol red, without calcium chloride	Bottle	1000ml	2	Bottle
379	Krebs Ringer Buffer	Krebs Buffer	Bottle (ml)	10 x 3 mL	3	Bottle
380	Lactobacilli CRM broth	microbiology media grade	Bottle (gram)	500 g	1	Bottle
381	Lactobacilli MRS Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
382	Lactobacillus selection agar (LBS agar)	microbiology media grade	Bottle (gram)	500 g	1	Bottle
383	Lactophenol Cotton Blue	fungal staining, solution, microbiology grade	Bottle ( ml)	100 ml	2	Bottle
384	Lactose	microbiology grade	Bottle (gram)	1 kg	1	Bottle
385	Lactose monohydrate	≥99% total lactose basis (GC)	Bottle (g)	1 Kg	1	Bottle
386	Laminin	powder, Dry Ice Shipping req.	vial (ml)	50 mL	10	Vial
387	Lard oil	Chemical grade	Bottle ( ml)	250 ml	1	Bottle
388	L-cysteine	Analytical grade, water soluble	Bottle (gram)	500 g	1	Bottle
389	L-Glutamine	200mM, Dry Ice	Bottle	100 mL	3	Bottle
390	L-Glutamine solution	• Solution • 20mM • sterile-filtered • Suitable for cell culture	Bottle (ml)	100ml	2	Bottle (ml)
391	L-Glutamine–Penicillin–Streptomycin solution	• 200 mM L-glutamine • 10,000 U penicillin • 10 mg streptomycin/mL in 0.9% NaCl • Sterile-filtered • Bio Reagent • Suitable for cell culture	Bottle (ml)	100ml	2	Bottle (ml)

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
392	Lipofectamine (transfection reagent)	<ul style="list-style-type: none"> <li>Established Cell Lines, Hard-to-Transfect Cells, Primary Cells, Stem Cells</li> <li>Plasmid DNA, RNAi Plasmids (shRNA, miR), Synthetic siRNA</li> <li>Lipid-Based Transfection</li> <li>Serum Compatible</li> </ul>	Bottle (ml)	15ml	2	Bottle (ml)
393	Lipofectamine transfection reagent	For co-transfection of siRNA and plasmid DNA	vial (ml)	1.5 mL	2	Vial
394	liquid filter	polypropylene housing, cellulose acetate material, 50mm diameter, flat disc, hydrophilic	Pack (number)	25	2	No's
395	Liquid Neurobasal @A-Medium	1X, Serum free	Bottle	500ML	10	Bottle
396	LJ medium	microbiology media grade	Bottle (gram)	500 g	1	Bottle
397	Luria agar	microbiology media grade	Bottle (gram)	500g	1	Bottle
398	Luria broth	microbiology media grade	Bottle (gram)	500g	1	Bottle
399	Lysozyme	Analytical grade	Bottle (gram)	10 g	2	Bottle
400	M17 Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
401	Macconkey's agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
402	Magnesium chloride	anhydrous, ≥98%	Bottle (g)	500g	2	Bottle
403	Magnetic beads	,Set of 18. two (2): 10x6mm, 15x6mm, 20x7mm, 25x8mm, 30x8mm, 40x8mm, 50x8mm, 60x10mm, 80x10mm (PTFE)	set (number)	12	6	Set
404	Malachite green oxalate salt	chemical/ microbiological grade	Bottle (gram)	100g	1	Bottle
405	Mannitol	microbiology grade	Bottle (gram)	1 kg	1	Bottle
406	MANNITOL SALT AGAR (MSA)	microbiology media grade	Bottle (gram)	500 g	1	Bottle
407	Matrigel;Corning Matrigel Matrix	Growth Factor Reduced (GFR) Basement Membrane Matrix	Bottle (ml)	10 mL	5	Bottle
408	Matrigel;Corning Matrigel Matrix	LDEV free, Dry Ice Shipping	vial	10 mL	3	vial
409	Matrigel;Corning Matrigel Matrix	Growth Factor Reduced (GFR) Basement Membrane Matrix, contains heparin sulfate proteoglycan (perlecan), TGF-β, epidermal growth factor, insulin-like growth factor, fibroblast growth factor, tissue plasminogen activator, and other growth factors	vial	10 mL	5	vial
410	Meat liver agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
411	Media Bottles	blue capped, 50 ml, autoclavable, highly durable white ceramic, blue screw cap with pouring ring/ sealer	Bottle (number)	10	20	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
412	Media Bottles	blue capped, 100 ml, autoclavable, highly durable white ceramic, blue screw cap with pouring ring/ sealer	Bottle (number)	10	20	Bottle
413	Media Bottles	blue capped, 250 ml, autoclavable, highly durable white ceramic, blue screw cap with pouring ring/ sealer	Bottle (number)	10	20	Bottle
414	Media Bottles	blue capped, 500 ml, autoclavable, highly durable white ceramic, blue screw cap with pouring ring/ sealer	Bottle (number)	10	20	Bottle
415	Media Bottles	blue capped, 1 litre, autoclavable, highly durable white ceramic, blue screw cap with pouring ring/ sealer	Bottle (number)	10	10	No's
416	Media Bottles	blue capped, 2.5 Liter, autoclavable, highly durable white ceramic, blue screw cap with pouring ring/ sealer	Bottle (number)	10	10	No's
417	MEM Non-Essential Amino Acids Solution	10 mM, 100X	Bottle	100ML	1	Bottle
418	MEM Non-Essential Amino Acids Solution (10 mM) 100X	100 mL in sustainable Packing, room temp.	Bottle (ml)	1mg	3	Bottle
419	Methanol	Methanol anhydrous, 99.8% , Color less liquid form	Bottle (ml)	2500 ml	5	Bottle
420	Methyl Orange Indicator	ACS reagent	Bottle (gram)	25g	1	Bottle
421	Methyl Red Indicator	ACS reagent, crystalline	Bottle (gram)	25g	1	Bottle
422	Methylene Blue	For microbial staining, microbiology grade	Bottle (gram)	100g	1	Bottle
423	Methylene Blue (Loeffler's)	bacterial stain, microbiology grade	Bottle (gram)	100 g	1	Bottle
424	MgCl <sub>2</sub>	ACS grade	Bottle (gram)	500g	1	Bottle
425	MgSO <sub>4</sub> .7H <sub>2</sub> O	ACS grade	Bottle (gram)	500g	1	Bottle
426	Micro amp 384 well reaction plate	Temperature accuracy and uniformity for fast, efficient PCR amplification	Pack/case (number)	50 plates	2	Pack
427	Micro amp 96 well reaction plate	Constructed from a single rigid piece of polypropylene in a 384-well format	Pack/case (number)	50 plates	3	Pack
428	Micro Centrifuge tube, 0.5 mL	Sterile, disposable, Micro Centrifuge tubes have an attached flat top cap, engraved graduations and are manufactured from high quality polypropylene.	polythene bag	Case qty. 5000	2	Pack
429	Micro Centrifuge tube, 1.5 mL	Sterile, disposable, Micro Centrifuge tubes have an attached flat top cap, engraved graduations and are manufactured from high quality polypropylene.	polythene bag	Case qty. 5000	1	Pack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
430	Micro Centrifuge tube, 2.0 mL	Sterile, disposable, Micro Centrifuge tubes have an attached flat top cap, engraved graduations and are manufactured from high quality polypropylene.	polythene bag	Case qty. 5000	2	Pack
431	Micro well Cell culture plates	Surface coating Nunclon delta, Sterile	Pack/case (number)	100	5	Pack
432	Micropipette tips	(1000uL)autoclavable, to fit different brands micropipette	Pack (number)	500/Pack	20	Pack
433	Micropipette tips	(200uL)autoclavable, to fit different brands micropipette	Pack (number)	500/Pack	20	Pack
434	Micropipette tips	(10uL)autoclavable, to fit different brands micropipette	Pack (number)	500/Pack	20	Pack
435	Micropipette tips	(1uL)autoclavable, to fit different brands micropipette	Pack (number)	500/Pack	20	Pack
436	Micropipette tips	(1000uL)autoclavable, to fit different brands micropipette	Pack	500	20	Pack
437	Micropipette tips	(100uL)autoclavable, to fit different brands micropipette	Pack	500	20	Pack
438	Micropipette tips	(10uL)autoclavable, to fit different brands micropipette	Pack	500	20	Pack
439	Micropipette tips	(1uL)autoclavable, to fit different brands micropipette	Pack	500	20	Pack
440	Micropipette tips ( 100-1000uL)	autoclavable, to fit into all the available micropipette tips of respective size	Pack (number)	Pack of 1000	2	Pack
441	Micropipette tips ( 100-1000uL)	autoclavable, to fit into all the available micropipette tips of respective size	Pack	Pack of 1000	5	Pack
442	Micropipette tips (100-1000 uL) filtered	autoclavable, to fit into all the available micropipette tips of respective size with sterile filter plug, free of RNase, DNase, ATP, pyrogen, bioburden, PCR inhibitors, endotoxin and DNA	box (rack)	Pack of 500	2	Box
443	Micropipette tips (1-10 uL)	autoclavable, to fit into all the available micropipette tips of respective size	Pack (number)	Pack of 1000	2	Pack
444	Micropipette tips (1-10 uL)	autoclavable, to fit into all the available micropipette tips of respective size	Pack (tips)	Pack of 1000	5	Pack
445	Micropipette tips (1-10 uL) filtered	autoclavable, to fit into all the available micropipette tips of respective size with sterile filter plug, free of RNase, DNase, ATP, pyrogen, bioburden, PCR inhibitors, endotoxin and DNA	box (rack)	Pack of 1000	2	Box
446	Micropipette tips (20-200 uL) filtered	autoclavable, to fit into all the available micropipette tips of respective size with sterile filter plug, free of RNase, DNase, ATP, pyrogen, bioburden, PCR inhibitors, endotoxin and DNA	box (rack)	Pack of 1000	2	Box

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
447	Micropipette tips (20-200uL)	autoclavable, to fit into all the available micropipette tips of respective size	Pack (number)	Pack of 1000	2	Pack
448	Micropipette tips (20-200uL)	autoclavable, to fit into all the available micropipette tips of respective size	Pack	Pack of 1000	5	Pack
449	milk broth	microbiology media grade	Bottle (gram)	500 g	1	Bottle
450	Miller-GP Syringe filter unit,	disposable, pore size 0.22 µm, diam. 33 mm, sterile; γ-irradiated	1 box (number)	approx 1000	1	Box
451	Mineral oil	Mineral oil for use with IEF systems	Bottle (ml)	500ml	3	Bottle
452	MitoPT™ JC-1 Assay Kit	MitoPT JC-1 Reagent (one 400-test vial, # 6260), 10x Assay Buffer (2 x 125 mL, # 6259), 50 mM CCCP mitochondrial depolarizing agent (0.6 mL vial, # 6258)	kit (test)	400 tests	1	Kit
453	MitoPT™ JC-1 Assay Kit	MitoPT JC-1 Reagent (one 400-test vial, # 6260), 10x Assay Buffer (2 x 125 mL, # 6259), 50 mM CCCP mitochondrial depolarizing agent (0.6 mL vial, # 6258)	vials	400 tests	1	vials
454	MnCl <sub>2</sub> .4H <sub>2</sub> O	ACS grade	Bottle (gram)	250g	1	Bottle
455	MRS broth	microbiology grade	Bottle (gram)	500g	2	Bottle
456	mTeSR™ 1 Medium	Contains BSA, rh bFGF, rh TGFβ, Lithium Chloride, Pipicolinic acid, GABA	Bottle (ml)	100 mL	2	Bottle
457	mTeSR™ 1 Medium	Contains BSA, rh bFGF, rh TGFβ, Lithium Chloride, Pipicolinic acid, GABA	Kit	1L	2	Kit
458	Mueller-Hinton agar (MHA)	microbiology media grade	Bottle (gram)	500 g	1	Bottle
459	N,N,N',N'-Tetramethylethylenediamine (TEMED)	Bio Reagent, suitable for electrophoresis, ~99% , Clear Appearance, Colorless to Faint Yellow Appearance, Liquid form	Bottle (ml)	100ml	4	Bottle
460	N,N-Dimethyl-1-naphthylamine	Analytical grade	Bottle ( ml)	25 ml	1	Bottle
461	N-2 Supplement	100X; Dry ice shipping req.	Bottle (ml)	20 x 100ML	1	Bottle
462	N-2 Supplement	100X; Dry ice shipping req.	vial	5 mL	10	vial
463	NA staining dye	for the detection of double stranded DNA	1 Vial (ul)	x 10000	5	Vial
464	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> .10H <sub>2</sub> O	ACS grade	Bottle (gram)	100g	1	Bottle
465	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> .10H <sub>2</sub> O	ACS grade	Bottle (gram)	250g	1	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
466	Na <sub>2</sub> HPO <sub>4</sub>	ACS grade	Bottle (gram)	1kg	1	Bottle
467	Na <sub>2</sub> HPO <sub>4</sub>	ACS grade	Bottle (gram)	1kg	1	Bottle
468	Na <sub>2</sub> SO <sub>4</sub>	ACS grade	Bottle (gram)	250g	1	Bottle
469	NaCl	ACS grade	Bottle (gram)	1kg	2	Bottle
470	NaH <sub>2</sub> PO <sub>4</sub>	ACS grade	Bottle (gram)	1kg	1	Bottle
471	Nalidixicacid	Bio reagent	vials/Bottle (gram)	10g	1	Bottle
472	NaMoO <sub>4</sub> .2H <sub>2</sub> O	ACS grade	Bottle (gram)	100g	1	Bottle
473	NaOH	ACS grade	Bottle (gram)	1kg	1	Bottle
474	Native Protein Markers	For Native PAGE system, Size Range: 20 to 1200 kDa, Unstained	Pack(ul)	1 Pack (5x50ul)	1	Pack
475	n-Butanol	anhydrous, 99.8%	Bottle (ml)	1L	1	Bottle
476	Needles (disposable)	Polypropylene Flexible Disposable Sterile Inoculating needles	Pack (number)	10	500	No's
477	Neomycin Sulfate	• Powder • BioReagent • Suitable for cell culture	Bottle (ml)	20ml	2	Bottle (ml)
478	Nessler's Reagent	microbiology grade	Bottle (ml)	100 ml	1	Bottle
479	NEUROBASAL MED SFM	No Glutamine	Bottle (ml)	500ML	10	Bottle
480	Neutral Red Indicator	practical grade	Bottle (gram)	25g	1	Bottle
481	NH <sub>4</sub> Cl	ACS grade	Bottle (gram)	500g	1	Bottle
482	Nigrosin	protozoal staining, water soluble, powdered form	Bottle (gram)	100g	1	Bottle
483	Nitrocellulose membranes	Unsupported 100% pure nitrocellulose membrane validated for use with all ECL Western and protein blotting applications	Roll (cm)	1 roll	1	Roll
484	nitrate broth	microbiology media grade	Bottle (grams)	500g	2	Bottle
485	Nitrate reduction test: reagent A	microbiology media grade	Bottle (ml)	500ml	2	Bottle
486	Nitrate reduction test: reagent B	microbiology media grade	Bottle (ml)	500ml	2	Bottle
487	Nitrocellulose membranes	100% pure nitrocellulose membrane validated for use with all ECL Western and protein blotting applications	Roll (cm x m)	1 roll	1	Roll

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
488	Nitrocellulose membranes	100% pure nitrocellulose membrane validated for use with all ECL Western and protein blotting applications Membrane; Protein Blotting; Amersham; Hybond ECL; Unsupported Nitrocellulose; 0.45µm pore size; High sensitivity, resolution; Low background; In airtight resealable aluminum bag w/label space; 30cm x 3m; 1 roll	ROLL (cm x m)	1 roll	1	Roll
489	Nutrient Agar	microbiology media grade	Bottle (gram)	500g	1	Bottle
490	nutrient agar	for molecular biology, nonselective for Escherichia coli and Coliforms	Bottle (gm)	1KG	2	Bottle
491	nutrient broth	for microbiology ,Suitable for the growth of more fastidious bacteria,isolation and enrichment as well as providing a high grade base for the preparation of special media	Bottle (gm)	1 KG	2	Bottle
492	Nutrient broth	microbiology media grade	Bottle (gram)	500g	1	Bottle
493	Orange G	tracking dye powder	Bottle (gm)	25 g	1	Bottle
494	Ortho-phosphoric acid	ACS reagent, ≥85 wt. % in H <sub>2</sub> O	Bottle (ml)	2.5L	1	Bottle
495	Oxigall	Chemical grade, dried, unfractionated	Bottle (gram)	100g	2	Bottle
496	oxygen cylinder	Universal size cylinder	unit cylinder	unit cylinder	3	No's
497	Paper towel	Blue Roll Paper Hand Towels high wet strength and good water adsorption.1 ply,recycled,20cm roll width	ROLL (cmxm or gram)	150 meters	2	Roll
498	Paper towel ply	Box 3000 ZFold Paper Hand Towels 23x24cm 1 Ply Blue	Pack of sheets	3000 tissues	2	Pack
499	Paper towel roll	Blue Roll Paper Hand Towels high wet strength and good water adsorption.1 ply,recycled,20cm roll width	ROLL cmxcm	150 meters	2	Roll
500	Parafilms	Small piece of this film will seal test tubes, beakers, flasks, culture tubes, etc. Resistant to most acids and alcohols yet is gas permeable	Roll (cm)	1	7	Roll
501	PBS	PH 7.4, 10X	Bottle (ml)	10 x 500ML	25	Bottle
502	PBS tablets	PBS is specifically developed for immunological and microbiological laboratories. Ph 7.4	Bottle (tablets)	100 tablets	1	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
503	PCR plates	Optical 96-Well Reaction Plate with Barcode is optimized to provide unmatched temperature accuracy and uniformity for fast, efficient PCR amplification	BOX (UNIT PLATE)	20 plates	5	Box
504	PCR purification kit	Up to 95% recovery of ready-to-use DNA For purification of PCR reactions: with Spin Columns, Buffers, Collection Tubes (2 ml)	KIT (reaction)	50 reactions	6	Kit
505	PCR strips	DNase / RNase / PCR inhibitor-free, 8-strip tubes with caps	Pack/case (number)	300	5	Pack
506	PCR strips	0.2 ml colored preferably, with lids	1 Packet (number)	1000	4	Pack
507	pcr tube rack with lid	PCR Tube Rack 96-Well, •Sturdy polypropylene rack accommodates individual 0.2ml tubes	UNIT (number)	number	5	No's
508	PCR tube with lid	0.2 ml coloured preferable, high quality, heat resistant	1 Packet (number)	1000	4	Pack
509	PCR tubes	DNA / RNase / PCR inhibitor-free, 8-strip tubes with caps	Pack/case (number)	2,000 tubes	2	Pack
510	Penicillin	• 100X • Tissue Culture Grade • Sterilized by $\gamma$ -irradiation • Spectrum: Gram-positive and Gram-negative bacteria	Bottle (ml)	20ml	2	Bottle
511	PENICILLIN STREPTOMYCIN SOL	100X Liquid, Dry Ice	Bottle (ml)	100 mL	10	Bottle
512	Penicillin-Streptomycin, liquid	• 100X • A mixture of penicillin and streptomycin • Supplied as 100X concentrated. • Sterilized by $\gamma$ -irradiation. • Spectrum: Gram-positive and Gram-negative bacteria.	Bottle (ml)	20ml	2	Bottle (ml)
513	Penicillin-Streptomycin-Neomycin (Antibiotic Mixture)	• Liquid • BioReagent • Suitable for cell culture	Bottle (ml)	50ml	2	Bottle (ml)
514	Peptone	microbiology media grade	Bottle (gram)	500 g	1	Bottle
515	Pestle	5.5" length	Pack/case (number)	Case qty. 50	4	Pack
516	Petri Dishes	Non treated, gripping ring, 60 x 15mm	Pack/case (number)	Case qty. 500	1	Pack
517	Petri Dishes	Non treated, gripping ring, 60 x 15mm	polythene bag	Case qty. 500	1	Pack
518	Petri plate	microbiology grade, sterile, non-vented	Pack (plates)	20/ Pack	3	Pack
519	Petri Plate L- shaped Spreader disposable	Polypropylene	number	500 per case	10	No's
520	ph 10 buffer	pH Calibration Buffer Solutions	POUCH (ml)	20ml pouches	1	Pouch

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
521	ph 4 and 7 and 10 buffer	pH Calibration Buffer Solutions	POUCH	20ml pouches each	1	Pouch
522	ph 4 buffer	pH Calibration Buffer Solutions	POUCH (ml)	20ml pouches	1	Pouch
523	ph 7 buffer	pH Calibration Buffer Solutions	POUCH (ml)	20ml pouches	1	Pouch
524	pH buffer solution tablets	tablet form in to be dissolved	tablets	100	2	Tablet
525	ph probe storage buffer	A solution for refilling and storage of pH probes	Bottle	300 ml	1	Vial
526	ph probe storage buffer	A solution for refilling and storage of pH probes	Bottle (ml)	300 ml	1	Bottle
527	Phenol	ACS grade	Bottle (ml)	1 lit	1	Bottle
528	Phenol nitroprusside solution	Analytical grade	Bottle ( ml)	100 ml	1	Bottle
529	Phenol Red sodium salt	ACS reagent, crystalline	Bottle (gram)	25g	1	Bottle
530	Phenolphthalein	ACS reagent, powder	Bottle (gram)	100g	1	Bottle
531	Phenylethyl Alcohol Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
532	Phosphate buffered saline	powder, pH 7.4	Pack	10 Pack	1	Pack
533	Phosphate Buffered Saline	PH 7.4, 10X	Bottle	500ML	1	Bottle
534	Phthaldialdehyde Reagent complete solution	analytical grade	Bottle ( ml)	50 ml	1	Bottle
535	Phusion® High-Fidelity PCR Master Mix with HF Buffer	2X Master Mix with Standard Buffer	VIAL (reactions)	100 reactions/ 50 ul	5	Vial
536	Phusion® High-Fidelity PCR Master Mix with HF Buffer	2X Master Mix with Standard Buffer	VIAL (reactions / ul)	100 reactions/ 50 ul	1	Vial
537	Pipet, Aspirating, 1 mL	Disposable, No Plug, No Grads	Pack/case (number)	Case qty. 400	2	Pack
538	Pipet, Aspirating, 2 mL	Disposable, No Plug, No Grads	Pack/case (number)	Case qty. 400	2	Pack
539	Pipet, Aspirating, 5 mL	Disposable, No Plug, No Grads	Pack/case (number)	Case qty. 200	2	Pack
540	Pipet, Serological, 10 mL	Disposable, Grade A, pipets are gamma irradiated and supplied sterile, RNase-, DNase- and DNA-free as well as non-pyrogenic	Pack/case (number)	Case qty. 200	2	Pack
541	Pipet, Serological, 1mL	Disposable, Grade A, pipets are gamma irradiated and supplied sterile, RNase-, DNase- and DNA-free as well as non-pyrogenic	Pack/case (number)	Case qty. 800	2	Pack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
542	Pipet, Serological, 2 mL	Disposable, Grade A, pipets are gamma irradiated and supplied sterile, RNase-, DNase- and DNA-free as well as non-pyrogenic	Pack/case (number)	Case qty. 600	2	Pack
543	Pipet, Serological, 25mL	Disposable, Grade A, pipets are gamma irradiated and supplied sterile, RNase-, DNase- and DNA-free as well as non-pyrogenic	Pack/case (number)	Case qty. 200	2	Pack
544	Pipet, Serological, 5 mL	Disposable, Grade A, pipets are gamma irradiated and supplied sterile, RNase-, DNase- and DNA-free as well as non-pyrogenic	Pack/case (number)	Case qty. 200	2	Pack
545	Pipet, Serological, 50 mL	Disposable, Grade A, pipets are gamma irradiated and supplied sterile, RNase-, DNase- and DNA-free as well as non-pyrogenic	Pack/case (number)	Case qty. 90	2	Pack
546	Pipette tips with and without filter (10-1000 ul)	Tips include an endotoxin-free micro porous hydrophobic filter	Pack/case (number)	10 BOXES	10	Pack
547	Plasmid DNA extraction kit	Up to 95% recovery of ready-to-use DNA , For isolation of high-purity plasmid miniprepwith Spin Columns, Buffers, Collection Tubes (2 ml)	KIT (reaction)	250 reactions	2	Kit
548	Plasmid DNA extraction kit	Up to 95% recovery of ready-to-use DNA , For isolation of high-purity plasmid miniprepwith Spin Columns, Buffers, Collection Tubes (2 ml)	KIT (REACTIONS)	250 reactions	2	Kit
549	Pluripotent Stem Cell 4-Marker Immunocytochemistry Kit	Complete set of primary and secondary antibodies, a nuclear DNA stain, and premade buffers for an optimized staining experiment.	kit (tests)	40 (tests)	3	Kit
550	Poly HEMA	Powder, water-swallowable polymer, hydrogel	vial	10G	2	vial
551	poly propylene glycol 2000	density 1 gm/ml at 20°C, viscosity 450 mPa.s at 20°C	Bottle (ml)	1 litre	6	Vial
552	Poly-D-Lysine	Lyophilized powder; -20°C	vial (reactions)	1000 reactions kit	1	Kit
553	Poly-D-Lysine	Lyophilized powder; -20°C	vial	5MG	2	vial
554	Polyornithine	powder	poly Bottle	50MG	1	poly Bottle
555	polyoxyethylene cholesteryl sebacate (CHOLESTEROL-PEG 600)	water soluble	Bottle (gram)	5 g	2	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
556	Potassium chloride	for molecular biology, ≥99.0%	Bottle (g)	1 Kg	1	Bottle
557	Potassium Chromate	ACS grade, water soluble	Bottle (gram)	100 g	1	Bottle
558	Potassium hydroxide	=85% KOH basis, pellets, white	Bottle (g)	1 kg	1	Bottle
559	Potassium Iodide	anhydride, microscopy, chemical grade	Bottle (gram)	100 g	1	Bottle
560	Potassium nitrate	ACS grade	Bottle (gram)	250 g	1	Bottle
561	Potassium Oxalate monohydrate	ACS grade	Bottle (gram)	250 g	1	Bottle
562	Potassium phosphate dibasic	ACS reagent, =98%	Bottle (g)	500g	2	Bottle
563	Potassium phosphate monobasic	ACS reagent, =99.0%	Bottle (g)	500g	2	Bottle
564	Potassium tellurite hydrate	analytical grade (for coryne and rhodobacter)	Bottle (gram)	50 g	1	Bottle
565	Potato dextrose agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
566	Premixed Acrylamide:Bis-Acrylamide Solutions (30% mix ratio)	30% mix ratio, 37.5:1(2.7% cross-linker concentration), Clear appearance Liquid form for electrophoresis	Bottle (ml)	500ml	2	Bottle
567	Prestained protein Ladder	Multicolor Broad Range Protein Ladder	Pack (ul)	02 x 250 ul	6	Pack
568	Primary antibodies	As per requirment (For ELISA and Western blotting)	vial (ul)	1 vial	1	Vial
569	Primers	to be designed as needed,	vial (per bp)	18-23 bp	30	Vial
570	Primers (PCR) and Antibodies (FACS)	NSCs/ NPCs, Housekeeping genes & DA Neurons	..... .....	50 reactions	2	Pack
571	Probes	to be designed as needed , for southern blotting	vial (m.moL)	5-30 bp	2	Vial
572	Proline	ACS grade	Bottle (gram)	100g	1	Bottle
573	Protease inhibitor cocktail	DMSO solution form , Inhibits serine, cysteine, aspartic, and metalloproteases.	vial (ml)	5ml	1	Vial
574	Protease inhibitor cocktail	20 tablets individually Packed in foil blister Packs, each tablet is sufficient for a volume of 50 ml extraction solution	Pack (tablets)	20 tablets/ Pack	2	Pack
575	Protein Enrichment Kits	10 preps, low-abundance protein enrichment kit for 10 mg of total protein, includes 10 spin columns, wash buffer, elution reagents, collection tubes	1 Pack (preparation)	1 Pack ( 10 preps)	1	Pack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
576	Protein Extraction Kit (Total Protein)	50 preps, general purpose protein preparation kit, includes precipitation agent unaffected by detergents, chaotropic agents, and other common reagents	kit (reactions/preps)	1 kit (50 preps)	1	Kit
577	protinase K	Removal of endogenous nucleases during the preparation of DNA and RNA; preparation of tissue sections for <i>in situ</i> hybridization.	Bottle (mg)	100 mg	1	Bottle
578	PSC 4 Marker ICC Kit	Alexa Fluor® 488, 2 Color, Alexa Fluor® 594, Alexa Fluor® 555; A24881	kit (test)	20 test	10	Kit
579	PSC Neural Induction Medium	Contains 500 mL Basal medium & 10 mL Supplement	Bottle	500 mL	5	Bottle
580	Puromycindihydrochloride	• Powder • BioReagent • Suitable for cell culture	Bottle (mg)	100mg	2	Bottle (mg)
581	PVA (poly vinyl alcohol)	99% hydrolysed	Bottle	1KG	2	Bottle
582	PVDF Membrane	Pore size 0.2 µm, 26 cm x 3.3 m, bulk membrane for high binding (150–160 µg/cm <sup>2</sup> ) immunoblotting	roll (cmxm)	1 roll	1	Roll
583	Pyridoxal 5'-phosphate monohydrate	analytical grade	Bottle (gram)	25g	1	Bottle
584	RAFT™ 4 x 96-well bundle kit	Contains collagen, 10x MEM, neutralizing solution, Mixing vessel (chilled to 2–8°C)	Kit	4 x 96-well bundle kit	3	Kit
585	REC HU EGF	Recombinant human EGF	vial (ug)	10 UG	2	Vial
586	REC HU FGF BASIC	Recombinant human FGF-basic	vial (ml)	10 ML	2	Vial
587	Rec. Hu BDNF	Lyophilized	vial (µg)	100 µg	2	Vial
588	Rec. Hu BDNF	Lyophilized	vial	25 µg	2	vial
589	Rec. Hu GDNF	Lyophilized	vial (µg)	25 µg	3	Vial
590	Rec. Hu GDNF	Lyophilized	vial	50 µg	2	vial
591	Rec. Hu Noggin	Reconstitute at 100 µg/mL in PBS	vial (ml)	500ML	10	Vial
592	Rec. Hu Noggin	Reconstitute at 100 µg/mL in PBS	vial	100 µg	2	vial
593	Rec. mod. Hu Sonic Hedgehog C2411	Lyophilized	vial (µg)	50 µg	3	Vial
594	Rec. mod. Hu Sonic Hedgehog C2411	Lyophilized	vial	100 µg	2	vial
595	Recombinant Human FGF-8f; FGF8	Lyophilized	vial (ug)	10 UG	2	Vial
596	Reduction-Alkylation Kit	100 preps, general purpose protein preparation kit for reducing gel streaking and improving resolution of basic proteins	1 Pack (preparation)	1 Pack (100 preps)	1	Pack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
597	Restriction enzymes	hindi 111, xba 1, not1 hf, sac 1 , pac1, xho1, bam h1, eco rv, ecor 1, (+to be order as per needed)20,000 units/ml 20,000 units/ml	VIAL (units)	10,000 units/ vial	2	Vial
598	RNA 6000 Nano Kit	RNA Integrity analysis with microchips	kit (tests)	300 (tests)	3	Kit
599	RNA 6000 Nano LabChip kit	It includes 25 microfluidic chips, reagents and consumables	Kit	300 samples	2	Kit
600	RNA 6000 Nano LabChip kit	It includes 25 microfluidic chips, reagents and consumables	Kit	300 samples	2	Kit
601	RNA 6000 Nano Ladder	RNA Integrity analysis	kit (tests)	25 (tests)	5	Kit
602	RNA 6000 Nano Reagents	RNA Integrity analysis	kit (tests)	25 (tests)	5	Kit
603	RNA- c DNA Kit	High yield and purity	kit (reactions)	50 reaction	5	Kit
604	RNA extraction kit	High yield and purity	kit (reactions)	100 reactions	5	Kit
605	RNA Extraction Kit ;TaqMan® MicroRNA Cells-to-CT™ Kit	Less hazardous, Fewer resources used, Less waste, Dry ice shipping	Kit	100 rxns	3	Kit
606	RNA Extraction Kit ;TaqMan® MicroRNA Cells-to-CT™ Kit	Less hazardous, Fewer resources used, Less waste, Dry ice shipping	Kit	100 rxns	1	Kit
607	Rock Inhibitor-Y27632	Soluble to 100 mM in water	vial	10mg	2	vial
608	RPMI 1640 medium	No Sodium Pyruvate and HEPES, L-Glutamine	Bottle (ml)	1000ML	10	Bottle
609	RPMI 1640 medium	No HEPES, No Sodium Pyruvate, liquid,	Bottle	500 mL	4	Bottle
610	RPMI-1640 Medium	• Liquid • Cell culture tested • Endotoxin tested • Sterile-filtered	Bottle (ml)	500ml	10	Bottle
611	Sabroud dextrose agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
612	Safranin O	microbiology,	Bottle (gram)	100g	1	Bottle
613	Saranwrap	Material polyethylene and clear in colour	ROLL (inch x ft)	1 roll	1	Roll
614	Saranwrap	food grade, clear, cutting bar	ROLL (cmx cm)	1 ROLL	1	Roll
615	SB431542 ;TGFβ inhibitor	99% pure Soluble in DMSO	vial	50 mg	2	vial
616	Screw Cap Eppendorf	graduated autoclavble, research grade ((1.5, 2 ml)	Pack (number)	500	2	Pack

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
617	Screw Cap Eppendorf	These tubes are made from an ultra-clear resin that allows you to easily view the contents. They feature universal screw threads for use with most popular brand screw caps. Low-profile caps include an ethylene propylene O-ring, ensuring a secure seal. Tubes also feature a smooth surface for applying labels. Tubes fit most common rotors. Tubes and caps are autoclavable at 122°C (251°F) and freezable to –90°C (–130°F). Sterile tubes are radiation sterilized. Certificate available to verify lot-by-lot testing., graduated, free standing	BAG (number)	500	2	Pack
618	Screw capped disposable tubes 10 ml	sterile, polypropylene	unit (number)	50	5	No's
619	Screw capped glass tubes	round bottom capacity 10 ml, 20 ml, borosilicate glass, autoclavable, screw capped with sealer	Pack (number)	100	5	Pack
620	Screw capped glass tubes	round bottom capacity 20 ml, borosilicate glass, autoclavable, screw capped with sealer	Pack (number)	100	5	Pack
621	SDS-PAGE Clean-Up Kit	Prepares samples for SDS-PAGE that are otherwise difficult to analyze because of salts or low protein concentrations	kit (preparation)	1 kit ( 50 preparation )	2	Kit
622	Secondary antibodies (Enzyme labelled)	As per requirement (For ELISA and Western blotting)	vial (ul)	1 vial	1	Vial
623	Sephadex	Gel filtration medium used in gel filtration chromatography , Sephadex G-10	Bottle (g)	50 g	1	Bottle
624	Sephadex	Gel filtration medium used in gel filtration chromatography , Sephadex G-25	Bottle (g)	50 g	1	Bottle
625	Sephadex	Gel filtration medium used in gel filtration chromatography , Sephadex G-50	Bottle (g)	50 g	1	Bottle
626	Sephadex	Gel filtration medium used in gel filtration chromatography , Sephadex G-75	Bottle (g)	50 g	1	Bottle
627	Sephadex	Gel filtration medium used in gel filtration chromatography , Sephadex G-100	Bottle (g)	50 g	1	Bottle
628	Serological Pipettes	· Material: PS · Volume: 05ml	Bag (number)	50	10	Bag
629	Serological Pipettes	· Material: PS · Volume: 10ml	Bag (number)	50	10	Bag

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
630	Serological Pipettes	Material: PS Volume: 25ml	Bag (number)	50	10	Bag (number)
631	Serological Pipettes	Material: PS Volume: 50ml	Bag (number)	50	10	Bag (number)
632	Set of borers	stainless steel, autoclavable, different sizes of borers	number	unit borer	4	No's
633	Short Gel glass plates	Electrophoresis Short glass plates size 10.1 x 7.3 cm	box (number)	1 box (contain 5 plates)	2	Box
634	silicone tubing	4.8mm internal diameter, 8.0 external diameter, autoclavable	length in foot	25 foot	2	Foot
635	silicone tubing	8mm internal diameter, 12.8 external diameter, autoclavable	length in foot	25 foot	1	Foot
636	Silver boxes for glass pipets	,withstand up to 200 degree celcius, Sterlizing Pipette Boxes- Aluminium-Square , Dimensions: External length: 215mm, Internal length: 180mm, Square: 70mm	box (number)	10	10	No's
637	Simmon citrate agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
638	Skimmed milk agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
639	SOC	rich media used primarily in the recovery step of <i>Escherichia coli</i> competent cell transformations. Molecular biology grade, 0.2 um filtered	Bottle (ml)	100 ml	5	Bottle
640	Sodium Acetate	anhydrous, ReagentPlus®, =99.0%	Bottle (g)	500g	1	Bottle
641	Sodium bicarbonate solution	• Solution (7.5%), • Sterile-filtered, • BioReagent • Suitable for cell culture	Bottle (ml)	500ml	1	Bottle (ml)
642	Sodium Citrate dihydrate	chemical grade	Bottle (gram)	500 g	1	Bottle
643	Sodium do decyl sulphate	White powder, free of foreign material.	Bottle (gm)	1 kg	1	Bottle
644	Sodium dodecyl sulfata (SDS)	White powder, free of foreign material.	Bottle (g)	1 kg	2	Bottle
645	Sodium Hydroxide (NaOH)	ACS reagent, ≥97.0%, pellets	Bottle (g)	1 Kg	2	Bottle
646	Sodium phosphate dibasic	>98.5%	Bottle (g)	500g	1	Bottle
647	Sodium phosphate monobasic	BioXtra, =99.0%	Bottle (g)	500g	2	Bottle
648	sodiumazide	ACS grade	Bottle (gram)	250 g	1	Bottle
649	Soya meal	microbiology media grade	Bottle (gram)	500g	1	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
650	Spacer glass plates	Electrophoresis Spacer plate size 10.1 x 8.2 cm	box (number)	1 box (contain 5 plates)	2	Box
651	Spatula	stainless steel, 18 inch, flate and round ended	unit spatula (number)	unit spatula	8	No's
652	Spatula	stainless steel, 12 inch flate and round ended	unit spatula (number)	unit spatula	8	No's
653	Spatula	stainless steel, rust free, different sizes	Pack (number)	unit spatula	5	Pack
654	Spatula	stainless steel, rust free , different sizes, different sizes at opposite ends, : (Preferred 7pcs of spatula )	Pack(number r)	Pack of 7	1	Pack
655	Spatulas	stainless steel, different sizes	number	unit spatula	2 each size	No's
656	Spirit Blue agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
657	Spray Bottle	fine mist 500 ml capacity	number	unit	3	No's
658	spreader	sterile , disposable	Packet (number)	10/ Pack	50	Pack
659	sprit lamp (for staining)	alcohol lamp, with cover, glass made	unit lamp	1	1	No's
660	stainless steel -80 racks	horizontal racks, dimension 136x135x78 (WxDxH)	racks (number)	Rack	100	No's
661	Stainless steel forceps,	Dissecting forceps recommended for heavy-duty works. Made with 410-Stainless Steel and features serrated points for strong grip and knurled handles for superb hold in wet/dry conditions.	UNIT (number)	number	3	No's
662	StemPro CD34+ Cell Kit	Hematopoietic stem cells	kit (tests)	50 (tests)	3	Kit
663	STEMPRO NEURAL SUPPLEMENT	serum-free medium supplement for the proliferation of mammalian neural stem and progenitor cells	vial (ml)	500ML	5	Vial
664	STEMPRO NSC SFM	Liquid Form	kit (mg)	1mg	5	Kit
665	STEMPRO NSC SFM kit Contains: Knock Out™ DMEM/F12, StemPro® Neural Supplement, FGF basic (AA 10–105) Recombinant Human; EGF Recombinant Human	No HEPES, Serum free, Liquid Form	Bottle and vials	1 Kit	1	Bottle and vials
666	StemPro® Accutase® Cell Dissociation	serum free, DI Shipping	Bottle	100mL	2	Bottle
667	Steri cups for filtration	Steritop Bottle top filter units provide a large filter area for rapid sterile filtration of aqueous fluids into narrow-mouth (33 mm) or wide-mouth (45 mm) Bottles	BOX (number)	approx 12/ BOX	3	Box

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
668	Stop watch	•4 Timer Channels, Each with 100 Hour Countdown, •Includes Clock, Stopwatch, and Time-Out, large LCD DISPLAY	number	unit	15	No's
669	Streptomycin	• Tissue Culture Grade • Sterilized by $\gamma$ -irradiation • Spectrum: Gram-positive and Gram-negative bacteria	Bottle (ml)	20ml	2	Bottle
670	Streptomycin sulphate	Bio reagent	vials/Bottle (gram)	10g	1	Bottle
671	Sucrose	microbiology grade	Bottle (gram)	1 kg	1	Bottle
672	SulfurIndole Motility Media	microbiology media grade	Bottle (gram)	500 g	1	Bottle
673	Sulphanilic Acid	ACS reagent	Bottle (gram)	25 g	2	Bottle
674	Suspension Culture Flask	flask vol. 25 mL	Pack/case (number)	Case qty. 200	1	Pack
675	Suspension Culture Flask	flask vol. 25 mL	case	Case qty. 200	1	case
676	SYBR Green real Time PCR Mix	A dual hot-start mechanism for excellent specificity	kit (reactions)	100 reactions	5	Kit
677	SYPRO Ruby gel stain	Protein Dye	Bottle (ml)	200ml	1	Bottle
678	Syringe Filter	· PES filter membrane · membrane pore size 0.22 $\mu$ m · minimal protein binding capacity	Bag (number)	40	2	Bag (number)
679	Syringe Filter	· PES filter membrane · membrane pore size 0.45 $\mu$ m · minimal protein binding capacity	Bag (number)	40	2	Bag (number)
680	Tannic acid	ACS grade	Bottle (gram)	500g	1	Bottle
681	Taq DNA polymerase with buffer	Taq DNA Polymerase is a specialized thermostable enzyme isolated from the thermophilic bacterium <i>Thermus</i> , , 5,000 units/ml	VIAL (units)	400 U / vial	10	Vial
682	Taq DNA polymerase with buffer	Taq DNA Polymerase is a specialized thermostable enzyme isolated from the thermophilic bacterium <i>Thermus</i> , , 5,000 units/ml	VIAL (units/ul)	400 U / vial	10	Vial
683	Taqman assay for gene expression	Probe spans the exons	kit (reactions)	75 runs	5	Kit
684	TaqMan assay for SNP Genotyping	specific for single nucleotide polymorphisms	kit (reactions)	100 reactions	2	Kit

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
685	Taqman fast advance master mix	Primer-Probe Detection	kit (reactions)	100 reactions	5	Kit
686	TaqMan Probes	Tips are without filter	kit (reactions)	100 reactions	2	Kit
687	TCEP {Tris(2-carboxyethyl)phosphine hydrochloride}	BioUltra, for electrophoresis, SDS-PAGE tested	Bottle (g)	10g	1	Bottle
688	Telomerase detection kit	in vitro PCR based assay compatible with real time PCR instrument	kit (tests)	224 (tests)	3	Kit
689	tert-Butylhydroquinone	chemical grade	Bottle (gram)	500g	1	Bottle
690	TES	ACS grade	Bottle (gram)	250 g	1	Bottle
691	Tetracycline	Bio reagent	vials/Bottle (gram)	10g	1	Bottle
692	Thallium acetate	Analytical grade (for mycoplasma)	Bottle (gram)	100 g	1	Bottle
693	Thiourea	ACS reagent, ≥99.0%	Bottle (g)	500g	1	Bottle
694	Thymol Blue sodium salt	ACS reagent	Bottle (gram)	25g	1	Bottle
695	Thymolphthalein Indicator sodium salt	ACS reagent	Bottle (gram)	50g	1	Bottle
696	Tissue Culture Dish (Large)	· Growth area: 60.1 cm <sup>2</sup> · Material: PS	Bag (number)	24	5	Bag
697	Tissue Culture Dish (Medium)	· Growth area: 22.1 cm <sup>2</sup> · Material: PS	Bag (number)	24	5	Bag
698	Tissue Culture Dish (Small)	· Growth area: 9.2cm <sup>2</sup> · Material: PS	Bag (number)	24	5	Bag
699	Tissue Culture Flask	12.5 cm <sup>2</sup> ; flask vol. 25 mL	Pack/case (number)	Case qty. 200	1	Pack
700	Tissue Culture Flask T25	· Dimensions: 92x51x29 · "VENT" and filter screw caps · Surface activated · Uniform flat growth surface · Crystal clear transparency · Highly visible bilateral marking area	Bag (number)	10	10	Bag (number)
701	Tissue Culture Flask T75	· Dimensions: 155 x 87 x 40 · "VENT" and filter screw caps · Surface activated · Uniform flat growth surface · Crystal clear transparency · Highly visible bilateral marking area	Bag (number)	5	20	Bag (number)

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
702	Tissue culture plate with gripping	60mm x 15 mm; 10/bags	Pack/case (number)	Case qty. 500	1	Pack
703	Tissue Culture Test Plates	· Six wells · opto-mechanical treatment of growth area for optimal cell adhesion · lid with air-venting system guarantees controlled gas exchange with low evaporation	Bag (number)	24	5	Bag (number)
704	Tissue Culture Test Plates	· 12 wells · opto-mechanical treatment of growth area for optimal cell adhesion · lid with air-venting system guarantees controlled gas exchange with low evaporation	Bag (number)	24	5	Bag (number)
705	Tissue Culture Test Plates	· 24 wells · opto-mechanical treatment of growth area for optimal cell adhesion · lid with air-venting system guarantees controlled gas exchange with low evaporation	Bag (number)	24	5	Bag (number)
706	Tissue Culture Test Plates	· 48 wells · opto-mechanical treatment of growth area for optimal cell adhesion · lid with air-venting system guarantees controlled gas exchange with low evaporation	Bag (number)	24	5	Bag (number)
707	Tissue Culture Test Plates	· 96 wells · opto-mechanical treatment of growth area for optimal cell adhesion · lid with air-venting system guarantees controlled gas exchange with low evaporation	Bag (number)	24	5	Bag (number)
708	Topo cloning kit	clong kit based on blunt end ligation	KIT (reactions)	50 REACTIONS	1	Kit
709	Transport swabs	microbiological media grade, amine transport	Pack (number)	125/Pack	25	Pack
710	Transport swabs	microbiological media grade, amine transport	Pack (number)	125	25	No's
711	TRAPEZE (Telomerase detection kit)	CHAPS Lysis Buffer (13.5mL), 5X TRAPEZE® RT Reaction Mix, 5X TRAPEZE® Control Reaction Mix, PCR - Grade Water, TSR8*, TSK*, Control Cell Pellet (Telomerase positive cells; 106 cells)	kit	224 rxns	1	kit

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
712	Tributyl Phosphine	≥93.5%	Bottle (ml)	100ml	2	Bottle
713	Trichloroacetic acid	ACS grade	Bottle (gram)	500 g	1	Bottle
714	Trichloroacetic acid (TCA)	ACS reagent, ≥99.0%	Bottle (g)	1 Kg	2	Bottle
715	Trifluoroacetic acid (TFA)	ReagentPlus®, 99%	Bottle (ml)	1 L	2	Bottle
716	Tris base	≥99.8% pure Tris base (Tris[hydroxymethyl]aminomethane or Trimethamine)	Bottle (gm)	1 kg	4	Bottle
717	Tris-EDTA buffer solution	• For molecular biology • 10 mM Tris-HCl, • 1 mM disodium EDTA • pH 8.0	Bottle (ml)	100ml	2	Bottle (ml)
718	Triton X100	ACS grade	Bottle ( ml)	1 lit	1	Bottle
719	Triton X-100	Liquid	Bottle (ml)	5 mL	10	Bottle
720	Triton x100	for molecular biology	Bottle (ml)	250ml	5	Bottle
721	Trizma Base	ACS grade	Bottle (gram)	1 kg	1	Bottle
722	Trypan Blue	• Liquid • Color: Blue • Platform: Light Microscope • Sub-Cellular Localization: Cytoplasm & Cytosol • Label or Dye: Trypan Blue • Detection Method: Colorimetric	Bottle (ml)	100ml	2	Bottle (ml)
723	Trypan Blue Stain	Solution 0.4 %	Bottle (g)	1 g	1	Bottle
724	Trypan Blue Stain	Solution 0.4 %	Bottle	100 mL	2	Bottle
725	Trypsin – Sequencing grade	Sequencing grade	vial (ug)	25ug	3	vial
726	Trypsin inhibitor from Glycine max (soybean)	• lyophilized powder • Bio Reagent • Suitable for cell culture	Bottle (gm)	10gm	2	Bottle (gm)
727	Trypsin-EDTA Solution 1X	• 0.12% trypsin • 0.02% EDTA • Trypsin gamma irradiated by SER-TAIN Process • Without phenol red, in Dulbecco's Phosphate Buffered Saline	Bottle (ml)	500ml	5	Bottle (ml)
728	Trypsin-EDTA, Phenol Red	0.25%; 1X Conc.	Bottle (ml)	4 X 100ML	1	Bottle
729	Tryptic soya agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
730	Trypticase	microbiology media grade	Bottle (grams)	500g	2	Bottle
731	Tryptone	microbiology media grade	Bottle (gram)	500 g	1	Bottle
732	Tryptone broth	microbiology media grade	Bottle (grams)	500g	2	Bottle
733	Tryptophane	Reagent grade	Bottle (gram)	250g	1	Bottle

Item No.	Name Of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
734	TSI Agar	microbiology media grade	Bottle (gram)	500 g	1	Bottle
735	Tube Tags	Pre-cut, peel-off, labels sized to fit microcentrifuge tubes, TOUGH-TAGS, White, For 1.5 to 2.0 mL Tubes,	ROLL (unit tags)	Pk. 1,000	2	Roll
736	Tubes tags (Normal)	Pre-cut, peel-off, labels sized to fit microcentrifuge and falcon tubes	Pack (number)	1000	2	Pack Each Size
737	Tubes tags (Normal)	Pre-cut, peel-off, labels sized to fit microcentrifuge and falcon tubes	Pack (number)	1 Pack	1000	Pack Each Size
738	Tween 20	for molecular biology, viscous liquid	Bottle (ml)	100ml	2	Bottle
739	Tween 20	ACS grade	Bottle (ml)	500 ml	1	Bottle
740	Tween 80	ACS grade	Bottle (ml)	500 ml	1	Bottle
741	Tweezers	stainless steel, curved tips	unit tweezer (number)	unit tweezer	4	No's
742	Tweezers	STAINLESS STEEL RUST FREE,	number	number	2	No's
743	UltraPure™ 0.5 M EDTA, pH 8.0	0.5 M, pH 8.0	Bottle	4 X 100ML	1	Bottle
744	Universal, 20 ml	Clear propylene tubes with screw cap lids, laboratory grade, sterile	Pack (tubes)	400/Pack	1	Pack Each Size
745	Universal, 5 ml	Clear propylene tubes with screw cap lids, laboratory grade, sterile	Pack (number)	400/Pack	2	Pack
746	Unstained Protein Ladder	SDS-PAGE, Size range 10 to 200kDa	Pack (ul)	02 x 250 ul	4	Pack
747	Urea	Urea for electrophoresis, > 98 % , White Powder or Crystals	Bottle (g)	1 kg	1	Bottle
748	Urea	chemical grade	Bottle (gram)	500 g	1	Bottle
749	Urea broth	microbiology media grade	Bottle (gram)	500 g	1	Bottle
750	Vancomycin	Bio reagent	vial (gram)	10g	1	Vial
751	Vented Cap for flask	70mm	Pack/case (number)	Case qty. 24	2	Pack
752	Water soluble starch	analytical grade	Bottle (gram)	500g	1	Bottle
753	Wattman filter papers	grade 1, sheet size , Blot Absorbent Filter Paper, 7.5 X10cm	sheet Pack	60 sheets	2	Pack
754	Weighing boats 100ML	Bend flexible boats at points to form pour spouts. Flat bottoms and sloping slides provide accurate transfer. These antistatic, polystyrene boats are non-reactive to most substances. Resist temperatures to 158 °F (70 °C).	number	250 / Pack	1	No's

Item No.	Name of Items	Specification(s)	Accounting Unit	Pack Size	Required Quantity	
755	Weighing boats 30ML	Bend flexible boats at points to form pour spouts. Flat bottoms and sloping slides provide accurate transfer. These antistatic, polystyrene boats are non-reactive to most substances. Resist temperatures to 158 °F (70 °C).	number	500/ Pack	1	No's
756	Weighing boats 5ML	Bend flexible boats at points to form pour spouts. Flat bottoms and sloping slides provide accurate transfer. These antistatic, polystyrene boats are non-reactive to most substances. Resist temperatures to 158 °F (70 °C).	number	1000 / Pack	1	No's
757	Weighing boats different sizes	Bend flexible boats at points to form pour spouts. Flat bottoms and sloping slides provide accurate transfer. These antistatic, polystyrene boats are non-reactive to most substances. Resist temperatures to 158 °F (70 °C).	Pack	50 / Pack each size	1	Pack
758	Western Blot Protein Ladders	1 color, 20–220 kDa	vial (ul)	250ul	1	Vial
759	Wire Drying Rack	self-standing rack on a table or near a sink	UNIT (number)	number	1	No's
760	Wireloops (disposable)	Polypropylene Flexible Disposable Sterile Inoculating Loop	box	10	500	Box
761	X-gal	X-Gal Solution, ready-to-use, is stable, 0.22µm membrane filtered solution formulated for direct use in conjunction with IPTG for blue/white colony screening.	Bottle (ml)	10 ml / Bottle	1	Bottle
762	X-gal (5-Bromo-4-chloro-3-indolyl β-D-galactopyranoside )	reagent grade	Bottle (gram)	100g	1	Bottle
763	Xylene cynol	xylene cyanole FF tracking dye powder	Bottle(gm)	25 g	1	Bottle
764	Y-27632	ROCK Inhibitor	Bottle (ml)	6 x 1000 mL	1	Bottle
765	Yeast Extract	microbiology media grade	Bottle (gram)	500 g	1	Bottle
766	YPD agar	non-selective media for fungi and yeast	Bottle (gram)	1Kg	2	Bottle
767	ZnCl2	ACS grade	Bottle (gram)	250g	1	Bottle
768	ZnCl3	ACS grade	Bottle (gram)	250g	1	Bottle
769	β-Mercaptoethanol	1000X, liquid	Bottle	50 mL	3	Bottle
770	β-Mercaptoethanol , liquid	50 mM	Bottle (ml)	500 mL	5	Bottle

**PRICE SCHEDULE****(DDP OFFER)**

PRICE SCHEDULE IN PAK RUPEES (DDP BASIS)  
FOR GOODS OFFERED FROM WITHIN THE PROCURING AGENCY'S COUNTRY

Ref. No.: DP/2016-04

Name of Bidder: \_\_\_\_\_

**MOST IMPORTANT:** The CD of quoted items in Excel format must be submitted along with Bidding Document in order to process quoted data quickly, failing which the concerned Bidder will be responsible for process delay.

Please Read the instructions (given below) properly and follow this format only fill maximum required information.

Sr. No	Item No.	Name of Items	Make	Country of Origin	Accounting Unit	Pack Size	Required Quantity	DDP Offer		Total Amount
								Per Unit Cost	Per Pack Cost	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
									Total	

**Instructions**

1. The above format should be followed as it is without any amendments, otherwise bid will be rejected.
2. Items No: Correspond with the number in the list of tender items specified in Section B of the Bidding Documents.
3. Accounting Unit: e.g. mg, ml, Gram, Piece, Nos. Kits, Vial, or Consumables.
4. Manufactured by: Specify Original Manufacturer and its origin
5. DDP: Delivery Duty Paid by the Bidders in Pak. Rs.
6. The rates to be quoted must be calculated accurately and rechecked before filling/feeding the data to avoid saying later on "quoted by mistake", any reason/excuse for rates quoted by mistake will not be acceptable and lowest rates in the interest of DUHS will be accepted and approved.
7. Each paper of quoted rates must be signed and stamped positively.
8. All the above said instructions must be read carefully for compliance; else the offer will be ignored.

**TECHNICAL SPECIFICATION OF QUOTED ITEMS**

Ref. No.: DP/2016-04

Name of Bidder: \_\_\_\_\_

Please fill proper specification, pack size and pack cost for the quoted items.

Sr. No.	Item No.	Name of Items	Detailed Specification	Pack Size	Pack Cost
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

**CONTRACT FORM**

THIS AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_ 2016 between **Dow University of Health Sciences, Karachi** of Islamic Republic of Pakistan (hereinafter called "the Procuring Agency") of the one part and [name & address of Bidder] of [city and country of Bidder] (hereinafter called "the Bidder") of the other part:

WHEREAS the Procuring Agency invited bids for certain goods, viz., [brief description of goods] and has accepted a bid by the Bidder for the supply of those goods in the sum of [contract price in words and figure] (hereinafter called "the Contract Price").

**NOW THIS AGREEMENT WITNESSED 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;
  - (b) the Price Schedules;
  - (c) the Schedule of Requirements;
  - (d) the Technical Specifications;
  - (e) the General conditions & instructions;
  - (f) the Special conditions & instructions; and
  - (h) the Procuring Agency's Notification of Award.
3. In consideration of the payments to be made by the Procuring Agency to the Bidder as hereinafter mentioned, the Bidder hereby covenants with the Procuring Agency to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Procuring Agency hereby covenants to pay the Bidder in consideration of the provision of the goods and services and the remedying 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.

In Witness whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

\_\_\_\_\_  
Signed / Sealed by the Manufacturer /  
Authorized Bidder / Authorized Agent

\_\_\_\_\_  
Signed / Sealed by Procuring Agency

**WITNESS**

1. \_\_\_\_\_
2. \_\_\_\_\_

1. \_\_\_\_\_
2. \_\_\_\_\_

**MANUFACTURER'S AUTHORIZATION FORM**

To: **Dow University of Health Sciences, Karachi**

WHEREAS [ Name of the Manufacturer ] who are established and reputable Manufacturers of the [ name and / or description of the goods ] having factories at [ complete address of factory ] do hereby authorize [ name and address of Bidder/Agent ] to submit a bid, and subsequently follow-up / negotiate and sign the Contract with you against Invitation for Bids (IFB) / Tender Notice for the goods manufactured, by us, under the patent name of \_\_\_\_\_ for performance of the contract.

We hereby commit and assure our full guarantee and warranty as per General Conditions of Contract for the goods offered for supply by the above mentioned firm against this Invitation for 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.

**PERFORMANCE GUARANTEE/SECURITY FORM**

**To: Dow University of Health Sciences, Karachi**

Whereas [ Name of Bidder ] (hereinafter called “the Bidder”) has undertaken, in pursuance of Contract No. [ number ] dated [ date ] to supply [ description of goods ] (hereinafter called “the Contract”)

And whereas it has been stipulated in the said Contract that the Bidder shall furnish to the Procuring Agency with Pay Order/Demand Draft/Bank Guarantee by a scheduled bank for the sum of 5% of the total Contract amount as Security for compliance with the Bidder’s performance obligations in accordance with the Contract.

And whereas we have agreed to provide a Guarantee: for the said Bidder.

Therefore, we hereby unconditionally and irrevocably guarantee, on behalf of the Bidder, up to a total of [Amount of the Guarantee in Word and Figures] and we undertake to pay you, upon your first written demand declaring the Bidder to be in default under the Contract and without requiring the Procuring Agency to initiate action against the Bidder and without cavil or argument any sum or sums within the limits of [Amount of Guarantee] as aforesaid. The amount payable by the Guarantor under this guarantee.

The obligations of the Guarantor under this guarantee shall be valid for four months after the completion of delivery of supplies by the Bidder to the Procuring Agency of the full quantity of the goods for which this Guarantee is being given, and until all and any obligations and sums due have been paid in full.

Signature and Seal of the Guarantors / Bank

Address: \_\_\_\_\_

Date: \_\_\_\_\_

**BID FORM**

Tender NO: **DUHS/DP/2016/04**

Ref. # **DP/2016/04**

To: **THE DOW UNIVERSITY OF HEALTH SCIENCES,  
KARACHI.**

Dear Sir,

- 1.. Having examined the Bidding Documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver the goods specified in the said Bidding Documents for the sum of **[Total Bid Amount]**, **[ Bid Amount in Word ]** or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.
  
2. The free of cost / donation / discounts offered and the methodology for their application are: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  
3. We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.
  
- 4.. If our bid is accepted, we shall obtain an unconditional guarantee of a bank in the sum of 5% of the Contract Price for the due Performance of the Contract, in the form prescribed by the Procuring Agency.
  
- 5.. We agree to the validity of this bid for 12 Months (extendable for Six months) from the date fixed for financial bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
  
- 6.. Until a formal Contract is prepared and executed this bid together with the written acceptance thereof and notification of award, by the Procuring Agency, shall constitute a binding Contract between us.
  
7. We understand that you are not bound to accept the lowest or any bid you may receive.

Name: \_\_\_\_\_

In the capacity of: \_\_\_\_\_

Signed: \_\_\_\_\_

Duly authorized to sign the Bid for and on behalf of \_\_\_\_\_

Date: \_\_\_\_\_

**C E R T I F I C A T E**

1. We / I, hereby confirm to have read carefully all the clauses of the advertised Invitation for Bids (IFB) **No. DUHS/DP/2016/04** Ref. # **DP/2016/04** Dated **30-03-2016** for the **Procurement of Reagents / Kits / Chemicals / Glassware / Consumables & Disposable Items For Dow Research Institute Of Bio Technology & Bio Medical Sciences**. We / I, agree to abide by all the instructions / conditions.
2. That we / I, agree whether our bid accepted for total, partial or enhance quantity for all or any single item. I / we also agree to supply and accept the said item at the rates for the supply of contracted quantity within the stipulated period shown in the contract.
3. We / I, hereby confirm to adhere to the delivery period required in the purchase orders, which would be essence of the contract and will be strictly adhered to by us / me, in case of failure, we / I agree unconditionally accept the recovery of liquidated damages on delayed supplies.
4. Certified that the prices quoted against tender enquiry Invitation for Bids (IFB) **No. DUHS/DP/2016/04, Ref. # DP/2016/04** Dated 30<sup>th</sup> March, 2016 are not more then the prices quoted to any other purchasing agency during the current financial year, and in case of any discrepancy, the bidder(s) hereby undertake to refund in excess amount, if and when asked to do so.
5. Certified that we / I will supply fresh stock of stores, free of cost if found substandard / counterfeit / spurious / misbranded / adulterated / expired at variance with the specifications of supply order / bid document. Moreover, we / I will not claim the return of rejected stock.
6. Certified that we / I will replace the stores free of cost in case of expiry, due to non-consumption.
7. Certified that we / I, have never been black listed from any Government / Semi Government Organization.
8. That if any of the information submitted in accordance to this bid document found incorrect, our contract may be cancelled at any stage on our cost and risk.

<b>Name:</b>	
<b>In the capacity of :</b>	
<b>Signature:</b>	
<b>Duly authorized to sign the Bid for and on behalf of :</b>	
<b>Date :</b>	
<b>Acceptance/Contact No.</b>	

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**STAMP OF THE FIRM**

**INVITATION FOR BIDS (IFB)****PROCUREMENT OF REAGENTS / KITS / CHEMICALS / GLASSWARE / CONSUMABLES & DISPOSABLE ITEMS FOR DOW RESEARCH INSTITUTE OF BIO TECHNOLOGY & BIO MEDICAL SCIENCES (DRIBBS)**

No. DUHS/DP/2016/29

26<sup>th</sup> March, 2016

Bids are invited under Sealed Cover for the Procurement of following Items on DDP basis (Rate Contract) from Authorized Dealers/Distributors/Manufacturers registered with GST, Income Tax.

<b>Tender Details</b>	<b>Bid Ref. No.</b>
Procurement of Reagents, Kits, Chemicals, Glassware, Consumable & Disposable Items for DRIBBS	DP/2016-04

<b>Tender Fee:</b> Rs. 2,000/- (Non Refundable)	<b>Bidding Procedure:</b> Single Stage One Envelope
<b>Purchasing Date:</b> 1 <sup>st</sup> April, 2016	<b>Last Purchasing Date:</b> 15 <sup>th</sup> April, 2016
Bids Delivery Date & Time: 21 <sup>st</sup> April, 2016 at 11:00a.m.	<b>Bid Opening Date &amp; Time:</b> 21 <sup>st</sup> April, 2016 at 11:30a.m.
<b>Pre Bid Meeting Date &amp; Time:</b> 16 <sup>th</sup> April, 2016 at 11:00a.m.	<b>Bid Security:</b> at least 2% but not more than Rs. 1,000,000/-
In case of any unforeseen situation or Government Holiday resulting office closure on the date of opening the Tender shall be submitted/opened on the next working day at the given time.	

The Bidding documents may be purchased by interested bidders on the submission of a written application to the address mentioned below and upon payment of nonrefundable fee of Rs. 2,000/- (Rupees Two Thousand Only) in shape of Pay Order / Demand Draft in favor of "DOW University of Health Sciences, Karachi". Bidding Documents are also available at DUHS/SPPRA website. Interested Bidders may obtain further information personally from Procurement Directorate from 11:00 a.m. to 2:00 p.m.

**Additional Director Procurement**

Procurement Directorate  
 Prof. Masood Hameed Khan Library Building  
 Dow University of Health Sciences (Ojha Campus)  
 SUPARCO Road, off Main University Road,  
 Gulzar-e-Hijri, Scheme No. 33, Karachi.  
 Phone No. + 92-21-99261497  
 Email: director.procurement@duhs.edu.pk

**SPECIFICATION PROFORMA**

(Must be attached duly signed & stamped with Bid)

1	Item No.	
2	Brand Name of the offered item	
3	Manufactured by	
4	Address of Manufacturer	
5	Manufacturing License No.	
6	Registration No.	
7	Detailed specification/Formula	
8	Batch Capacity	
9	Packing Offered	
10	Packing Shape	
11	Shelf Life	

Signature of Authorized Person: \_\_\_\_\_

Name of Authorized Person: \_\_\_\_\_

Designation of Authorized Person: \_\_\_\_\_

Name of Bidder: \_\_\_\_\_

Phone No.: \_\_\_\_\_

Stamp: \_\_\_\_\_

## PROFILE FOR COMPANIES / MANUFACTURERS

**NOTE:**

- i) Please fill in the correct information carefully, submission of wrong/vague information may lead to disqualification of the firm.
- ii) Each page of the Performa must be duly signed & stamped.

### GENERAL INFORMATION

1	Name of the Company					
	a. Year of Establishment					
	b. Form of the Company Annex copy of registration. - Individual - Private Limited - Public Limited - Partnership - Corporation - Others (specify)					
	c. Address of the Firm - Registered office - Telephone No. - Fax & email address etc.					
	d. Location of the Firm (Annex certificate) - Industrial - Commercial - Residential - Agricultural - Other (specify)					
	e. Enlistment with any stock exchange (in Pakistan/overseas. If any Annex details)					
	f. Blacklisting/complaint against the firm (by any govt. or other org. If any)					
2	a. Type of activity being carried out by the company: - Formulation - Repacking - Other (specify)					
	b. Name & Address of the companies/subsidiaries and associated companies, if any, with whom there is collaboration or joint venture		1. 2. 3			
	c. Annual sales turnover of the firm in the previous 3 years (in millions) 1. 2. 3.		Year	Domestic Sales	Export	Govt. Sector.
	d. Certificate from bank that manufacturer is capable of doing business up to and Financial worth of company.					

## GENERAL INFORMATION

3	Total area of the unit (in sq. ft.)	
	a. Total covered area of production (in sq. ft.)	
	b. Total covered area of quality control department (sq. ft.)	
	c. Total covered area of administration block (in sq. ft.)	
	d. Plant layout, design & finishes <ul style="list-style-type: none"> <li>- Enable avoidance of cross contamination.</li> <li>- Enable proper cleaning, drainage, sanitization as per written sanitation program.</li> <li>- Enable proper ventilation, air conditioning and maintenance</li> </ul>	
4	Income Tax <ul style="list-style-type: none"> <li>- Attach copy of certificate</li> <li>- Attach details of tax paid during past 3 years</li> <li>- Attach copy of last annual income tax return.</li> </ul>	
5	Sales Tax Registration No. (if any Applicable), Attach copy of certificate, and details of sales tax paid during past 3 years.	
6	GMP compliance certificate & GMP audit report (attach report/certificate)	
7	<ul style="list-style-type: none"> <li>- Assay procedure of all product</li> <li>- Reference Standard</li> <li>- Bio-availability/Bio-equivalence report of all product (if applicable)</li> </ul>	
8	a. Production <ul style="list-style-type: none"> <li>- Pharmacist</li> <li>- Chemist</li> <li>- Other technical persons</li> </ul>	
	b. Quality Control <ul style="list-style-type: none"> <li>- Pharmacist</li> <li>- Chemists/biochemist/microbiologist</li> <li>- Other Technical Person</li> </ul>	
	c. Product/formulation Development Section <ul style="list-style-type: none"> <li>- Pharmacist/chemist/other</li> </ul>	
9	Total Employees (including Technical Staff) <ul style="list-style-type: none"> <li>- Management</li> <li>- Production</li> <li>- Quality Control</li> <li>- Research &amp; Development Sales and Marketing Administration</li> <li>- Others</li> <li>- Total Head Count</li> </ul>	
10	Training of Personnel <ul style="list-style-type: none"> <li>- On job training schedule</li> <li>- Schedule/program for training of technical staff</li> <li>- Schedule/program for training of worker (including GMP and hygiene)</li> </ul>	

## GENERAL INFORMATION

11	Medical checkup of worker: <ul style="list-style-type: none"> <li>- Prior to induction</li> <li>- Annual</li> <li>- Periodic (worker doing optical checking)</li> </ul>	
12	Manufacturing Information	
	a. No of products being manufactured (active)	
13	Raw materials (Active ingredients) (Name of the source companies along with country of origin)	
14	Production capacity <u>Forms</u> <ul style="list-style-type: none"> <li>1. Solid</li> <li>2. Liquid</li> <li>3. Others etc.</li> </ul>	<u>Production capacity (per 8 hours)</u>  <ul style="list-style-type: none"> <li>1.</li> <li>2.</li> <li>3.</li> </ul>
15	Cleanliness & maintenance of: <ul style="list-style-type: none"> <li>- Equipment – List</li> </ul>	
16	Emergency power supply arrangements (for at least critical areas of the unit)	
17	Inspection record of the company	
	<u>Year</u>	<u>Inspecting Authority</u>
	1.	
	2.	
	3.	
	<u>Brief remarks of the inspecting authority</u>	
18	Market Availability and since when (mention year) <ul style="list-style-type: none"> <li>- Products routinely manufactured</li> <li>- Only occasionally/on request (Annex six batches certificate)</li> </ul>	
19	Number of distributors/authorized Agents (Attach list indicating name, address, approx. sales range of each)	
20	Source of Raw Material	

Signature & Stamp \_\_\_\_\_  
 (with name and designation)

**MANUFACTURING INFORMATION**

**STORES / WAREHOUSE**

Covered area \_\_\_\_\_

(Annex details of each store)

Sr .#	Criteria	Available as per SOPs, GMP or CGMP	Partial	Not available	Remarks
1	Separate stores for: - Raw material - Labels & packing material and - Finished products				
2	Separate quarantine facilities for: Incoming raw material Packaging materials				
3	Cold rooms facility for: - Vaccines, biological and other controlled temperature products. - Cold chain facility				
4	Temperature & humidity control facility in the stores.				
2	Identification slips for raw material: - Approved - Rejected - Quarantine				
6	Source of raw materials - Active and - Inactive (Annex list of the source companies with countries of their origin.)				
7	Separate dispensing area & equipment				
8	Proper storage of materials as per storage instructions on the label				
9	Adequate space for the orderly storage of all materials				
10	Segregation of material as; - Quarantine - Approved - Rejected - Recalled - Expired material/drugs				
11	Storage of materials: - On pallet stands - Shelves / racks - Off the floor - Off the walls (in all store)				
12	Safe/separate storage of inflammable/hazardous materials/chemicals				
13	Separate storage facility for expired raw/other materials				
14	Dispensing of materials according to prescribed SOP & GMP requirement				
15	Traceability of specific batch from the distribution / sale records of finished good.				

## PROFILE FOR IMPORTER / SOLE AGENT / AUTHORIZED DEALER

**NOTE:**

- a. Please fill in the correct information carefully, submission of wrong/vague information may Lead to black listing of the firm
- b. Each page of the Performa must be duly signed & stamped.
- c. Company/firm agreement with principle duly signed by embassy is mandatory.

### **GENERAL INFORMATION**

1	Name of the Company			
2	Year of establishment			
3	Address of the Firm - Registered office - Telephone No. - Fax & email address etc.			
4	Location of the Company - Industrial - Commercial - Residential			
5	Form of the company Annex copy of MOA/registration - Industrial - Private limited - Public limited - Partnership - Corporation - Other (specify)			
6	Blacklisting / Complaint / Litigation against the firm (By any govt. or other org. If any)			
7	Manufacturing License Number (Annex copy License)			
8	Type of activity being carried out by the company: - Manufacturing - Assembly / Repacking - Import - Other (specify)			
9	Name & Address of the Principal(s) companies			
10	Capital value of the firm/sole agent: - Authorized Capital - Paid up capital			
11	Annual sales turnover of the firm in the previous 3 years (In millions) 1. 2. 3.	Year	Market Sale	Govt. Sector
12	Income Tax No. (NTN) - Attach copy of certificate - Attach details of tax paid during past 3 years - Attach copy of last annual income tax return			

## PROFILE FOR IMPORTER / SOLE AGENT / AUTHORIZED DEALER

### GENERAL INFORMATION

13	Sales Tax Registration No. (if any Applicable) Attach copy of certificate, and details of sales tax Paid during past 3 years	
14	GMP compliance certificate & GMP audit report of the Principal(s) (Attach report/certificate) if applicable	
15	Free Sale Certificate of the items in the country of origin	
16	Registration with MOH, Islamabad (if applicable) attach separate sheet	
17	List of Technical personnel with qualification (Attach List)	
18	Total Employees (including Technical staff) <ul style="list-style-type: none"><li>- Administration</li><li>- Technical</li><li>- Management</li><li>- Sales/Marketing</li></ul>	
19	Market Availability <ul style="list-style-type: none"><li>- Products routinely manufactured/imported</li><li>- Only occasionally / on request</li></ul>	
20	No of registered / items of the principals (in case of drugs only)	
21	No of Thermo labile drugs (if any)	
22	Storage Facilities (for thermo labile drugs)	
23	Storage Facilities (for the drugs to be stored at room temperature)	
24	Cold Chain Facility including cold room / storage and during transport	
25	GMP Certificate of the Principals, from the country of origin.	
26	Export of the products to the countries other than Pakistan	
27	Drug registration Certificate in the country of origin (in case of drugs only)	
28	Emergency power supply arrangements (for at least critical area)	

Signature & Stamp \_\_\_\_\_  
(with name and designation)