**Volume-II**

**CENTER OF INNOVATIVE & APPLIED**

**BIOPROCESSING DEPARTMENT OF BIOTECHNOLOGY**

**(Govt. of India)**

**Knowledge City, Sector‐81, Mohali**

## FINANCIAL BID DOCUMENT



**Provision of Chain Link Fencing in Low Lying Area at Main Campus, CIAB, Knowledge City, Sector-81, Mohali.**

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**TECHNICAL SPECIFICATIONS**

### 1.0 STANDARD SPECIFICATIONS TO BE FOLLOWED

The work should be executed as per following CPWD specification and also the specification laid in tender document. In case, above specifications are not available for certain item, then the material should conform to ISI and BIS standards.

### Civil Engineering Works

CPWD Specification 2009 Vol. I & II along with latest correction slips. These Specifications have replaced CPWD Specifications 1996 along with Correction Slips issued on them. These Specifications cover all types of Works. The specifications are available as a printed document issued by CPWD and also in soft copy PDF Format in CPWD website.

### Electrical Engineering Works

* + 1. [CPWD General Specifications for Electrical Works Part I Internal - 2013.](http://www.cpwd.gov.in/Publication/Internal2013.pdf)
    2. [CPWD General Specifications for Electrical Works Part II External - 1994.](http://www.cpwd.gov.in/Publication/Internal2013.pdf)
    3. [CPWD General Specifications for Electrical Works Part IV Sub Stations – 2013.](http://www.cpwd.gov.in/Publication/SubStationsFinal2013.pdf) The above specifications shall be read with upto date correction slips (if any).

#### (A) CIVIL WORKS

**WORKMANSHIP FOR THE ENTIRE PLUMBING WORK.**

The workmanship shall be best of its kind and shall conform to the specifications, as below or Indian Standard Specifications in every respect or latest trade practices and shall be subject to approval of the Engineer-in- Charge. All materials and/or Workmanship which in the opinion of the Engineer-in- Charge is defective or unsuitable shall be removed immediately from the site and shall be substituted with proper materials and/or workmanship forthwith.

#### WARRANTY AND HANDOVER

The Contractor shall warrant that all plant, materials and equipment supplied and all workmanship performed by him to be free from defects of whatsoever nature before handover to the Engineer-in-Charge. All the Guarantee/Warranty certificates of all the items shall be in the name of Institute i.e., CENTER OF INNOVATIVE & APPLIED BIOPROCESSING (CIAB), Mohali.

#### HANDING OVER OF DOCUMENTS

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All testing and commissioning shall be done by the Contractor to the entire satisfaction of the Engineer-in- Charge and all testing and commissioning documents shall be handed over to the Engineer-in-Charge.

**NOTE: In case of any contradiction between the specifications, the contractor shall take the prior approval of the Engineer- In – Charge before executing the same at site.**

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### LIST OF MAKES TO BE ADOPTED

|  |  |  |
| --- | --- | --- |
| S. No | Item | Make |
| 1 | Cement | J K Lakshmi/ ACC/ Ultratech/ Ambuja |
| 2 | Steel Reinforcement (TMT bars) | Tata/JSW Jindal/ Sail/Vizag |
| 3 | GI Fencing | Tata/ Jindal/ Swastic |
| 4 | Paint | Asian Paint/ Berger/ICI |
| 5 | Mild steel tubular/section work | Jindal/Apollo/Tata/SAIL |

**Note: -** Any other material makes not mentioned above shall be ISI marked & got approved from Engg-in-charge

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### NAME OF WORK: - Provision of Chain Link Fencing in Low Lying Area at Main Campus, CIAB, Knowledge City, Sector-81, Mohali

**ABSTRACT SHEET**

|  |  |  |
| --- | --- | --- |
| **S.NO** | **PARTICULARS** | **AMOUNT (In INR)** |
| 1 | **ESTIMATED VALUE OF WORK (INCLUSIVE OF TAXES, LABOUR**  **CESS ETC)** | **Rs 3,53,605/-** |
| 2 | **PERCENTAGE (% AGE) QUOTE**  **PLUS/MINUS (+/ -) BY BIDDER ON ESTIMATED AMOUNT (IN FIGURES)** |  |
| 3 | **PERCENTAGE (% AGE) QUOTE**  **PLUS/MINUS (+/ -) BY BIDDER ON ESTIMATED AMOUNT (IN WORDS)** |  |
| 4 | **NET AMOUNT AFTER UN-**  **CONDITIONAL PERCENTAGE REBATE OR QUOTE ABOVE ESTIMATED VALUE ((IN FIGURES)** |  |
| 5 | **NET AMOUNT AFTER UN-**  **CONDITIONAL PERCENTAGE REBATE OR QUOTE ABOVE ESTIMATED VALUE ((IN WORDS)** |  |

Stamp & Signatures of bidder

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **P/F of chain link fencing in Low Lying Area at CIAB Campus** | | | | | |
| **S.NO** | **DESCRIPTION OF ITEM** | **UNIT** | **QTY** | **RATE** | **AMOUNT** |
| 1 | Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. | sqm | 218.5 | 561.7 | 122731.45 |
|  | Made of G.I. wire of dia. 4 mm |  |  |  |  |
| 2 | Labour Charges for Providing and fixing Existing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. | Sqm | 95 | 250 | 23750.00 |
| 3 | Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. |  |  |  |  |
|  | All kinds of soil | cum | 38.40 | 125.95 | 4836.48 |
| 4 | Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto  1.5 m. | cum | 21.12 | 125.75 | 2655.84 |
|  |  |  |  |  |  |
| 5 | Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : |  |  |  |  |
|  | 1:1½:3 (1 Cement: 1½ coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). | cum | 17.28 | 5,924.65 | 102377.95 |
|  |  |  |  |  |  |
| 6 | Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | rmt | 135 |  |  |
|  |  | In Kg | 783 | 58.45 | 45766.35 |
| 7 | Centering and shuttering including strutting, propping etc. and removal of form for all heights |  |  |  |  |
|  | Foundations, footings, bases of columns, etc. for mass concrete | Sqm | 115.2 | 193.95 | 22343.04 |
| 8 | Painting with synthetic enamel paint of approved brand and  manufacture to give an even shade |  |  |  |  |
|  | Two or more coats on new work | Sqm | 64.8 | 78.4 | 5080.32 |
| 9 | Demolishing cement concrete manually/ by mechanical means  including disposal of material within 50  metres lead as per direction of Engineer - in - charge. | Cum | 10 | 997.05 | 9970.50 |
| 10 | Dismantling steel work in single sections including dismembering  and stacking within 50 metres lead in |  |  |  |  |
|  | Channels, angles, tees and flats |  | 800 | 0.95 | 760.00 |
| 11 | Labour Charges for dismantling of chain link Fencing with necessary battens  and beading including stacking the serviceable material within 50  metres lead including removal of vegetation , etc in complete aspects as  per Engineer-IN charge. | Sqm | 218.5 | 45 | **9832.50** |
|  | **Total** |  |  |  | **350104.43** |
|  | **Labour Cess 1%** |  |  |  | **3501.04** |
|  | **Net Total Amount for Civil Works** |  |  |  | **353605.48** |
|  |  |  |  |  |  |

#### NOTE: - Payment shall be released item wise based on actual measurement examined at site by Engineer- In- Charge. Rates quoted by bidder shall be deemed to be inclusive of all taxes, GST, profits, labour, carriage, etc.

Signature/Stamp of Bidder

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