

CENTRAL UNIVERSITY OF KARNATAKA

(Established by an Act of the Parliament in 2009)



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CUK/PURF-2540/ 2020-21/2

Date: 23-06-2020

TENDER NOTICE FOR SUPPLY, INSTALLATION TESTING & COMMISSIONING (SITC) OF 30.5 MTR FLAG MAST CAPABLE OF WITHSTANDING FOR 180 KM/HR WIND SPEED COMPLETE FOR 30 FT X 20 FT SIZE TRI COLOR NATIONAL FLAG (Re-Tender)

(THROUGH E-PROCUREMENT MODE)

Online electronic bids are hereby invited for and on behalf of Central University of Karnataka, for Supply, Installation Testing &, Commissioning (SITC) of 30.5 Mtr. Flag Mast capable of withstanding for 180 KM/HR wind speed complete for 30 ft x 20 ft size Tri color National Flag for Central University of Karnataka (as per Annexure-1) as briefly described hereunder:

1.	Name of the Equipment	Supply, Installation Testing &, Commissioning (SITC) of 30.5 Mtr. Flag Mast capable of withstanding for 180 KM/HR wind speed complete for 30 ft x 20 ft size Tricolor National Flag (as per Annexure-1).
2.	Bid submission mode	Online through e-procurement mode on Central Public Procurement Portal. Two Packet system: Packet 1 -Techno-Commercial Bid and Packet 2 -Financial Bid (BoQ).
3.	Earnest Money Deposit Rs. 25,000/-	Payable through Demand Draft drawn on any nationalized bank in favour of “ Central University of Karnataka ” payable at Kalaburagi. The DDs should be sent to “The Registrar, Central University of Karnataka, Kadaganchi -585367, Kalaburagi District” in sealed envelope by superscripting as “ EMD for National Flag Tender ”. The DDs shall reach on or before the date and time of bid opening. OR Through Online payment Account Number: 5109101000001 Bank: Canara Bank IFSC: CNRB0005109 Bank Address: Canara Bank, Central University of Karnataka, Kadaganchi – 585367, Kalaburagi district, Karnataka, INDIA and should enclose the necessary document proof of remittance through online
4.	Date and time of availability of bid document in the portal.	<u>From 14.00 Hrs. of 23.06.2020 to 14.00 Hrs. of 29.06.2020</u>
5.	Last date and time for submission of bids through portal.	<u>14.00 Hrs. of 29.06.2020</u>
6.	Date and Time for Opening of Technical Bid	<u>16.00 Hrs. of 30-06-2020</u>

A. Each Bidder shall upload the following self-attested documents

Packet I

1. Annexures I, II and Firm registration certificate
2. GST Registration Certificate, PAN Card and NSIC certificate /UOM, if applicable.
3. OEM / Authorized Dealership /Distributorship Certificate from principal,
4. Audited Profit and Loss for last three financial years from 2016-17 to 2018-19.
5. ITRs for the last Assessment Years from 2017-18 to 2019-20
6. Work orders and installation report of the National Flag in any government organization during the Financial Year 2018-19 and 2019-20
7. Other documents specified in the tender document

Packet II

8. Annexure III –Financial Bid (BoQ)

B. Eligibility of the bidders

1. The bidder shall be registered firm.
2. Bids can be submitted by original equipment manufacturers (OEM) or authorized dealers or distributor of item put for tender as per Annexure -I.
3. The bidder shall not be black listed by any Govt./Semi Govt./Private Institution.
4. The bidder shall be free from the encumbrance and there shall not be any vigilance case/ CBI case/ Court Case pending against the bidder.-A declaration in this effect is required to be provided by the bidder.
5. The firm should be registered with the Income Tax, GST and other required statutory registrations.
6. The firm should have an experience of at least 3 years in supply of item put for tender as per Annexure -I (Financial Year 2017-18 and 2019-20).
7. Average annual turnover during the past three years from 2016-17 to 2018-19 should be at least 40 lakh rupees.
8. The bidder should enclose audited financial statements and income tax returns for the last three year financial years 2016-17 to 2018-19
9. List of clients to whom supply were arranged highlighting the Government organizations along with contact numbers and work order copies are also required to be furnished.
10. The bidder should submit the Purchase Order and Installation Report of supplying at least one unit of the item put for tender as per Annexure –I, to any of the Government organization / Reputed private organization or firm during the last two years (F.Y. 2018-19 to 2019-20).

C. TERMS AND CONDITIONS

1. Pre-qualification Criteria: Bidder should be Manufacturer or Authorized dealer/ contractor of similar kind of work.
2. The bidder should not have blacklisted by Government of India or neither Govt. of Karnataka nor any contract awarded to them has been rescinded, during last five years prior to the date of issue of this tender notice.
3. The bidder should not have any legal case on him or should not have been involved in any litigation / enquiry for similar work under Government of India / State or any Govt. organization.
4. All the bidders shall submit the list of similar works supply, Installation, Testing & Commissioning of 30.5 Mtr Flag executed.
5. Detailed specifications of all the items have been furnished in the financial bid against which rates are to be quoted by the bidders.
6. Earnest money deposit of the unsuccessful bidders shall be refunded after expiry of the final bid validity and latest on or before the six weeks after the award of the contract. Earnest money of the lowest bidder shall be refunded after successful completion of the work.
7. Subletting the work is not permissible.
8. The bid shall be accompanied by Earnest Money of Rs.25,000/- (Rupees twenty five Thousand only) in the form of Demand Draft from a Nationalized Banks in favour of the ***Finance Officer Central University of Karnataka*** payable at Kadaganchi, Kalaburgi
9. EMD of successful bidder may be released after submission of Performance Security Deposit.
10. Within 7 days of award of work, the bidder is required to furnish a performance security for 10 % of the value of the contract in favour of '***Finance Officer Central University of Karnataka*** payable at Kadaganchi, Kalaburgi.
11. The Security Deposit shall be refunded to the contractor without any interest after 60 (sixty) days of the completion of the contract, subject to the fulfillment of all contractual obligations by the contractor.
12. Performance security will be forfeited if the bidder fails to deliver/ abide by any of the terms and conditions of the contract.
13. The conditional tenders will not be accepted.
14. The quoted rates shall include components related to labour laws. The contractor has to adhere all the labour laws and to deposit due amounts under these laws already covered in the quoted rates to the respective statutory authorities.
15. The reserves the right to reject the tenders without assigning any reason.
16. The University shall be free to get the job done or get the defects rectified through any other agency at the risk and cost of the contractor due to defective, incomplete, inadequate, sub-standard or delay in completion of the assigned work or non-removal of defects in time.

Timely completion of the work is the essence of the contract. Delay in completion will attract penalty as per the GOI rules

17. The work shall be completed within 6 **weeks** from the date of work order.
18. Income Tax and other taxes as applicable shall be deducted from the Contractor's bills.
19. The Contractor shall be responsible for any damage caused to any property of the campus and make good all such damages at his own cost.
20. In the event of any accident during the course of work which may result in any injury to a work man; the responsibility of their medical treatment fully rests with the contractor and the University shall not be liable in any way to the payment fixed under Minimum Wages Act as amended from time to time. The contractor shall pay not less than the Minimum Wages fixed, to the labour engaged by him for execution of the work.
21. The work includes the foundation of the Pole. The bidder will get the bearing capacity tested, before designing the foundation. The design calculation & structural drawing 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. The design as approved by the CUK is required to be executed.
22. Bids not fulfilling all or any of the above conditions or incomplete, in any respect are liable for rejection.
23. Firms registered with NSIC are exempted from the payment of EMD on submission of proof of their registration and its validity.

D. INSTRUCTIONS TO BIDDERS

1. Kindly stamp and sign all pages of the tender.
2. Deviations if any shall be highlighted on a separate sheet on the tenderer's letterhead. The envelope containing the technical bid shall be marked as "TECHNICAL BID".
3. If there are no deviations, the tenderer shall advise the same on his letter head and enclose it with the Technical Bid.
4. The financial bid shall be submitted in a separate sealed envelope marked "FINANCIAL BID".
5. If there is any contradiction between various sections of the tender booklet, the Schedule of Quantities shall hold over the Special Terms & Conditions, which shall hold over the General Terms & Conditions.
6. For any clarification regarding this job, the bidders can contact Phone No: 08477-226722

E. GENERAL:

1. All materials required for the job will have to be arranged by the contractor meeting the relevant codes and specifications.

2. The contractor will have to make his own arrangement to transport the required materials outside and inside the working place and leaving the premises in a neat and tidy condition after the completion of the job to the satisfaction of the University.
3. The contractor will have to arrange for safe keeping of his materials and should provide necessary security arrangements for safe guarding the materials. CUK will not be responsible for any claims with regard to this.
4. The tenderers are advised to visit the site and get acquainted with the site conditions. The tenderer has to make their own arrangements for transportation of material and movement of heavy equipment at site.
5. The tenderers should note the site conditions before submission of bids. The site will be offered on AS IS WHERE IS for the execution of this job and it will be sole responsibility of the tenderer to ensure that they abide by the various rules, regulations, bye-laws and other statutory requirements etc, Imposed by the Government / semi-Government and / or other local authorities governing execution of this job.
6. When the person signing the tender is not sole proprietor the necessary Power of Attorney authorizing the person to act on behalf of the Proprietor or Organization should be produced / attached with the tender in the Technical Bid.
7. The tenderers should study the various tender conditions / documents etc. carefully before submitting their bids. If there are any doubts, they should get clarifications from University in writing, but this shall not be a justification for submission of late tenders or extension of due date of the tender.
8. All entries and rates in the tender form must be written in ink or typewritten. Erasures, overwriting or corrections, if any, should be attested under the full signatures of the tenderer. All rates should be both in figures and words. The total amount should be given both in' figures and words in the Financial Bid. In case of any difference, the rate expressed in words will be taken as authentic.
9. As far as possible the tenderers should endeavor not to stipulate any counter terms / conditions or modifications of tender clauses and should quote strictly as per tender conditions. This will assist in proper evaluation of each offer. However should there be any specific comments in respect of any clauses, the same may be highlighted in a separate deviation schedule in the Technical Bid.
10. CUK reserves the right to reject offers not meeting its technical requirements and commercial conditions.
11. CUK shall not be bound to accept the lowest tender and reserves right to accept any tenders. Decision of CUK in this connection shall be final.
12. CUK reserves the right to accept any tender in whole or in part or reject any or all tenders without assigning any reason.

13. Disputes and Arbitration:

13.1 That any dispute arising out of this contract shall be referred to the University, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of the Arbitor, who should be acceptable to both the parties, to be appointed by the Vice-Chancellor of the University. The decision of such Arbitor shall be final and binding on both the parties.

- 13.2 All disputes are to be settled within the jurisdiction of the Kalaburgi District Courts.
14. In general, payment of final bill shall be made to the Supplier / Contractor within six weeks of the submission of bill after satisfaction / completion of all the obligations under the Contract.
 15. All Taxes, if applicable, should be quoted separately, otherwise it would be presumed that the quoted prices are inclusive of taxes.
 16. Prices quoted should be FOR University inclusive of all charges required to make the equipment functional to the satisfaction of University, otherwise it would be presumed that the quoted prices are inclusive of all charges (i.e. Transportation charges), if applicable.
 17. The Suppliers will undertake warranty of equipment from the date of installation and shall have to mention clearly the period of warranty in Technical Bid.

REGISTRAR

PERFORMANCE BANK GUARANTEE OF CONTRACTOR

Bank Guarantee No.: _____

dated: _____

Issuer of Bank Guarantee:

(Name of the bank)

(Hereinafter referred to as the “Bank”)

Beneficiary of Bank Guarantee: Registrar,

CUK.

On behalf of

Employer CUK

Nature of Bank Guarantee: Unconditional and irrevocable Bank Guarantee.

Context of Bank Guarantee: Contract Agreement dated __ (hereinafter referred to as the “Agreement”), executed between the Employer acting through the Registrar, CUK (‘hereinafter referred to as the “Employer’) and _____ (hereinafter referred to as the “Contractor”) for **the construction of** “Supply, Installation and Testing Commissioning & Testing of 30.5 Mtr Flag Mast at CUK

Provided however, such context of the Bank Guarantee or reference to the Agreement in this Bank Guarantee shall in no manner be relied upon at any stage to adversely affect or dilute the unconditional and irrevocable nature of this Bank Guarantee. The titles of this Guarantee i.e. “Performance Bank Guarantee” shall in no manner and at no stage be relied upon to adversely affect or dilute the unconditional and irrevocable nature of this Bank Guarantee.

Operative part of the Bank Guarantee:

1. At the request of the Contractor, we _____

_____ (name and address of the bank), (hereinafter referred to as the “Bank”), do hereby unconditionally and irrevocably affirm and undertake that we are the Guarantor and are responsible to the Employer i.e. the beneficiary on behalf of the Contractor, upto a total sum of Rs.----- Lakhs (Rupees

Lakhs Only), such sum being payable by us to the Employer immediately upon receipt of first written demand from the Employer. basis, and without any cavil or argument or delaying tactics or reference by us to Contractor and without any need for the Employer to convey to us any reasons for invocation of the Guarantee or to prove the failure to perform on the part of the contractor or to show grounds or reasons for the demand or the sum specified therein, the entire sum or sums within the limits of Rs. _____ Lakhs (Rupees _____ Lakhs Only.)

2. We hereby waive the necessity of the Employer demanding the said amount from Contractor prior to serving the Demand Notice upon us.

3. We further agree and affirm that no change or addition to or other modification to the terms of the Agreement, shall in any way release us from any liability under this unconditional and irrevocable Guarantee and we hereby waive notice of any such change, addition or modification. We further agree with the Employer that the Employer shall be the sole and the exclusive judge to determine that whether or not any sum or sums are due and payable to him by Contractor, which are recoverable by the Employer by invocation of this

4. This Guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor. We undertake not to withdraw or revoke this Guarantee during its currency/ validity period, except with the previous written consent of the Employer through Registrar, CUK, on behalf of CUK.

5. We unconditionally and irrevocably undertake to pay to the Employer through Registrar CUK, on behalf of the CUK any amount so demanded not exceeding

Rs.— ***Lakhs (Rupees*** _____ ***Lakhs Only)*** notwithstanding any dispute or disputes raised by Contractor or anyone else in any suit or proceedings before any dispute review expert, arbitrator, court, tribunal or other authority, our liability under this Guarantee being absolute, unconditional and unequivocal. The payment so made by us under this Guarantee to the Employer, shall be a valid discharge of our liability for payment under this Guarantee and the Contractor shall have no claim against us for making such payment.

6. This unconditional and irrevocable Guarantee shall remain in full force and effect and shall remain valid until _____

_____ Notwithstanding any contained herein: Our liability under this Bank Guarantee shall not exceed Indian Rs. _____ Lakhs (Rupees _____ Lakhs Only). This unconditional and irrevocable Bank Guarantee shall be valid w.e.f. _____

to. We are liable to pay the guaranteed amount or any part thereof under this unconditional and irrevocable Bank Guarantee only and only if the Employer through Registrar, CUK, on behalf of the RGNUL serves upon us a written claim or demand on or before

Authorized Signatory

For Bank

ISSUE OF NOTICE TO PROCEED WITH THE WORK

Note: No Separate notice to proceed with the work shall be issued. However the detailed acceptance letter sent by this office with intended date of start shall also be considered notice to proceed with the work.

AGREEMENT

This Agreement made This day of Between.....
(Hereinafter called the "Contractor" of the first part and CUK through the Registrar (hereinafter called "The University") of the other part.

Whereas the Contractor has agreed to execute the work of **"Supply, Installation Testing and Commissioning & Testing of 30.5 Mtr Flag Mast at CUK"** and the University has accepted his tendered offer for the execution of afore mentioned work. NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1. In this agreement, words and expressions shall have the same meanings as are respectively assigned to them as per the general conditions of contract enclosed herewith.
- 2 The following documents shall be deemed to form and be construed as part of this Agreement:
 - (i) The "NOTICE INVITING TENDER" AND "INSTRUCTIONS TO TENDERERS" enclosed as ANNEXURE - T' with this agreement.
- 3, The work will be executed strictly according to specifications and scope and the schedule of items of work as per quantities specified therein at the accepted rates.
- 4. All correspondence and modifications, if any and acceptance letter will from part of this agreement.
- 5. The University hereby covenants to pay the Contractor, in consideration of completion of works, the price in the manner as specified in this Agreement.

IN WITNESS THEREOF THE PARTIES HERE TO SET THEIR RESPECTIVE HANDS AND SEALS ON THE DAY AND YEAR MENTIONED ABOVE IN THE PRESENCE OF WITNESSES AS UNDER:

Name and Address of the Contractor

Signature of Contractor

.....
.....

.....

Signed sealed and Delivered byin the
Capacity of.....

In presence of (Name and Address)

Witness No. 1

.....
.....

Witness No. 2

Registrar

.....
.....

For & on behalf of the CUK

ANNEXURE I - TECHNICAL SPECIFICATIONS

DETAILED TECHNICAL SPECIFICATION FOR 30.5 Mtr. FLAG MAST.

DELIVERY PERIOD: Six weeks from the date of issue of work order

1. 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. The University will only provide the feeder cable of required size up to the base compartment of the high mast.

2. PRE-QUALIFICATION: Documents should be enclosed for having executed atleast two similar works in Govt. institutions Documentary proof such as work order, agreement and satisfactory completion of similar works issued by the competent authority.

3. APPLICABLE STANDARDS:

Code No.

- | | |
|---------------------|--|
| 1. TR. No. - 7 | High Masts for Lighting and CCTV (2000 edition) of ILE, U.K, |
| 2. SABS 0225:1991 | High Mast natural frequency calculation. |
| 3. IS 875 Part — 3 | Wind Loading. |
| 4. BS EN 10025:1993 | High Tensile Steel Sheets. |
| 5. IS 2062 | Mild Steel. |
| 6. BS EN ISO 1461 | Galvanization. |
| 7. IS 3459 / 2266 | Stainless steel Wire rope. |
| 8. IS 325 | Motor |

FLAGMAST:

4.1. Structure: 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.

4.2. Construction: The mast shaft shall be manufactured from high tensile steel plates conforming to BS EN 10025 having minimum yield strength of 355N/Sq. mm. Each mast shaft section shall have only one longitudinal weld and without any circumferential weld joint. Sections with more than one longitudinal weld shall not be accepted. 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.

The minimum A/F dimension of top shall be 150 mm and bottom as per the design and safe structure calculation. Design certificates and warranty should be provided for minimum 25 years. The minimum section length except for the top section shall be 10.98 m and top shall depend on the length required to make the specified height. The masts sections shall be joined at site by slip-stress-fit method and minimum overlap distance shall be 1.5 times the diameter at penetration.

A door reinforced with welded steel section, vandal resistant, weather proof with Allen bolts and pad locking facility of minimum dimension 1250 mm x 250 mm shall be provided at a height 2

times the width of door from the base of mast to provide clear access to base compartment equipment's winch, motor, cable, connector etc.

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 thickness of 85 microns for plates more than 5 mm and 70 microns for 5 mm or less thickness. Manufacture of Flag mast, Octagonal poles and Luminaires should preferably be same for easy maintenance.

4.3 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), and shall be measured at a height of 10 meters above ground level. The design life of the mast shall be 25 years. The force co-efficient taken for design of the polygonal structure is to be established from the wind tunnel test data.

4.4 Raising and lowering mechanism:

4.4.1 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 be 53:1 and safe working load 750 Kg. 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.

The winch shall be type tested through reputed institutions like IIT as consultants and the type test report shall be submitted along with bid. A test certificate is to be submitted along with supplies.

4.4.2 Head Frame: The hot dip galvanized head arrangement is to be designed as a receiving the flag wire rope & addition to this to stand by rope for flag & additional safety rope for man rider (Not part of supply and to be ordered separately). The LM6 Aluminum pulleys with bush bearing mounted through stainless steel shaft shall be suitable to accommodate wire ropes to be provided.

4.4.3 Wire Ropes: The galvanized wire ropes shall be in 7/19 construction with central core in the same material of 6 mm diameter. The breaking load of each rope shall not be less than 2350 Kg giving a factor of safety of over 5 for the system at full load as per the TR-7. The end construction of rope for the winch drum shall be fitted with talurit and for two continuous ropes the end termination in luminary's carriage shall be with stainless steel thimble and copper splicing and for others with stainless steel thimble and bull dog grips.

4.5 Electrical System, Cable and Cable Connections: The power cable from base compartment to junction box at the top shall be 1.1 KV grade PVC insulated, PVC sheathed copper conductor of size minimum 3 core x 1.5 sq. mm. Wiring from junction box to Aviation Light is to be done using 3 core 1.5 sq. mm PVC 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 for isolation of incoming power supply.

4.6 Power Tool for the Winch: Three phases, single speed, motor of rating suitable to hoist the flag mounted on adjustable plate to adjust the length of winch motor coupling chain is to be provided in base compartment.

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.

4.7 Decorative Finial: One number of FRP ornamental finial (DOME) shall be provided for each FLAG mast on the head arrangement is to be provided.

4.8 Aviation Obstruction Light: Supply of Single dome aviation obstruction lights of type LED AOL, Make shall be BINAY or equivalent.

4.9 Earthing Terminals: Earth terminal using 12 mm diameter hot dip galvanized bolt shall be provided on the door stiffener of the mast for lightning and electrical earthing of the mast.

4.10 Control Box: Each mast shall be provided with a control box with 32A TPN MCB incoming, power tool control with 2 nos 9A contactors and raise lower push button, Incoming 16 sq. mm and outgoing 4 sq. mm terminals.

4.11 Incoming Power Cable: Power cable of suitable size up to the feeder pillar from supply point shall be provided by University.

5. Luminaries: The flood light luminaries 300 — 350 Watt LED type having more than 100 Lumen / W output. This Flood light shall be installed on 5 mtr galvanized octagonal poles with supply & laying of 3 Core x 2.5 Sq mm Copper cable for the individual wiring of the Luminaire.

5.1 Octagonal Poles: 5.0 mtr. High hot dip galvanized octagonal poles for installing the flood light to illuminate the flag in dark.

6. PU Painting: Flag mast shall be finished with Polyurethane (PU) paint over the galvanized surface after application of Etch Primer coat. PU Paint should be done at manufacturer's works, and certificate from manufacturer for same should be enclosed in the bid.

7. FLAG: Supply of national flag of size '20 x 30' in 100% Knitted Polyester(140/160gsm), with reinforced super strong nylon webbing on all 3 sides & rope/toggle sleeve.

SPECIAL TERMS & CONDITIONS

1. COMPLETION PERIOD: Six weeks from the date of issue of work order.

2. DEFECT LIABILITY PERIOD:

i Pole: - 12 months warranty on Flag Mast Shaft & accessories from the date of commissioning. ii LED lights & Aviation light it will be comprehensive for 3 years.

iii Successful bidder will also supply design certificate for 30.5 mtr Flag mast Pole

3. WATER: Water will be provided by Central University of Karnataka.

4. POWER: Will be provided by the Central University of Karnataka.

5. CEMENT:

i Cement required for construction under the scope of the vendor shall be arranged by the contractor at his own cost.

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

iii The Penal rate for any under consumption of cement shall be Rs 12000/per MT.

6.LABOUR: Labor camp will not be permitted inside the Campus. The contractor has to make necessary arrangements elsewhere for the same.

7. TIME EXTENSION: Time extension, if required on any account will have to be brought to the notice of Central University of Karnataka at least 15 days in advance from the date of scheduled job completion with proper details and justification. .

8. All statutory registrations / licenses shall be obtained and submitted to the Engineer in charge prior to commencement of the works.

9.REPORT OF ACCIDENT: In case of any accidents, the contractor shall report the incident as required by rules to the concerned authorities, He/She will be fully responsible for the same including any expenses for medical treatment or compensation or any other charges required to be bore.

10. QUANTITIES: The bidder should furnish the quantity along with the unit rate as items required for the Supply, Installation Testing &, Commissioning (SITC) as mentioned in the tender documents. The items furnished in the Financial bid are tentative and not exhaustive and the requirement is to be ascertained by the tenderer based on the usage requirement of the materials . Payment according to supply and usage for executing the above work.

**TECHNICAL DATA SHEET
FOR 30.5 MTR FLAG MAST
FM 30.5 @ 50 m/s**

HIGH MAST SYSTEM

Make	:	Bajaj Electrical, CHM Industries IMC, Sherder
Height of mast	:	or Equivalent only) 30.5 Meter,
No. of sections	:	Three
Material construction	:	S 355 grade as per BS-EN10 025
Base dia. and top diameter (A/F) Top	:	150 mm, Bottom : 540 mm
Plate thickness	:	Top : 3 mm, Middle : 4 mm, Bottom : 4mm
Cross section of Mast	:	20 side polygon.
Standard for of galvanization	:	As per BS EN ISO 1461
Size of opening and door at base	:	1200 x 250 mm
Diameter of base	:	730 mm plate
Thickness of base plate	:	30 mm
Lightning protection	:	G.I single spike of length 1200 mm finial
Max.wind speed	:	50 m/s
Number of foundation bolts	:	12 nos.
PCD of foundation bolts	:	650 mm
Type / diameter / length of foundation bolts	:	TS 600 / 30 mm dia / 850 mm long

WINCH / POWER TOOL

Type / SWL of winch	:	Double drum, SWL 750 Kg
Method of operation	:	Integral Motor
Motor capacity	:	2 HP
No of speeds	:	4 Pole, Single speed
Torque limiter	:	With mechanical tripping facility

TECHNICAL DATA SHEET FOR 30.5 MTR. HIGH / FLAG MAST & COMPONENTS (TO BE FILLED BY THE VENDORS)

1. **HIGHMAST STRUCTURE : VENDOR'S CONFIRMATION / REMARKS** Height of mast (mtr)30.5 mtr

Permissible Projected area :

Makes :

Material construction : BS-EN 10025 (old BS 4360)

Thickness (in mm) : Top

: Middle

: Bottom

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 : Hot Dipped Galvanised

Mast section

Thickness of galvanisation (min) : Micron: Top

Micron: Middle

Micron: Bottom

Type of locking arrangement and door panel

Size material & thickness of: ----- Amps TPN MCB + ELCB cable termination box

Size of base plate : Dia-----mm

Diameter and thickness : Thick----- mm

Size of anchor plate &thickness : - - - - mm (approx))

Detail of Template :

Weight in Kgs. Of 30 Mtr. Mast including

base plate door, head frame) :

Lightning protection :

2. DYNAMIC LOADING AS PER PREVAILING AT SITE

Max. wind speed: 50 mtr /sec but not less than location req (As per IS;875; 1987)

Height of above ground level these

Two factors 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 per Hour):

Depth of foundation :

Average soil bearing capacity :

Numbers of foundation bolts :

DPC of foundation bolts :

Type of foundation bolts :

Bolt diameter :

3. 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 safety :

4. STAINLESS STEEL WIRE ROPE

Make :

Grade :

Number of ropes ' :

Construction :

Centre core material :

Diameter (mm) :

Thimbles &Terminals :

Breaking load capacity :

Factor safety

(Specified not less than 5) :

5. POWER TOOL

a) Model (portable external / integral type) :

b) Input supply :

c) Wattage / HP :

d) Number of speeds :

e) Reversible / non reversible :

f) Operating speed :

g) Remote control switch

i) Type :

ii) Length of control cable :

h) Max. time taken for

i) Raising :

ii) Lowering :

6. TORQUE LIMITER

a) Model :

b) Lifting capacity :

c) Adjustable / non —adjustable :

ANNEXURE II

Tender Application and Declaration Form

1. Name of the Firm:
2. Full Postal Address:.....
3. Mobile No.
4. Telephone No.
5. Email Id:.....
6. Year of Establishment of Firm.....
7. Registration No. of Firm:.....
8. Is your firm participating as original equipment manufacturer (OEM) or on behalf of OEM or Authorized dealer?
9. Give details of any Government contracts executed during the last two year (attach separate sheet, if necessary):.....
10. Details of the EMD

Particulars	Amount	DD No. /UTR No.	Date	Name of the Bank
EMD	Rs. 25,000			

UNDERTAKING

- a) I the undersigned certify that I have gone through the terms and conditions mentioned in the tender document and undertake to comply with all the terms and conditions mentioned in the tender document.
- b) The rates quoted by me are valid and binding upon me for the entire period of contract.
- c) I hereby undertake to supply the items as per specifications given in the tender document/supply order within stipulated period, if I qualify in the tendering process.
- d) I give the rights to the Central University of Karnataka to forfeit the earnest money paid by me if any delay occurs on my part or if I fail to comply with the terms and conditions mentioned in the tender document.
- e) There is no vigilance/CBI case or court case pending against my firm **nor** is my firm blacklisted by any agency/department.

Date: _____

Name: _____

Place: _____

Designation: _____

Seal:

Note to bidder: To be submitted by the bidder in the letter head and to be signed by the authorized signatory with name and designation. Affix the seal of the firm.

ANNEXURE III - FINANCIAL BID

Sl.No.	Description	Unit	Qty	Rate	Amount
1	Construction of shallow foundation with M20 grade concrete for the Flag mast considering the safe soil bearing capacity at site as 10 T/sqmtr at 2 metre depth with all materials and labour and 1 soil investigation	Job	01		
2	Supply, Installation, Testing & Commissioning of 30.5 Mtr. Flag mast. Mast shaft shall be in three sections, hot dip galvanised and suitable for wind velocity as per IS 875. It includes a special type of Dome and including.PU Painting of Flag Mast shaft with 2 a coating of etch primer, primer and PU paint.	Each	01		
3	Supply, Installation, Testing & Commissioning of foundation bolts manufactured from special steel along with nuts, washers, 3 anchor plates and templates.	Set	01		
4	Supply, Installation, Testing & Commissioning of System for Raising Lowering of Flag. It shall have double drum winch, 6 mm dia galvanised wire rope and integral power tool for the raising and lowering of Flag. Suitable control panel shall be 4 provided for reversing operation of Power tool motor.	Each	01		
5	Supply, Installation, Testing & Commissioning of LED single dome System and Aviation Obstruction light with 3C x 2.5 Sqmm Cu armoured cable	Each	01		
6	Supply, Installation, Testing & Commissioning of LED 300 to 350 watt Flood Light IP 65 or suitable for Illumination of Flag mast.	Each	01		
7	Supply, Installation, Testing & Commissioning of 5M high hot dip galvanised octagonal pole suitable to mount 1no. non-integral flood light fittings at top & control gear box mounting arrangement at bottom	Each	01		
8	Supply, Installation, Testing & Commissioning of foundation bolts manufactured from special steel along with nuts, washers 8 etc.	Set	01		
9(a)	Supply, Installation, Testing & Commissioning of National Flag 9(a) size 20X30Ft, made with shiny kintted polyester, 160 GSM(C)	Each	01		
9(b)	Supply, Installation, Testing & Commissioning of National Flag Rate 9(b) size 20X30Ft, made with shiny kintted polyester, 140 GSM(C)	Each	01		
10	Supply, Installation, Testing & Commissioning of National Flag 9(a) size 20X30Ft, made with shiny kintted polyester, 160 GSM(C) Each 2 Supply,	Each	01		

	Installation, Testing & Commissioning of National Flag Rate 9(b) size 20X30Ft, made with shiny kintted polyester, 140 GSM(C) Each only Supply, Installation, Testing & Commissioning of GI pipe earthing for Flag mast with 2.5 M long 40 mm dia GI Pipe including connection to High mast earth terminal with 25 x 3 mm 10 GI flats with all materials and labour. (2nos per mast required)				
	TOTAL				

(Signature of the agency with seal)