

TENDER DOCUMENT

**(CONSTRUCTION OF INSTITUTE'S MAIN GATE AT ICAR-
CICR, NAGPUR)**

2024-25



भा.कृ.अनु.प. – कपास अनुसंधान संस्थान, नागपुर

पोस्टबैगनं. 2, शंकरनगरपोस्टऑफिसनागपुर-४४००१०

ICAR-CENTRAL INSTITUTE FOR COTTON RESEARCH

POST BAG NO.2, SHANKAR NAGAR POST OFFICE, NAGPUR-440010

ISO 9001 – 2015 Certified

-कार्यालय-

खापरी फाटा के पास, पांजरी वर्धा रोड, नागपूर, - ४४११०८

(फोन, नं.07103&2755/36/38/39फैक्स,नं; 07103-275529)

Panjari, Near Khapri Phata, Wardha Road, Nagpur 441108

(Tel : 07103-275536, Fax : 07103-275529, EPABX : 07103-275637, 38, 39, 275617)

Website : www.cicr.org.in. E-mail : cicrnagpur@gmail.com



भा.कृ.अनु.प. - केन्द्रीय कपास अनुसंधान संस्थान

पोस्ट बैग सं. 2, शंकरनगर पोस्ट ऑफिस, नागपुर - 440010

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{Location: Near Chapare Plata, Panjari, Wardha Road, Nagpur – 441 108}

An ISO 9001-2015 Certified

GST No. 27AAAANI1830P3ZH



F. No. 02/ME Cell/ Repairing work/2024-25

Dated : 06-01-2025

SUB: E-TENDER FOR “CONSTRUCTION OF INSTITUTE’S MAIN GATE AT ICAR-CICR, PANJARI, KHAPRI PHATA, WARDHA ROAD, NAGPUR”.

1. Sealed e-tenders are hereby invited on behalf of the Director, ICAR-CICR, Nagpur for the contract of “CONSTRUCTION OF INSTITUTE’S MAIN GATE AT ICAR-CICR, PANJARI, KHAPRI PHATA, WARDHA ROAD, NAGPUR” through GeM-CPP portal. The details & Scope of work, Schedule of requirements and terms & conditions of the contract are given in the enclosed Annexures.
2. Details of the e-tender are given below:

CRITICAL DATA SHEET (SECTION)

(E-TENDER)

E-TENDER NUMBER	F.No. 02/ME Cell/ Repairing work/2024-25
E-TENDER COST	Free of Cost.
DESCRIPTION OF WORK	CONSTRUCTION OF INSTITUTE’S MAIN GATE AT ICAR-CICR, PANJARI, KHAPRI PHATA, WARDHA ROAD, NAGPUR
TYPE OF E-TENDER BID SUBMISSION START DATE AND TIME	Two Bid System (Technical & Financial) 06-01-2025 at 17.00 PM onwards
BID SUBMISSION END DATE AND TIME	27-01-2025 up to 16.00 PM
DATE AND TIME OF OPENING OF E-TENDERS (TECHNICAL BID)	29-01-2025 at 14.30 PM (Tentative)

DATE AND TIME OF OPENING OF E-TENDERS (FINANCIAL BID)	Will be intimated later
BID VALIDITY	180 days from the date of Technical Bid opening
EMD	Rs.49,500/- (Forty nine thousand five hundred rupees) in the form of Demand Draft in Favor of Director, ICAR-CICR, Nagpur.
EMD VALIDITY	90 days from the date of Technical bid opening
SECURITY DEPOSIT (SD)/PERFORMANCE BOND (PB)	5% of the total contract value (Annually) DD/ Bank guarantee in favor of Director, ICAR-CICR, Nagpur. After the award of the contract, the Successful Bidder should be submitted the hard copy of the original DD/ Bank guarantee to this Institute within 15 days of the award of the contract
VALIDITY OF SD/PB	180 days after the expiry of the contract
Details of e-tender	E-Tender (Technical & Financial) uploaded on GeM-CPP Portal https://eprocure.gov.in/epublishing/app and cicr website www.cicr.org.in from 06-01-2025 to 27-01-2025 up to 16.00 PM

3.Scope of the proposed work and other requirements connected to the contract, including formats of the bids, terms and conditions of the contract, etc. are enclosed to this E-Tender Invitation, as per the following details:

S.N.	Description	ANNEXURE	Page No.
1	Instructions For Online Bid Submission	ANNEXURE-I	05
2	Terms & Conditions	ANNEXURE-II	10
3	Price Bid	ANNEXURE- III	12
4	Firm's Banking Information	ANNEXURE- IV	13
5	Tender Acceptance Letter	ANNEXURE-V	14
6	Instructions For Online Bid Submission	ANNEXURE- VI	15
7	Details of EMD	ANNEXURE- VII	18
8	Details of Work/Measurement sheet	ANNEXURE- VIII	19
9	Technical Specifications	ANNEXURE- IX	35
10	General Report And Specification	ANNEXURE- X	41
11	Drawing of Institute's Main Gate.	ANNEXURE- XI	46
12	Technical Bid (Checklist)	SCHEDULE – I	07
13	Undertaking	SCHEDULE – II	09

4. The entire e-tender documents including all Annexures, except the Financial Bid in Annexure IX, will be part of the Technical Bid which also must contain the EMD and all other requisite documents called for in the e-tender. Both bids (technical and financial) are to be submitted through E-tendering portal www.eprocure.gov.in. & EMD must be submitted to ICAR-CICR, Near Khapri Phata, Panjari Farm, Wardha Road, Nagpur – 441108 before the last date of submission of E-Tender. Special instructions to the Contractors/Bidders for the submission of the bids can be downloaded from GeM-CPP Portal (www.eprocure.gov.in/epublishing/app) and Institute website www.cicr.org.in.

Yours faithfully,



06/01/25
(Puneet Kumar)

**Administrative Officer
ICAR-CICR, Nagpur**

INSTRUCTIONS FOR ONLINE BID SUBMISSION

1. The Tender form/bidder documents may be downloaded from the <https://eprocure.gov.in/eprocure/app>.
2. **Online submission of Bids through** Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) is mandatory. Manual/Offline bids shall not be accepted under any circumstances.
3. Tenderers/bidders are requested to visit the website <https://eprocure.gov.in/eprocure/app> regularly. Any changes/modifications in tender enquiry will be intimated by corrigendum through this website only.
4. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Director, ICAR-CICR, Nagpur has reserved the right to accept or reject any or all the tenders.
5. The interested Firms are required to deposit (in original) **EMD of Rs. 49,500 /-** in the form of Demand Draft in favour of **THE DIRECTOR, ICAR-CICR payable at Nagpur** on or before **bid opening date and time as mentioned in the Critical Data Sheet**.
6. **Please note that only online Bids will be accepted.**
7. The firms are also required to upload copies of the following documents for Technical eligibility and Evaluation:-

The firms are also required to upload copies of the following documents:

Technical :

1. Scanned copy of Firm's Registration certificate of the firm under the Central Government/ State Government for providing such services.
2. Scanned copy of PAN Card.
3. Scanned copy of GST Number with Registration Certificate.
4. Bank details of the firm.
5. Scanned copy of similar contracts with Government Departments. (Similar civil work).
6. Scanned copy of Income Tax Returns for the last three years (2021-22, 2022-23 & 2023-24)
7. Scanned copy of Profit and loss account & Balance Sheet which are audited & duly certified by the Chartered Accountant for the last three years (2021-22, 2022-23 & 2023-24).
8. Scanned copy of Turnover of the business should be Rs. 1,00,00,000/- per year, to be certified by Chartered Accountant as per Balance Sheets used for ITR filing.
9. Scanned copy of experience of having successfully completed similar kind of works during last 3 years (Similar civil work).
10. Scanned copy of MSME or Udyog Aadhar or NSIC is a must for EMD Exemption otherwise, firms have to furnish EMD.
11. Tender acceptance letter (Annexure-V) is mandatory.

12. Scan copy of an undertaking as per attached Format (Schedule – II) duly attested by Notary on a non-judicial stamp paper of value of Rs. 500/- (Rupees Five Hundred Only) regarding their non-blacklisting by any of the Government Departments, Public Sector Undertakings and/or by Central Vigilance commission during the last three years.

All necessary documents in support of the details for Sl. No. 1 to 12 must accompany the technical bid. The bid is liable to be rejected in case documents are not uploaded in the technical bid on GeM- CPP Portal, documents are incomplete or in case any certification/registration has already expired but is yet to be renewed. Only essential and necessary valid documents are to be uploaded in the technical bid. Please avoid uploading extraneous and irrelevant documents.

Note: The above documents may be uploaded in the given sequence only, with no unnecessary documents.



A handwritten signature in black ink, consisting of a stylized 'A' with a horizontal line through it, and the date '06/01/25' written below it.

ADMINISTRATIVE OFFICER

Technical Bid**Schedule - I**

Checklist of documents to be submitted with tender documents along with the page no. failing which the bid will be liable to be rejected:-

Sr. No	Documents (Strictly) as per details below	Whether submitted or not	If submitted, mention file name & page no.
1	Scanned copy of Firm's Registration certificate of the firm under the Central Government/ State Government for providing such services.		
2	Scanned copy of PAN Card		
3	Scanned copy of GST Number with Registration Certificate		
4	Bank details of the firm.		
5	Scanned copy of similar contracts to Government Departments.(Similar civil work).		
6	Scanned copy of Income Tax Returns for the last three years (2021-22, 2022-23 & 2023-24)		
7	Scanned copy of Profit and loss account & Balance Sheet which are audited & duly certified by the Chartered Accountant for the last three years (2021-22, 2022-23 & 2023-24)		
8	Scanned copy of Turnover of the business should be Rs. 1,00,00,000/- per year, to be certified by Chartered Accountant as per Balance Sheets used for ITR filing.		
9	Scanned copy of experience of having successfully completed similar kind of works during last 3 years (Similar civil work).		
10	Scanned copy of MSME or Udyog Aadhar or NSIC is a must for EMD Exemption otherwise, firms have to furnish EMD.		
11	Tender acceptance letter (Annexure-V) is mandatory.		
12	Scanned copy of an undertaking as per attached Format (Schedule – II) duly attested by Notary on a non-judicial stamp paper of value of Rs. 500/- (Rupees Five Hundred Only) regarding their non-blacklisting by any of the Government Departments, Public Sector Undertakings and/or by Central Vigilance commission during the last three years.		

Authority Signature

Name & Address of the Firm

Telephone No.

Mobile No.

Email :

Note: The information required at Sl. No. 1 to 12 must be accompanied with the certified copies of the document(s) and attached as per the serial number failing which the tender is liable to be rejected. No other documents need to be attached with the tender form.

UNDERTAKING

I/We have read and understood all the terms and conditions of the tender document contained in the present tender form for contract and I/We do hereby agree and abide by with all the terms and condition of this tender document.

I/We do hereby declare that all the details provided in this tender are true to the best of my/our knowledge and belief and any misrepresentation of facts will render me/us liable to any action as may be deemed fit by ICAR-Central Institute for Cotton Research, Nagpur.

I/We do hereby also accept that the Director, ICAR-CICR, Nagpur has the right to accept or reject this application and not to issue invitation to Tender to me/us.

I/We undertake to communicate promptly to ICAR-CICR, Nagpur regarding any changes in the condition or working of the firm. It is certified that we have not been blacklisted by any organization of Government of India including Central Vigilance commission (CVC) in the last three years. The undersigned is fully authorized to sign and submit this application form on behalf of the organization, he/she represent. We authorize ICAR-CICR, Nagpur to approach individuals, employees, firms and corporations to verify our competence and general reputation.

Signature: -

Name: -

Designation: -

Address: -

Place: -

Dated: -

TERMS & CONDITIONS

1. The tenderer shall quote rates, which will include the supply, installation & other incidental charges GST, if any, should be indicated.
2. The rates should be quoted as per the BOQ uploaded on the GeM-CPP Portal (reference may be obtained from Annexure-III). GST, if any, should be indicated separately. It must be noted that the contract shall be awarded to the firm which fulfils all the required terms and conditions and remains lowest one (L-1).
3. The firm must also possess valid PAN No. & GST registration number and a copy of the same must also be enclosed with the tender document.
4. Copy of the Income Tax Statement for the financial year 2021-22, 2022-23 & 2023-24 may be furnished.
5. The firm should have experience for over 03 (Three) years in the trade with the business turnover of not less than Rs. 1 Cr per annum for 2021-22, 2022-23 & 2023-24. Chartered Accountant certified profit and Loss account Balance sheet to this effect may be enclosed.
6. Modification in the tender documents after the closing date is not permissible.
7. The successful firm shall **commence work** within 21 days from the date of confirmed **work order** and if the work not supplied in time then EMD shall be forfeited. The rates quoted shall be valid for one year from the date of opening of tender.
8. The contractor/bidder or his representative may contact the undersigned at **Tel. No. 07103-275536 Extn:113** for any further clarification. No variation in terms of quality of the items shall be entertained or else EMD/Security deposit shall be forfeited.
9. The bidder is advised to visit the site of works at his own expenses and obtain all information that may be necessary for preparing the quotation. Tenderer may submit the quotation by accepting that he has inspected the site or he is aware of all conditions.
10. The Director, ICAR-CICR, shall have the right to reject all or any of the offers, accept more than one offer, and assign part of the job without assigning any reason.
11. Merely quoting of lowest rates does not mean that "work order" shall be given to that firm. The competent authority will finally decide on the basis of quality & performance of past work/ installations.
12. The interested Firms are required to deposit an **Earnest Money Deposit of Rs. 49,500/-** amount mentioned against item in the form of Demand Draft (in original) from any of the Nationalised Bank in favour of **THE DIRECTOR, ICAR-CICR payable at Nagpur** may be addressed to **Administrative Officer, ICAR-CICR, Near Khapri Phata, Panjari Farm Wardha Road, Nagpur – 441108 (Maharashtra)** on or before bid opening date and time as mentioned in the **Critical Data Sheet**. No quotation shall be considered without the earnest money deposit. Demand draft drawn in favour of any officer other than "THE DIRECTOR, ICAR-CICR payable at Nagpur" will not be accepted and the tender will be rejected. The earnest money will be refunded only after the finalization of the tender/bid and no interest will be paid on earnest money. The request letter for refund of EMD & performance security is to be submitted by the firm.
13. Rates once finalized will not be enhanced/reduced during the period of the contract.

14. In case, the successful bidder shows inability to accept work order/contract at any stage, after the contract is finalized and awarded, for whatever the reason, to honor the contract, the earnest money /performance security deposited would be forfeited.
15. The Director, ICAR-CICR reserves the right to cancel the contract at any time during the contract period without giving any reason.
16. The firm, to whom the tender awarded, will have to deposit the **performance security of 5%** of the total contract value (Annually) DD/ Bank guarantee in favour of Director, ICAR-CICR, Nagpur. After the award of the contract, the Successful Bidder should submit the hard copy of the original DD/ Bank guarantee to this Institute within 15 days of the award of the contract. If the services are not found to be satisfactory, the performance security is liable to be forfeited. No interest will be paid on performance security.
17. If any dispute(s) arises between ICAR-CICR and the firm with reference to the contract, ICAR-CICR will decide it and its decision will be final and binding on the firms.
18. Payment:- No advance or part payment will be given. The payment will be released after satisfactory completion of the work and certificate from the Indenter.

Payment Terms: In order to facilitate for speedy settlement of payment you are requested to furnish the following details as below:

1. **Name of the firm:**
2. **Name of the Bank:**
3. **IFSC Code of Bank:**
4. **Name of the Account & Account No.:**
5. **Branch Code:**
6. **Amount to be paid:**
7. **E-mail address of the party:**
8. **GST No. and Pan No. Copies**

‘Terms & Conditions are acceptable’

Dated

(Authorized signatory of the firm)

(Reference for BOQ) (To be quoted in the format provided on GeM-CPP Portal)

Price bid for “CONSTRUCTION OF INSTITUTE’S MAIN GATE AT ICAR-CICR, PANJARI, KHAPRI PHATA, WARDHA ROAD, NAGPUR”.

Sl. No.	Name of the Work	Quantity	Price per unit (in figures/words) (as per BOQ)
1.	Construction Of Institute’s Main Gate at icar-cicr, panjari, khapri phata, wardha road, Nagpur as per the enclosed specification as Annexure – IX and drawing of construction as Annexure - XI	1 Unit	

- Items should be of reputed make and suitable for high end elite users.
- GST as applicable should be included in the column provided for basic rate.
- **The work is to be executed at this Institute at ICAR-CICR, Panjari, Khapri Phata, Wardha road, Nagpur-441108**

Note: The above mentioned Financial Proposal/Commercial bid format is provided as BoQ_XXXX/xls along with this tender document at <https://eprocure.gov.in/eprocure/app>. Bidders are advised to download this BoQ_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the Financial bid. **Bidder shall not tamper/modify downloaded price bid template in any manner.** In case if the same is found to be tampered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with ICAR-CICR, Nagpur.

**ICAR-CENTRAL INSTITUTE FOR COTTON RESEARCH,
NEAR KHAPRI PHATA, PANJARI FARM, WARDHA ROAD, NAGPUR - 441108**

Name of the Firm _____

Registered/Postal Address _____

1	Permanent Account Number (PAN)	
2	GST Registration No.	
3	Bank Details	
a)	Bank Name	
b)	Branch Address	
c)	Account Number	
d)	Type of Account (current/saving) MICR No.	
e)	IFSC Code	

Date:

Name of the Authorized Signatory

Place:

Stamp & Signature

TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,
The Director,
ICAR-CICR,
Near KhapriPhata, Panjari Farm,
Wardha Road, Nagpur – 441108.

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No. _____

Name of Tender/Work:

Dear Sir,

1. I/ We have downloaded/obtained the tender document(s) for the above mentioned' Tender/work 'from the web site(s) namely:

As per your advertisement, given in the above-mentioned website(s).

2. I/We hereby certify that I/We have read the entire terms and conditions of the tender documents from Page No. ____ to ____ (including all documents lime annexure(s),schedule(s), etc....) which form part of the contract agreement and I/We shall abide by the terms/conditions/clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/organization to have also been taken into consideration, while submitting this acceptance letter.
4. I/we hereby unconditionally accept the tender conditions of above mentioned tender documents/corrigendum(s) in its totality/entirely.
5. I/we do hereby declare that our Firm has not been black-listed/debarred by any Govt.Department/Public sector undertaking.
1. I/we certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/organization shall without giving any notice or reason therefore or summarily reject that bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder with Official Seal)

INSTRUCTIONS FOR ONLINE BID SUBMISSION

The bidders are required to submit soft copies of their bids electronically on the GeM-CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the GeM-CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the GeM-CPP eProcurement Portal.

More information useful for submitting online bids on the GeM-CPP eProcurement Portal may be obtained at <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL <https://eprocure.gov.in/eprocure/app>.) by clicking on the link '**Online bidder Enrollment**' on the GeM- CPP Portal which is free of charge.
- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the GeM-CPP Portal.
- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (DSC) (class II or Class III certificates with signing key usage) issued by any certifying authority recognized by CCA India (e.g. Sify/nCode/eMudhra etc.) with their profile.
- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- Bidder then log into the site through the secured log-in by entering their users ID/password and the password of the DSC/e-Token.

SEARCHING FOR TENDER DOCUMENTS

- There are various search options built in the GeM- CPP Portal. To facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the GeM-CPP Portal.
- Once the bidders have selected the tenders they are interested in, they may download the required documents/tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the GeM-CPP Portal to intimate the bidders through SMS/e mail in case there is any corrigendum issued to the tender document.
- The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification/help from the Helpdesk.

PREPARATION OF BIDS

- Bidder are requested to visit the site at the institute and discuss with In-charge, Maintenance Cell ICAR-CICR, Nagpur before preparing the bid, clarify the doubts and understand the requirements.
- Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents- including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally. they can be in PDF/XLS/RAR/DWF/JPG formats.
- Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use 'My Space' or 'Other important Documents' area available to them to upload such documents. These documents may be directly submitted from the 'My Space' area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- Bidder should log into the site in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other technical issues.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- Bidder has to select the payment option as 'offline' to pay the tender fee/EMD as applicable and enter details of the instrument.
- Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- Bidders are requested to note that they should necessarily submit their financial bids in the Format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white colored (unprotected) cell with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.

- The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric, encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- Upon the successful and timely submission of bids (i.e. after clicking 'Freeze Bid Submission' in the portal), the portal will give a successful bid submission message and a bid summary will be displayed with the bid no. and the date and time of submission of the bid with all other relevant details.
- The bid summary has to be printed and kept as an acknowledgement of the submission of the bid.

ASSISSTANCE TO BIDDERS

- Any queries relating to the tender documents and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contract person indicated in the tender.
- Any queries relating to the process of online bid submission or queries relating to GeM-CPP Portal in general may be directed to the 24x7 GeM-CPP Portal Helpdesk.

Details of Work & EMD

Sl. No.	Item	Qty.	Earnest Money Deposit
1	Construction Of Institute's Main Gate At ICAR-CICR, Panjari, Khapri Phata, Wardha Road, Nagpur	1 Unit	49,500/-

Note: EMD defined on to the Portal is MINIMUM. Bidder has to submit the EMD offline.

- The work is to be executed at this Institute at ICAR-CICR, Panjari, Khapri Phata, Wardha road, Nagpur-441108

Measurement sheet for Construction Of Institute's Main Gate At ICAR-CICR, Panjari, Khapri Phata, Wardha Road, Nagpur

Details of Work

MEASUREMENT SHEET

Sr No	Item	Nos	L	B	D/H	QTY	Unit
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.						
	Wall compound	1	15	0.23	2.4	8.28	
	Room	3	3	0.23	3	6.21	
						14.49	One Cubic M.
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :Of area 3 sq. metres and below						
	Window	3				3	
	Door	1				1	
	Main gate	2				2	
						6	One Number
3	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)						
	Columns	12	0.23	0.3	2.4	1.99	
	Ground Beam	13	3	0.23	0.35	3.14	
	Slab	1	2.4	2.4	0.15	0.86	
						5.99	One Cubic M.
4	Filling in plinth with moorum						
	Guard room	1	3	2.5	0.35	2.63	
	Gate front	2	7	4	0.3	16.8	
						19.43	One Cubic M.

5	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil. Footing							
	F1 1.2x1.2x0.3m	5	1.4	1.4	1.5	14.7		
	F2 1.8x2.7x0.5m	1	2	2.9	1.5	8.7		
	F3 1.8x1.8x0.5m	3	2	2	1.5	18		
	F4 1.8x2.0x0.5m	1	2	2.2	1.5	6.6		
						48		One Cubic M.
6	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15cm to 20cm thick including hand packing & compacting etc complete. Footing							
	F1 1.2x1.2x0.3m	5	1.4	1.4	0.15	1.47		
	F2 1.8x2.7x0.5m	1	2	2.9	0.15	0.87		
	F3 1.8x1.8x0.5m	3	2	2	0.15	1.8		
	F4 1.8x2.0x0.5m	1	2	2.2	0.15	0.66		
	Plinth Protection	1	3	0.5	0.15	0.23		
		2	2.4	0.5	0.15	0.36		
						5.39		One Cubic M.
7	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Concrete of M15 grade with minimum cement content of 240 kg /cum PCC Footing							
	F1 1.2x1.2x0.3m	5	1.4	1.4	0.15	1.47		
	F2 1.8x2.7x0.5m	1	2	2.9	0.15	0.87		
	F3 1.8x1.8x0.5m	3	2	2	0.15	1.8		One Cubic M.

	F4 1.8x2.0x0.5m	1	2	2.2	0.15	0.66	
	Plinth Protection	1	3	0.5	0.1	0.15	
		2	2.4	0.5	0.1	0.24	
						5.19	
8	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 M-20 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)						
	Footing						
	F1 1.2x1.2x0.3m	5	1.4	1.4	0.3	2.94	
	F2 1.8x2.7x0.5m	1	2	2.9	0.5	2.9	
	F3 1.8x1.8x0.5m	3	2	2	0.5	6	
	F4 1.8x2.0x0.5m	1	2	2.2	0.5	2.2	
	Column						
	C1 0.50x0.50	3	0.5	0.5	0.75	0.56	
	C2 0.23x0.23	4	0.23	0.23	0.95	0.2	
	C2 0.23x0.23 cut at Ground level	2	0.23	0.23	0.95	0.1	
	C3 0.30x0.50	2	0.3	0.5	0.75	0.23	
	Beam						
	PB1	1	2.93	0.5	0.6	0.88	
	PB1	1	6	0.5	0.6	1.8	
	PB1	1	1.5	0.5	0.6	0.45	
	PB1	1	2.7	0.5	0.6	0.81	
	PB2	2	2.77	0.23	0.35	0.45	
	PB2	2	2.46	0.23	0.35	0.4	
	PB2	1	3.04	0.23	0.35	0.24	
	PB2	2	0.45	0.23	0.35	0.07	
	Plinth Slab	1	3	2.5	0.1	0.75	
						TOTAL	20.98

One
Cubic
M.

9	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 M-20 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)						
	Column						
	C1 0.50x0.50	2	0.5	0.5	7	3.5	
	C1 0.50x0.50	1	0.5	0.5	3	0.75	
	C2 0.23x0.23	4	0.23	0.23	2.5	0.53	
	C3 0.30x0.50	2	0.3	0.5	7	2.1	
	Beam +3.00m						
	B1	1	2.93	0.5	0.3	0.44	
	B1	1	2.7	0.5	0.3	0.41	
	B2	2	2.46	0.23	0.35	0.4	
	B2	1	3.04	0.23	0.35	0.24	
	Toilet						
	Guard room Slab	1	3.7	2.79	0.1	1.03	
	Beam +7.00m						
	B1	1	2.93	0.5	0.75	1.1	
	B1	1	2.7	0.5	0.75	1.01	
	B1	1	8	0.5	0.75	3	
	lintel Beam door	1	1.5	0.23	0.23	0.08	
	lintel Beam Window	2	2.1	0.23	0.23	0.22	
	chjja						
	W	3	1.8	0.45	0.1	0.24	
					TOTAL	15.05	One Cubic M.
10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo Mechanically Treated Bar of Grade Fe-500D or More						
			QUANTITY	KG/M			
	Upto Plinth		20.98	80		1678.4	
						1678.4	kg

11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo Mechanically Treated Bar of Grade Fe-500D or More						
	Above Plinth		15.05	100		1505	
						1505	kg
12	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete						
	Footing						
	F1 1.2x1.2x0.3m	5	4.8		0.3	7.2	
	F2 1.8x2.7x0.5m	1	9		0.5	4.5	
	F3 1.8x1.8x0.5m	3	7.2		0.5	10.8	
	F4 1.8x2.0x0.5m	1	7.6		0.5	3.8	
	UPTO PLINTH	8	1.06		1.45	12.3	
	Column						
	C1 0.50x0.50	3	2		0.75	4.5	
	C2 0.23x0.23	4	0.92		0.95	3.5	
	C2 0.23x0.23 cut at Ground level	2	0.92		0.95	1.75	
	C3 0.30x0.50	2	1.6		0.75	2.4	
	Columns						
	ABOVE PLINTH						
	C1 0.50x0.50	2	2		7	28	
	C2 0.23x0.23	4	0.92		2.5	9.2	
	C3 0.30x0.50	2	1.6		7	22.4	
	Toilet						
	Guard room Slab	1	3.7	2.79	0.1	1.03	
	chajja						
	W	2	1.8	0.45		1.62	
	Side	1	2.4		0.1	0.24	
					TOTAL	113.24	One Square metre
13	Lintels, beams, plinth beams, girders, bressumers and cantilevers						One Square metre
	Beam						
	PB1	2	2.93		0.6	3.52	
	PB1	2	6		0.6	7.2	
	PB1	2	1.5		0.6	1.8	
	PB1	2	2.7		0.6	3.24	

	PB2	4	2.77		0.35	3.88	
	PB2	4	2.46		0.35	3.44	
	PB2	2	3.04		0.35	2.13	
	PB2	4	0.45		0.35	0.63	
	Beam +3.00m	x2					
	B1	2	2.93		0.3	1.76	
	B1	2	2.7		0.3	1.62	
	B2	4	2.46		0.35	3.44	
	B2	2	3.04		0.35	2.13	
	Bottom						
	B1	1	2.93	0.5		1.47	
	B1	1	2.7	0.5		1.35	
	B2	2	2.46	0.23		1.13	
	B2	1	3.04	0.23		0.7	
	Beam +7.00m	x2					
	B1	2	2.93		0.75	4.4	
	B1	2	2.7		0.75	4.05	
	B1	2	8		0.75	12	
	Bottom						
	B1	1	2.93	0.5		1.47	
	B1	1	2.7	0.5		1.35	
	B1	1	8	0.5		4	
		x2					
	lintel Beam door	2	1.5		0.23	0.69	
	lintel Beam Window	4	2.1		0.23	1.93	
	Bottom						
	lintel Beam door	1	1.5	0.23		0.35	
	lintel Beam Window	2	2.1	0.23		0.97	
					TOTAL	70.65	
14	Rough cast plaster up to 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement: 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement: 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement. Ordinary cement finish using ordinary cement						
	Front Elevation	1	2.72		3.22	8.76	
		1	2.72		6.22	16.92	
						25.68	
							One Square metre

15	Providing and laying water proofing treatment on roots of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:(a) after surface preparation, first layer of slurry of cement @ 0,488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.(c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken up to 30 cm on parapet wall and tucked into groove in parapet all around. (d) fourth and final layer of brick tiling with cement mortar. For the purpose of measurement, the entire treated surface will be measured. and as directed and specified by the Engineer-in-Charge:						
	Terrace	1	3	2.5		7.5	
						7.50	One Square metre
16	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:3 (1 cement :3 coarse sand)						
	Carry						
	Outer	2	3		0.6	3.6	
		4	0.38		0.6	0.91	One Square metre
						4.51	
17	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in Cement mortar 1:6 (1 cement: 6 coarse sand)						
	Brick work						
	Compound wall	2	2.77	0.23	2.4	3.06	
	Guard Room	2	2.46	0.23	2.65	3	
		1	3.04	0.23	2.65	1.85	
	Deduction						
	D	-1	0.9	0.23	2.1	-0.43	
	W	-1	1.5	0.23	1.2	-0.41	
	Elevation Wall	1	2.93	0.5	5.95	8.72	One Cubic Meter

	Elevation Wall	1	2.7	0.5	5.95	8.03	
	Steps	1	3.5	1.5	0.15	0.79	
		1	3.5	1.2	0.15	0.63	
		1	3.5	0.9	0.15	0.47	
		1	3.5	0.6	0.15	0.32	
						26.03	
18	12 mm cement plaster of mix: 1:4 (1 cement: 4 fine sand)						
	INNER						
	Long wall	2	3		2.9	17.4	
	Store Room	2	2.5		2.9	14.5	
	Deduction						
	D	-0.5	0.9		2.1	-0.95	
	W	-0.5	1.5		1.2	-0.9	
	Wall Compound	2	3		2.4	14.4	
	backside	2	3		2.4	14.4	
	Front Elevation Left	2	3.73		7	52.22	
	Front Elevation Right	2	3.5		7	49	
	Column	1	2		3	6	
	Guard Room Outer	2	2.69		3	16.14	
		1	3.5		3	10.5	
	Top Beam	1	6		2.5	15	
	CHAJJA						
	W	4	1.8	0.45		3.24	
		2	2.4		0.1	0.48	
	Deduction of Rough Plaster						
		-1	25.68			-25.68	
	Steps	2	1.5		0.6	1.8	
		4	3.5		0.15	2.1	
		1	3.5	1.5			
						189.65	
							One Square metre

19	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre: Two coat						
	Qty From above	1	189.65			189.65	
	Qty From item no 15	1	25.68			25.68	
						215.33	One Square metre
20	Wall painting with acrylic emulsion paint, having VOC content less than 50grams/ litters, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour: one coat						
	Qty From above		215.33			215.33	
						215.33	One Square metre
21	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent						
	Platform	2	3.76	0.2		1.5	
						1.5	One Square metre
22	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding						
	Window 1.5x1.2	1	30			30	
						30	Kg

23	Providing and fixing in position factory made precast RCC M-40 fixing with hold fast embedded in 1:3:6 concrete block for doors and windows frames having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 no specially designed M.S. galvanised sleeves for accommodating 6 mm Dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for receiving sliding door bolts and tower bolt etc. all complete, as per the direction of Engineer-in-charge. The frame shall be measured in running metre correct to two places of decimal.						
	Frame						
	Vertical	2	2.1				4.2
	Horizontal	1	0.9				0.9
							5.1
24	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:25 mm thick including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws						
		1		0.9	2.1		1.89
							1.89
25	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge: With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)						
	Window 1.5x1.2	2	1.5		1.2		3.6
							3.6

26	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero-chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, levelling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles Matt/Antiskid finish of size of Tile 600 x 600 mm						
	FLOOR	1	3	2.5		7.5	One Square metre
	Steps	1	3.5	1.5		5.25	
						12.75	
27	Double charge vitrified tile polished finish of Size of Tile 600 x 600 mm						One Cubic metre
	Carry Tiles	1	3.76		0.600	2.26	
	Gurad Room	2	3		0.100	0.6	
		2	2.5		0.100	0.5	
	Deduction						
		-0.5	0.9		0.100	-0.05	
						3.31	
28	Providing, laying and fixing exterior grade fibrilling fibre reinforcement heavy duty designer cement concrete tiles for Flooring of approved colour and design 22 +/-2 mm thick bayer colour pigmented as per IS ..1237 - 1980 having compressive strength more than 500 Kilogram/sq.cm reaffirmed in 2006 ,having wert transverse strength of 3.5 / mm 2, water absorption less than 10 % abrasion / wear resistance less than 2 mm ,skid resistance more than 25.0 (ASTM:E303) and no fading as per DIN - 51094 of size 300 x 300 in plan / designed pattern on a bed of 1:4 cement mortar including cement float ,filling joints with neat cement slurry ,curing, polishing and cleaning etc. complete. For flooring.						One Square metre
	Entrance	1	8	3		24	
		1	8	3		24	
						48	

29	Providing and fixing mild steel grill gate as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade, etc. Weight of gate 40 Kilogram/Sqmt. (As directed by Engineer in Charge)						
	Main Gate	1	6		2.1	12.6	
	Wicket Gate	1	1.5		2.1	3.15	
						15.75	One Square metre
30	Providing and fixing Stainless Steel Name Letters and logo, of required size and style as directed by Engineer Incharge						
		1	35			35	
		2	10			20	
						55	One Number
31	Providing and Fixing Processed Stone Cladding (sandstone) confirming as per IS code 3622: 1977 on wall surface/ plywood surface. RCC pardi/ Wall and all type of Interior, Exterior Compound wall and Gate etc. of cladding processed stone with material of Processed clay, Wooden chips, Silica sand, Cement, GFRc admixtures, Colour pigments, Fiber up to thick of 230 mm/ 25 mm including scaffolding, fixing of screw, etc. (As directed by Engineer in Charge)						
	Elevation	2	3.5		0.780	5.46	
		4	0.78		6.220	19.41	
		1	2.72		3.000	8.16	
	Inner Side	2	0.5		6.250	6.25	
	Top Beam	1	2.5		8.000	20	
						59.28	One Square metre
32	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentiDeleted ire 0.75 mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6 mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.						
		1	8			8	
						8	One Running Meter

33	Providing and fixing 40mm and 1.5 mm thick Stainless-steel Pipe in Grade including fabricating, fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete							
	Frame	10	2.3				23	
		8	1.3				10.4	
		2	2.8				5.6	
							39	One Running Meter
34	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 20 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.							
	Casing	2	2.5				5	
		2	7				14	
							19	One Running Meter
35	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 40 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.							
	Casing	2	2.5				5	
		4	7				28	
							33	One Running Meter
36	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW							
	Wire	1	40				40	
							40	One Running Meter
37	Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW							
	Wire	1	15				15	
							15	One Running Meter
38	Supplying and erecting mains with 2x6 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW							
	Wire	1	75				75	One Running Meter

									75
39	Supplying and erecting modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.								
	Switches	5							5
									5
									Each
40	Supplying and erecting modular type switch 16A duly erected on provided plate and box with wiring connections complete.								
	AC Switches	1							1
									1
									Each
41	Supplying and erecting modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete.								
	DP	1							1
									1
									Each
42	Supplying LED concealed type foot / step light with aluminium body for indoor/outdoor application suitable for 4W-6W LED including driver and erecting by making necessary arrangement / recess in wall to make it flush with surface with 1 year warranty.								
	Box	6							6
									6
									Each
43	Supplying, erecting & marking FPMCB 6A to 32A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB								
	MCB	1							1
									1
									Each

44	Supplying and erecting LED square / circular Max. 7W down lighter/ Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 770 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.						
	Lights	4					4
							4
							Each
45	Supplying and erecting LED Strip light 5m Length Max. 95 W IP20 class having minimum lumens output of 1600 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f. >0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50 including driver with 1 year warranty.						
	Lights	6					6
							6
							Each
46	Supplying and erecting regular/ standard model ceiling fan of 1400mm. sweep complete erected in position as per specification no. FG-FN/CF						
	FANS	1					1
							1
							Each
47	Supplying & fixing anchor type fastener fan hook, with 2 nos. of 10 mm dia x 75 mm long with necessary materials for ceiling fan.						
	FANS	1					1
							1
							Each
48	Supplying & erecting integral post top lantern fixtures (mushroom type) suitable for LED lamp upto 12 W consisting of clear acrylic top cover, cast aluminium pole cap complete with accessories on provided pole /bracket as per specification no. FG-ODF/PTL						
		2					2
							2
							Each

49	Carrying out testing BASIC TEST OF CONCRETE Compressive Strength OF C.C. Cube (Set of 3 cubes).						
		2					2
							2
							Test
50	Carrying out testing BASIC TEST OF STEEL BAR TESTING Upto 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress.)						
		1					1
							1
							Test

Technical Specifications for Construction Of Main Gate At ICAR-CICR, Panjari, Khapri Phata, Wardha Road, Nagpur

Specifications:

MINIMUM TECHNICAL SPECIFICATIONS, FOR CONSTRUCTION OF MAIN GATE AT ICAR-CICR, PANJARI, KHAPRI PHATA, WARDHA ROAD, NAGPUR.

Sr No	Item	QTY	Unit	Rate	Amount
1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	14.49	One Cubic. M		
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :Of area 3 sq. metres and below	6.00	One Number		
3	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	5.99	One Cubic M.		
4	Filling in plinth with moorum	19.43	One Cubic M.		
5	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	48.00	One Cubic M.		
6	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15cm to 20cm thick including hand packing & compacting etc complete.	5.39	One Cubic M.		
7	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Concrete of M15 grade with minimum cement content of 240 kg /cum	5.19	One Cubic M.		

8	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 M-20 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	20.98	One Cubic M.		
9	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 M-20 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	15.05	One Cubic M.		
10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo Mechanically Treated Bar of Grade Fe-500D or More				
	Steel	1678.40	kg		
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo Mechanically Treated Bar of Grade Fe-500D or More				
	Steel	1505.00	kg		
12	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete	113.24	One Square metre		
13	Lintels, beams, plinth beams, girders, bressumers and cantilevers	70.65	One Square metre		
14	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement: 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement: 3 fine sand) mixed with 10% finely grounded hydrated lime by volume of cement. Ordinary cement finish using ordinary cement	25.68	One Square metre		

15	Providing and laying water proofing treatment on roots of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:(a) after surface preparation, first layer of slurry of cement @ 0,488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.(b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.(c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.(d) fourth and final layer of brick tiling with cement mortar .For the purpose of measurement the entire treated surface will be measured. and as directed and specified by the Engineer-in-Charge :	7.50	One Square metre		
16	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:3 (1 cement :3 coarse sand)	4.51	One Square metre		
17	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand)	26.03	One Cubic Meter		
18	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	189.65	One Square metre		
19	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre : Two coat	215.33	One Square metre		
20	Wall painting with acrylic emulsion paint, having VOC content less than 50grams/ liters, of approved brand and manufacture,including applying additional coats wherever required, to achieve even shade and colour :one coat	215.33	One Square metre		
21	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab colour of Black,Cherry/Ruby Red or equivalent.	1.50	One Square metre		
22	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding	30.00	Kg		

23	Providing and fixing in position factory made precast RCC M-40 fixing with hold fast embedded in 1:3:6 concrete block for doors and windows frames having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 no specially designed M.S. galvanised sleeves for accommodating 6 mm dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for receiving sliding door bolts and tower bolt etc. all complete, as per the direction of Engineer-in-charge. The frame shall be measured in running metre correct to two places of decimal.	5.10	One Running Meter		
24	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:25 mm thick including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	1.89	One Square metre		
25	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge : With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	3.60	One Square metre		
26	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles Matt/Antiskid finish of size Size of Tile 600 x 600 mm	12.75	One Square metre		
27	Double charge vitrified tile polished finish of Size of Tile 600 x 600 mm	3.31	One Cubic metre		
28	Providing, laying and fixing exterior grade fibrilling fibre reinforcement heavy duty designer cement concrete tiles for Flooring of approved colour and design 22 +/-2 mm thick bayer colour pigmented as per IS ..1237 - 1980 having compressive strength more than 500 Kilogram/sq.cm reaffirmed in 2006 ,having wert transverse strength of 3.5 / mm 2, water absorption less than 10 % abrasion / wear resistance less than 2 mm ,skid resistance more than 25.0 (ASTM:E303) and no fading as per DIN - 51094 of size 300 x 300 in plan / designed pattern on a bed of 1:4 cement mortar including cement float ,filling joints with neat cement slurry ,curing, polishing and cleaning etc. complete. For flooring.	48.00	One Square metre		

29	Providing and fixing mild steel grill gate as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade, etc. Weight of gate 40 Kilogram/Sqmt. (As directed by Engineer in Charge)	15.75	One Square metre		
30	Providing and fixing Stainless Steel Name Letters and logo, of required size and style as directed by Engineer In charge	55.00	One Number		
31	Providing and Fixing Processed Stone Cladding (sandstone) confirming as per IS code 3622: 1977 on wall surface/ plywood surface. RCC pardi/ Wall and all type of Interior, Exterior Compound wall and Gate etc. of cladding processed stone with material of Processed clay, Wooden chips, Silica sand, Cement, GFRC admixtures, Colour pigments, Fiber up to thick of 230 mm/ 25 mm including scaffolding, fixing of screw, etc. (As directed by Engineer in Charge)	59.28	One Square metre		
32	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentiDeleted ire 0.75 mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6 mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.	8.00	One Running Meter		
33	Providing and fixing 40mm and 1.5 mm thick Stainless steel Pipe in Grade including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete	39.00	One Running Meter		
34	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 20 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.	19	One Running Meter		
35	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 40 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.	33	One Running Meter		
36	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	40	One Running Meter		
37	Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	15	One Running Meter		
38	Supplying and erecting mains with 2x6 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW	75	One Running Meter		
39	Supplying and erecting modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	5	Each		
40	Supplying and erecting modular type switch 16A duly erected on provided plate and box with wiring connections complete.	1	Each		
41	Supplying and erecting modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete.	1	Each		

42	Supplying LED concealed type foot / step light with aluminium body for indoor/outdoor application suitable for 4W-6W LED including driver and erecting by making necessary arrangement / recess in wall to make it flush with surface with 1 year warranty.	6	Each		
43	Supplying, erecting & marking FPMCB 6A to 32A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB	1	Each		
44	Supplying and erecting LED square / circular Max. 7W down lighter/ Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 770 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.	4	Each		
45	Supplying and erecting LED Strip light 5m Length Max. 95 W IP20 class having minimum lumens output of 1600 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f. >0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50 including driver with 1 year warranty.	6	Each		
46	Supplying and erecting regular/ standard model ceiling fan of 1400mm. sweep complete erected in position as per specification no. FG-FN/CF	1	Each		
47	Supplying & fixing anchor type fastener fan hook, with 2 nos. of 10 mm dia x 75 mm long with necessary materials for ceiling fan.	1.00	Each		
48	Supplying & erecting integral post top lantern fixtures (mushroom type) suitable for LED lamp upto 12 W consisting of clear acrylic top cover, cast aluminium pole cap complete with accessories on provided pole /bracket as per specification no. FG-ODF/PTL	2.00	Each		
	Testing				
49	Carrying out testing BASIC TEST OF CONCRETE Compressive Strength OF C.C. Cube (Set of 3 cubes).	2.00	Test		
50	Carrying out testing BASIC TEST OF STEEL BAR TESTING Upto 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebind Test, Proof Stress.)	1.00	Test		


06/01/25

(Puneet Kumar)
Administrative Officer
ICAR-CICR, Nagpur

GENERAL REPORT AND SPECIFICATION

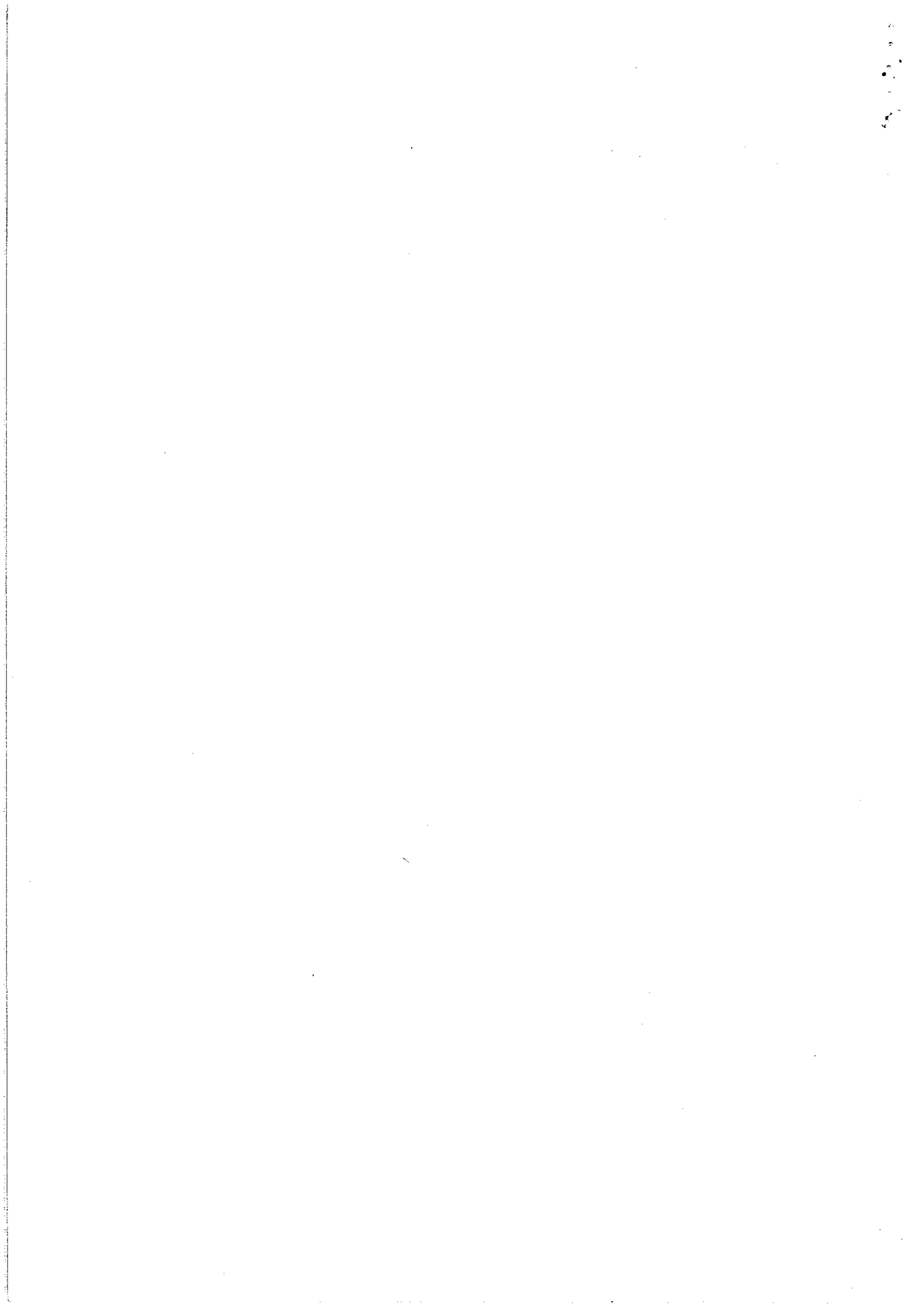
NAME OF WORK	:-	CONSTRUCTION OF INSTITUTE'S MAIN GATE AT ICAR-CICR, PANJARI, KHAPRI PHATA, WARDHA ROAD, NAGPUR.
Provision	:-	Following provisions are made in the estimate
	1	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.
	2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :Of area 3 sq. metres and below
	3	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in charge. Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)
	4	Filling in plinth with moorum
	5	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.
	6	Providing dry/ trap/ granite/ quartzite/ gneiss rubble stone soling 15cm to 20cm thick including hand packing & compacting etc complete.
	7	Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge; for the following grades of concrete. Concrete of M15 grade with minimum cement content of 240 kg /cum.
	8	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 M-20 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)
	9	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 M-20 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)

10	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo Mechanically Treated Bar of Grade Fe-500D or More
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo Mechanically Treated Bar of Grade Fe-500D or More
12	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete
13	Lintels, beams, plinth beams, girders, bressumers and cantilevers
14	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement: 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement: 3 fine sand) mixed with 10% finely ground hydrated lime by volume of cement. Ordinary cement finish using ordinary cement
15	Providing and laying water proofing treatment on roots of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying:(a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm.(b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm.(c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30 cm on parapet wall and tucked into groove in parapet all around.(d) fourth and final layer of brick tiling with cement mortar .For the purpose of measurement the entire treated surface will be measured. and as directed and specified by the Engineer-in-Charge :
16	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:3 (1 cement : 3 coarse sand)
17	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand)
18	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)
19	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre : Two coat
20	Wall painting with acrylic emulsion paint, having VOC content less than 50grams/ liters, of approved brand and manufacture,including applying additional coats wherever required, to achieve even shade and colour :one coat
21	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed

		with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Polished Granite stone slab colour of Black,Cherry/Ruby Red or equivalent
	22	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding
	23	Providing and fixing in position factory made precast RCC M-40 fixing with hold fast embedded in 1:3:6 concrete block for doors and windows frames having excellent smooth finish as per IS: 6523 with reinforcement of 3 Nos, 6 mm dia main bars tied with 3 mm M.S stirrups placed @ 200 mm C/C and 6 numbers high strength polymer blocks of required size for fixing hinges including providing 6 no specially designed M.S. galvanised sleeves for accommodating 6 mm dia fully threaded bolts for fixing hold fast on vertical members, providing suitable arrangement for receiving sliding door bolts and tower bolt etc. all complete, as per the direction of Engineer-in-charge. The frame shall be measured in running metre correct to two places of decimal.
	24	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:25 mm thick including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws
	25	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge : With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)
	26	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles Matt/Antiskid finish of size of Tile 600 x 600 mm
	27	Double charge vitrified tile polished finish of Size of Tile 600 x 600 mm
	28	Providing, laying and fixing exterior grade fibrilling fibre reinforcement heavy duty designer cement concrete tiles for Flooring of approved colour and design 22 +/-2 mm thick bayer colour pigmented as per IS ..1237 - 1980 having compressive strength more than 500 Kilogram/sq.cm reaffirmed in 2006 ,having wert transverse strength of 3.5 / mm 2, water absorption less than 10 % abrasion / wear resistance less than 2 mm ,skid resistance more than 25.0 (ASTM:E303) and no fading as per DIN - 51094 of size 300 x 300 in plan / designed pattern on a bed of 1:4 cement mortar including cement float ,filling joints with neat cement slurry ,curing, polishing and cleaning etc. complete. For flooring.
	29	Providing and fixing mild steel grill gate as per the detailed drawing including hinges, pivot block locking arrangement, welding riveting and oil painting of three coats of approved shade,etc. Weight of gate 40 Kilogram/Sqmt. (As directed by Engineer in Charge)

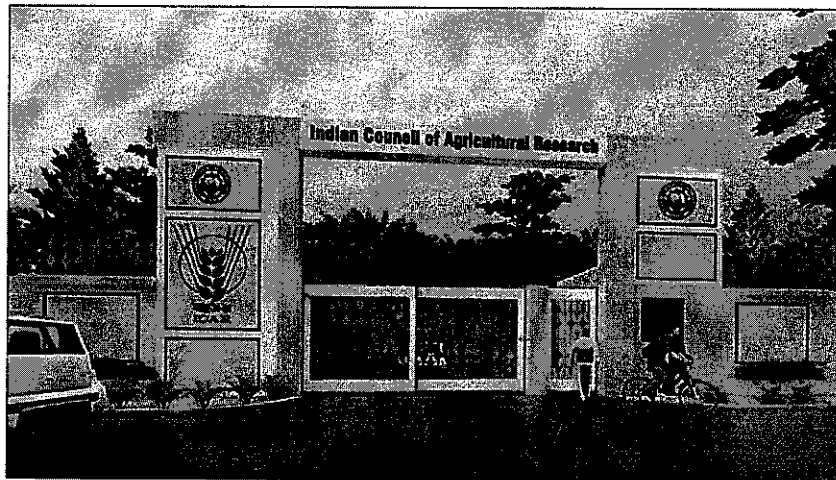
30	Providing and fixing Stainless Steel Name Letters and logo, of required size and style as directed by Engineer Incharge
31	Providing and Fixing Processed Stone Cladding (sandstone) conforming as per IS code 3622: 1977 on wall surface/ plywood surface. RCC pardi/ Wall and all type of Interior, Exterior Compound wall and Gate etc. of cladding processed stone with material of Processed clay, Wooden chips, Silica sand, Cement, GFRC admixtures, Colour pigments, Fiber up to thick of 230 mm/ 25 mm including scaffolding, fixing of screw, etc. (As directed by Engineer in Charge)
32	Providing and erecting Y type barbed wire fencing with seven rows of wire with 2.45 mm dia G.I. pipe (Rezan/ concentiDeleted ire 0.75 mm dia) with hot dip and G.I. coated hooks as per drawing supported on M.S. angle 50 x 50 x 6 mm at 2.5 mtr. c/c including fixing and fastening with wire, painting M.S. angles with one coat of red lead primer and two coat of oil paint etc. complete.
33	Providing and fixing 40mm and 1.5 mm thick Stainless steel Pipe in Grade including fabricating ,fixtures, erecting, necessary welding, grinding, finishing, buffing to stainless steel pipe etc. complete
34	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 20 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.
35	Supplying and erecting PVC trunking (PVC casing-n-capping) of size 40 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.
36	Supplying and erecting mains with 2x2.5 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW
37	Supplying and erecting mains with 2x4 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW
38	Supplying and erecting mains with 2x6 sq.mm FRLSH copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WG-MA/BW
39	Supplying and erecting modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.
40	Supplying and erecting modular type switch 16A duly erected on provided plate and box with wiring connections complete.
41	Supplying and erecting modular type D.P. switch 32A with indicator, duly erected on provided plate and box with wiring connections complete.
42	Supplying LED concealed type foot / step light with aluminium body for indoot/outdoor application suitable for 4W-6W LED including driver and erecting by making necessary arrangement / recess in wall to make it flush with surface with 1 year warranty.
43	Supplying, erecting & marking FPMCB 6A to 32A, with rated short - circuit breaking capacity (Icn) 10kA in provided distribution board as per specification no. SW-SWR/MCB

44	Supplying and erecting LED square / circular Max. 7W down lighter/ Panel Light having pressure die-cast aluminium housing, polystyrene diffuser having system lumens output of Min. 770 Lumens, min. efficacy of 110 lumen/W, CRI>80, CCT upto 6500K, Beam Angle of 120 deg., max. ripple of 5%, THD<10%, p.f. >0.95, operating range of 120-270V, surge protection of 2.5 kV, Life class of 50,000 Hrs. at L70B50, including driver, having mounting arrangement with board for surface type or spring loaded mounting clips complete with 3 years warranty.
45	Supplying and erecting LED Strip light 5m Length Max. 95 W IP20 class having minimum lumens output of 1600 Lumens/m, min. efficacy of 90 lumen/W, CRI>80, CCT upto 5000K, Beam Angle of 110 deg., THD<10%, p.f. >0.95, operating range of 230-270V, Life class of 30,000 Hrs. at L70B50 including driver with 1 year warranty.
46	Supplying and erecting regular/ standard model ceiling fan of 1400mm. sweep complete erected in position as per specification no. FG-FN/CF
47	Supplying & fixing anchor type fastener fan hook, with 2 nos. of 10 mm dia x 75 mm long with necessary materials for ceiling fan.
48	Supplying & erecting integral post top lantern fixtures (mushroom type) suitable for LED lamp upto 12 W consisting of clear acrylic top cover, cast aluminium pole cap complete with accessories on provided pole /bracket as per specification no. FG-ODF/PTL
49	Carrying out testing BASIC TEST OF CONCRETE Compressive Strength OF C.C. Cube (Set of 3 cubes).
50	Carrying out testing BASIC TEST OF STEEL BAR TESTING Upto 16 mm (Set of 3 Bars) (Tensile strength, %, Elongation, Yield Stress, Weight-Per Meter, Bend / Rebend Test, Proof Stress.)
Note	The work shall be carried out as per Standard Specifications laid down in specification book & Directions of Engineer-In-Charge.





Drawing of Main Gate :

DAY VIEW



NIGHT VIEW

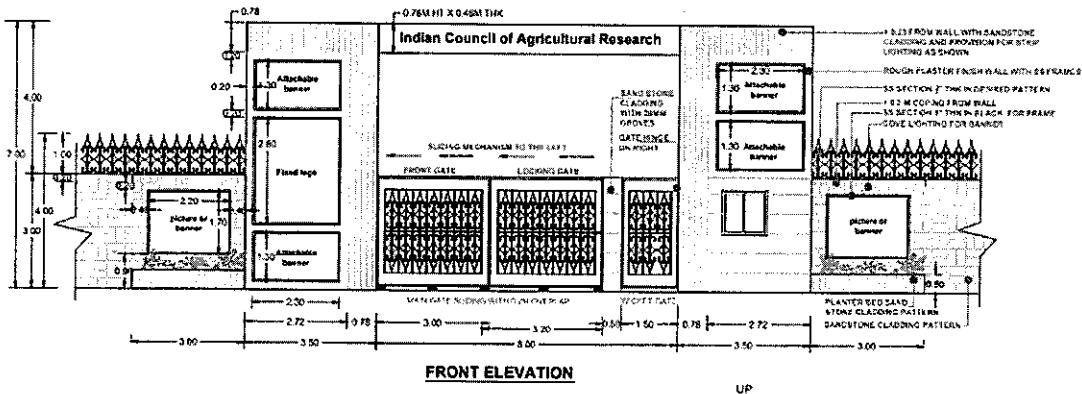


<p>ICAR-CICR, NAGPUR-2</p>			
<p>CONSTRUCTION OF MAIN GATE AT ICAR-CICR, NAGPUR</p>			
<p>TITLE: 3D ELEVATION</p>			
<p>DATE: 08-10-20</p>			
SCALE	BY	CHKD	APP
DATE	BY	DATE	BY
DATE	BY	DATE	BY
DATE	BY	DATE	BY
			
			

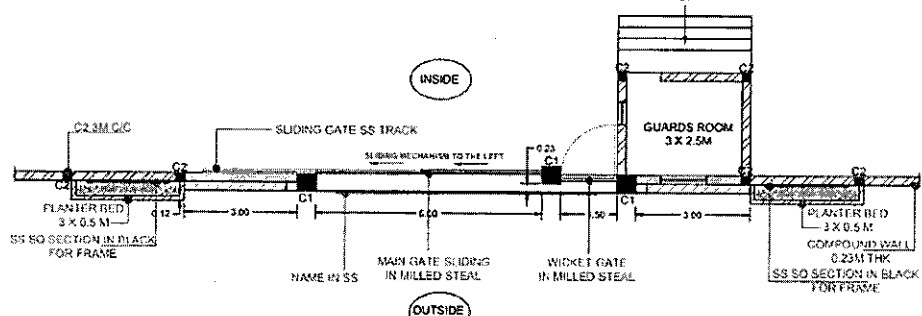
3D ELEVATION

10
11
12
13
14

DRAWING NO:2



FRONT ELEVATION



MAIN GATE PLAN

COLUMN SCHEDULE

C1	0.5 X 0.46 M
C2	0.25 X 0.23 M

DATE: 2011

1. SCALE: Structural works as shown, as in plan, section & elev. & etc.

CLIENT:

ICAR-CICR, NAGPUR


PROJECT:


CONSTRUCTION OF MAIN GATE AT ICAR-CICR, NAGPUR

TITLE: LAYOUT PLAN

(Drawing No.: PG-1P-01)

SCALE	AS SHOWN	DATE	08/10/11
DWG. BY	DR	CHK. BY	DR
REV. BY	DR	PROJECT OFFICE	NAGPUR
SCALE	1:100		





PLAN

1
2
3
4
5

100