



अखिल भारतीय आयुर्विज्ञान संस्थान, नागपुर

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NAGPUR

Office of Superintending Engineer, Plot No – 2, Sector – 20, MIHAN, Nagpur– 441108

Email: - se@aiimsnagpur.edu.in

NOTICE INVITING e-TENDER

E-Tender No.	: 05/AIIMS/NAG/ENGG/SE/2022-23
Name of Work	: Supply, Installation, Testing and Commissioning of 217 feet High Mast Tri Colour National Flag of size 60' x 90' with complete design at AIIMS Nagpur.
Estimated Cost	: Rs. 56,36,104/-
Earnest Money	: Rs. 1,12,725/-
Performance Guarantee	: 3% of Tender Value.
Security Deposit	: 10% of Tender Value.
Time Allowed	: 60 Days
Publish Date	: 11/01/2023 at 13:00 Hrs.
Bid Document Download	: 11/01/2023 at 13:05 Hrs.
Pre-Bid Meeting	: 16/01/2023 at 11:00 Hrs.
Bid Submission Start Date	: 18/01/2023 at 09:00 Hrs.
Bid Submission End Date	: 28/01/2023 at 13:00 Hrs.
Technical Bid Opening Date	: 30/01/2023 at 09.00 Hrs.

Certified that this N.I.T. Contains 01 to 47 Pages (One to Forty Seven)


SUPERINTENDING ENGINEER
AIIMS, NAGPUR

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Name of work: Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60'x90' with complete design at All India Institute of Medical Sciences, Nagpur.

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Superintending Engineer
AIIMS, Nagpur

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NAGPUR
NOTICE INVITING e-TENDER

The Superintending Engineer, Plot No-02, Sec-20, MIHAN, AIIMS, Nagpur (07103-299455, email : se@aiimsnagpur.edu.in) on behalf of The Director, AIIMS, Nagpur invites Item Rate Bids from Manufacturer or authorized dealer or contractors of OEM or Agency having **experience in carrying out similar work** who fulfill the Pre Qualification criteria in Two Bid System for the following work:

N.I.T. No. : 05/AIIMS/NAG/ENGG/SE/2022-23

Name of Work :- Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60'x90' with complete design at All India Institute of Medical Sciences, Nagpur.

Estimated Cost :- ₹ 56,36,104/- (including 18% GST)

Earnest Money :- ₹ 1,12,725/-

Security Deposit :- 10% of the Tendered Value

Performance Guarantee :- 3% of the Tendered Value

Pre bid Meeting :- on 16/01/2023 at 11:00 Hrs through Video Conferencing/Site Visit, Interested vendors/firms may write an email for the same to se@aiimsnagpur.edu.in

Period of completion :- 60 days.

Last date and time of submission of bid : 28/01/2023 at 13.00 Hrs

Bids shall be submitted online only at CPPP website <https://eprocure.gov.in/eprocure/app>.

Tenderer/Contractor/Bidders are advised to follow the instructions provided in the 'Instructions to the service providers/ Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>.

Instructions for Online Bid Submission:

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

More information useful for submitting online bids on the CPP Portal may be obtained at:

<https://eprocure.gov.in/eprocure/app>.

Registration

- 1) 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 Enrolment” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) 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 CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (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.
- 5) 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.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

Searching for Tender documents

- 1) There are various search options built in the 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 CPP Portal.
- 2) 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 CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) 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

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.
- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
- 3) 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.
- 4) 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 / JPG formats. Bid documents may be scanned with **100 dpi** which helps in reducing size of the scanned document.
- 5) 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

- 1) Bidder should log into the site well 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 issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) 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 light blue coloured (unprotected) cells 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 file name. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
- 4) 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.
- 5) The documents being submitted by the bidders would be encrypted using PKI encryption all 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.
- 6) 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.
- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) 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 & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

Assistance to bidders

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk number 0120-4200462, 0120-4001002.

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING
FORMING PART OF BID DOCUMENT AND TO BE POSTED ON WEBSITE
(APPLICABLE FOR INVITING BIDS ON TWO BID SYSTEM)

The Superintending Engineer, Plot No-02, Sec-20, MIHAN, AIIMS, Nagpur (07103-299455, e-mail se@aiimsnagpur.edu.in, CPPP website: <https://eprocure.gov.in/eprocure/app>) invites Item Rate Bids from Manufacturer or authorized dealer or contractors of OEM or Agency having experience in carrying out similar work who fulfill the Pre Qualification criteria in Two Bid System for the following work:

SI. No.	NIT No.	Name of Work & Location	Estimated Cost Put to bid	Earnest Money	Period of Completion	Last date & Time of Submission of bid, copy of receipt for deposition of original EMD and other documents as specified in the press notice.	Time & date of opening of Technical bid
1	05/AIIMS/NAG/ENGG/SE/2022-23	Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60'x90' with complete design at All India Institute of Medical Sciences, Nagpur.	Total = ₹ 56,36,104/- (including 18% GST)	₹ 1,12,725/-	60 days	Upto 1:00 PM on 28/01/2023	At 09:00 AM on 30/01/2023

1. Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.
 - a. The Bidder should have satisfactorily completed the works as mentioned below during the last Seven years ending last date of the month previous to the one in which tenders are invited shall only be considered. For this purpose the cost of work shall mean Gross Value of completed work.

- i. One similar completed works each costing not less than 80% of the estimated cost put to tender :₹ **45 Lakhs** OR
- ii. Two similar completed works each costing not less than 60% of the estimated cost put to tender :₹ **33 Lakhs** OR
- iii. Three similar completed works each costing not less than 40% of the estimated cost put to tender :₹ **20 Lakhs**

Similar work means “SITC of High Mast”.

- b. **Certificate of Financial Turn over:** The Bidder should have had average annual financial turnover of ₹ **28.18Lakhs** and at the time of submission of bid contractor may upload certified from C.A on the format prescribed in **Form “A”**. mentioning Financial Turnover of last 3 consecutive years ending 31st March 2022, and further details if required may be asked from the contractor after opening of technical bids.
 - c. The bidder should have a **solvency** of amount ₹ **22.55 Lakhs (40%** of the estimated cost put to tender) certified by his Bankers on the format prescribed in **Form “B”**

or

 The bidder should submit **Networth certificate** of minimum ₹ **5.64 Lakhs (10%** of the Estimated Cost put to tender) issued by certified Chartered Accountant on the format prescribed in **Form “B-1”**.
2. The intending bidder must read the terms and conditions carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
 3. Information and Instructions for bidders posted on website shall form part of bid document.
 4. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from CPPP website <https://eprocure.gov.in/eprocure/app> .
 5. Pre-bid conference will be held on 16/01/2023 at time 11:00 Hrs. via video conference/ physical mode in the office of the Superintending Engineer, Engineering Department, Ground Floor, IPD building, AIIMS Nagpur to clear the doubt of intending bidders, if any. After pre-bid conference, modifications if required in the bidding documents will be uploaded on the website. Intending bidder require to write an e- mail to se@aiimsnagpur.edu.in for participating pre bid meeting.
 6. The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of ₹ **1,12,725/-** in the form of Insurance Surety Bonds/Demand Draft/ FDR/Banker’s Cheque or BG (including e-Bank Guarantee). Scanned copy to be enclosed with technical bid. It is also clarified that the bids submitted without earnest money will be summarily rejected. The Insurance Surety Bonds/Demand Draft/ FDR/Banker’s Cheque or BG (including e-Bank Guarantee) may be prepared in the name of **"The Director, AIIMS, Nagpur"**. The EMD (Original Insurance Surety Bonds/Demand Draft/ FDR/Banker’s Cheque or BG (including e-Bank Guarantee) or any exemption certificate) must reach AIIMS Nagpur prior to opening of tender. The EMD of the successful bidder shall be returned after the successful submission of Bank Guarantee/ Security Deposit and for unsuccessful bidder(s) it would be returned after award of the contract.

Bidder shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the Bidder fail to observe and comply with stipulation made herein or backs out after quoting the rates, the aforesaid amount of earnest money will be forfeited.

If MSME firm is registered with following agencies for tendered item then they are exempted for submission of EMD only.

- (i) District Industries Centres.
- (ii) Khadi & Village Industries commission.
- (iii) Khadi & Village Industries Board.
- (iv) Coir Board.
- (v) Central / State PSU’s
- (vi) Small Industries Corporation (NSIC).

(vii) Directorate of handicraft & Handlooms.

(viii) Any other body specified by Ministry of MSME (Ministry of Micro, Small & Medium Enterprises).

If MSME's who are interested in availing these benefits will have to attach with their offer the proof of their beings MSE's registered with any of the above-mentioned agencies.

Startups firms as recognized by Department of Industrial Policy & Promotion (DIPP) is also exempted for depositing of EMD amount. Valid documents should be uploaded.

The earnest money will be returned/refund to the unsuccessful tenderers after the tender is decided.

EMD should remain valid for a period of 45 days beyond the final bid validity period. When the tenderer agrees to extend the validity of bid, he shall also extend the validity of EMD suitably.

7. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
8. The intending bidder must have valid **Class-II / Class-III digital signature** to submit the bid.
9. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
10. Contractor can upload documents in the form of **JPG /PDF** or any permissible format.
11. Please take due care while scanning the documents so that the size of documents to be uploaded remains minimum. If required, documents may be scanned at lower resolutions say at **100 dpi**. However, it shall be sole responsibility of bidder that the uploaded documents remain legible.
12. Contractor must ensure to enter Name of Firm in the dedicated cells and quote Item rate on total value of work with selection. The column meant for entering Name of Firm and quoting item rate in figures appears in "light Blue Color". In addition to this, while quoting rate, if the cell is left with blank, the same shall be treated as "0" (ZERO). However, if a tenderer quotes nil rates against each item in item rate tender any section / subhead in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
13. The pre qualification/ Technical bid will be opened first on due date and time as mentioned above. The time & date of opening of financial bid of contractors qualifying the eligibility bid will be communicated to them a later date.
14. When bids are invited in two stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.
15. The department reserves the right to reject any prospective application without assigning any reason and to restrict the list of qualified contractors to any number deemed suitable by it, if too many bids are received satisfying the laid down criterion.
16. Copy of work experience and other documents as specified in the bid document shall be scanned and uploaded to the e-Bidding website within the period of bid submission. However, certified copy of all scanned and uploaded documents as specified in bid document shall have to be submitted physically by the lowest bidder within 7 days after opening of Financial bid in the office of the Superintending Engineer, AIIMS, Nagpur.
17. **Technical Bid Documents to be scanned and uploaded within the period of bid submission:**
 - (i) Copy of Factory registration certificate.
 - (ii) Copy of Valid ISO 9001, ISO 14001 and ISO 45001 certificates.
 - (iii) Third Party Type test certificate of Winch and Galvanizes steel ropes.
 - (iv) Wind Tunnel Test Certificate.
 - (v) Manufacturer's Authorization Form (MAF) as per **Annexure C**.
 - (vi) Duly filled and signed **Annexure D** complying to make and specification.
 - (vii) Duly filled and signed Technical Data Sheet in **Annexure E**.

- (viii) Copy of EMD either in the form of Demand Draft or Bank Guarantee or EMD Exemption certificate in case of MSE.
- (ix) Last 3 years Financial Turnover certified by CA. Details to be filled in **Form "A"** as per turnover certificate.
- (x) Solvency Certificate issued from Bankers' **Form 'B'** OR Net worth Certificate issued From CA **Form 'B-1'**.
- (xi) Details of eligible similar nature of works completed during the last 7 years (in **Form C**)
- (xii) Performance report / Certificates of work experience, to be issued by competent Authority to issue experience certificate.
- (xiii) Structure and Organization in (**Form D**)
- (xiv) Certificate of registration for **GST**.
- (xv) Copy of **PAN Card** issued by Income Tax Department.
- (xvi) Certificate by MSME / Udyam AAdhar Memorandum / Any other body specified by Ministry of MSME (Ministry of Micro, Small & Medium Enterprises) if any.
- (xvii) Checklist duly signed.

SECTION- I**BRIEF PARTICULARS OF THE WORK**

1. Salient details of the work for which bids are invited are asunder:

Sl.no.	Name of work	Estimated cost		Period of completion
1.	Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60'x90' with complete design at All India Institute of Medical Sciences, Nagpur.	Civil and E&M Works	₹ 56,36,104.00 (including 18% GST)	60 days

2. The work is to be executed at **AIIMS, NAGPUR.**

SECTION-II
INFORMATION & INSTRUCTION FOR BIDDERS

1) General :

- 1.1 All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a "nil" or "no such case" entry should be made in that column. If any particulars/query is not applicable in case of the bidder, it should be stated as "not applicable". The bidders are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms may result in the bid being summarily disqualified. Bids made by telegram or telex and those received late will not be entertained.
- 1.2 The bid should be type-written. The bidder should sign each page of the application.
- 1.3 Overwriting should be avoided. Correction, if any, should be made by neatly crossing out, initialing, dating and rewriting. Pages of the eligibility criteria document are numbered. Additional sheets, if any added by the contractor, should also be numbered by him. They should be submitted as a package with signed letter of transmittal.
- 1.4 References, information and certificates from the respective clients certifying suitability, technical knowledge or capability of the bidder should be signed by an officer not below the rank of Superintending Engineer or equivalent.
- 1.5 The bidder may furnish any relevant additional information which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of eligibility criteria document unless it is called for by the Employer.

2) Definitions:

- 2.1 In this document the following words and expressions have the meaning hereby assigned to them.
- 2.2 **Employer:** Means the **Director, AIIMS, Nagpur**, acting through the **Superintending Engineer, AIIMS, Nagpur**.
- 2.3 **Bidder:** Means the individual, proprietary firm, firm in partnership, limited company private or public or corporation.
- 2.4 **"Year"** means "Financial Year" unless stated otherwise.

3) Method of application:

- 1.1 If the bidder is an individual, the application shall be signed by him above his full type written name and current address.
- 1.2 If the bidder is a proprietary firm, the application shall be signed by the proprietor above his full type written name and the full name of his firm with its current address.
- 1.3 If the bidder is a firm in partnership, the application shall be signed by all the partners of the firm above their full type written names and current addresses, or, alternatively, by a partner holding power of attorney for the firm. In the later case a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and current address of all the partners of the firm should accompany the application.
- 1.4 The tender which is not duly signed by authorized signatory or with conditions shall be treated as non-responsive and shall be summarily rejected.

4) Final decision making authority.

The employer reserves the right to accept or reject any bid and to annual the process and reject all bids at any time, without assigning any reason or incurring any liability to the bidders.

5) Site visit

The bidder is advised to visit the site of work, at his own cost, and examine it and its surroundings to collect all information that he considers necessary for proper assessment of the prospective assignment.

6) Initial criteria for eligibility

6.1 The Bidder should have satisfactorily completed works during the last five years ending ending last date of month **previous to the one in which tenders are invited shall only be considered**. For this purpose cost of work shall mean gross value of the completed work. This should be certified by an officer not below the rank of Superintending Engineer /Project Manager or equivalent.

One similar work costing not less than ₹ **45 Lakhs** OR

Two similar works each costing not less than ₹ **33 Lakhs** OR

Three similar works each costing not less than ₹ **22 Lakhs**

Similar work shall mean works of "SITC of High Mast".

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7 % per annum; calculated from the date of completion to previous day of last date of submission of bids.

6.2 The bidder should have had average annual financial turn over (gross) of ₹ **28.18 Lakhs** on building, renovation civil works, during the last Three consecutive years (upto 31/03/2022), Year in which no turnover is shown would also be considered for working out the average.

6.3 The bidder should have sufficient number of Technical and Administrative employees for the proper execution of the contract. The bidder shall have to submit a list of these employees stating clearly how these would be involved in this work within **15 days** of award of work.

6.4 The bidder should have a **solvency** of amount ₹ **22.55 Lakhs** (40% of the estimated cost put to tender) certified by his Bankers on the format prescribed in **Form "B"**

or

The bidder should submit **Networth certificate** of minimum ₹ **5.64 Lakhs** (10% of the Estimated Cost put to tender) issued by certified Chartered Accountant on the format prescribed in **Form "B-1"**

7) Evaluation criteria

The initial criteria prescribed in para 6 above in respect of experience of eligible similar works completed, financial turn over etc. will first be scrutinized and the bidder's eligibility for the work be determined. Bidders to submit work completion and work performance certificate for the similar works.

8) Financial information

Bidder should furnish the following financial information:

Annual financial statement for the last three year in (**Form "A"**) and solvency certificate in (**Form "B"**) or Networth certificate in (**Form "B-1"**)

9) Experience in works highlighting experience in similar works

Bidder should furnish the following:

List of eligible similar nature of works successfully completed during the last seven years in (**Form "C"**).

10) Organization information

Bidder is required to submit the information in respect of his organization in (**Forms "D"**)

11) Opening of Price bid

After evaluation of applications, a list of short listed agencies will be prepared. Thereafter the financial bids of only the qualified and technically acceptable bidders shall be opened at the notified time, date and place in the presence of the qualified bidders or their representatives.

The bid shall remain valid for **90 days from the opening of eligibility bids**.

12) Award criteria

- 13.1 The employer reserves the right, without being liable for any damages or obligation to inform the bidder, to:
 - a. Amend the scope and value of contract to the bidder.
 - b. Reject any or all the applications without assigning any reason.
- 13.2 Any effort on the part of the bidder or his agent to exercise influence or to pressurize the employer would result in rejection of his bid. Canvassing of any kind is prohibited.
- 13.3 After due evaluation of the bid(s) AIIMS, Nagpur will award the contract to the lowest evaluated responsive tenderer. Conditional bid will be treated as unresponsive and will be rejected.

13) Arbitration :

If any difference arises concerning this agreement, its interpretation on payment to be made there-under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the other party for submission of the dispute for decision by an Arbitral Tribunal containing Sole Arbitrator to be appointed by the Secretary, Department of Legal Affairs. Such requests shall be accompanied with a panel of names of three persons to act as the sole arbitrator. In case of such arbitrator refusing, unwilling or becoming incapable to act or his mandate having been terminated under law, another arbitrator shall be appointed in the same manner from among the panel of three persons to be submitted by the claimant. The provision of **Arbitration and Conciliation Act, 1996** and the rule framed there under and in force shall be applicable to such proceedings.

**Superintending Engineer
AIIMS, Nagpur**

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FORM "A"
FINANCIAL INFORMATION

1. Financial Analysis – Details to be furnished duly certified by the Chartered Accountant.

Financial years	2019-20	2020-21	2021-22
Gross Annual Turn Over			
Average Annual Financial Turnover			

Signature of Chartered Accountant
With Seal and UDIN No.

Signature of Bidder(s)

FORM "B"
BANKERS' CERTIFICATE FROM A SCHEDULED BANK

This is to certify that to the best of our knowledge and information that M/s./Sh..... having marginally noted address, as a Customer of our bank are/is respectable and can be treated as good for any engagement upto a limit of ₹ (Rupees.....)

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature) For the Bank

NOTE

1. Bankers Certificates should be on letter head of the Bank, addressed to tendering authority.
2. In case of Partnership firm, certificate should include names of all partners as recorded with the Bank.

OR

FORM "B-1"
FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT

"It is to certify that as per the audited balance sheet and profit & loss account during the financial year....., the Net Worth of M/s (Name & Registered Address of Individual/firm/company), as on (the relevant date) is ₹ After considering all liabilities.

It is further certified that the net worth of the company has not eroded by more than 30% in the last three years ending on..... (the relevant date)."

Signature of Chartered Accountant

.....

Name of Chartered Accountant

.....

Membership No. of ICAI

UDIN No.

Date and Seal

FORM "C"

**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORKS COMPLETED DURING THE LAST SEVEN YEARS
ENDING PREVIOUS DAY OF LAST DAY OF SUBMISSION OF TENDERS**

Sr. No	Name of work/project and location	Owner or sponsoring organization	Cost of work in crores of rupees	Date of Commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation / arbitration cases pending/in progress with details*	Name and address/ telephone number of officer to whom reference may be made	Whether the work was done on back to back basis Yes/ No
a	b	c	d	e	f	g	h	i	j
1.									
2.									
3.									
4.									
5.									
6.									
7.									

*Please Enclosed separate sheet, if required

Signature of Bidder(s)

FORM "D"
STRUCTURE & ORGANISATION

- 1) Name & postal address of the bidder
- 2) Telephone no./Telex no./Fax no./Mobile No.
- 3) E-mail ID-
- 4) Legal status of the bidder (Scan & upload copies of original document defining the legal status)
 - (a) An Individual
 - (b) A proprietary firm
 - (c) A firm in partnership
 - (d) A limited Company or Corporation
- 5) Particulars of registration with various Government Bodies (Scan & upload attested photocopy)

Organisation/Place of registration**Registration No.**

- (i)
- (ii)
- (iii)
- 6) Names and titles of Directors & Officers with designation to be concerned with this work.
- 7) Designation of individuals authorized to act for the organization
- 8) Has the bidder, or any constituent partner in case of partnership firm, limited company / Joint Venture, ever been convicted by the court of Law? If so, give details
- 9) In which field of Civil Engineering construction the bidder has specialization and interest?
- 10) Any other information considered necessary but not included above.

Signature of Bidder(s)

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NAGPUR**Notice Inviting e-Tender**

1. The Superintending Engineer, Plot No-02, Sec-20, MIHAN, AIIMS, Nagpur (email : se@aaimsnagpur.edu.in) on behalf of Director, AIIMS, NAGPUR invites Item Rate Bids from Agency having experience in carrying out similar work who fulfill the Pre Qualification criteria in Two Bid System for the following work of **“Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60’x90’ with complete design at All India Institute of Medical Sciences, Nagpur.”**

1.1 The work is estimated to Cost of ₹ **56,36,104/- (including 18% GST)**. This estimate, however, is given merely as a rough guide.

1.2 Intending bidder is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works.

1.3 The bidder should have sufficient number of Technical and Administrative employees for the proper execution of the contract. The bidder shall have to submit a list of these employees stating clearly how these would be involved in this work within **15 days** of award of work.

2. Agreement shall be drawn with the successful bidders on prescribed **Annexure II**. Bidder shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
3. The time allowed for carrying out the work will be **60 days** from the date of start as defined in tender or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the bid documents.
4. The site for the work is available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from CPPP website <https://eprocure.gov.in/eprocure/app> . free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last date and time of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the quoted rates but before last date and time of submission of bid as notified.
8. Demand draft or Bank Guarantee against EMD drawn in favour of **The Director, AIIMS Nagpur** shall be scanned and uploaded to the e-Tendering website within the period of bid submission.
9. Copy of Registration of Firm and certificate of work experience and other documents as specified in the bid document shall be scanned and uploaded to the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in bid document shall have to be submitted by the lowest bidder only within a week physically in the office of Superintending Engineer, AIIMS, Nagpur.

The bid submitted shall be opened at 09:00 AM on 30/01/2023.

10. **The bid submitted shall become invalid if:**

- a) The bidder is found ineligible.
- b) The bidder does not upload original EMD along with the bid documents & submit Original EMD in hard copy before the bid submission end date.
- c) The bidder does not upload all the documents (including GST registration) as stipulated in the bid document including the copy of EMD.
- d) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid opening authority.

- e) If a tenderer quotes nil rates against each item in item rate tender or does not quote any rate for item of the tender or any section /sub head in item rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. The contractor whose bid is accepted will be required to furnish performance guarantee of **3% (Three Percent)** of the bid amount within the period specified in Annexure III. This guarantee shall be in the form of Deposit at Call Receipt of any Scheduled Bank/Banker's Cheque of any Scheduled Bank/Demand Draft of any Scheduled Bank/Pay Order of any Scheduled Bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Annexure III including the extended period if any, bidder shall be suspended for One Year and shall not be eligible to bid for AIIMS Nagpur Tender from date of issue of suspension order and the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.
12. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses / registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No, if applicable.
13. The description of the work is as follows:-
“Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60’x90’ with complete design at All India Institute of Medical Sciences, Nagpur.”
- Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and other factors having a bearing on the execution of the work.
14. The competent authority on behalf of the **Director, AIIMS Nagpur** does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
15. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
16. The competent authority on behalf of **Director, AIIMS Nagpur** reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
17. The contractor shall not be permitted to bid for works in the AIIMS Nagpur responsible for award and execution of contracts, in which his family is posted as Group A/ B officer or as an officer in any capacity between the grades of Director and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Group A/ B officer in the AIIMS Nagpur . Any breach of this condition by the contractor would render him liable to be removed from the current contract and future tenders/ bids of AIIMS Nagpur.
18. The bid for the works shall remain open for acceptance for a period of **Ninty Days (90) days** from the date of opening of Technical bid in case bids are invited on two envelop system (strike out as

the case may be). If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, then the AIIMS, Nagpur shall without prejudice to any other right or remedy to blacklist the contractor for **One year**. Further the bidder shall not be allowed to participate in the re-bidding process of the work.

19. Copy of work experience and other documents as specified in the bid document shall be scanned and uploaded to the e-Bidding website within the period of bid submission. However, certified copy of all scanned and uploaded documents as specified in bid document shall have to be submitted physically by the lowest bidder within 7 days after opening of Financial bid in the office of Superintending Engineer, AIIMS, Nagpur.
- 21 This Notice Inviting Bid shall form a part of the contract document. The successful bidder / contractor, on acceptance of his bid by the Accepting Authority shall within **07 days** from the stipulated date of start of the work, sign the contract consisting of :-
 - a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence & negotiation leading thereto.

Superintending Engineer,
AIIMS Nagpur

ANNEXURE – ‘A’

PROFORMA FOR DEPOSITION OF EARNEST MONEY DEPOSIT

Receipt of deposition of Original EMD

(Receipt No. / date)

1. Name of work: - Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60’x90’ with complete design at All India Institute of Medical Sciences, Nagpur.

2. NIT No.: 05/AIIMS/NAG/ENGG/SE/2022-23

3. Estimated Cost Rs.: 56,36,104/-

4. Amount of Earnest Money Deposit: Rs. 1,12,725/-

5. Last date of submission of bid: 28/01/2023

1. Name of contractor #

2. Form of EMD #

3. Amount of Earnest Money Deposit #

4. Date of submission of EMD #

Signature, Name and
Designation
Of EMD receiving
officer
Along with Office stamp

On non- Judicial stamp paper of minimum Rs. 100

ANNEXURE - 'B'

Form of Performance guarantee / Bank guarantee bond

In consideration of the Director, AIIMS Nagpur (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between and.....(Hereinafter called "the said Contractor(s)") for the work..... (Hereinafter called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs..... (Rupees..... only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We,(Herein after referred to as "the Bank")..... hereby undertake to pay to **The Director, AIIMS Nagpur** and amount not exceeding Rs..... (Rupees.....Only) on demand by the Government within 10 days of the demand.
2. We,(indicate the name of the Bank)..... do hereby undertake to pay the amounts due and payable under this guarantee without any demure, merely on a demand from The Director, AIIMS Nagpur stating that the amount claimed as required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the bank shall be conclusive as regards the amount due and payable by the bank under this Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs (Rupees..... only).
3. We,(the said bank)further undertakes to pay the Director, AIIMS Nagpur any money so demanded not withstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s) shall have no claim against us for making such payment.
4. We, (indicate the name of the Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Director, AIIMS Nagpur under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in- Charge on behalf of the Director, AIIMS Nagpur certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We, (indicate the name of the Bank) further agree with the Director, AIIMS, Nagpur that the Director, AIIMS Nagpur shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Director, AIIMS Nagpur against the said contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on the part of the Government or any indulgence by the Director, AIIMS Nagpur to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. We, (indicate the name of the Bank) further agree that the Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor at the

first instance without proceeding against the contractor and notwithstanding any security or other guarantee the Government may have in relation to the Contractor's liabilities.

- 7. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
- 8. We, (Indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Director, AIIMS Nagpur inwriting.
- 9. This guarantee shall be valid up tounless extended on demand by the Director, AIIMS Nagpur. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Date

Witnesses:

- 2. Signature
Name and address

- 3. Signature
Name and address

Authorized signatory
Name
Designation
Staff code no.
Bank seal

ANNEXURE 'C'

**Manufacturer's Authorization Form (MAF)
(To be submitted for Flag Mast & pole)**

No. _____ dated _____

To
(Tender Inviting Authority)

Dear Sir,

Tender Reference No. _____

We _____ who are established and reputable manufacturers of _____ having factories at _____ and _____ do hereby authorize M/s. _____ (Name and address of Agent / Dealer) to participate in the above _____ tender.

We hereby extend our technical assistance to the bidder during engineering and inspection of the product.

We have studied the requirements of the product and confirm that we will adhere to the specifications of the tender and quality plan and extend all support during the inspection and provide documentary evidence at the time of inspection for the verification by TPI /Client.

Yours faithfully
(Name)
for and on behalf of M/s. _____
(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a competent person of the manufacturer.

ANNEXURE 'D'

COMPLIANCE OF TECHNICAL DATA FOR 66 M (217 ft) HIGHMAST FLAG SYSTEM

Sr. No.	PARAMETER / DETAILS OF ITEM	REQUIREMENTS	VENDOR CONFIRMATION
1	FLAG MAST SYSTEM		
	Height of mast	66 Meter (217 ft.)	
	Make	Bajaj/Valmont/ Transrail/ Lysaught or equivalent per IS Standard	
	No. of Sections	7-9 sections (or as per OEM design for 66 metre height)	
	Material construction	Low Silicon ($\leq 0.06\%$) High Tensile Steel Sheet as per IS 2062 / BS EN 10025 Equivalent.	
	Grade of Steel	IS 2062 grade E350 / BS EN 10025 grade S355 or Equivalent	
	Thickness of section	Bottom 7-8mm Top 4-5mm (as per design) (remaining sections thickness 5 mm to 8 mm)	
	No. of circumferential welds/ section	Only between base plate and shaft	
	Cross section of Mast	Polygonal (20-sided polygon)	
	Base diameter and top diameter (A/F)	Top- 230-280mm, Bottom- 1250-1350mm (or as per design)	
	Metal protection treatment for Mast Section	Hot Dipped Galvanized As per BS EN ISO 1461	
	Size of opening door at base	1200x 250 mm	
	Diameter of base plate	1550-1700 mm	
	Thickness of base plate	50-70 mm	
	Grade of Steel for Base Plate	E250 Grade as per IS 2062 or Equivalent	
	Decorative finial / Finish	Glass Fiber Reinforced Finial (Dome)/ Aliphatic grade U.V Stabilized polyurethane paint	
Max. wind speed	As per IS 875 Part III		
2	FOUNDATION BOLTS		
	Number of foundation bolts	24 - 36 nos. (or as per design requirement)	
	PCD of foundation bolts	High Tensile Stud as per requirement of approved design. (1800mmx40mm)	
	Grade of Foundation Bolts		
Bolt diameter/Length			
3	CABLE		
	Type	Power Cable	
	Material	Copper conductor XLPE insulated PVC sheathed, Armoured	

	PARAMETER / DETAILS OF ITEM	REQUIREMENTS	VENDOR CONFIRMATION
	Conductor size	2.5sq. mm	
	No. of cores	3 Core	
	No. of circuits	Single	
4.	WINCH (Suitable for 8 mm wire rope)		
	Number of drums/winch	Double drum	
	Capacity	750 Kgs or more as per design requirement	
	Method of operation	Manual and Electrical	
5.	GALVANISED WIRE ROPE		
	Grade	Galvanized	
	Number of ropes	8 mm rope for flag hoisting & 3 No additional for standby and safety rope	
	Construction	7/19	
	Diameter (mm)	8mm	
	Breaking load capacity	Minimum 4000 kg or as per design requirement	
6.	POWER TOOL		
	Type	Integral motor and IE-2 BIS Certified	
	Input supply	3 Ph., 415V AC	
	HP/Number of Poles	HP required minimum for raising and lowering mechanism (or as per design)	
	Reversible/Non-reversible	Reversible	
7.	TORQUE LIMITER		
	Lifting capacity	As per design requirement	
	Adjustable/Non-adjustable	Adjustable	
	Tripping device	Mechanical	
8	AESTHETIC FINISH		
	Flag Mast Shaft	Polyurethane (PU) paint over the galvanized surface	
	Overall Coat thickness (Galvanization + PU Paint)	Minimum 180 Microns (to be checked on site, firm to submit test result for thickness)	
9	LED FOCUS LIGHT		
	No of lights	4 (1 on each pole)	
	Type of light/ Watt	LED focus light/ 1000 watt	
	Protection	IP65 and above	
	Make	Phillips/ Syska/ Havells/ Bajaj or equivalent as per IS standard	
10	INDIAN NATIONAL FLAG (TRI COLOUR)		
	Size	90 ft x 60 ft	
	Material	Polyester fabric with reinforced super strong nylon webbing	

List of Approved Materials

- High Mast and lighting Pole : Bajaj/Valmont/ Transrail/ Lysaught or equivalent per IS Standard
- Motor. : Crompton/Kirloskar/Bajaj/HEM (Hindustan Electric Motors)/Havells.
- LED fittings : Phillips/ Bajaj/ Havells
- Aviation light. : Bajaj/Philips or equivalent
- PU Paint : Surya/MRF or equivalent
- Polyester resin for Dome : Orsons or equivalent as per standard
- Matt Glass for Dome: Owens Corning or equivalent
- Inverter :- Microtek/ V-Guard/Luminous or equivalent
- Battery: - Exide/Amara Raja/or Equivalent or equivalent

Note :-

1. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature or in the particular specifications or in the list of approved materials attached in the tender, shall be used in the work.
2. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material/ Brand/ Make.
3. Whenever the specified brand of material is not available than, the Engineer-in-charge may approve any material equivalent to that specified subject to proof being offered by the Contractor for its equivalence and its non-availability to his satisfaction

ANNEXURE 'E'

TECHNICAL DATA SHEET FOR 66 m (217 ft.) HIGH/FLAG MAST & COMPONENTS
(TO BE FILLED BY THE VENDORS)

4. HIGHMAST STRUCTURE		:	VENDOR'S
Permissible Projected area		:	
Make			
Material construction			BS-EN 10025 (old BS 4360)
Thickness (in mm)			Top -
			Bottom -
			Middle -
Cross section of Mast in Polygon			(number of sides) -
Length of individual sections (in m)			Top -
			Middle -
			Bottom -
Base dia and top diameter			Base diameter (in mm) -
			Top diameter (in mm)
Type of Joint			Stress fit side joint -
Length of overlap (Mtr)			
Metal protection treatment for Mast section			Hot Dipped Galvanized
Type of locking arrangement and door panel			
Size material & thickness of :	Amps TPN MCB + ELCB cable termination box		
Size of base plate (mm)",		Dia -----	mm
Diameter and thickness		Thick -----	mm
Size of anchor plate & thickness		-----	mm
Details of Template			
Weight in Kgs. Mast Including base plate door, head frame			
Lighting protection			

2. DYNAMIC LOADING AS PER PREVAILING AT SITE

Max. Wind speed : As per IS 875-III
 Height of above ground level these two factor are measured
 Factor of safety for wind load :
 Factor of safety for other load :
 Factor of safety for tower :

3. FOUNDATION DETAILS

Type of Foundation : The bidder will get the bearing capacity tested, before designing the foundation. The design calculation shall also be supplied by the bidder. The design can be got rechecked by the university & if there is any expenditure on this account the same shall be borne by the bidder.

- Design load bearing capacity :
- Design safety factor :
- Considered wind pressure :
- Considered wind speed (km/hour) :
- Depth of foundation :
- Average soil bearing capacity :
- Numbers of foundation bolts :
- DPC of foundation bolts :
- Type of foundation bolts :
- Bolt diameter :
- 4. WINCH**
- Make of winch :
- Number of drums/winch :
- Gear Ratio :
- Capacity :
- Operating speed :
- Individual drum rotation :
- Method of operation :
- Lubrication arrangement :
- Type of Lubricant :
- Gear Material :
- Tested Load per drum (Kg) :
- Factor of safety :
- 5. STAINLESS STEEL WIRE ROPE**
- Make :
- Grade :
- Number of ropes :
- Construction :
- Centre core material :
- Diameter (mm) :
- Thimbles & Terminals :
- Braking load capacity :
- Factor safety :
- 6. POWER TOOL**
- Model (portable external/integral type) :
- Input supply :
- Wattage/HP :
- Number of speeds :
- Reversible/ non reversible :
- Operating speed :
- Remote control switch
- (i) Type :
- (ii) Length of control cable :
- Max. Time taken for (i) Raising : _ _ _ _ _ (ii) Lowering : _ _ _ _ _
- 7. TORQUE LIMITER**
- (a) Lifting capacity :
- (b) Adjustable/non-adjustable :

CHECKLIST FOR TECHNICAL BID

Sr. No.	Details of Mandatory Documents to be uploaded	Checked / Attached (Yes/No)
1.	Copy of Factory registration Certificate	
2.	Copy of Valid ISO 9001, ISO 14001 and ISO 45001 Certificates	
3.	Thiry Party Test Certificates for winch and galvanized ropes	
4.	Wind Tunnel Test Certificate	
5.	Manufacturer's Authorization Form as per Annexure C	
6.	Duly Filled and Signed Annexure D complying make and specifications	
7.	Duly filled and signed Technical Data Sheet in Annexure E	
8.	Copy of EMD either in the form of Demand Draft or Bank Guarantee or Exemption certificate in case of MSME.	
9.	Last 3 years Financial Turnover certified by CA. Details to be filled in Form "A" as per turnover certificate	
10.	Solvency Certificate in Form B or Net Worth Certificate in Form B-1	
11.	Details of eligible similar nature of works completed during the last 7 years (in Form C)	
12.	Performance report / Certificates of work experience, to be issued by Competent Authority to issue experience certificate.	
13.	Structure and Organization in (Form D)	
14.	Certificate of registration for GST .	
15.	Copy of PAN Card issued by Income Tax Department.	
16.	Certificate by MSME / Udyam Aadhar Memorandum / Any other body specified by Ministry of MSME (Ministry of Micro, Small & Medium Enterprises) if any.	

Date:-

Name:-

Place:-

Address:-

Signature of Bidder:

Seal of the Bidder:

(Scanned copy to be uploaded at the time of submission of bid along with the technical bid)

ALL INDIA INSTITUTE OF MEDICAL SCIENCES, NAGPUR
Item Rate Tender & Contract for Works

- (A) Tender/bid for the work of: - **“Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60’x90’ with complete design at All India Institute of Medical Sciences, Nagpur.”**
- (i) To be submitted/uploaded online by **13:00 Hours on 28/01/2023** to **Superintending Engineer, AIIMS, Nagpur.**
- (ii) To be opened in presence of tenderers/bidders who may be present at **09:00 Hours on 30/01/2023** in the office of **Superintending Engineer, AIIMS, Nagpur.**

TENDER

I/We have read and examined the notice inviting tender, schedules, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the **Director, AIIMS Nagpur** within the time specified tender / schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions.

I/We agree to keep the tender open for **Seventy Five (75) days** from the due date of opening of technical bid and not to make any modification in its terms and conditions.

A copy of earnest money in receipt treasury challan/deposit at call receipt of a scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by a scheduled bank is scanned and uploaded (strike out as the case may be). If I/We, Fail to furnish the prescribed performance guarantee within prescribed period. I/We agree that the said Director, AIIMS Nagpur or his successors, in office shall without prejudice to any other right or remedy, be at liberty to **take action to debar me/us**. Further, if I/WE fail to commence work as specified, I/We agree that Director, AIIMS, Nagpur or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in clause of the tender form. **Further, I/we agree that in case of forfeiture of performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.**

I/We hereby declare that I/we shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information/derived therefrom to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated.....

Signature of Contractor

Postal Address

Witness:

Address:

Occupation:

(To be filled in by the contractor/Witness as applicable)

ACCEPTANCE

The above tender (as modified vide letters mentioned hereunder) is accepted by me for and on behalf of the **Director, AIIMS Nagpur** for a sum of (Rupees_____)

The letters referred to below shall form part of this contract agreement:-

- a)
- b)
- c)

For & on behalf of the Director, AIIMS Nagpur

Signature

Dated.....

Designation.....

CLAUSES OF CONTRACT

Clause 1 - The contractor whose bid is accepted will be required to furnish performance guarantee of **3% (Three Percent)** of the bid amount within the period specified in Annexure III. This guarantee shall be in the form of Deposit at Call Receipt of any Scheduled Bank/Banker's Cheque of any Scheduled Bank/Demand Draft of any Scheduled Bank/Pay Order of any Scheduled Bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Annexure III including the extended period if any, bidder shall be suspended for One Year and shall not be eligible to bid for AIIMS Nagpur Tender from date of issue of suspension order and the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

The Performance Guarantee shall be initially valid up to the stipulated date of completion plus minimum 60 days beyond that. In case the time for completion of work gets enlarged, the contractor shall get the validity of Performance Guarantee extended to cover such enlarged time for completion of work. After recording of the completion certificate for the work, the performance guarantee shall be returned to the contractor, without any interest.

Clause 2 - The time allowed for execution of the Works as specified in the Annexure III or the extended time in accordance with these conditions shall be the essence of the Contract. The execution of the work shall commence from such time period as mentioned in Annexure III or from the date of handing over of the site, notified by the Engineer-in-Charge, whichever is later. If the Contractor commits default in commencing the execution of the work as aforesaid, the performance guarantee shall be forfeited by the Engineer in Charge and shall be absolutely at the disposal of the Government without prejudice to any other right or remedy available in law.

If the work(s) be delayed by:-

- (i) force majeure, or
- (ii) abnormally bad weather, or
- (iii) serious loss or damage by fire, or
- (iv) civil commotion, local commotion of workmen, strike or lockout, affecting any of the trades employed on the work, or
- (v) delay on the part of other contractors or tradesmen engaged by Engineer-in-Charge in executing work not forming part of the Contract, or
- (vi) any other cause like above which, in the reasoned opinion of the Engineer-in-Charge is beyond the Contractor's control.

then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavours to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the works. The contractor shall have no claim of damages for extension of time granted

Clause 3 - Engineer-in-Charge shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.

All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works performed under the contract. All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his authorized representative. After the necessary corrections made by the Engineer-in-Charge, the measurement sheets shall be returned to the contractor for incorporating the corrections and for resubmission to the Engineer-in-Charge for the dated signatures by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance.

Clause 4 - The contractor shall execute the whole and every part of the work in the most substantial and workmanlike manner both as regards materials and otherwise in every respect in strict accordance with the specifications. The contractor shall comply with the provisions of the contract and with the care and diligence execute and maintain the works and provide all labour and materials, tools and plants including for measurements and supervision of all works, structural plans and other things of temporary or permanent nature required for such execution and maintenance in so far as the necessity for providing these, is specified or is reasonably inferred from the contract. The Contractor shall take full responsibility for adequacy, suitability and safety of all the works and methods of construction.

Clause 5 - The Engineer-in-Charge shall have power (i) to make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the contract as if originally provided therein and any altered, additional or substituted work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.

Clause 6 - No payment shall be made for work, estimated to cost Rs. Twenty lac or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs, Twenty lac the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. The bill payment shall be made within 45 days after submission of bill.

All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract.

ANNEXURE III**SCHEDULE 'A'**

Schedule of quantities

Enclosed**SCHEDULE 'D'**

Extra schedule for specific requirements/

Documents for the work, if any.

Specifications & Special Conditions

SCHEDULE 'E'

Name of work:

Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60'x90' with complete design at All India Institute of Medical Sciences, Nagpur.

Estimated cost of work:

Rs. 56,36,104/- (including 18% GST)

(i) Earnest money:

Rs. 1,12,725/-

(ii) Performance guarantee:

3% of tendered value

(iii) Security Deposit:

5% of tendered value

SCHEDULE 'F'**General Rules & Directions:**

Officer inviting tender-

**Superintending Engineer, AIIMS,
Nagpur**

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with market rates

25%**Definitions:**

2(v) Engineer-in-Charge

Executive Engineer, AIIMS, Nagpur

2(viii) Accepting Authority

DIRECTOR, AIIMS Nagpur

2 (x) Standard schedule of Rates

Market rates

2 (xi) Department

AIIMS NAGPUR**Clause 1**

- (ii) Time allowed for submission of performance guarantee, program chart (Time & Progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW welfare board or

proof of applying thereof : from the date of issue of letter of acceptance.

: 07 days.

- (iii) Maximum allowable Extension with late fee @ 0.10% per day of performance guarantee Amount beyond the period as provided in (i) above

: 07 days.

Clause 2

No. of days from the date of issue of letter of acceptance for reckoning date of start

: 07 days.

Time allowed for execution of work:

: 60 days

Authority to decide

- (i) Extension of Time Superintending Engineer, AIIMS, Nagpur
(ii) Shifting of date of start in case of delay in handing over of site Superintending Engineer, AIIMS Nagpur

Clause 3

Clause applicable

Computerized MB

Clause 4

Specifications to be followed for execution of work:

CPWD General Specifications for Civil Works Part I & II 2019, Electrical Works Part I Internal-2013, amended up to the date of bid submission.

Clause 5

Authority to decide deviation

Director,
AIIMS, Nagpur

Clause 6

Gross work to be done together with net Payment/adjustment of advances for Material collected, if any since the last Such payment for being eligible to interim Payment (Running Account Receipt Payment)

₹ 20 Lakhs

Superintending Engineer,
AIIMS, Nagpur

**DETAILED TECHNICAL SPECIFICATION AND SCOPE OF WORK FOR 217 FEET HIGH
MAST NATIONAL FLAG**

1.0 SCOPE

The scope of this specification covers the manufacture, transport, installation, testing and commissioning of the complete flag system, using raising and lowering type of Flag mast towers, including the civil foundation works.

2.0 APPLICABLE STANDARDS

IS Code	Item Detail
1. TR No -07	High Masts for Lighting and CCTV
2. SANS 10225:2012	High Mast natural frequency calculation
3. IS 875 Part – 3-2015	Wind Loading
4. IS 2062/ BS EN 10025	High Tensile Steel Sheets
5. IS 2062	Mild Steel Plates
6. IS 209	Zinc Ingot
7. BS EN ISO 1461	Galvanization
8. IS 3459 / 2266	Stainless steel Wire rope
9. IS 7098	XLPE Insulated PVC sheathed Cable
10. IS 12615	Motor

*** All Material third party test certificate shall be submitted by successful bidder after award of contract and before commencement of work.**

3.0 FLAG HIGH MAST DESIGN & CONSTRUCTION

* The Flag mast shall be of continuously tapered, polygonal cross section, 20 sided, presenting a good and pleasing appearance and shall be based on proven In-Tension design conforming to the standards referred to above to give an assured performance and reliable service. The mast shaft shall be manufactured from high tensile steel plates confirming to IS 2062/ BS EN 10025 having minimum yield strength of 350N/Sq.mm and silicon content less than 0.06%.

* Each mast shaft section shall be without any circumferential weld joint except base flange. The mast base flange shall be free from any lamination or incursion and provided with supplementary gussets between the bolt holes to ensure elimination of helical stress concentration.

* For the environmental protection of the mast, the entire fabricated mast shall be hot dip galvanized internally and externally in single dip having a uniform average coating of 85 microns for plates more than 6 mm and 70 microns for plates 6 mm and less thickness. The Zinc shall have minimum 99.95% purity confirming to IS 209. Manufacturer of Flag High Mast, octagonal poles should preferably be same for easy maintenance.

* Dynamic Loading for the mast: The mast structure shall be suitable to sustain an assumed maximum reaction arising from a wind speed as per IS 875 (three second gust) measured at a height of 10 meters above ground level or as per IS standard and design data of high mast. The design life of the mast shall be 25 years. The force co-efficient taken for design of the twenty-sided polygonal structure is to be established from the wind tunnel test data.

* The minimum A/F dimension of top and bottom shall be as per design and safe structure calculation. The minimum section length throughout the height of mast shall be as per design. The masts sections shall be jointed at site by slip-stress-fit method and care to be taken for minimum overlap distance as per design

4.0 RAISING AND LOWERING MECHANISM

4.01 WINCH

* The double drum winch shall be completely self-sustaining without the need for brake shoe, springs or clutches and self-lubricating type by means of an oil bath. The worm gear ratio shall not be less than 53:1 and safe working load shall be as per requirement. The drums are to be grooved to provide perfect seat for stable and tidy rope lay and arrangement for distortion free rope end termination.

* The winch shall have provision to operate manually by a handle or electrically through power tool. The capacity, operating speed, safe working load, recommended lubrication and serial number of the winch shall be marked on each winch.

4.02 HEAD FRAME & WIRE ROPES

* The hot dip galvanized head arrangement is to be designed to pass the flag wire rope & additional stand by rope for flag & additional safety rope for man rider. The LM6 Aluminum pulleys with Gun Metal bush bearing suitable to accommodate wire ropes to be provided with stainless steel shaft.

* The galvanized wire ropes shall be in 7/19 construction with central core in the same material of grade, diameter and breaking load as given in data sheet. The end construction of rope for the winch drum shall be fitted with copper talurit and for two continuous ropes the end termination in luminary's carriage shall be with stainless steel thimble and copper splicing and for other end with stainless steel thimble and stainless-steel bulldog grips.

4.03 ELECTRICAL CABLE SYSTEM & POWER TOOL FOR WINCH

* The power cable from base compartment to junction box at the top shall be 1.1 KV grade XLPE insulated, PVC sheathed copper conductor of size minimum 3 core x 2.5 sq. mm. Wiring from junction box to Aviation Light is to be done using 3 core 1.5 sq. mm PVC/ XLPE insulated, PVC sheathed, copper conductor flexible cable. Suitable arrangement is to be provided in the base compartment to receive and terminate incoming power cable and MCB in a box with timer and contactor for isolation of incoming power supply.

* Three phase, single speed, 4 pole high-powered IE-2 Rated BIS Certified motor of rating suitable to lift the load is to be mounted in the base compartment. The motor is to be mounted on adjustable plate to adjust the length of winch motor coupling chain. Mechanical torque limiter is to be mounted on motor shaft to stop transmission of motion from motor to winch in case of excess load and thus prevent the damage to winch and breakage of rope.

5.0 MISCELLANEOUS

* Low intensity LED Aviation Obstruction Lights shall be provided, Make shall be as per IS standard. Warranty shall be of 5 years.

* One number of GRP ornamental finial (Dome) shall be manufactured from unsaturated polyester resin and chop stand matt glass fibre of suitable GSM to have an overall required minimum thickness for GRP finial. The test certificate for the resin & glass fibre used to be supplied along with supplies. The finial is to be finished with aliphatic grade U.V Stabilized polyurethane paint coat.

* Earth terminal using 12 mm diameter hot dip galvanized bolts shall be provided on the door stiffener of the mast for lightning and electrical earthing of the mast.

* Each mast shall be provided with outdoor stand mounted feeder pillar fabricated out 14SWG CRCA sheet with 32A TPN MCB incomer, single dial time switch, 22A TP contactor for the automatic switching of luminaries, power tool control with suitable contactors and raise lower push button, The Panel shall have 2KVA inverters suitable to work on 200v- 230v,50Hz input and 230v,50Hz output along with SMF VRLA batteries to provide 30 minutes back up time and as per technical specification, approved list of make etc. as required. Inverter and battery shall be accommodated in the control panel with proper air ventilation.

(Agency shall finalise the make and dimensions of Inverter and battery bank before approving the general arrangement drawing of control panel)

* LED flood light luminaries of 1000W rating shall be powder coated die cast aluminum housing with suitable mounting bracket, driver, SPD and shall be installed on 6m hot dip galvanized octagonal pole with supply & laying of 3CX2.5 sq. mm Cu flexible cable or the individual wiring of the luminaire from the base compartment of the pole.

* Flag mast shall be finished with Polyurethane (PU) paint over the galvanized surface. The following process to be followed-

- Prior to the beginning of the painting process, the galvanization of avg. DFT 8-10 microns has to be removed from the shaft with Emery paper.
- Shaft Cleaning is to be done with Solvent and dry cloth.
- Application of Coat Etch Primer to the shaft.
- Air dry for 1-2 Hours at Room Temperature.
- One Coat of Epoxy Zinc Phosphate Primer Grey is to be applied.
- Air Dry for 16 Hours.
- Application of Coat (Topcoat) to the mast.
- Air Dry for 72 Hours.
- The overall coat thickness of galvanizing & PU paint shall not be less than 180 Microns.

* Supply of national flag of size 60 ft. X 90 ft. in 100% Knitted Polyester or other appropriate fabric of required GSM with reinforced super-strong nylon webbing on all 3 sides & rope/toggle sleeve. The type of flag offered is to be specified in price offer.

* The bidder will arrange to design the foundation and submit the calculations along with the drawings. The grade of the concrete to be used is M 25 or above or as per design.

*Third Party certificate is required on successful completion of the work for all mechanical and electrical system installation.

* It may be noted that specifications and estimates are for the reference purpose, if any upgradation in specification or amendment is required in quantity, it shall be done while execution of work. Objective of SITC of high mast flag shall be completed in execution of this contract.

*complete work shall be under 5 years warranty or under defect liability of 5 years, security deposit shall be kept on hold up to completion of the same period.

SPECIAL CONDITIONS OF CONTRACT

Name of work: "Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60'x90' with complete design at All India Institute of Medical Sciences, Nagpur."

1. The contractor shall take necessary instructions from the Engineer-in-charge before starting the work at site.
2. The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.
3. Any work carried out without the approval of the officer-in-charge at site of work shall not be accounted and will not be paid. The work shall be carried out during the office hours only. If the firm needs to carry out work on holidays prior permission shall be taken from the Engineer-in-Charge.
4. Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account.
5. Bidder to ensure that while execution and finalizing the work Flag Code of India is being followed at any time of work execution
6. Bidder shall submit operation and maintenance manual and SOP after completion of work
7. In event of any accident during the course of work which may result in any injury to workman; responsibility of any treatment / compensation shall be borne by Firm. AIIMS Nagpur will not be having any role in it.
8. Firm is advised to visit the site before quoting for the bid; site will be handed over as is where is basis. The Firm shall be responsible for any damage caused to existing infrastructure/ system, it shall be repaired/ replaced or divert, if any without any extra payment.
9. The work includes the design of foundation of the High mast. The bidder/ firm will get bearing capacity tested, before designing the foundation. The design calculation & structural drawings shall also be supplied by the bidder before commencement of work. The design shall be carried out by reputed govt engineering institutions like IITs, NITs only. The design can be got rechecked by the Institute & if there is any expenditure on this account the same shall be borne by the bidder
10. The OEM has to conduct wind tunnel test on a specimen to establish the force coefficients of the 20-sided polygon and the value received from the wind tunnel test is to be taken in design. The winches are to be type tested through reputed institutions like IITs, NITs as consultants. Third party Test report should be submitted along with the bid.
11. The Flag mast manufacturer should have CNC controlled profile cutting, CNC Controlled bending to have uniform bending, CNC controlled welding for the uniform welding and CNC controlled Galvanizing to control the bath temperature.
12. The Flag mast manufacturer should have in-house facility to do the mechanical and chemical testing of the steel and the zinc received at the factory. The manufactures shall have spectrometer for chemical testing & universal testing machine for mechanical testing.
13. The Flag mast is to be manufactured from ISO 9001, ISO 14001 and ISO 45001 certified factory taking care of all aspects of design, quality, environment and safety. The valid ISO certificates shall be submitted along with bid.
14. The OEM of Flag Mast should have in-house civil, structural, Lighting and product design facilities.
15. Bidder shall be OEM of flag mast or a resourceful contractor having Authorization from OEM of flag mast. A bidder shall get authorization from only one OEM.

16. COMPLETION PERIOD: 60 days from the date of issue of approval of drawing.

17. DEFECTS LIABILITY PERIOD:

i) Flag Pole: - 60 months warranty on Flag Mast Shaft & accessories from the date of commissioning.

ii) LED lights & Aviation light it will be comprehensive for 5 years.

iii) Successful bidder will also supply design certificate for 217 feet (66 mtr) Flag mast Pole for minimum 25 years.

18. The contractor shall, at his own expense, provide all materials, required for the works other than those which are stipulated to be supplied by the Government. Sample of any material to be used shall get approved by the officer-in-charge before using at sit

19. For all computation purposes, the theoretical cement consumption shall be considered as per CPWD standards.

20. Labour camp will not be permitted inside the plant premises. The contractor to make necessary arrangements elsewhere for the same

21. All statutory registrations / licenses to be submitted to the Engineer in charge prior to commence the works.

22. TENDER QUANTITIES: Tender quantities appearing in the schedule of rates are only indicative quantities, exact quantities of each item shall be ascertained by the Contractor, and only such ascertained quantities shall be procured.

23. Institute shall provide electrical supply point near to Flag Mast foundation (approx. 15 metres from High mast foundation)

24. Complete Work and part including electrical, mechanical part of this contract shall be under defect liability period for 5 years (except for National Flag warranty shall be of one year from date of installation)

25. Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction / instructions including issue of identity cards to all persons authorized by him to do work / visit the work site and nothing shall be payable on this account.

26. Water and electricity will not be supplied by institute / organization. However if requested by the contractor in writing and available with the organization, it may provide with necessary charges after provision of sub meter.

27. The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge. The contractor shall be responsible for any damage due to hindrance caused by him.

28. Stacking of materials including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required at any stage shall have to be done by the contractor at his own cost.

29. No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.

30. Only Star headed Stainless Steel screws shall be used unless otherwise specified.

31. Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.

32. Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.
33. The contractor shall prepare all the needed shop drawings well in advance and get them approved before placing the order and execution of the item.
34. The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the contractor shall ensure that all the trucks or vehicles of any kind which are used for construction Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer - in -Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications.
35. The contractor shall not store /dump construction material or debris on metalled road.
36. The RMC works for road shall be carried out as per the CPWD specifications.
37. The contractor shall get prior approval from Engineer-in-charge for the area where the construction material or debris can be stored beyond the metalled road. This area shall not cause any obstruction to the free flow of traffic / inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
38. The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes / or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precautions that the vehicles are properly cleaned and dust free to ensure that en route their destination, the dust, sand or any other particles are not released in air / contaminate air.
39. The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
40. The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carry of construction material and debris relating to dust emission.
41. The contractor shall compulsory use of wet jet in grinding and stone cutting.
42. The contractor shall ensure that the construction material is covered by tarpaulin. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.
43. In the case of discrepancy between the schedule of Quantities, the specifications and/or the works, the following order of precedence shall be observed.
 - (i) Description of item in the Schedule of Quantities.
 - (ii) Particular Specifications and special conditions, if any
 - (iii) Specifications of B.I.S
44. The measurements for the work executed will be done as per the actual work done on site with respect to each item as specified in schedule of quantities. The work executed shall be maintained in a diary and to be put up to Engineer-in-charge whenever demanded. (Format shall be provided by the department)
45. In case if due to any alteration, additional or substituted work which the contractor may be directed to do in the manner specified as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work where deviation limit for individual contract items shall be 25% of the contract quantity. Total deviation shall not be more than 10 % of contract value.

46. The department shall be at liberty to discontinue / cancel agreement by serving one week notice without any reason thereof.
47. The works shall be carried out complying in all respects with the requirements of relevant bye-laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid on this account.
48. No labour below the age of eighteen years shall be employed on the work. The contractor shall pay to labour employed by him either directly or through subcontractors, wages not less than fair wages as per the provisions of the Contract Labour (Regulation and Abolition) Act, 1970 and the contract Labour (Regulation and Abolition) Central Rules, 1971, wherever applicable.
49. It is not binding on the competent authority to accept the lowest or any other tender and any or all the tenders received can be rejected without assigning any reason.
50. In case of delay on the part of the agency, penalty @ ½% per week of the total order value will be deducted from the contractor's bill subject to maximum of 10 % without prejudice to other terms & conditions of the order.
51. Any error in description, quantity or rate in schedule of Quantities or any omission there from shall not vitiate the contract or release the contractor from the execution of the whole or any part of the works comprised therein according to the specifications or from any of his obligations under the contract. All such variations, errors additions, substitutions etc shall be decided as per the terms of the contract
52. Deviation in schedule of quantities and extra items. The Engineer-in-Charge shall have power.
 - i) To make alteration in, omissions from, additions to, or substitutions for the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work
 - ii) To omit a part of the works in case of non-availability of a portion of the site or for any other reasons and the contractor shall be bound to carry out the works in accordance with any instructions given to him in writing signed by the Engineer-in-Charge and such alterations, omissions, additions shall form part of the contract as if originally provided therein and any altered, additional work which the contractor may be directed to do in the manner specified above as part of the works, shall be carried out by the contractor on the same conditions in all respects including price on which he agreed to do the main work except as hereafter provided.
 - iii) The time for completion of the works shall, in the event of any deviations resulting in additional cost over the tendered value sum being ordered, be extended, if requested by the contractor, as follows:
 - a. In the proportion which the additional cost of the altered, additional, bears to the original tendered value plus.
 - b. 25% of the time calculated in (a) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.
 - iv) In the case of extra item(s) items that are completely new, and are in addition to the items contained in the contract), the contractor may submit market rate claim rates, supported by proper analysis which shall include invoices, vouchers etc. and Manufacturer's specification for the work failing which the rate approved later by the Engineer- in charge shall be binding and the Engineer-in-Charge after receipt of the claims supported by analysis and giving consideration to the analysis of the rates submitted by the contractor, determine the rates on the basis of the market rates and the contractor shall be paid in accordance with the rates so determined, failing which it will be deemed to have been approved.
53. **Defect Liability Period:** If the contractor or his working people or servants shall break, deface, injure or destroy any part of building in which they may be working, or any building, road, road kerb, fence, enclosure, water pipe, cables, drains, electric or telephone post or wires, trees, grass or grassland, or

cultivated ground contiguous to the premises on which the work or any part is being executed, or if any damage shall happen to the work while in progress, from any cause whatever or if any defect, shrinkage or other faults appear in the work within twelve months after handing over or otherwise of its completion shall have been given by the Engineer-in-Charge as aforesaid arising out of defect or improper materials or workmanship the contractor shall upon receipt of a notice in writing on that behalf make the same good at his own expense or in default the Engineer-in-Charge cause the same to be made good by other workmen and deduct the expense from any sums that may be due or at any time thereafter may become due to the contractor, or from his security deposit or the proceeds of sale thereof or of a sufficient portion thereof. The security deposit of the contractor shall not be refunded before the expiry of twelve months after the issue of the certificate final or otherwise, of completion of work, or till the final bill has been prepared and passed whichever is later.

54. The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers as per drawing supplied by Engineer in charge, working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.
55. The bidder shall quote their rates considering all prevalent taxes/ cess like GST, Workers Cess or any other tax on material /work as applicable and nothing extra shall be paid to the contractor on this account. The department shall deduct Workers Cess or any other tax as applicable, from the R/A bills & final bill. However, the contractor shall pay GST to the concerned authorities directly. TDS as applicable shall be deducted from all bills of contractor.
56. Contractor has to be submit the GST compliant Bill showing work done and GST component separately.
57. No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
58. All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement & other storage, fabrication yard, site laboratory, water tank etc.
59. For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the laborers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.

60. All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.
61. Any damage to the existing installation/ equipment/ work shall be the responsibility of the contractor and should be repaired immediately on his own cost for which nothing extra shall be paid by the department.
62. As the work to be carried out as in occupied hospital building, proper care to be taken by the agency by issuing ID cards etc. to the workers for identification.

63. CLEANLINESS OF SITE

The Contractor shall not stack building material / malba / muck/ rubbish on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Engineer-in-Charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the Contractor. Nothing extra shall be payable on this account. In case, the Contractor is found stacking the building material / malba as stated above, the Contractor shall be liable to pay the stacking charges / penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority. The Engineer –in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the Contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.

64. INSPECTION OF WORK

In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by the senior officers of AIIMS, Nagpur in addition of the Engineer-in-Charge and his authorized representative. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-Charge or other officers as stated above to visit the works shall have been given to the Contractor, either himself be present to receive the orders and instructions or have a responsible Site Engineer duly accredited in writing, to be present for that purpose Senior Officers of AIIMS, Nagpur Authorities shall be inspecting the on-going work at site at any time with or without prior intimation.

65. SAFETY MEASURES AT CONSTRUCTION SITE

In order to ensure safe construction, following shall be adhered for strict compliance at the site:-

- I. The work site shall be properly barricaded.
- II. Adequate signages indicating 'Work in Progress – Inconvenience caused is regretted' or Diversion Signs shall be put on the sites conspicuously visible to the public even during night hours. These are extremely essential where works are carried out at public places in use by the public.
- III. The construction malba at site shall be regularly removed on daily basis.
- IV. All field officials and the workers must be provided with safety helmets, safety shoes and safety belts.
- V. Proper MS pipe scaffoldings with work – platforms and easy-access ladders shall be provided at site to avoid accidents. Necessary First-Aid kit shall be available at the site. The above provisions shall be followed in addition to the provisions of General Condition of Contract.

SCHEDULE OF QUANTITIES

Name of Work :- "Supply, Installation, Testing and commissioning of 217 feet High Mast Tri Colour National Flag of size 60'x90' with complete design at All India Institute of Medical Sciences, Nagpur."

Sr. No.	Description of Item	Quantity	Unit	Rate	Amount (₹)
1	Supply, Installation, Testing and commissioning of 66 m (217 ft) high outdoor hot dip galvanized polygon (20sides), monumental Flagmast in multiple sections with head frame having pulleys arrangement as per technical data sheet complete as per design requirement (This also includes Structural design part of High Flag Mast, erection using hydraulic crane including stress fit assembly with tools required, instllation of wire ropes, winch, motor with accessories, aviation lights, lightng finial, fibre dome complete as per design requirement).	1	Set		
2	Supply of Motorised (Mechanical / electrical system for raising and lowering mechanism of flag remote control, snap hooks, U-clamp, spring system with following inclusion i) Double drum winch suitable for 8 mm diameter wire rope for flag hoisting and integral motor with torque limiter, chain, sprocket complete as per design requirement for making this mechanism operational ii) 8 mm Galvanized wire rope for flag hoisting iii) 3 Numbers additional 6mm dia safety wire rope iv) Decorative Lighting Finial v) Aviation lights 2set	1	Set		
3	Supply of Foundation Bolts manufactured from special steel as per datasheet along with nuts, washers, anchor plate and template (24-36 Nos), size 1800*40 mm or as per design requirement	1	Set		
4	Supply and Fixing of Constant glowing LED aviation obstruction light of appropriate size (3C x 2.5 sqmm), trailing copper armoured PVC cable complete as per design requirement	2	Set		
5	Supply & installation of Specially designed 1000 Watt LED outdoor focus lights complete for façade lighting of National Flag with 3 years warranty as per standard and technical data sheet (including wiring & cabling work)	4	Nos		
6	Supply and Installation Light Fitting Pole of same make that of High Mast including erection and foundation of these poles of length 6m total in length above ground level (this mast shall be suitable for mounting of two LED fittings) (including wiring / cabling required to erect LED	4	Nos		

Sr. No.	Description of Item	Quantity	Unit	Rate	Amount (₹)
7	Supply & Installation of Indian National Flag of size 90 ft x 60 ft, made out of polyester fabric with reinforced super-strong nylon webbing on all 3 sides & eyelets complete as required (including flag mounting accessories like snap clamp, dog clamp, turn buckles, bobbins complete as required)	1	No		
8	Supply & Installation of Ornamental crown fibre dome with embedded MS Plate to be mounted on the flag mast. (GRP ornamental finial (Dome) shall be manufactured from unsaturated polyester resin and chop stand matt glass fibre of suitable GSM to have an overall required minimum thickness for GRP finial. The test certificate for the resin & glass fibre used to be supplied along with supplies. The finial is to be finished with aliphatic grade U.V Stabilized polyurethane paint coat)	1	No		
9	Supply & Installation of Electrical 1.1KV XLPE grade cable system (including control panel to be installed inside flag mast including reversing switch, contactor, timer, MCB etc. complete) as per detailed technical specification and data sheet	1	Set		
10	Earthing for flag mast with 2.5 m long, 40 mm diameter GI Pipe including connection to flag mast with 25*3mm GI strip complete as per design requirement	1	Set		
11	Material and Labour for PU paint on High mast including light poles by application of suitable primer for hot dip galvanized surface complete with colour shade choice	1	Set		
12	Civil Foundation Work as per design approved by reputed govt Engineering colleges like IITs, NITs. Detailed design considering all factors including Soil bearing capacity, all live load, dead load, wind load, earthquake loads. Details of detailed drawing, foundation drawing, Reinforcement detailment, load calculation shall be shared with AIIMS Nagpur after approval	1	Set		

Note :- Price shall be quoted in separate BOQ excel file.

**Superintending Engineer,
AIIMS, Nagpur**