

Press Notice**PUBLIC WORKS DEPARTMENT, GNCTD****Notice Inviting Tender****Tender ID: 2021_PWD_206297_1**

The Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi (Telephone no. 011-27933260,25085682; e-mail: eepwddelhihmdn@gmail.com), on behalf of President of India, invites Percentage Rate tender from approved and eligible contractors of CPWD in appropriate composite category and firms/contractors of repute through e-Tendering under two bid system for the following work :-

NIT No. 04 /CE/Health/PWD/2021-22

Name of work: - Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I

Estimated Cost: Rs. 431,32,08,066/- (Civil: Rs.267,45,30,528/- /- + Elect: Rs. 163,86,77,538/-), Earnest Money: Rs. 4,41,32,081/- Period of Completion: 05 Months. Last date & time of submission of online bid is 11-08-2021 upto 03:00 P.M. Date and time of Pre bid meeting will be held on 02-08-2021 at 10.00 AM in the Conference Room, PWD, 13th Floor, MSO Building, I.P. Estate, New Delhi.

The bids forms and other details can be seen and obtained from the website <https://govtprocurement.delhi.gov.in>

Not to be published below this line.

**Executive Engineer,
Health North Maintenance Division,
Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi
(For and on behalf of President of India)**

PART "A"

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e- TENDERING
FORMING PART OF BID DOCUMENT

The Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital, Sector-6, Rohini, Delhi (Telephone no. 011-27933260,25085682; e-mail: eepwddelhihmdn@gmail.com), on behalf of President of India, invites Percentage Rate tender from approved and eligible contractors of CPWD in appropriate composite category and firms/contractors of repute through e-Tendering under two bid system for the following work :-

S. No.	NIT No.	Name of work & Location	Estimated cost put to bid	Period of Completion	Last date & time of Submission of bid & other documents as specified in the NIT	Time & date of opening of bid
1	2	3	4	5	6	7
1	/CE/Health/PWD/2021-22	Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I	Rs. 431,32,08,066/- (Composite) (Rs. 267,45,30,528/- for Civil work & Rs. 163,86,77,538/- for Electrical work).	05 Months	Up to 3:00 P.M. on 11-08-2021	At 03:30 P.M. on 11-08-2021

1. Contractors who fulfil the following requirements shall be eligible to apply. Joint ventures and consortium are not accepted. (This is not applicable for CPWD enlisted contractors of appropriate class in composite category)

(a) Should have satisfactorily completed the works as mentioned below during the last Seven years ending last day of month previous day of last date of submission of bids.

(i) Three similar works each costing not less than Rs. 173 Crores
or

Two similar works each costing not less than Rs. 259 Crores

or

One similar work costing not less than Rs. 345 Crores

Similar work shall mean works of "Construction of minimum one number RCC/Composite framed/steel structure building including internal electrical installations and MEP Services".

AND

The CPWD & non-CPWD contractors should have completed One work of at least 500 bedded Hospital/Hospital Building amounting to atleast 40% of the estimated cost of this work which can also be part of completed work.

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 the previous day of last date of submission of tenders.

Note-1: Components of work executed other than those included in definition of similar work shall be deducted while calculating cost of similar work.

Note-2: For the purpose, "Cost of work" shall mean gross value of the completed work including the cost of materials supplied by the Government/Client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer / Project Manager or equivalent.

Note-3: In case the certificate of work experience has been issued by any Pvt. Firm / Agency / Builder, the bidders will have to submit the documentary proof of the TDS (Form -26AS) with income tax department to ensure actual value of work done.

- (ii) Should have had average annual financial turnover of Rs. 216 Crores during the immediate last three consecutive financial years ending March-2020/2021 duly certified by chartered Accountant. **(Form-A)**
- (iii) The bidder should not have incurred any loss (Profit after tax should be positive) in not more than two year during the last consecutive five financial years ending 31st March 2020/2021. **(Form-A)**
- (iv) Bank solvency certificate of Rs. 173 Crores or networth certificate of Rs. 43 Crores issued by certified Chartered Accountant. **(Form-B/Form-B1)**
- (v) The bidding capacity of the bidder should be equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = \{[A \times N \times 2] - B\}$$

Where, A = Maximum turnover in construction works executed in any one year during the last five years taking into account the completed as well as works in progress (The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum.)

N = Number of years prescribed for completion of work for which bids has been invited.

B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.
- (vi) For components of E&M works, the eligibility criteria for specialized agencies to be associated by the main contractor after award of work will be as detailed below:
 The main contractor should either himself meet the eligibility criteria as defined below or he will have to Associate Agency for E&M components (preferably one agency for all E&M Services) after award of work and has to submit details of such agency(s) conforming eligibility condition as defined below to Engineer-In-Charge of minor component within 15 days after award of work. Name of agency to be associated shall be approved by NIT approving authority:

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
1.	Internal & External E.I.Work	Rs. 21.63 Crores	<p>Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids:</p> <p>Three similar works each costing not less than Rs. 8.65 Crores Or</p> <p>Two similar works each costing not less than Rs.12.98 Crores Or</p> <p>One similar work costing not less than Rs. 17. 30 Crores</p> <p>The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.</p>
2.	DG Sets	Rs. 3.82 Crores	<p>Three similar works each of value not less than 40% of the estimated cost put to tender with capacity of individual DG Set being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. DG Set proposed in NIT. Three similar works each costing not less than Rs. 1.53 Crores</p> <p>OR</p> <p>Two similar works each of value not less than 60% of the estimated cost put to tender with capacity of individual DG Set being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. DG Set proposed in NIT. Two similar works each costing not less than Rs. 2.29 Crores</p> <p>OR</p> <p>One similar work of value not less than 80% of the estimated cost put to tender with capacity of individual DG Set being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. DG Set proposed in NIT. One similar work costing not less than Rs. 3.05 Crores</p> <p>The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.</p>
3	Sub Station	Rs. 15.41 Crores	<p>Three similar works each of value not less than 40% of the estimated cost put to tender with capacity of individual transformer being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. transformer proposed in NIT. Three similar works each costing not less than Rs. 6.16 Crores</p> <p>OR</p> <p>Two similar works each of value not less than 60% of the</p>

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
			<p>estimated cost put to tender with capacity of individual transformer being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. transformer proposed in NIT. Two similar works each costing not less than Rs. 9.24 Crores</p> <p style="text-align: center;">OR</p> <p>One similar work of value not less than 80% of the estimated cost put to tender with capacity of individual transformer being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. transformer proposed in NIT. One similar work costing not less than Rs. 12.33 Crores</p> <p>The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.</p>
4	HVAC & BMS System	Rs. 49.10 Crores	<p>Three similar works each of value not less than 40% of the estimated cost put to tender with capacity of individual Chiller being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. Chiller proposed in NIT. Three similar works each costing not less than Rs. 19.64 Crores</p> <p style="text-align: center;">OR</p> <p>Two similar works each of value not less than 60% of the estimated cost put to tender with capacity of individual Chiller being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. Chiller proposed in NIT. Two similar works each costing not less than Rs. 29.46 Crores</p> <p style="text-align: center;">OR</p> <p>One similar work of value not less than 80% of the estimated cost put to tender with capacity of individual Chiller being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. Chiller proposed in NIT. One similar work costing not less than Rs. 39.28 Crores</p> <p>The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.</p>

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
5	Fire Fighting System, ETP, Water Supply & Heat Pump	Rs. 11.43 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs.4.57 Crores Or Two similar works each costing not less than Rs. 6.86 Crores Or One similar work costing not less than Rs. 9.14 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
6	Fire Alarm & PA System	Rs. 2.54 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 1.02 Crores Or Two similar works each costing not less than Rs. 1.52Crores Or One similar work costing not less than Rs. 2.03 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
7	Elevators & Escalator System	Rs. 7.86 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 3.15 Crores Or Two similar works each costing not less than Rs. 4.72 Crores Or One similar work costing not less than Rs. 6.29 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
8	LV System	Rs. 27.20 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 10.88 Crores Or Two similar works each costing not less than Rs.16.32Crores Or One similar work costing not less than Rs. 21.76 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
9	Access Control System	Rs. 37 Lakhs	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 0.15 Crores Or Two similar works each costing not less than Rs. 0.22 Crores Or One similar work costing not less than Rs. 0.29 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
10	Medical Gas Pipe system	Rs. 20.91 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 8.36 Crores Or Two similar works each costing not less than Rs. 12.54 Crores Or One similar work costing not less than Rs. 16.73 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
11	Nurse Call System	Rs. 2.05 crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 0.82

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
			<p>Crores</p> <p>Or</p> <p>Two similar works each costing not less than Rs.1.23 Crores</p> <p>Or</p> <p>One similar work costing not less than Rs. 1.64 Crores</p> <p>The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.</p>

Note :- The Composite category contractor is also be eligible to carry out himself/herself any or all of these works without associating any specialized agency provided:

(a) He fulfils the prescribed eligibility criteria respectively for these work(s).

OR

(b) He directly procures the equipment of approved make from manufacturer and gets it installed from authorized agency/service provider of the manufacturer or specialized agency as per criteria mentioned in NIT.

2. The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
3. This 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 website <http://govtprocurement.delhi.gov.in>

Bidders are advised to keep visiting the above mentioned web-sites from time to time (till the deadline for bid submission) for any updates in respect of the tender documents, if any. Failure to do so shall not absolve the applicant of his liabilities to submit the applications complete in all respect including updates thereof, if any. An incomplete application may be liable for rejection.

5. Earnest money of **Rs. 4,41,32,081/-** in the form of Treasury Challan, Demand Draft or Pay order or Banker's Cheque or Deposit at call Receipt or Fixed Deposit Receipts (drawn in favour of **the Executive Engineer, BPD, B-233, PWD** shall be scanned & uploaded to the e-tendering website within the period of bid submission.

The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any the **Executive Engineer, Health Project Division(North)(B-233), PWD, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi**, within the period of bid submission. The EMD receiving Executive Engineer shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (Form 'G') uploaded by tender inviting EE in the NIT.

This receipt shall also be uploaded to the e-tendering website by the intending bidder upto the specified bid submission date and time.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs 20 lakhs, whichever is less, will have to be deposited

in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Scheduled Bank having validity for Six month or more from last date of submission of tender which is to be scanned and uploaded by the intending bidders. But the bid can only be submitted after deposition of EMD in favour of Executive Engineer in the form prescribed in NIT and uploading the mandatory scanned document such as receipt for deposition of EMD and other documents as specified.

6. Copy of enlistment order and certificate of work experience and other documents as specified in the tender documents for eligibility shall be scanned and uploaded to the e-tendering website within the period of bid submission.
7. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose deposited EMD and other documents scanned and uploaded are found in order.
8. 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.
9. The intending bidder must have valid class-III digital signature to submit the bid.
10. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
11. Certificate of Financial Turn Over: At the time of submission of bid contractor may upload Affidavit/ Certificate from CA mentioning Financial Turnover of last 3 years or for the period as specified in the bid document and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.
12. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in pink colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). However, If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer
13. Contractor can upload documents in the form of **JPG** format and **PDF** format.
14. The Technical bid shall be opened first on due date and time as mentioned above. The financial bids of only those bidders who qualify in eligibility bid, shall be opened on due time and date.
15. Pre Bid conference shall be held in the chamber of Conference Room, PWD, at 13th Floor, MSO Building, I.P. Estate, New Delhi on 02.08.2021 to clear the doubt of intending bidders, if any.
16. 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.
17. If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of works in PWD, GNCTD. The department reserves the right to verify the particulars furnished by the applicant independently.

List of Documents to be filled in by the tenderers in various forms, to be scanned and uploaded in JPG/PDF format within the period of bid submission:

- I. Treasury Challan/Demand Draft/Pay order or Banker's Cheque /Deposit at Call Receipt/ FDR / Bank Guarantee of any Scheduled Bank against EMD.

- II. Copy of receipt for deposition of original EMD to division office of any EE, CPWD/PWD as per the instruction 'Form-G'.
- III. Certificates of Work Experience (Form 'C').
- IV. Certificate of Financial Turnover from CA (form 'A').
- V. Bank Solvency Certificate ('B').
- VI. Any other Document as specified in the bid documents(**Work certificate of completion of one hospital work issued not below the rank of Executive Engineer or equivalent**).
- VII. **GST registration Certificate of the State in which the work is to be taken up, if already obtained by the bidder.**

If the bidder has not obtained GST registration in the State in which the work is to be taken up, or as required by GST authorities then in such a case the bidder shall scan and upload following undertaking along with other bid documents.

"If work is awarded to me, I/we shall obtain GST registration Certificate of the State, in which work is to be taken up within one month from the date of receipt of award letter or before release of any payment by CPWD, whichever is earlier, failing which I/We shall be responsible for any delay in payments which will be due towards me/us on a/c of the work executed and/or for any action taken by CPWD or GST department in this regard.

Note: The Sl.No. III to V are not applicable for CPWD enlisted contractors of appropriate class in composite category)

**PUBLIC WORKS DEPARTMENT
NOTICE INVITING TENDER**

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Name of work: - Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I

The enlistment of the contractors should be valid on the last date of submission of bids.

In case the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.

- 1.1 The work is estimated to total cost of **Rs. 431,32,08,066/-** the breakup of which is as below:-
Rs. 267,45,30,528/- (Civil) + Rs. 163,86,77,538/- (Electrical). This estimate, however, is given merely as a rough guide.
- 1.2 Intending bidders are eligible to submit the bid provided they have definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below: -
Enlistment of the contractors should be valid on the last date of submission of bids. In case only the last date of submission of bids is extended, the enlistment of contractor should be valid on the original date of submission of bids.
- 1.3.1 Bid documents shall be considered valid only of those contractors who will upload the scanned copies of the following documents alongwith bid:
 - A) For CPWD registered contractors**
 - (i) Enlistment in appropriate composite category.
 - (ii) Copy of original EMD in proper form.
 - (iii) Receipt of deposit of EMD in any divisions of CPWD/PWD Delhi.
 - (iv) Acknowledgement of latest due return filed in GST department.
 - (v) Registration under GST Department or proof of application for GST registration or an undertaking that payment shall be claimed only on submission of GST registration. If the bidder has not obtained GST registration in the state in which the work is to be taken up, then in such a case the bidder shall upload following undertaking with the bid document, **“if the work is awarded to me I / we shall obtain GST registration certificate within 1 month from date of receipt of award letter or before payment of 1st R.A. bill.**
 - (vi) Copy of Electrical licenses or an undertaking that he will associate Electrical contractor having valid electrical licenses.
 - (vii) **Work certificate of completion of one hospital work issued not below the rank of Executive Engineer or equivalent).**

B). Other experienced contractors

Contractors other than mentioned at para -1.3.1.A dealing with Building and Roads, who fulfill the following criteria in addition to above criteria as mentioned at Para- 1.3.1.A above, shall also be eligible to apply:

- (i) Three similar works each costing not less than **Rs. 173 Crores**

or

Two similar works each costing not less than Rs. 259 Crores

or

One similar work costing not less than Rs. 345 Crores

Similar work shall mean works of "Construction of minimum one number RCC/Composite framed/steel structure building including internal electrical installations and MEP Services".

AND

The CPWD & non-CPWD contractors should have completed One work of at least 500 bedded Hospital/Hospital Building amounting to atleast 40% of the estimated cost of this work which can also be part of completed work.

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 the previous day of last date of submission of tenders.

To become eligible for issue of bid, the bidders shall have to furnish an affidavit as under:-

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in CPWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid)

- (ii) Should have had average annual financial turnover of Rs. 216 Crores during the immediate last three consecutive financial years ending March-2020/2021 duly certified by chartered Accountant. **(Form-A)**
- (iii) The bidder should not have incurred any loss (Profit after tax should be positive) in not more than two year during the last consecutive five financial years ending 31st March 2020/2021. **(Form-A)**
- (iv) Bank solvency certificate of Rs. 173 Crores or networth certificate of Rs. 43 Crores issued by certified Chartered Accountant. **(Form-B/Form-B1)**
- (v) The bidding capacity of the bidder should be equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = \{[AxNx2]-B\}$$

Where, A = Maximum turnover in construction works executed in any one year during the last five years taking into account the completed as well as works in progress(The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum.)

N = Number of years prescribed for completion of work for which bids has been invited.

B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.

- (vi) For components of E&M works, the eligibility criteria for specialized agencies to be associated by the main contractor after award of work will be as detailed below:
The main contractor should either himself meet the eligibility criteria as defined below or he will have to Associate Agency for E&M components(preferably one agency for all E&M Services) after award of work and has to submit details of such agency(s) conforming eligibility condition as defined below to Engineer-In-Charge of minor component within 15 days after award of work. Name of agency to be associated shall be approved by NIT approving authority:

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
1.	Internal & External E.I.Work	Rs. 21.63 Crores	<p>Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 8.65 Crores Or Two similar works each costing not less than Rs.12.98 Crores Or One similar work costing not less than Rs. 17. 30Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.</p>
2.	DG Sets	Rs. 3.82 Crores	<p>Three similar works each of value not less than 40% of the estimated cost put to tender with capacity of individual DG Set being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. DG Set proposed in NIT. Three similar works each costing not less than Rs. 1.53 Crores OR Two similar works each of value not less than 60% of the estimated cost put to tender with capacity of individual DG Set being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. DG Set proposed in NIT. Two similar works each costing not less than Rs. 2.29 Crores OR One similar work of value not less than 80% of the estimated cost put to tender with capacity of individual DG Set being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. DG Set proposed in NIT. One similar work costing not less than Rs. 3.05 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.</p>

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
3	Sub Station	Rs. 15.41 Crores	<p>Three similar works each of value not less than 40% of the estimated cost put to tender with capacity of individual transformer being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. transformer proposed in NIT. Three similar works each costing not less than Rs. 6.16 Crores</p> <p style="text-align: center;">OR</p> <p>Two similar works each of value not less than 60% of the estimated cost put to tender with capacity of individual transformer being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. transformer proposed in NIT. Two similar works each costing not less than Rs. 9.24 Crores</p> <p style="text-align: center;">OR</p> <p>One similar work of value not less than 80% of the estimated cost put to tender with capacity of individual transformer being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. transformer proposed in NIT. One similar work costing not less than Rs. 12.33 Crores</p> <p>The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.</p>
4	HVAC & BMS System	Rs. 49.10 Crores	<p>Three similar works each of value not less than 40% of the estimated cost put to tender with capacity of individual Chiller being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. Chiller proposed in NIT. Three similar works each costing not less than Rs. 19.64 Crores</p> <p style="text-align: center;">OR</p> <p>Two similar works each of value not less than 60% of the estimated cost put to tender with capacity of individual Chiller being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. Chiller proposed in NIT. Two similar works each costing not less than Rs. 29.46 Crores</p> <p style="text-align: center;">OR</p> <p>One similar work of value not less than 80% of the estimated cost put to tender with capacity of individual Chiller being 80% of individual capacity (rounded off to next available higher capacity) of the equipment i.e. Chiller proposed in NIT. One similar work costing not less than Rs. 39.28 Crores</p> <p>The value of executed works shall be brought to current</p>

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
			costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
5	Fire Fighting System, ETP, Water Supply & Heat Pump	Rs. 11.43 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs.4.57 Crores Or Two similar works each costing not less than Rs. 6.86 Crores Or One similar work costing not less than Rs. 9.14 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
6	Fire Alarm & PA System	Rs. 2.54 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 1.02 Crores Or Two similar works each costing not less than Rs. 1.52Crores Or One similar work costing not less than Rs. 2.03 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
7	Elevators & Escalator System	Rs. 7.86 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 3.15 Crores Or Two similar works each costing not less than Rs. 4.72 Crores Or One similar work costing not less than Rs. 6.29 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
8	LV System	Rs. 27.20 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 10.88 Crores Or Two similar works each costing not less than Rs.16.32Crores Or One similar work costing not less than Rs. 21.76 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
9	Access Control System	Rs. 37 Lakhs	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 0.15 Crores Or Two similar works each costing not less than Rs. 0.22 Crores Or One similar work costing not less than Rs. 0.29 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
10	Medical Gas Pipe system	Rs. 20.91 Crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids: Three similar works each costing not less than Rs. 8.36 Crores Or Two similar works each costing not less than Rs. 12.54 Crores Or One similar work costing not less than Rs. 16.73 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.
11	Nurse Call System	Rs. 2.05 crores	Should have successfully completed the works as mentioned below during the last seven years ending previous day of last date of submission of bids:

Sl. No	Component of E&M Works	Estimated Cost Rs.	Eligibility
			Three similar works each costing not less than Rs. 0.82 Crores Or Two similar works each costing not less than Rs.1.23 Crores Or One similar work costing not less than Rs. 1.64 Crores The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple interest rate of 7% per annum, calculated from the date of completion to the last date of receipt of application for tender.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 7/8 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.cpwd.gov.in. Bidders 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 from the date of start as defined in schedule 'F' 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.
The architectural and structural drawing for the work is available or The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of work.
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 on website www.tenderwizard.com/CPWD or www.cpwd.gov.in free of cost.
6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
7. While submitting the revised bid, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of bid as notified.
8. When bids are invited in three 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.
9. Earnest Money in the form of Treasury Challan or Demand Draft or Pay order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of Executive Engineer, BPD, B-233) shall be scanned and uploaded to the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the

period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT. A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any scheduled bank having validity for six months or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders. Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice 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 press notice shall have to be submitted by the lowest bidder only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order.

9A The contractors registered prior to 01.04.2015 on e-tendering portal of CPWD shall have to deposit tender processing fee at existing rates, or they have option to switch over to the new registration system without tender processing fee any time. The bid submitted shall be opened at 03:30 PM on 11-08-2021.

10. The bid submitted shall become invalid and e-Tender processing fee shall not be refunded if:
- (i) The bidder is found ineligible.
 - (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
 - (iii) 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.
 - (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage 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 Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or 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 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 Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with

bid shall be returned after receiving the aforesaid performance guarantee. 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 and also ensure the compliance of aforesaid provisions by the sub contractors, if any engaged by the contractor for the said work within the period specified in Schedule F.

12. The description of the work is as follows:

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 bidders 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 bidders 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 bidders 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 rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India 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.
14. 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.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer 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 gazetted officer in the Central Public Works Department or in the Ministry of Urban Development. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to

work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.

18. The bid for the works shall remain open for acceptance for a period of sixty (60) days from the date of opening of technical bid in case bids are invited on 2 bid envelop system. 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 Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidders shall not be allowed to participate in the rebidding process of the work.
19. 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 15 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 leading thereto. (b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.
20. For Composite Bids
- 20.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.
- 20.1.2 The bid document will include following three components:
- Part A:-** CPWD-6, CPWD-7/8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2020 as amended/ modified up to
- Part B:-** General / specific conditions, specifications and schedule of quantities applicable to major component of the work. Part C:- Schedule A to F for minor component of the work (competent authority under clause 2 and clause 5 shall be same authority as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.
- 20.1.3 The bidders must associate himself, with agencies as per NIT conditions
- 20.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- 20.1.5 After acceptance of the bid by competent authority, the EE in charge of major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE incharge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH incharge of minor components. One such signed set of agreement shall be handed over to EE/DDH incharge of minor component(s). EE of major component will operate Part A and Part B of the agreement. EE/DDH incharge of minor component(s) shall operate Part C alongwith Part A of the agreement.

20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.

20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

20.1.8 The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-charge of relevant component(s).within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-charge of relevant component(s).

20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of relevant specialized component(s). The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

20.1.10 The main contractor has to enter into MoU with agency(s) associated by him . Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE incharge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.

20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor.

20.1.12A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-charge of major component after record of completion certificate of all other components.

20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

**Executive Engineer,
Health North Maintenance Division, PWD**

**On non-judicial stamp paper of minimum Rs. 100
(Guarantee offered by Bank to CPWD in connection with the execution of contracts)**

Form of Bank Guarantee for Earnest Money Deposit/Security Deposit/Mobilization Advance

1. Whereas the Executive Engineer..... (name of division), CPWD on behalf of the President of India (hereinafter called "The Government") has invited bids under (NIT number)..... dated..... for (name of work)The Government has further agreed to accept irrevocable Bank Guarantee for Rs..... (Rupees only) valid upto (date)* as **Earnest Money Deposit Performance Guarantee/Security Deposit/Mobilization Advance** from (name and address of contractor) (hereinafter called "the contractor") for compliance of his obligations in accordance with the terms and conditions of the said NIT.

OR**

- Whereas the Executive Engineer (name of division), CPWD on behalf of the President of India (hereinafter called "The Government") has entered into an agreement bearing number with (name and address of the contractor) (hereinafter called "the contractor") for execution of work (name of work)The Government has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees only) valid upto (date)..... as **Performance Guarantee/Security Deposit/Mobilization Advance** from the said contractor for compliance of his obligation in accordance with the terms and conditions of the agreement.
2. We, (indicate the name of bank), (herein after referred to as "the Bank"), hereby undertake to pay to the Government an amount not exceeding Rs. (Rupees..... only) on demand by the Government within 10 days of the demand.
3. We, (indicate the name of bank), do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor. 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..... (Rupeesonly).
4. We, (indicate the name of bank), further undertake to pay the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor in any suit or proceeding pending before any Court or Tribunal, our liability under this Bank Guarantee being absolute and unequivocal. The payment so made by us under this Bank Guarantee shall be a valid discharge of our liability for payment there under and the contractor shall have no claim against us for making such payment.
5. We, (indicate the name of bank), further agree that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation here under to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said contractor 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 or for any forbearance, act of omission on the part of the Government or any indulgence by the Government to the said Contractor 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 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.
8. We, (indicate the name of bank), undertake not to revoke this guarantee except with the consent of the Government in writing.
9. This Bank Guarantee shall be valid up to Unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees only) and unless a claim in writing is lodged with us within the date of expiry or extended date of expiry of this guarantee, all our liabilities under this guarantee shall stand discharged.

Date.....

Witnesses:

- | | |
|---|---|
| <p>1. Signature.....
Name and address</p> | <p>Authorized signatory</p> <p>Name</p> <p>Designation</p> <p>Staff code no.</p> <p>Bank seal</p> |
| <p>2. Signature.....
Name and address</p> | |

*Date to be worked out on the basis of validity period of 90 days where only financial bids are invited and 180 days for two/three bid system from the date of submission of tender.

**In paragraph 1, strike out the portion not applicable. Bank Guarantee will be made either for earnest money or for performance guarantee/security deposit/mobilization advance, as the case may be.

ELIGIBILITY CRITERIA

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

Salient details of the work for which bids are invited are as under:

The present tender is for **Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I**, within constructed Architectural parameters. The details are covered in the Tender document.

The briefs scope of work is as follows:

- (i) 10 metre high Barricading the site with complete specifications and structural drawings as per Environment(No payment shall be made for erecting 10 metre high barricading).
- (ii) All services required to make operationable
- (iv) To make the balance existing area habitable all the services shall be modified and diverted.
- (v) Development of area boundary wall, internal roads street lighting, and other amenities required for smart and safe operation.
- (vi) In order to save the trees, care will be done to retain the unexcavated area.

Sl No	Location	Plot Area	No of Beds	No of storeys
1	Shalimar Bagh	7.95 Acres (32,172 Sqm)	1430	(G+3)
2	Kirari	2.71 Acres (11,000 Sqm)	458	(G+4)
3	Sultanpur	2.16 Acres (8747 Sqm)	525	(G+3)

The details of work is as under:-

Description	Parameter
Hospital Building	<ul style="list-style-type: none"> • The Hospital building is proposed hollow MS square/rectangular tubes steel structure with RCC raft/ isolated foundation with RCC deck slab on GI deck sheet. • The Dry wall partition shall be of insulated rockwool wall panels and LGSF system with cladding of cement and gypsum boards for external and Internal Walls. The External Facade will be of ACP cladding and curtain glazing as design feature. • The flooring in the ward shall be 3mm thick vinyl flooring and 4 mm thick vinyl flooring in corridors including 1.2 mtr height dadoing. The wet areas will have vitrified/ceramic tiles. • Adequate area has been provided for General Waiting at all floor levels with adequate toilet facilities. • All the Lifts proposed are Bed Lifts & can accommodate patients, stretcher, trolleys/equipment movement. • Staircases have been provided & located as per National Building Code 2016 for Fire Fighting 'The Travel Distance to the staircase from the dead end of the corridor shall not exceed 30.0 mts) • The cementitious coating will be carried out as water proofing treatment. • Provision has been made for Sewage Treatment Plant (as per Environmental Pollution Control Board) and rain water harvesting pits for water conservation.

vii.	<p>Miscellaneous and Allied works as per norms of NBC 2016 and mentioned in this document:</p> <ul style="list-style-type: none"> (i) Plumbing and Sanitary (ii) External Water Supply and Sewerage, Storm Water Drainage System Rainwater Harvesting including Recharge wells. (iii) Elevators / Lifts. (iv) Electrical Services, HT substation equipment's, LT distribution system, DG Sets, rising mains, UPS, aviation obstruction lights. (v) HVAC, Mechanical Ventilation, Lift Pressurization. (vi) Fire Fighting and Fire Alarm System. (vii) Water Supply and Pumps. (viii) IPCCTV system, Access Control, Gas suppression systems (ix) Queue management & Digital Display system (x) WTP, STP/ ETP & RO, Hot water generation system (xi) Nurse Communication system (xii) Medical Gas Pipeline system (xiii) Site Development and Landscaping including roads, Foot paths. (xiv) STP, Underground water tank with pump house etc. (xv) External Lighting, Landscaping Lighting, Signage, works CCTV. (xvi) External Service Connections.
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- (viii) The general parameters are subjected to change as per Architectural Drawings.
- (ix) The Layout Plan, designs and soil test report, forming part of this NIT are indicative only. There can be changes in the scope of work as per requirement of Local Body, Delhi Fire Services etc. Agency shall carry out such changes which occur due to Building byelaws or statutory requirements.
- (x) The work is to be completed in 5 months, the contractor has to deploy sufficient labour in 3 shifts to complete the work in stipulated period otherwise the agency shall be liable for action under DDMA Act as these are Covid Hospitals and being prepared for possible 3rd wave of Covid Pandemic.

**Executive Engineer,
Health North Maintenance Division, PWD**

SECTION – II

INITIAL CRITERIA FOR ELGIBILITY AND EVALUATION PARAMETERS

1.0 INITIAL CRITERIA FOR ELGIBILITY (FOR NON CPWD REGISTERED AND OTHER EXPERIENCED CONTRACTORS)

1.1 Contractors enlisted in MES, BSNL, other State Government Departments, Autonomous body and other experienced contractors dealing with Building and Roads, who fulfill the following criteria, shall be eligible to next stage i.e. for opening of the financial bids (This is not applicable for CPWD enlisted contractors of appropriate class in composite category)

(a) Should have satisfactorily completed the works as mentioned below during the last Seven years ending last day of month previous day of last date of submission of bids.

(i) Three similar works each costing not less than **Rs. 173 Crores**

or

Two similar works each costing not less than Rs. 259 Crores

or

One similar work costing not less than Rs. 345 Crores

Similar work shall mean works of “Construction of minimum one number RCC/Composite framed/steel structure building including internal electrical installations and MEP Services”.

AND

The CPWD & non-CPWD contractors should have completed One work of at least 500 bedded Hospital/Hospital Building amounting to at least 40% of the estimated cost of this work which can also be part of completed work.

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 the previous day of last date of submission of tenders.

Note-1: Components of work executed other than those included in definition of similar work shall be deducted while calculating cost of similar work.

Note-2: For the purpose, “Cost of work” shall mean gross value of the completed work including the cost of materials supplied by the Government/Client, but excluding those supplied free of cost. This should be certified by an officer not below the rank of Executive Engineer / Project Manager or equivalent.

Note-3: In case the certificate of work experience has been issued by any Pvt. Firm / Agency / Builder, the bidders will have to submit the documentary proof of the TDS (Form -26AS) with income tax department to ensure actual value of work done.

(ii) Should have had average annual financial turnover of Rs. 216 Crores during the immediate last three consecutive financial years ending March-2020/2021 duly certified by chartered Accountant. **(Form-A)**

(iii) The bidder should not have incurred any loss (Profit after tax should be positive) in not more than two year during the last consecutive five financial years ending 31st March 2020/2021. **(Form-A)**

- (iv) Bank solvency certificate of Rs. 173 Crores or networth certificate of Rs. 43 Crores issued by certified Chartered Accountant. **(Form-B/Form-B1)**
- (v) The bidding capacity of the bidder should be equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula:
 Bidding Capacity = {[AxNx2]-B}
 Where, A = Maximum turnover in construction works executed in any one year during the last five years taking into account the completed as well as works in progress (The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum.)
 N = Number of years prescribed for completion of work for which bids has been invited.
 B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.

- 1.2 The bidder should own construction equipment's as per list required for the proper and timely execution of the work. Else, he should certify that he would be able to manage the equipment's by hiring etc. and submit the list of firms from whom the propose to hire.
- 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 employee stating clearly how these would be involved in this work within 15 days of award of work.
- 1.4 The bidder's performance for each work completed in the last Seven Years should be certified by an officer not below the rank of Executive Engineer or equivalent.

Proforma-1**CRITERIA FOR EVALUATION OF THE PERFORMANCE OF CONTRACTORS FOR PRE-ELIGIBILITY**

	Attributes	Evaluation	
(a)	Financial strength (20 Marks) (i) Average annual 16 marks turnover (ii) Solvency 4 marks certificate	(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more In between (i) & (ii)- on pro-rata basis	
(b)	Experience in similar (20 marks) Class of works	(i) 60% marks for minimum eligibility criteria (ii) 100% marks for twice the minimum eligibility criteria or more In between (i) & (ii)- on pro-rata basis	
(c)	Performance on works (20 marks) (time over run)		
	Parameter calculation for points	Score	Max. Marks
	If TOR =	1.00 2.00 3.00 > 3.50	20
	(i) without levy of compensation	20 15 10 10	
	(ii) with levy of compensation	20 5 0 -5	
	(iii) Levy of compensation not decided	20 10 0 0	
TOR = AT/ST, where AT = Actual Time; ST = Stipulated Time + justified period of extension time			

Note: Marks for value in between the stages indicated above is to be determined by straight line variation basis.

(d)	Performance of Works (Quality) (40 marks)
	(i) Outstanding- 40 (ii) Very Good- 30 (iii) Good-20 (iv) Poor- --

SECTION II
INFORMATION & INSTRUCTIONS FOR BIDDERS

1.0 General:

- 1.1 Letter of transmittal and forms for deciding eligibility are given in Section III.
- 1.2 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 or deliberately suppressing the information may result in the bid being summarily disqualified. Bids made by telegram or telex and those received late will not be entertained.
- 1.3 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 Executive Engineer or equivalent.
- 1.4 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.

2.0 Evaluation criteria (Applicable for contractors other than CPWD enlisted contractors of appropriate class in composite category).

- 2.1 The details submitted by the bidders will be evaluated in the following manner:
- 2.1.1 The initial criteria in respect of experience of eligible similar works completed, loss, solvency and financial turn over etc. will first be scrutinized and the bidder’s eligibility for the work be determined.
- 2.1.2 The bidders who qualify the initial criteria will be evaluated for following criteria by scoring method on the basis of details furnished by them.
- | | |
|--|------------------------|
| (a) Financial strength (Form ‘A’ & ‘B’) | Maximum 20 marks |
| (b) Experience in eligible similar nature of work during last seven years (Form ‘C’) | Maximum 20 marks |
| (c) Performance on works (Form ‘D’) – Time over run | Maximum 20 marks |
| (d) Performance on works (Form ‘D’) – Quality | Maximum 40 marks |
| | Total 100 marks |

To become eligible for short listing the bidder must secure at least fifty percent marks in each (section a, b, c & d) and sixty percent marks in aggregate.

The department, however, reserves the right to restrict the list of such qualified contractors to any number deemed suitable by it.

Note: The average value of performance of works for time overrun and quality shall be taken on the basis of performance report of the eligible similar works.

3.0 Financial information (Applicable for contractors other than CPWD enlisted contractors of appropriate class in composite category):

Bidder should furnish the Annual financial statement for the last five year in (Form "A") and solvency certificate in (Form "B")

4.0 Experience of similar works (Applicable for contractors other than CPWD enlisted contractors of appropriate class in composite category):

4.1 Bidder should furnish the following:

- (a) List of eligible similar nature of works successfully completed during the last seven years in (Form "C").
- (b) Performance reports (corresponding to works mentioned in Form "C") in Form 'D'. The performance report should explicitly mention that the work is an RCC framed structure including internal electrical installation. If needed, the bidder may attach a separate certificate in this regard from performance report issuing authority.

5.0 Organisation information (Applicable for contractors other than CPWD enlisted contractors of appropriate class in composite category):

Bidder is required to submit the information in respect of his organization in Forms "E".

6.0 Letter of transmittal (Applicable for contractors other than CPWD enlisted contractors of appropriate class in composite category):

The bidder should submit the letter of transmittal attached with the document.

7.0 Opening of Price bid

After evaluation of Pre-Qualification Documents, a list of short listed bidders will be prepared. Thereafter the financial bids of only 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.

8.0 Award criteria

8.1 The employer reserves the right, without being liable for any damages or obligations 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.

8.2 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.

**SECTION-III
FORMATION REGARDING ELIGIBILITY
LETTER OF TRANSMITTAL**

From:-

To:

**The Executive Engineer,
Health Maintenance Division(North),
PWD (GNCTD),
BSA Hospital, Sector-6, Rohini, Delhi**

Name of work:- Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I

Having examined the details given in **press notice and bid document** for the above work, I/We, hereby submit the relevant information.

1. I / We hereby certify that all the statements made and information supplied in the enclosed form "A" to "G" and accompanying statements are true and correct.
2. I / We have furnished all information and details necessary for pre-qualification and have no further pertinent information to supply.
3. I / We submit the requisite certified solvency certificate and authorize the **Executive Engineer, HMD(North), PWD** to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/We also authorize **the Executive Engineer, HMD(North), PWD, Delhi** to approach individuals, employers, firms and corporation to verify our competence and general reputation.
4. I / We, submit the following certificates as perform 'E' in support of our suitability, technical knowledge and capability for having successfully completed the following works: -

S.N.	Name of work	Certificate from
1.		
2.		
3.		

Certificate: - It is certified that the information given in the enclosed eligibility bid are correct. It is also certified that I / we shall be liable to be debarred, disqualified, cancellation of enlistment in case an information furnished by me / us found to be incorrect.

Enclosures: Seal of Bidder

Date of Submission

SIGNATURE (S) OF BIDDER(S)

FORM-A**FINANCIAL INFORMATION**

1. Financial Analysis - Details to be furnished duly supported by figures in balance sheet / Profit and Loss account for the last five years duly certified by the Chartered Accountant as submitted by the Applicant to the Income - Tax Department (Copies to be attached).

Fig in lakhs Rs.

Sl. No.	Particulars	Financial Year				
		2015-16	2016-17	2017-18	2018-19	2019-20
1	Gross Annual Turnover on Construction Works					
2	Profit/loss					

2. Financial arrangements for carrying out the proposed work.

SIGNATURE (S) OF BIDDER (S)

Signature of Chartered Accountant with Seal

FORM "B"**FORM OF BANKER'S SOLVENCY 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, a customer of our bank are / is respectable and can be treated as good for any engagement up to a limit of Rs.(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 certificate should be on letter head of the bank, addressed to tendering authority(**the Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi**)
2. In case of partnership firm, certificate should include names of all partners as recorded with the bank.

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 Rs. 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

Date and Seal

FORM "C"**DETAILS OF ELIGIBLE SIMILAR NATURE OF WORK COMPLETED DURING THE LAST SEVEN YEARS ENDING PREVIOUS DAY OF LAST DATE OF SUBMISSION OF TENDER**

Sl. No.	Name of work/project and Location	Owner or sponsoring Organization	Cost of work (in Crores)	Date of commencement as per contract	Stipulated date of completion	Actual date of completion	Litigation / arbitration pending / in progress with details*	Name and address (Postal & email)/ telephone no of officer to whom reference may be made	Whether experience of similar work has been executed on back to back basis Yes/No
1	2	3	4	5	6	7	8	9	10

Certified that the above list of works is complete and no work has been left out and that the information given is correct to my /our knowledge and belief.

SIGNATURE (S) OF BIDDER (S)
(WITH STAMP)

***Indicate gross Amount Claimed and Amount Awarded by the Arbitrator**

(FORM-D**PERFORMANCE REPORT OF WORKS TO BE CONSIDERED FOR ELIGIBILITY (REFERRED TO IN FORM C)**

1. Name of Work / Project and Location:
2. Agreement No.
3. Estimated Cost:
4. Tendered Cost:
5. Date of start
6. Date of completion
 - (a) Stipulated date of completion:
 - (b) Actual date of completion:
7. a) Whether case of levy of compensation for delay has been decided or not. Yes / No
b) If decided amount of compensation levied for delay completion if any.
8. Amount of reduced rate items , if any
9. Performance Report:

(i) Quality of Work	:	Outstanding/Very Good/Good/Poor
(ii) Financial Soundness	:	Outstanding/Very Good/Good/Poor
(iii) Technical Proficiency	:	Outstanding/Very Good/Good/Poor
(iv) Resourcefulness	:	Outstanding/Very Good/Good/Poor
(v) General behaviour	:	Outstanding/Very Good/Good/Poor

Dated:

**EXECUTIVE ENGR. OR EQUIVALENT
WITH STAMP**

AE(C)P-I/HEALTH

AE(E)P-II/HEALTH

EE(P)/HEALTH

FORM 'E'**STRUCTURE AND ORGANISATION**

1. Name and address of the bidder
2. Telephone No./Telex No./Fax No.
3. Legal status of the bidder (Attach 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
4. Particulars of registration with various Government bodies (Attach Attested Photocopy)

Organization/Place of Registration**Registration No.**

- 1.
- 2.
- 3.
5. Names and Titles of Directors and Officers with designation to be concerned with this work
6. Designation of individuals authorized to act for the organization.
7. Has the bidder or any constituent partner in case of partnership firm, limited company / joint venture ever been convicted by a court of law? If so, give details.
8. In which field of Civil Engineering Construction, the bidder has specialization and interest?
9. Any other information considered necessary but not included above.

SIGNATURE (S) OF BIDDER(S) WITH STAMP

AE(C)P-I/HEALTH

AE(E)P-II/HEALTH

EE(P)/HEALTH

Form 'G'**Receipt of Deposition of Original EMD****(Receipt no..... / date.....)****Tender ID: 2021_PWD_ 206297_1****Name of work: Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I**

1. NIT No. : **04/CE/Health/PWD/2021-22**
2. Estimated Cost: : Rs. 431,32,08,066/-
3. Amount of Earnest money deposit: : Rs. 4,41,32,081/-
4. Last date of submission of bid : 11/08/2021 at 03:00 PM

(* to be filled by NIT approving authority/ EE at the time of issue of NIT and uploaded along with NIT)

#1.Name of contractor.....

#2.Form of EMD.....

#3.Amount of Earnest Money Deposit.....

#4.Date of submission of EMD.....

Signature, Name & Designation of EMD
receiving officer (EE/AE(P)/AE/AAO)
along with office stamp

(# to be filled by EMD receiving EE)

AE(C)P-I/HEALTH

AE(E)P-II/HEALTH

EE(P)/HEALTH

PUBLIC WORKS DEPARTMENT

Tender for the work of:- Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I

- (i) To be submitted /uploaded by 15:00hours on 11/08/2021 to the **Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital, Sector-6, Rohini, Delhi**, Delhi upload at [www. http://delhigovt.nic.in](http://delhigovt.nic.in)
- (ii) To be opened in presence of tenderers who may be present at 15:30 hours on 11/08/2021 in the office of the **Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi**

Issued to:-uploaded on website [www. http://delhigovt.nic.in](http://delhigovt.nic.in)

Designation **The Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi**

TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F 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 President of India within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

We agree to keep the tender open for **sixty (60) days** from the due date of opening of technical bid and not to make any modification in its terms and conditions.

A sum of **Rs. 4,41,32,081/-** is hereby forwarded 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 as earnest money./A copy of earnest money in receipt treasury challan/deposit at call receipt of a schedule bank/fixed deposit receipt of scheduled bank/demand draft of scheduled bank/fixed deposit receipt of scheduled bank/demand draft of a schedule 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 President of India or his successors, in office shall without prejudice to any other right or

remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that President of India or the successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the performance guarantee absolutely. The said performance guarantee shall be a guarantee to execute all the works referred to in the tender documents upon 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 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or 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 there from 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

Witness:

Postal Address

Address:

Occupation:

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the President of India for a sum of Rs.....(Rupees.....).

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

- (a)
- (b)
- (c)

For & on behalf of President of India

Signature

Designation

Dated:

INTEGRITY PACT

To

.....,
.....,
.....

Sub: NIT No. /CE/Health/PWD/2021-22 for Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I

Dear Sir,

It is here by declared that PWD is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Bid (NIB) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the PWD.

Yours faithfully

Executive Engineer

To,

**The Executive Engineer,
Health North Maintenance Division,
Dr. B.S.A. Hospital ,Sector-6,
Rohini, Delhi**

Sub.: Submission of Tender for Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I

Dear Sir,

I/We acknowledge that PWD is committed to follow the principles thereof as numerated in the Integrity Agreement enclosed with the tender/bid document

I/We agree that the Notice Inviting Bid (NIB) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of Bid documents, failing which I/We will stand disqualified from the bidding process. I/We acknowledge that THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE of this condition of the NIB.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when bid is finally accepted by PWD. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the bid, PWD shall have unqualified, absolute and unfettered right to disqualify the bidder and reject the bid in accordance with terms and conditions of the bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

INTEGRITY AGREEMENT

This Integrity Agreement is made at Delhi on this day of 20.....

BETWEEN

President of India represented through **Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi** (Hereinafter referred as the 'Principal/Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....
(Name and Address of the Individual/firm/Company)

through (Hereinafter referred to as the (Details of duly authorized signatory)

"Bidder/Contractor" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal/ Owner has floated the Tender (**NIT No. /CE/Health /PWD/2020-21** (hereinafter referred to as "Bid") and intends to award, under laid down organizational procedure contract for **The Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi**. Hereinafter referred to as the "Contract"

AND WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Principal/Owner

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- (a) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
- (b) The Principal/Owner shall endeavor to exclude from the Bid process any person, whose conduct in the past has been of biased nature.

- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

- 1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - (a) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - (b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - (c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - (d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
 - (e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.
- 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use

Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/ Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility In question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. Such exclusion may be forever or for a limited period as decided by the Principal/Owner.
- 2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
- 3) Criminal Liability: If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-

contractors/sub-vendors.

- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, PWD.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Head quarters of the Division of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreement have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTSAll rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

.....
(For and on behalf of Principal/Owner)

.....
(For and on behalf of Bidder/Contractor)

WITNESSES:

1.
(Signature, name and address)

2.
(Signature, name and address)

Place:

Dated:

SCHEDULES (A to F)
(For Civil & Electrical Component)

SCHEDULE 'A'

Schedule of quantities (Enclosed) for Civil
& Electrical Works Separate sheet attached

SCHEDULE 'D'

Extra schedule for specific requirement/
document for the work, if any. Nil.

SCHEDULE 'E'

Reference to General Conditions of contract	:	GCC 2020 with amendments issued upto last date of submission of bid.
Name of Work	:	Setting up of Semi-permanent/temporary I.C.U Hospital at Shalimar Bagh(G+3) (1430beds), Kirari (G+4)(458 Beds) and Sultanpuri(G+3)(525 Beds) Package-I
Estimated cost of work	:	Rs. 431,32,08,066/- (Total) Rs.267,45,30,528/- (Civil) Rs.163,86,77,538/- (Electrical)
Earnest Money	:	Rs.4,41,32,081/- (To be returned after receiving performance guarantee)
Performance Guarantee	:	5% of accepted tendered Value
Security deposit	:	2.5 % of accepted tendered value

GENERAL RULES & DIRECTIONS:

Officer inviting tender	:	The Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3	:	See below

Definitions:

2(v) Engineer-in-Charge		
i) Civil	:	The Executive Engineer, Health North Maintenance Division, Dr. B.S.A. Hospital ,Sector-6, Rohini, Delhi or his legal successor or Assignee thereof.
ii) Electrical	:	The Executive Engineer(E), Health Project Electrical Division, Lok Nayak Setu, New Delhi-110002 or his legal successor or Assignee thereof.
2(viii) Accepting Authority	:	CE, Health, PWD, 2 nd floor, MSO Building, Delhi.
2(x) Percentage on cost of materials and Labour to cover all overheads and profits	:	15%
2(xi) Standard Schedule of Rates	:	DSR 2016 Corrected up to last date of submission of bid (for civil work)

DSR 2016 Corrected up to last date of submission of bid
(for Elect. work)

- 2(xii) Department: : Public Works Department
 9(ii) Standard CPWD Contract Form
 GCC 2020 & CPWD form-7 as
 modified & Corrected up to : last date of submission of bid.

Clause 1

- (i) Time allowed for submission of Performance : **7 days**
 Guarantee, programme chart (Time and 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
- (ii) Maximum allowable extension with late fee @ : **07 days**
 0.1 % per day of Performance guarantee amount beyond the period provided in (i) above,

Clause 2

Authority for fixing compensation : SE, Health Circle-II, PWD, (GNCTD)
 under clause 2:

Clause 2A

Whether Clause 2A shall be : No
 applicable

Clause 5

Numbers of days from date of issue : 10 days
 of letter of acceptance for reckoning
 date of start Mile stone(s) as per
 table given below:-

TABLE OF MILE STONE (S)

S.No.	Description of Milestone (% or in Rs)	Time Allowed in days (from date of start)	Amount to be with held in case of non achievement of milestone
1.	Gross Value of Work Done Rs. 1.00 Cr. (for Civil, Electrical, Horticulture) or excavation for raft/strip/isolated footing foundation	7 days	0.20 % of the accepted tendered value.
2.	Gross Value of Work Done Rs. 20.00 Cr. (for Civil, Electrical, Horticulture) or raft/strip/isolated footing/foundation	21 days	0.30 % of the accepted tendered value.
3.	Gross Value of Work Done Rs. 40.00 Cr. (for Civil, Electrical, Horticulture) or upto plinth level and first stage column erection	30 days	0.50% of the accepted tendered value.
4.	Gross Value of Work Done Rs. 80.00 Cr. (for Civil, Electrical, Horticulture) or floor 1 deck slab and floor 2 level beam and 2nd	45 days	0.60% of the accepted tendered value.

	stage column erection		
5.	Gross Value of Work Done Rs. 100.00 Cr. (for Civil, Electrical, Horticulture) or internal and external wall panelling of lower ground floor and floor 2 deck slab and floor 3 level beam erection	60 days	0.80 % of the accepted tendered value.
6.	Gross Value of Work Done Rs. 125.00 Cr. (for Civil, Electrical, Horticulture) or internal finishing of lower ground floor, internal and external of wall panelling of ground floor, floor 3 deck slab and floor 4 level beam erection	75 days	0.90% of the accepted tendered value.
7.	Gross Value of Work Done Rs. 200.00 Cr. (for Civil, Electrical, Horticulture) or internal finishing of ground floor, internal and external of wall panelling of first floor, floor 4 deck slab and floor 5 level beam erection	90 days	1.00 % of the accepted tendered value.
8.	Gross Value of Work Done Rs. 300.00 Cr. (for Civil, Electrical, Horticulture) or internal finishing of first floor and second floor, internal and external of wall panelling of third floor and floor 5 deck slab.	105 days	1.20 % of the accepted tendered value.
9.	Gross Value of Work Done Rs. 350.00 Cr. (for Civil, Electrical, Horticulture) or internal finishing of third floor, internal and external of wall panelling of fourth floor and all E&M services upto fourth floor.	120 days	1.50% of the accepted tendered value.
10.	Gross Value of Work Done Rs. 400.00 Cr. (for Civil, Electrical, Horticulture) or external finishing and all E&M services	135 days	1.50 % of the accepted tendered value.
11.	All Civil, Electrical & Mechanical, Medical, Horticulture work complete in all respect, obtaining NOC from Fire deptt.	150 days	1.50 % of the accepted tendered value.

Time allowed for execution of work : 5 Months

Authority to decide:

- (i) Extension of time : EE, HMD (North), PWD or his successor.
(ii) Rescheduling of mile stones : SE, Health Circle-II, PWD, (GNCTD), BSA Hospital
(iii) Shifting of Date of start in case of delay in handing over of site : SE, Health Circle-II, PWD, (GNCTD), BSA Hospital

PROFORMA OF SCHEDULES Clause 5 Schedule of handing over of site

Part	Portion of site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance		
Part B	Portions with encumbrances		
Part C	Portions dependent on work of other agencies		

Clause 7

Gross work to be done together with net : Civil : Rs. 40 Crore ,
 payment /adjustment of advances for material : Electrical : Rs. 10 Crore
 collected, if any, since the last such payment
 for being eligible to interim payment:

Clause -7A**Applicable**

No running account bill shall be paid for the work till the applicable labour licences, registration with EPFO, ESIC and BOCW Welfare Board, whatever applicable are submitted by the contractor to the Engineer-in-Charge.

Clause 8A

Authority to decide compensation on account : SE, Health Circle-II, PWD, (GNCTD), BSA Hospital
 if contractor fails to submit completion plans.

Clause 10A

List of testing equipment to be provided by : (As per Table 1 given at page no 58 to 59)
 the contractor at site lab

Clause 10B(ii)

Whether Clause 10 B (ii) shall be applicable : Yes

Clause 10C

Component of labour expressed as percent of : **15%**
 value of work

Clause 10CA : **Applicable**

Authority to issue base price of materials : **DG, CPWD**

Sl. No	Material covered under this clause	Nearest Materials (other than cement, reinforcement bars and the structural steel) for which All India Wholesale Price Index to be followed	Base Price & its corresponding period of all Materials covered under clause 10 CA**	
			Base Price Without GST	Corresponding Period
1.	Cement OPC	Nil	Rs. 4688/- per MT	June -2021
2.	Cement PPC	Nil	Rs. 4359/- per MT	June -2021

3.	TMT Reinforcement Steel 500D (Primary producers)	Nil	Rs. 50500/- per MT	June -2021
4.	Structural Steel including MS hollow tubes	Nil	Rs. 52625/- per MT	June -2021

* includes Cement component used in RMC brought at site from outside approved RMC plants, if any.

** Base price and its corresponding period of all the materials covered under clause 10 CA is to be mentioned at the time of approval of NIT. In case of recall of tenders, the base price may be modified by adopting latest base price and its corresponding period.

Clause 10CC

Not Applicable

Clause 11

Specifications to be followed for : CPWD specifications 2019 Vol I and Vol II with upto date execution of work **(for civil work)** correction slip upto the last date of bid submission/ uploading of tender.

Specifications to be followed for : CPWD General Specification for Electrical works execution of work **(for Electrical work)** (Electrical part -1) – 2013 (Internal, Part-II, Part-III, Part-IV, Part-V, Part-VI & Part-VII issued and amended upto date and additional specification of NIT and as per latest National / International standard upto date.

Clause 12

	Type of work	:	Original Work
12.2& 12.3	Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work(Total of 3 schedules)	:	100%
12.5 (I)	Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (Except items mentioned in earthwork subhead of DSR and related items) (Total of 3 schedules)	:	100%
12.5 (II)	Deviation Limit for Items in earth work subhead of DSR and related items(Total of 3 schedules)	:	100%

Clause 16

Competent Authority for deciding reduced rates	:	1. SE, Health Circle-II, PWD, (GNCTD), BSA Hospital 2. CE, Health, PWD, 2nd Floor, M.S.O Building, I.P Estate
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Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site	:	As per Table 2 given at page no.60 to 61
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Clause 19

Clause 19C	authority to decide penalty for each default	EE, HMD (North), PWD
Clause 19D	authority to decide penalty for each default	EE, HMD (North), PWD
Clause 19G	authority to decide penalty for each default Clause	EE, HMD (North), PWD
Clause 19K	authority to decide penalty for each default	EE, HMD (North), PWD

Clause 25

- | | | |
|------|---------------------------------|------------------------------------|
| i) | Conciliator | Pr. Chief Engineer (Projects), PWD |
| ii) | Arbitrator Appointing Authority | Chief Engineer (Other Projects) |
| iii) | Place of Arbitrator | Delhi |

Clause 32**Requirement of Technical Representative(s)& Recovery Rate**

Requirement of Technical staff		Minimum experience (Years)	Designation of Technical staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
Qualification	Number (of Major + Minor Component)			Figures	Words
Graduate Engineer (Major Component)	1	20 (and having experience of one similar nature of work)	Project Manager with Degree in Major Discipline of Engineering	Rs. 60,000/- Per Month per Person	Rs. Sixty Thousand per month per person
Graduate Engineer	2+1	12 (and having experience of one similar nature of work)	Deputy Project Manager	Rs. 40,000/- Per Month Per Person	Rs. Forty Thousand per month per person
Graduate Engineer Or Diploma Engineer	4 + 2	5 or 10 respectively	Project / Site Engineer	Rs. 25,000/- Per Month Per Person	Rupees Twenty-Five Thousand Per Month per person
Graduate Engineer	1 + 1	8	Quality Engineer	Rs.25,000/- Per Person Per Month	Rupees Twenty five Thousand Per Month per person
Diploma Engineer	1	8	Surveyor	Rs.15,000/- Per Person Per Month	Rupees Fifteen Thousand Per Month per person
Graduate Engineer	1+1	6	Project Planning/ Billing	Rs.20,000/- Per Person Per Month	Rupees Twenty Thousand Per Month per person

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma Holder with minimum 10 year relevant experience with a reputed construction company can be treated at par with graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50 % of requirement of degree Engineers.

Note :- For E&M works the associate firm will have to deploy the technical representative having work experience as per site requirement on need basis as per direction of Engineer-in-Charge.

Clause 38

(i)	(a)	Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of (for civil work)	:	Delhi Schedule of Rates 2016 printed by C.P.W.D. with upto date correction slip
		Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of (for Electrical work)	:	Delhi Schedule of Rates 2016 printed by C.P.W.D. with upto date correction slip
(ii)		Variations permissible on theoretical quantities:		
	(a)	Cement		
		For works with estimated cost put to tender not more than Rs. 25 lakh.	:	3% plus/minus.
		For works with estimated cost put to tender more than Rs.25 lakh.	:	2% plus/minus.
	(b)	Bitumen All Works	:	2.5% plus & only & nil on minus side.
	(c)	Steel Reinforcement and structural steel sections for each diameter, section and category	:	2% plus/minus variation.
	(d)	All other materials.	:	Nil

Table - 1**Equipment's for Testing of Materials & Concrete at Site Laboratory**

All necessary equipment for conducting all necessary tests shall be provided at the site in the well furnished site laboratory of minimum size 25 feet X 15 feet by the contractor at his own cost. The following minimum laboratory equipment's shall be set up at site office laboratory:-

Sl. No.	Equipment	Numbers (Minimum at each site)
1.	100MT compression testing machine, electrical-cum-manually operated)	1
2.	Slump cone, steel plate, tamping rod, steel scale, scoop	2
3.	Pumps and pressure gauges for hydraulic testing of pipes	2
4.	Weighing scale platform type 100 Kg capacity	2
5.	Graduated glass measuring cylinder	As per requirement
6.	Sets of sieves of 450mm internal dia for coarse aggregate [100mm, 80mm, 40mm; 20mm; 12.5mm,10mm; 4.75mm complete with lid and	2
7.	Sets of sieves of 200mm internal dia for fine aggregate [4.75mm; 2.36mm; 1.18mm; 600 microns; 300 microns & 150 micron, with lid and	2
8.	Sieve Brushes and sieve shaker capable of 200mm and 450 mm dia sieves, manually operated with timing switch assembly	2
9.	Cube moulds size 70mmx70mmx70mm	12
10.	Cube moulds size 150mmx150mmx150mm	24
11.	Hot air oven temp. Range 50oc to 300oc- sensitivity 1 degree	2
12.	Electronic balance 600gx0.1g., 10kg and 50 kg	2
13.	Physical balance weight upto 5 kg	2
14.	Air Content of concrete testing machine	2
15.	Measuring jars 100ml, 200ml, 500ml	3 nos. each size
16.	Spatula 100mm & 200mm with long blade wooden handle	2
17.	Digital Verniercalipers150 mm , 200mm , 300 mm	3 each
18.	Digital PH meter	2
19.	Digital Micrometer	2
20.	Digital paint thickness meter for steel 500 micron Range	2
21.	GI tray 600x450x50mm, 450x300x40mm,300x250x40mm	2 nos. each
22.	Electric Motor mixer 0.25 cum capacity	1
23.	Digital rebound hammer	2
24.	Screw gauge 0.1mm-10mm, North count 0.05 mm	4
25.	Water testing kit	2

Sl. No.	Equipment	Numbers (Minimum at each site)
26.	Motorized sieve shaker	2
27.	Extra Bottom plates for 15 cm cube mould	10
28.	Standard Vibration Table	2
29.	Concrete temperature measuring thermometer with Brass protection sheath 0- 100 degree centigrade	2
30.	Dial type spring balance preferable with zero correction knob capacity 100 kgs.reading to ½ kg.	2
31.	Counter scale capacity 1 kg and 10 kg	1
32.	Iron Weight of 5 kg, 2 kg, 1 kg, 500 gm, 200 gm, 100 gm	2
33.	Brass Weight of 50 gm, 20 gm, 10 gm, 5 gm, 2 gm, 1 gm	3
34.	Measuring cylinder TPX or Poly propylene capacity 100 ml, 500 ml, 250 ml	2 each
35.	Set of box spanner ratchet	2
36.	Hammer 1lb& 2lb	2
37.	Hacksaw with 6 blades	3
38.	Measuring tape 3 meter, 5 meter, 10 meter, 30 meter	4 each
39.	Shovels& Spade	4
40.	Steel plates 5 mm thick 75x75 cm	2
41.	Plastic or G.I. Buckets 15 ltr, 10 ltr, 5 ltr	6
42.	Any other equipment for site tests as outlined in BIS codes and as directed by the Engineer-in-charge.	As per actual requirement.

Table - 2**PLANT AND EQUIPMENT REQUIRED TO BE OWNED / TAKEN ON LEASE BY THE CONTRACTOR**

Sl. No.	Equipment	Numbers (Minimum at each site)
1.	Building Hoist	1 at each site or as per site requirement.
2.	Tower Crane with 50 m jib length capacity 1.20 ton	1 at each site or as per site requirement.
3.	Mobile tower crane (wheel mounted)	as per requirement at site
4.	Needle Vibrators.	5
5.	Plate Vibrators.	2
6.	Reinforcement cutting machine.	4
7.	Reinforcement bending machine	4
8.	Concrete Pumps	2
9.	DG set (min Capacity 62.5 Kva)	2
10.	Total Station	1
11.	Power driven earth rammer (Soil compactor).	As per requirement
12.	Tractor with trolley.	As per requirement
13.	Welding machine 400 Ampere	As per requirement
14.	Screenner for coarse sand and fine sand	2
15.	Centrifugal mono block water pump	As per requirement
16.	Double steel Scaffolding and staging material	As per requirement
17.	Centring /shuttering with necessary props	As per requirement
18.	Wire binding machine	2
19.	Any other machinery required for completion of the work as per decision of Engineer-in-charge.	As per Actual requirement
20.	Submersible pump (required capacity)	3Nos.
21.	JCB	As per Actual requirement

Note: The above list is only indicative and not exhaustive.

Table – 3

List of mandatory machinery, tools and plants & testing Equipment to be deployed by the contractor at each of the site

Clause- 10 –A & 18

Sl. No.	Equipment	Numbers
1.	Steel/Aluminium Ladder 1.5 m to 8 m.	2 Nos.
2.	Chase cutting machines.	2 Nos
3.	Electrical wire drawing equipment.	2 Set
4.	Torque wrench for nut/bolt/screws.	2 Nos
5.	Conduit die set.	2 Set
6.	Pipe vice.	1 No.
7.	Bench vice.	1 No.
8.	L.T.Megger 500/1000 volts.	1 No.
9.	Tong Tester.	1 No.
10.	Multimeter.	1 No.
11.	Hydraulically operated & hand Operated crimping machine.	1 No.
12.	Earth tester.	1 No.
13.	Portable Ordinary drilling machine.	2 Nos.
14.	Portable Hammer drilling machine.	2 Nos.
15.	Overhead conduit puller.	1 No.
16.	Welding machine	1 No.
17.	Metal Grinding machine (Hand held)	1 No.
18.	Drill machine	1 No.