



TENDER NOTIFICATION

The Adichunchanagiri University invites closed tenders from the eligible tenderers or bonafide licensed manufacturer or their authorised local supplier/dealer/distributor in the state of Karnataka for the procurement of “*Recombinant SARS-CoV-2 Spike S1 Subunit Protein Host Cell Receptor Binding Domain (RBD)*” at “Centre for Research and Innovation” of Adichunchanagiri University as per section I & II.

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|---|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Name of the work | Supply of <i>Recombinant SARS-CoV-2 Spike S1 Subunit Protein Host Cell Receptor Binding Domain (RBD)</i> at Adichunchanagiri University , B.G. Nagara |
| 2 | Last date for tender submission | On or Before 14.06.2024 up to 05:00 PM |
| 3 | Volume | 2 Microgram |

SECTION - I

Instruction to Tenderers

1. The Tenderer shall send quotes in 2 bid formats (Technical and Financial bids sealed separately inside the main envelope for any or all list of items) on professional business letterheads. The inner and outer sealed cover must bear the following identification
 1. Tender for[name of service | Contract]
 2. Tender Reference No.....[insert number]
 3. Address to “**The Registrar, Adichunchanagiri University, B.G. Nagara - 571448, Nagamangala (T), Mandya (D)**”.
 4. The tenderer who prefers to submit the tender through Post can dispatch the same through Registered Post / Speed Post or Courier so as to reach the above address on or before the due date and time specified in the Tender Notice. Tenders received after the due date and time, for what so ever reasons will not be considered and the authority, ACU BG-Nagara will not be liable or responsible for the same.
2. **Tender Currency:** Prices shall be quoted in Indian Rupees Only
3. **AMC/CMC (If any)** is subject to the Adichunchanagiri University’s norms.
4. **Warranty or Shelf life** must be more than or equal to 80% at the time of supply.
5. **Amendment of Tender Documents:** At any time prior to the deadline for submission of tenders, the University may, for any reason, whether at its own initiative or otherwise, modify the tender documents by amendment. Adichunchanagiri University



reserves all the rights to accept, reject, incorporate changes and re-tender without giving any reasons.

6. **Documents Comprising the Tender:** Shall attach Brochure, Certification of the product, Bank/account details, PAN, GSTIN, Good Standing Certificate and 02 Years of ITR declaration inside the envelope and company contact details with email ID on the main envelope cover for further correspondence.
7. **Tender Prices:** Prices indicated on the Price Schedule shall be entered separately I.e. the price of the goods, quoted (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, as applicable), including all duties and sales and other taxes already paid or payable. Any Indian duties, sales and other taxes which will be payable on the goods if this Contract is awarded. Conditional tenders will not be considered.
8. **Validity of the Bid:** 90 Days from the last date of submission of bid
9. **Corrupt or Fraudulent practices:** The Adichunchanagiri University requires that the Tenderers, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy:
 1. will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
 2. will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a university contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a University contract.
10. **Process to be confidential:** Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's processing of Tenders or award decisions may result in the rejection of his Tender.
11. **Clarification of Tenders:** To assist in the examination, evaluation, and comparison of Tenders, the Employer may, at his discretion, ask any Tenderer for clarification of his Tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the tenders.
12. **Delivery:** The successful BIDDER should commence the services as per tender document/Work or Purchase Order. For any queries/ assistance, please write to registrar@acu.edu.in or telephone to purchase section +91 -9845835834.



13. **Penalty Clause:** Non-execution of supply order - For the reasons of failure to supply partially or completely within the stipulated time or any event of breach of contract. In case at any following stages

1. For the delayed supply (3 days of grace period) - 5% deduction
2. Quantity issues - 5% deduction
3. Quality issues - 10% deduction

SECTION II

Technical Specification:

Source

- Species: SARS-CoV-2
- Accession Number: QHD43416
- Expressed Region: Arg319 - Phe541
- Synonyms Spike protein, S Protein, S1 Subunit, Host Cell Receptor Binding Domain (RBD).

Preparation

- Expression System Human embryonic kidney 293 (HEK293) cells
- Tag C-terminal his-tag
- Purification His-tag affinity purification by immobilized metal ion affinity chromatography (IMAC)
- Purity >95%
- Endotoxin Level <0.5 EU per μg of the protein as determined by the LAL method
- Purity determined By SDS-PAGE under reducing conditions and visualized by Coomassie blue staining
- Molecular Weight Recombinant protein product has a calculated molecular mass of 25 kDa. Due to the abundant glycosylation, it migrates as approximately 30 kDa protein bands in SDS-PAGE under DTT, beta- mercaptoethanol reducing conditions. See deglycosylation analysis image below.

Protein Specifications

- **Format:** Liquid
- **Formulation:** Supplied as a 0.2 μm filtered solution in PBS (pH 7.4)
- **Concentration:** Lot specific (see the label on the vial), determined by BCA protein assay.
- **SDS-PAGE Image** Deglycosylation analysis of purified recombinant proteins. The purified



Proteins were untreated (Lane 2) or treated with Protein Deglycosylation Kit under native (Lane 3) or reducing (Lane 4) conditions. Deglycosylation treatment resulted in a mobility shift of the protein to Produce one major band at the expected size (~25 kDa), thus indicating that the untreated recombinant protein (Lane 2) was glycosylated. Lane 1, protein standard ladder (kDa); Lane 2, untreated protein under reducing conditions; Lane 3, treated protein with deglycosylation enzymes under native conditions; Lane 4, treated protein with deglycosylation enzymes under reducing conditions.

Binding Function

Product binding ability was measured by ELISA. The immobilized recombinant human ACE2 protein (CatLog #. 230-30165, coated at 0.5 ug/ml, 100 ul/well) was incubated with the serial diluted SARS CoV-2 S1 RBD wild type protein (CatLog #. 230-30162). The bound mutant protein was detected by mouse anti-S1 RBD monoclonal antibody using ELISA. The calculated EC50 is 32.77 ng/ml (right).

Supply: The product must be shipped with ice packs.

Head of Procurement
Adichunchanagiri University
B G Nagara -571448