

The Executive Engineer-Civil, AIIMS Bilaspur H.P. on behalf of the Executive Director ,AIIMS Bilaspur, HP invites online percentage rate bids from the approved and eligible CPWD registered contractors' in appropriate class in Building and Road category or approved & eligible contractors of MES, State PWD's, BRO, Departments'/construction wings of Railways, Defence, Environment & Forests , Information & Broadcasting, Department of Posts/Space, Central Public Sector Undertakings(CPSUs), State Public Sector Undertakings (SPSUs)/Corporations/Development Authorities, Public Sector Banks(CPSBs),Public Sector Insurance Companies(CPSICs), Financial Institutions (FIs), Autonomous Bodies (ABs),Central/State Universities etc. for the work of Additional/Alteration MGPS Related Works in Pediatrics Surgery Ward at First Floor, Block E & Dialysis Unit at AIIMS Bilaspur HP.

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 cost ₹ **868650/-**. This estimate, however, is given merely as a rough guide.

1.1.1 The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

2. Agreement shall be drawn with the successful bidder on the prescribed Form No. CPWD 7 (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 **3 Months** 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.

5. The bid document consisting of building 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–**2023 (with amendment)** can be seen from website <https://eprocure.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 date and time 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 date and time of submission of bid as notified.
8. Earnest Money **₹ 17373/-** 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 Miscellaneous Fund, AIIMS Bilaspur, HP**) shall be scanned and uploaded to the e-tendering website within the period of bid submission.

The original EMD should be deposited in the office of Superintending Engineer-Civil AIIMS Bilaspur H.P. inviting bids within the period of bid submission. The EMD receiving Superintending Engineer-Civil shall issue a receipt of deposition of earnest money deposit to the bidder in the relevant prescribed format (enclosed) uploaded by tender inviting SE Civil AIIMS Bilaspur H.P. in the NIT.

The receipt shall also be uploaded to the e-tendering website by the intending bidder up to 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, 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 90 days or more from last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

9. Copy of Enlistment Order and certificate of work experience along with respective completion certificate 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 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 EMD is received physically before Tender Opening date & Time in the office**

of Executive Engineer(C), AIIMS Bilaspur, HP and other documents scanned and uploaded are found in order.

The bid shall be submitted as per date and time indicated on CPPP.

- 10.** The bid submitted shall become invalid if,
- i) The bidder is found ineligible.
 - ii) The bidder does not upload Treasury Challan/Demand Draft/Pay Order or Banker's Cheque/Deposit at Call Receipt/FDR/Bank Guarantee of any Scheduled Bank against EMD and does not deposit original EMD within prescribed date and time.
 - iii) The bidder does not upload all documents (including GST registration/undertaking as applicable/relevant) and as stipulated in the bid document. (e.g. Valid Enlistment Order of the CPWD registered Contractor in appropriate class of composite (B&R) category or approved & eligible contractors of MES , State PWD's , BRO, Departments' construction wings of Railways, Defence , Environment & Forests , Information & Broadcasting & Department of Posts/Space, Central Public Sector Undertakings(CPSUs), State Public Sector Undertakings (SPSUs)/Corporations/Development Authorities, Public Sector Banks(CPSBs),Public Sector Insurance Companies(CPSICs), Financial Institutions (FIs),Autonomous Bodies (ABs),Central/State Universities etc.)
 - iv) 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 tender opening authority.
 - v) 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 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 **5% (Five Percent)** of the bid amount within the period specified in Schedule F. This guarantee shall be in the form of Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank or Institute 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 shall not be eligible for further tender for a period of one year if after opening of the tender, the contractor withdraws or modify bid during period of validity of tender or after award of work fail to sign the contract or submit performance guarantee before deadline defined in bid document.

12. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent upon 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 bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Institute and local conditions and other factors having a bearing on the execution of the work. In addition to the above, bidders are advised to see for themselves the bridges existing on the approach passage to the site for assessing the position with regard to carriage of building materials and T&P. Nothing extra shall be payable to the successful bidder for any type of existing restricted conditions with regard to the above.
13. The competent authority on behalf of the Executive Director, AIIMS Bilaspur, HP 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 the Executive Director, AIIMS Bilaspur, HP 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 quoted rates.
16. GST or any other tax applicable in respect of inputs procured by the contractor for this contract shall be payable by the Contractor and the Institute (i.e. AIIMS Bilaspur H.P) will not entertain any claim whatsoever in respect of the same. However, component of GST at time of supply of service (as provided in CGST Act 2017) provided by the contract shall be varied if different from that applicable on the last date of receipt of tender including extension if any.
17. The contractor shall not be permitted to bid for works in the office 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 AIIMS Bilaspur, HP or in the Ministry of Health & Family Welfare. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
18. No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Institute (i.e. AIIMS Bilaspur H.P.) is allowed to work as a contractor for a period of one year after his retirement from the institute service, without prior permission of the competent Authority i.e. Executive Director, AIIMS Bilaspur, HP 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 Institute of India as aforesaid before submission of the bid or engagement in the contractor's service.
19. The bid for the works shall remain open for acceptance for a period of **Seventy Five (75) days** from the date of opening of technical bid. If any bidders withdraw his tender 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 Institute shall, without prejudice to any other right or remedy, be at liberty to forfeit 100% of the said earnest money as aforesaid. Further, the bidders shall not be allowed to participate in the retendering process of the work.
20. 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) Form GCC 2023, CPWD Form 7 modified and amended up-to last date of online submission of bids.

For & on behalf of the the Executive Director, AIIMS Bilaspur, HP.

Signature

Superintending Engineer, Civil,
Civil Division, AIIMS Bilaspur,
HP.

**INFORMATION AND INSTRUCTIONS FOR BIDDERS
FOR e-TENDERING**

AIIMS Bilaspur, HP

The Executive Engineer-Civil, AIIMS Bilaspur H.P., on behalf of the Executive Director, AIIMS Bilaspur, HP invites online percentage Rate bids from approved and eligible CPWD registered contractors' in appropriate class in Buildings and Road category and/or approved & eligible contractors of MES, State PWD's, BRO, Departments'/construction wings of Railways, Defence, Environment & Forests, Information & Broadcasting & Department of Posts/Space, Central Public Sector Undertakings (CPSUs), State Public Sector Undertakings (SPSUs)/Corporations/Development Authorities, Public Sector Banks(CPSBs),Public Sector Insurance Companies(CPSICs), Financial Institutions (FIs),Autonomous Bodies (ABs),Central/State Universities etc. for the work:

1	2	3	4	5	6	7	8	9
S.No.	NIT No.	Name of work & Location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date & time of submission of online bid, submission documents as specified in the NIT.	Last date of submission of all the scanned and uploaded documents as specified in the NIT in physical form by the lowest bidder	Time & date of opening of online tender
1	12/SE-C/AIIMS/BLS/2025-26	Additional/Alteration MGPS Related Works in Pediatrics Surgery Ward at First Floor, Block E & Dialysis Unit at AIIMS Bilaspur HP	₹ 868650/-	₹ 17373/-	3 months	As per CPPP	Within one week after the date of opening of financial bid	As per CPPP

- 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 from website <https://eprocure.gov.in> free of cost.

3. The enlistment of the contractors should be valid on the last date of submission of bids.
4. In case only the last date of submission of bid is extended, the enlistment of contractor should be valid on the original date of submission of bids.
5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online tendering process as per details available on the website. The intending bidder must have valid class-III digital signature to submit the bid.
6. Earnest Money can be paid in the form of Treasury Challan or Demand Draft or Pay Order or Banker's Cheque in or Deposit at call receipt or Fixed Deposit Receipts **(drawn in favour of Miscellaneous Fund, AIIMS Bilaspur, HP)** along with Bank Guarantee of any Scheduled Bank wherever applicable.
7. The intending bidder has to fill all the details such as Banker's name, Demand Draft/ Fixed Deposit Receipt/ Pay Order/ Banker's Cheque/ Bank Guarantee number, amount and date to the e-tendering website within the period of tender submission and original should be deposited in the office of EE, Civil, AIIMS Bilaspur, HP within the period mentioned in this NIT.
8. The amount of EMD can be paid by multiple Demand Draft/Pay Order / Banker's Cheque / Deposit at call receipt / Fixed Deposit Receipts along with multiple Bank Guarantee of any Scheduled Bank if EMD is also acceptable in the form of Bank Guarantee.
9. Interested contractor who wish to participate in the bid has also to make following payments in the form of Demand Draft/Pay order or Banker`s Cheque of any Scheduled Bank within the period of tender submission:
 - a) The online bid shall be submitted up to date and time indicated on CPPP.
 - b) The submitted bid shall be opened as per date and time indicated on CPPP.
10. The bid submitted shall become invalid & shall be considered as rejected if,
 - i) The bidder is found ineligible.
 - ii) The bidder does not upload Treasury Challan/Demand Draft/Pay Order or Banker's Cheque/Deposit at Call

Receipt/FDR/Bank Guarantee of any Scheduled Bank against EMD and does not deposit original EMD within prescribed date and time.

- iii) The bidder does not upload all documents (including GST registration/undertaking as applicable/relevant) and as stipulated in the bid document. (e.g. Valid Enlistment Order of the CPWD registered Contractor in appropriate class of composite (B&R) category or approved & eligible contractors of MES , State PWD's , BRO , Departments' construction wings of Railways, Defence , Environment & Forests , Information & Broadcasting & Department of Posts/Space, Central Public Sector Undertakings (CPSUs), State Public Sector Undertakings (SPSUs)/Corporations/Development Authorities, Public Sector Banks(CPSBs),Public Sector Insurance Companies (CPSICs), Financial Institutions (FIs), Autonomous Bodies (ABs), Central/State Universities etc.)
 - iv) 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 tender opening authority.
 - v) 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 tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.
11. But the bid can only be submitted after deposition of original EMD in the office of Executive Engineer-Civil AIIMS Bilaspur H.P, inviting bids within the period of bid submission. The EMD document shall only be issued from the place in which the office of Executive Engineer-Civil AIIMS Bilaspur H.P is situated.
12. List of Documents to be scanned and uploaded within the period of tender 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) Valid Enlistment Order of the CPWD registered Contractor in appropriate class of composite (B&R) category or approved & eligible contractors of MES , State PWD's , BRO , Departments'/construction wings of Railways, Defence , Environment & Forests , Information & Broadcasting & Department of Posts/Space, Central Public Sector Undertakings (CPSUs), State Public Sector Undertakings (SPSUs)/Corporations/Development Authorities, Public

Sector Banks (CPSBs), Public Sector Insurance Companies (CPSICs), Financial Institutions (FIs), Autonomous Bodies (ABs), Central/State Universities etc .

- (iii) Certificate of Registration for GST, if already obtained by the bidder. If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents "if work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any payment by AIIMS Bilaspur H.P, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by AIIMS Bilaspur H.P or GST department in this regard"
- (iv) Copy of receipt of deposition of original EMD in the office of Executive Engineer-Civil, AIIMS Bilaspur H.P.

12. The following conditions which already form part of the tender document are specially brought to the notice of all intending bidders for compliance while filling the tender. They are requested to comply following instructions:

- a) After submission of the bid the contractor can re-submit revised bid any number of times but before last date and time of submission of bid as notified.
- b) 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 date and time of submission of bid as notified.
- c) In case of composite tenders, the contractor submitting the tender should read all the three Parts of the tender viz. Part-A, B & C, which are containing schedule of quantities, additional & special conditions, additional specifications, particular specification and other terms and conditions given in the NIT and drawings for Major as well as Minor component of work. Details of these parts are summarized as under :
 - Part A :-CPWD -6, CPWD – 7 including schedule A to F for major and minor component of the work, Standard General Conditions of Contract for CPWD 2023 as amended/ modified up to last date of submission of bid.
 - Part B :- General/specific conditions & specifications and schedule of quantities applicable to major and minor component of the work.

- Part C :- Schedule of quantities applicable to major and minor component of the work.

d) Tenders with any condition including that of conditional rebates shall be rejected forthwith.

e) GST and Labour-Cess etc. as applicable shall be borne by the contractor himself. The contractor shall quote his rates considering all such taxes and hence their quoted rates should be inclusive of all the tax components.

f) It will be obligatory on part of the Contractor/ Bidder to tender for and sign the tender documents for all the component parts. The institute reserves right to accept tender in full or in part without assigning any reasons.

g) The intending bidder must read the terms and conditions of Form-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

h) The enlistment of the contractors should be valid on the last date of submission of bids. In case the last date of opening of bid is extended, the enlistment of contractor should be valid on the original date of opening of tender.

13. On opening date, the contractor can login and see the bid opening process. After opening of bids, he will receive the competitor bid sheets.
14. Contractor can upload documents in the form of JPG format and PDF format.
15. 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).
16. The required documents meeting the criteria to qualify as "approved and eligible contractors of CPWD or approved & eligible contractors of MES, State PWD's, BRO, Departments'/Construction wings of Railways, Defence, Environment & Forests, Information & Broadcasting & Department of Posts/Space, Central Public Sector Undertakings (CPSUs), State Public Sector Undertakings (SPSUs)/Corporations/Development Authorities, Public Sector Banks(CPSBs), Public Sector Insurance Companies(CPSICs), Financial Institutions (FIs), Autonomous Bodies (ABs), Central/State Universities_ etc." along with other documents as mentioned under para "List of Documents to be scanned and uploaded within the period of bid submission" below, as uploaded

by the agency and hard copies received subsequently shall be checked. The financial bid of only those agencies shall be opened who are found to be eligible agencies, as per this NIT.

- 17 The institute reserves the right to reject any prospective bid without assigning any reason.
18. Information and instructions for contractors for e-tendering forming part of NIT and to be posted on website.
 - (i) Information and instructions for contractors will form part of NIT and to be uploaded on website.
 - (ii) The intending bidder must have class-III digital signature to submit the bid.
 - (iii) The contractor shall obtain the receipt of EMD from the Executive Engineer-Civil AIIMS Bilaspur H.P in the prescribed format uploaded by NIT issuing **authority**. The bid document as uploaded can be viewed and downloaded free of cost by anyone including intending bidder.
19. The online **item**/percentage rate(s) (**as applicable**) must be quoted in decimal coinage. Amount shall be calculated and rounded in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one.
20. The successful bidder shall be required to submit a **Performance Guarantee of 5% (Five percent)** of the contract amount within a period of issue of letter of acceptance as specified in schedule 'F'.
- 27 The contractor shall have to execute guarantee bonds in respect of Stone work, water supply, sanitary installation & drainage works, water proofing works and Aluminium Works (**As applicable**) as per Performa indicated in NIT.
- 28 GST on materials as applicable shall be paid by the contractor himself. The contractor shall quote his rates considering all such taxes.
- 29 Structural Designs and drawings, as well as services Designs and drawings shall be submitted by bidder to Engineer in Charge for issuance.
- 30 Intending bidder may submit physical mile stone on the basis of their resources and methodology at the time of tendering as indicated in the "Schedule F", otherwise it will be assumed that agency is agreeable to mile stones mentioned in the table.

31. Intending bidder may give detailed activities/programme for each mile stone fixed in the tender document while submitting the tender.
32. Recovery rates for less use of materials beyond permissible limits is given in Schedule 'F' of Part-A & also for excess use of departmentally issued material.
33. Information and instruction for e-tendering:
(i) The Executive Engineer-Civil AIIMS Bilaspur H.P should receive the original EMD.
- 34.. Contractors who fulfill the following requirements shall be eligible to apply.
- (i) Joint ventures are not accepted.
- (ii) Should have satisfactorily completed the similar works as mentioned below during the last Seven (7) years ending last day of the month previous to the one in which tenders are invited.
- a. Three similar works each costing not less than **₹ 3.47 lakhs, or**
- b. Two similar works each costing not less than **₹ 4.34 lakhs or**
- c. One similar work costing not less than ₹ **6.94 lakhs**

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

- d. Should have had Average Annual Financial Turnover of **₹ 2.60 Lakhs** on construction works during the last three years ending 31st March 2025 (Scanned copy of certificate from CA with Unique Document Identification Number (UDIN) to be uploaded).The value of annual turnover figures shall be brought to the current value by enhancing the actual turnover figures at simple rate of 7% per annum. (OM No. DG/SOP 2022/07 dated 09.11.2022).
- e. Should have bidding capacity equal to or more than the estimated cost of the work put to tender (**Scanned copy of the original certificate issued by a certified Chartered Accountant to be uploaded**). The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = \{[AxNx1.5]-B\}, \text{ Where,}$$

A = Maximum turnover in construction / maintenance works executed in any one year during the last seven 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 have 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.

f. Should have Financial Soundness as per appendix "A' (in ₹)

(a) Solvent upto ₹ 10.00 lakh

Or

Financially sound for engagement **upto ₹ 25.00 lakh**

(b) Working capital not less than ₹ 5.00 lakh

35. Similar work means work of: - "SITC of MGPS or Modular OTs/ICU/HDU".

Executive Engineer-Civil,
AIIMS Bilaspur , HP

CHECK LIST FOR CONTRACTORS FOR SUBMISSION OF
TENDERS ONLINE:

1. TENDER TO BE WITNESSED AT RELEVANT PAGE OF TENDERED DOCUMENTS AT THE TIME OF DRAWING AGREEMENT WITH THE SUCCESSFUL BIDDER.
2. THE TENDER / TENDERS CONTAINING CONDITIONS CONTRARY TO THOSE SPECIFIED IN THIS DOCUMENT SHALL BE SUMMARILY REJECTED.
3. IN SCHEDULE OF QUANTITIES APPENDED TO THE TENDER DOCUMENTS AT RELEVANT SECTION OF THE SUBJECT TENDER WORK, THE RATES MUST BE FILLED ITEM WISE AS PER THE DETAILS/INSTRUCTIONS INDICATED ON THE SCHEDULE OF QUANTITY PAGE.
4. THE CONTRACTOR(S) SHALL QUOTE THE RATES KEEPING IN MIND, GENERAL CONDITIONS OF CONTRACT OF CPWD WORKS-2023 AS CORRECTED AND AMENDED UPTO DATE, SPECIAL CONDITIONS AND PARTICULAR SPECIFICATIONS, ANNEXURES ETC.
5. CRITERIA FOR ENGAGEMENT OF SPECIALIZED AGENCIES HAVE BEEN LAID AT TENDER/FORM WHICH MAY BE NOTED.
6. SITE TEST REGISTERS & MAS REGISTERS TO BE MAINTAINED BY CONTRACTOR:- ALL TEST REGISTERS AND MATERIAL AT SITE REGISTERS SHALL BE MAINTAINED BY THE CONTRACTOR WHICH WILL BE REVIEWED BY THE OFFICERS OF AIIMS BILASPUR H.P AT REGULAR INTERVALS.

Central Autonomous Institute under MoHFW
AIIMS Bilaspur, HP

STATE:	H.P	CIRCLE:	Engineering Department
BRANCH:	Civil	DIVISION:	Civil
REGION	HP	SUB-DIV.:	-----

ONLINE PERCENTAGE RATE TENDER & CONTRACT FOR WORKS

(A) Tender for the work of: -

Name of Work : Additional/Alteration MGPS Related Works in Pediatrics Surgery Ward at First Floor, Block E & Dialysis Unit at AIIMS Bilaspur HP

- (i) To be submitted online as per date & time on CPPP through website **<https://eprocure.gov.in>** to Executive Engineer-*Civil*, AIIMS Bilaspur, HP
- (ii) To be opened through online in presence of tenderers who may be present as per date and time on CPPP in the office of Executive Engineer-*Civil*, AIIMS Bilaspur, HP.

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 and 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 Executive Director, AIIMS Bilaspur, HP within the time specified in Schedule 'F', viz. Schedule of Quantities and in accordance in all respects with the Specifications, Designs, Drawings 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 respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for **(75) seventy-five days** from the date of opening of tender and not to make any modifications in its terms and conditions.

A sum of **₹ 17,373 /-** is hereby forwarded in Cash / Receipt Treasury Challan / Deposit at Call Receipt of a Scheduled Bank/ FDR of a Scheduled Bank / Demand Draft of a Scheduled Bank / Bank guarantee issued by a schedule bank as earnest money. If I/we fail to furnish the prescribed Performance Guarantee within prescribed period, I/we agree that the said the Executive Director, AIIMS Bilaspur, HP or his successor 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 the work as specified. I/we agree that the Executive Director , AIIMS Bilaspur , HP or his successors in office shall, without prejudice to any other right or remedy available in law, be at liberty to forfeit the said Performance Guarantee absolutely, otherwise the said Performance Guarantee shall be a guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up-to maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 & 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money & Performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work for next 1 year.

I/We undertake and confirm that eligible similar work(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 the institute Engineering Department, then I/we shall be debarred for tendering in

AIIMS Bilaspur, HP 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 Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents, drawings and other records connected with the work as Secret/Confidential documents and shall not communicate information/derived therefrom to any person other than a person to whom I/we am/are may 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: -

Telephone No.

Fax:-

E-Mail:-

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 Executive Director, AIIMS Bilaspur, HP for a sum of Rs..... (Rupees

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

- i)
- ii)
- iii)
- iv)

Dated: -
Executive

For & on behalf of the the
Director, AIIMS Bilaspur , HP.

Signature

SCHEDULE 'A' TO 'F'

SCHEDULE 'A'

Schedule of quantities: Enclosed
attached

As per schedule of work

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

Sr. No.	Description of item	Quantity	Rate figures in & words	Place of at which the material will issue be charged to the contractor
(1)	(2)	(3)	(4)	(1)
<u>-----Nil-----</u>				

SCHEDULE 'C'

Tools and plants to be hired to the contractor

S. NO.	DESCRIPTION	HIRE CHARGES	PLACE OF ISSUE PER DAY
(1)	(2)	(3)	(4)
<u>-----Nil-----</u>			

SCHEDULE 'D'

Extra schedule for specific requirements/ documents for the work, if any. - **As per GCC Maintenance works 2023 & specification attached.**

SCHEDULE 'E'

Reference to General Conditions of Contract. (GCC EPC Projects 2022/GCC Maintenance work 2023/GCC Construction Works 2023.	Applicable GCC is GCC Maintenance works 2023 as amended up to date and as modified and corrected up to previous day of the last date of submission of the tender.
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1.1 Name of Work:-**Additional/Alteration MGPS Related Works in Pediatrics Surgery Ward at First Floor, Block E & Dialysis Unit at AIIMS Bilaspur HP**

- 1.2 Estimated Cost of work : ₹ 8,68,650/-
- 1.3 Earnest Money : ₹ 17373/-
- 1.4 Performance Guarantee : 5.00% of **the** tendered value
- 1.5 Security Deposit **2.5% of the tendered value**
 Or
~~2.5% of tendered value~~
plus 2.5%
~~PG for contract involving~~
~~maintenance of the~~
~~building and~~
~~services / any other work~~
~~also.~~

SCHEDULE 'F':-

General Rules & Directions:-

	Officer Inviting Tender	:	Executive Engineer, Civil AIIMS Bilaspur, HP.
	Definitions:-		
2 (i)	Engineer-In-Charge	:	Executive Engineer, Civil AIIMS Bilaspur, HP.
2 (ii)	Accepting Authority	:	Executive Engineer, Civil AIIMS Bilaspur, HP.
2 (iii)	Percentage on cost of materials and labour to cover all overheads and profits	:	15%
2 (iv)	Standard Schedule of Rates	:	Delhi Schedule of Rates 2025 E&M with up-to-date correction slips & Market Rates.
2 (v)	Department	:	AIIMS Bilaspur, HP
2 (vi)	Standard CPWD Contract	:	Form GCC 2023 , Maintenance work, CPWD Form 7/8 modified and amended up-to last date of online submission of bids.
Clause-1 :-			
(i)	Time allowed for submission of performance guarantee, Program Chart (Time and progress) and applicable Labour		07 days

	licenses, registration with EPFO, ESIC and BOCW Welfare Board or proof of applying thereof from the date of letter of acceptance.		
(ii)	Maximum allowable extension with late fee @ 0.1 % per day of performance guarantee amount beyond the period as provided in (i) above.		4 days (8 th day to 11 th day)
Clause-2:-	Authority for fixing compensation under clause-2.		Superintending Engineer-Civil, AIIMS Bilaspur, HP or his successor.
Clause-2 A	Whether clause-2A shall be applicable. Not Applicable		Not Applicable
Clause-5:-			
(i)	Number of days from the date of issue of letter of acceptance for reckoning date of start	:	11 th days
ii)	Mile Stone.	:	Table of Milestones as given in NIT
(iii)	Time allowed for execution of work	:	12 Months
Authority to decide			
(i)	Extension of time for completion of work.	:	Executive Engineer, Civil AIIMS Bilaspur ,HP.
(ii)	Re-scheduling of Mile stone	:	Superintending Engineer, Civil AIIMS Bilaspur ,HP.
(iii)	Shifting of date of start in case of delay in handing over of site.	:	Superintending Engineer, Civil,AIIMS Bilaspur ,HP.
Clause-6:-	Computerized Measurement Book/ Electronic Measurement Book (CMB/EMB)		CMB (Computerized Measurement Book)/ Physical Measurement Book
Clause-7:-	Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.		₹ 82,836/-
Clause-7A:-	Regarding applicability of labour laws:- Related to Labour licensee, registration		Yes

	of contractor with EPFO, ESIC and BOCW welfare board i/c Provident Fund (Whether clause 7A shall be applicable).		
Clause-10A:-	List of testing equipment to be provided by the contractor at site lab.		All equipments & tools for carrying out the routine tests mandated by the Pollution Control Board/Irrigation & Public Health Dept. of Govt. of H.P and necessitated for ascertaining the quality of treated water at site.
Clause-10-B (ii).	Whether clause 10-B (ii) shall be applicable		No
Clause-10C:-	Component of labour expressed as percent of total value of work.		As per nature and requirement of work.
Clause 10CC:-	Clause 10CC to be applicable in contracts with stipulated period of completion exceeding 12 months		Not Applicable
Clause-11:-	(i) Specifications to be followed for Execution of work		C.P.W.D. Specifications 2022 with up-to-date correction slips (Here in after called CPWD specification) and as per water treatment designer/RO Plant manufacturer specification i/c special conditions & particular specifications attached in NIT.

Schedule of component of other materials, Labour POL etc. for price escalation:-	}	
Component of civil (Except materials covered under clause 10CA construction materials expressed as percent of total value of work.)		Not Applicable
Component of labour expressed as percent of total value of work.		
Component of P.O.L expressed as percent of total value of civil work.		

Note: Xm... % should be equal to (100) - (materials covered under clause 10 CA i.e. Cement, Steel and other material specified in clause 10 CA + Component of Labour + Component of P.O.L.)

Clause-12:- Applicable as per DG/CON/Maintenance 2023/03 dated 18/12/2023 for maintenance/repair work & as per modification issued by Authority of D.G. CPWD vide O.M. No. DG/CON/Construction 2023/03 dated 06/12/2023 for construction work

Type of work : Maintenance work

12.3 Deviation limit beyond which clause 12.3 shall apply for building work: **(All the deviated quantities shall be paid at agreement rates) Applicable as per OM No. (DG/ CON/ Maintenance 2023/03 dated 18/12/2023)**

Clause-16:- Competent Authority for Superintending Engineer, **Civil** Deciding reduced rates. AIIMS Bilaspur, HP **or Successor**

Clause-18:- List of mandatory machinery tools & Plants to be deployed by the Contractor at site **AS PER LIST ATTACHED IN NIT**

Clause 19 C: Authority to decide penalty for each default: Executive Engineer-C
AIIMS
Bilaspur, HP

Clause 19 D: Authority to decide penalty for each default: Executive Engineer-C
AIIMS Bilaspur, HP

Clause 19 G: Authority to decide penalty for each default: Executive Engineer-C
AIIMS
Bilaspur, HP

Clause 19 K: Authority to decide penalty for each default: Executive Engineer-C
AIIMS
Bilaspur ,HP

Clause 25: Constitution of Dispute Redressal Committee:

i)	Chairman	
ii)	Member-1 Member-2	
iii)	Place of Arbitration	Bilaspur, HP

To be constituted by the Executive Director, AIIMS Bilaspur at the time of arisen of disputes if any.

Clause-32 : Requirement of Technical Representative (s) and Recovery Rate

Sr. No	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical Representative	Minimum Experience	Number	Rate at which recovery shall be made from contractor in the event of non-deployment.	
						Figures	Words
.....N.A.....							

Clause-38:-

i) Schedule / Statement for determining theoretical quantity of cement & bitumen

As per Delhi Schedule of Rates 2023 with amendments/correction slips up to last of submission of bids.

ii) Variations permissible on theoretical Quantities.

a) All other materials

----- Nil.

TABLE OF MILE STONE (S)

**Name of work: Additional/Alteration MGPS Related Works
in Pediatrics Surgery Ward at First Floor,
Block E & Dialysis Unit at AIIMS Bilaspur
HP**

Sl. No. of Mile Stone	Description of Milestone (Physical)	Time Allowed (From date of start)	Amount to be withheld in case of non-achievement of mile stone
1.	Work done of value 1/4 th of tendered amount	¼ th of the time period of completion	1.25 % of accepted tendered amount
2.	Work done of value 1/2 th of tendered amount	1/2th of the time period of completion	1.25 % of accepted tendered amount
3.	Work done of value 3/4 th of tendered amount	3/4 th of the time period of completion	1.25 % of accepted tendered amount
4.	Completion of work	Time Period of Completion	1.25 % of accepted tendered amount

ON NON-JUDICIAL STAMP PAPER OF MINIMUM Rs. 100

(Guarantee offered by Bank in connection with the execution of contracts)

FORM OF BANK GUARANTEE

(For Earnest Money Deposit/Performance Guarantee/Security Deposit/Mobilization Advance)

1. Whereas the Executive Engineer.....(name of division)..... AIIMS Bilaspur ,HP on behalf of the the Executive Director , AIIMS Bilaspur , HP (hereinafter called "The Institute") has invited bids under.....(NIT number)..... dated For (name of work) The Institute has further agreed to accept irrevocable Bank Guarantee for Rs(Rupeesonly) valid up to (date)* as Earnest Money Deposit 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), AIIMS Bilaspur, HP on behalf of the the Executive Director , AIIMS Bilaspur , HP (hereinafter called "The Institute") 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 Institute has further agreed to accept an irrevocable Bank Guarantee for Rs. (Rupees.only) valid **up to** (date) as **Performance Guarantee/Security Deposit/Mobilization Advance** from the said Contractor for compliance of his obligations in accordance with the terms and conditions of the agreement.

2. We, (indicate the name of the bank)(herein after referred to as "the Bank") hereby undertake to pay to the Institute an amount not exceeding Rs(Rupees only) on demand by the Institute within 10 days of the demand.

3. We, (indicate the name of the bank) do here by undertake to pay the amount due and payable under this guarantee without any demur, merely on a demand from Institute stating that the amount claimed is required to meet the recoveries due or likely to be 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..... (Rupees only).

4. We, (indicate the name of the bank), further undertake to pay the Institute 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 the bank), further agree that the Institute 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 postpone for any time or from time to time any of the powers exercisable by the Institute against the said contractor and to forbear or enforce any of the terms and condition related 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 Institute or any indulgence by the Institute 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 the bank), further agree that the Institute as 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 Institute may have in relation in the contractor's liabilities.
7. This guarantee will not be discharged due to the change in the constitution of the Bank of the Contractor.
8. We,..... (indicate the name of the Bank)..... Undertake not to revoke this **guarantee** except with the consent of the Institute in writing.
9. The Bank Guarantee shall be valid **up to** unless extended on demand by the Institute Notwithstanding anything mentioned above, our liabilities against the **guarantee** is restricted to Rs..... (Rupees..... Only) and unless a claim in writing is lodged with us within the date of expiry of extended date of expiry

of this **guarantee**, all our liabilities under this **guarantee** shall stand discharged.

Date

Witnesses:

1. Signature
Name and address

Authorized Signatory
Name
Designation
Staff Code No.
Bank Seal

2. Signature
Name and address

*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.

AFFIDAVIT

I /We have submitted a bank guarantee for the work

_____ (Name of work)

Agreement
No. _____ Dated
_____ from

_____ (Name of the Bank with full address)
to _____ the _____ Executive _____ Engineer
_____ with a _____ view

_____ (Name of the Division)

to seek exemption from payment of performance guarantee in cash. This Bank guarantee expires on

_____ . I / We undertake to keep the validity of the bank guarantee intact by getting it extended from time to time at my / our own initiative up to a period of _____ months after the recorded date of completion of the work or as directed by the Engineer in charge.

I / We also indemnify the Institute against any losses arising out of non-encasement of the bank guarantee if any.

(Deponent)
Signature of Contractor

Note : The affidavit is to be given by the Executants before a first-class Magistrate.

**FORM OF SOLVENCY CERTIFICATE FROM THE NATIONALISED/
SCHEDULED BANK**

This is certified that to the best of our knowledge and information Shri/Smt.....having address....., a customer of our bank are/is respectable and can be considered solvent upto Rs..... (Rupees)/financially sound for any engagement upto Rs..... (Rupees). This certificate is issued without any guarantee or responsibility on the bank or any of the officer(s).

(Signature)

**Name, Designation and Personal
Code No of Signatory & Seal of bank
Complete Postal Address,
Telephone No, e-mail ID of Branch**

**FORM OF WORKING CAPITAL CERTIFICATE FROM NATIONALIZED/
SCHEDULED BANK**

This is certified that Shri/Smt.....having address.....has /have been maintaining a Saving Bank Account /Current Account/ Fixed Deposit Account with this Branch of bank since.....and the firm is having working capital of approximately Rs and/ or the firm is enjoying overdraft/credit facilities upto limit of Rs This certificate is issued without any guarantee or responsibility on the bank of any or the officer(s).

(Signature)

**Name, Designation and Personal
Code No of signatory & seal of bank**

Note: In case of partnership firm, certificate shall include names of all partners as recorded with the bank.

Calculation of bidding capacity
Details of Existing Commitments and ongoing works.

S. No.	Name of work/ project and location	Owner or sponsoring organization	Contract value	Date of commencement as per contract	Stipulated date of completion	Up to date percentage progress of work	Remaining work in percentage (100- column 7)	Existing commitment Column 4 x Column 8 /100	Name and address/ telephone number of officers to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10	11

Total (B) =

Maximum turnover in last seven years = Rs.....

Updated value of turnover (A) = Rs.....

No. of years (N) =

Bidding Capacity= {[AxNx1.5]-B} =

Certificate:

I certify that all the awarded and ongoing works have been included in the above list.

Duly Certified by
Chartered Accountant

SAFETY MEASURES AT SITE

- (A) In order to ensure safe work, following shall be adhered for strict compliance at site: -
- (i) The work site shall be properly barricaded.
 - (ii) All field officials and the workers must be provided with safety Helmets, safety shoes and safety belts.
 - (iii) Proper MS pipe scaffoldings with work-platforms and easy-access ladders shall be provided at site to avoid accidents for Working height greater than 3 metre.
 - (iv) Necessary First-Aid Kit shall be available at the site.
- (B) The contractor has to take care of all safety measures required during Execution of work for protection of his own labour. In case of any accident happens in the campus during execution, due to lack of safety measures or any other reason whatsoever, the agency is fully responsible and all the expenses on this account shall be paid to the contractor and AIIMS will not be responsible at all.

General Terms and Conditions

1. Works to be done by the Contractor:

- a. Cutting and making good all damages caused during installation and restoring the same to their original finish.
- b. Sealing of all floor openings provided by him for pipes and cables, from fire safety point of view, after laying of the same.
- c. Painting at site of all exposed metal surfaces of the installation other than pre-painted items like fittings, fans, switchgear/distribution gear items, cubicle switchboard etc. Damages to finished surfaces of these items while handling and erection, shall however be rectified to the satisfaction of the Engineer-in-charge.
- d. Testing and commissioning of complete installation.
- e. The openings/sleeves for the cables, Conduits, Pipes, ducts, rising mains etc. shall be marked in the drawing and provided during construction. No core cutting / openings in walls shall be allowed one the slab is cast or wall is constructed.

Additional Terms & Specific Conditions

1. SCOPE OF WORK

The scope of this specification cover works of Supplying, Installation, Testing and Commissioning of MEDICAL GAS PIPE LINE SYSTEM (MGPS) on turn key job basis including the following:

- Distribution Piping Complete with accessories.
 - Gas Outlets with Probes.
 - Bed Head Panels.
 - Other associated works.
 - Site modifications
 - Control cabling
2. In the above context, the CPWD General Specification for MEDICAL GAS PIPE LINE SYSTEM (MGPS) 2022 lays down general guidelines to ensure safe, efficient, reliable and economical provision and use of MGPS infrastructure.
3. While these Specifications serve as general guidelines, appropriate technical sanctioning authority can depart from such guidelines to meet the particular requirements of any work or for other technical reasons including requirement of hospital authority.
4. This chapter covers the general commercial and technical requirements applicable to works contract for execution of MEDICAL GAS PIPE LINE SYSTEM (MGPS).
5. The site modification works if and as required (particularly for existing sites) shall include all modifications to the built up space provided at the hospital site as those required for the Installation of MGPS equipment, related control and communication systems, civil modifications, electrical works, plumbing works, piping, interiors, Medical Gas Pipe Lines installations, and other related works of the MGPS required for the smooth and efficient functioning. These works shall comply with all relevant safety and standards guidelines. The firm shall be fully responsible for installation, testing and commissioning of all equipment mentioned in the tender complete as required.
6. The following shall be in the scope of the Bidder:-
- Supplying, Installation, Testing and Commissioning of MGPS system and items indicated in the NIT etc. as per technical specification described therein.
 - All piping, cable conduit, trenches and railings wherever required.
 - All electrical accessories like cable wire, electrical outlets, switches, Control panels, etc should be fire rated, of reputed make as stipulated in NIT, certified for electrical safety as per related standards of the item/ service.
 - Testing, Installation and commissioning of all equipment/services.

- Any other necessary work required for satisfactory working/performance of the MEDICAL GAS PIPE LINE SYSTEM (MGPS) and not mentioned/specified otherwise.
7. The MGPS firm shall execute complete work including submission of layout drawings
 8. The contractor, shall carry out necessary modification in civil and electrical components, demolition and other works as may be required for complete installation and trouble-free functioning of the MGPSs.
 9. The MGPS firm shall successfully complete installation, testing and commissioning of all MGPSs along with all equipment included in the scope of MGPS work as per technical specifications of MGPS.
 10. The MGPS firm shall provide factory test certificates for the materials/equipment used for the installation of MEDICAL GAS PIPE LINE SYSTEM (MGPS).
 11. Medical Oxygen, Air (4 Bar, 7 Bar, Vacuum Outlets as applicable pendants shall match with the existing outlet, if any, in the same building/block.
 12. The MGPS firm shall execute all the electrical, mechanical and other works as per latest CPWD Specifications.
 13. RESPONSIBILITY OF CONTRACTOR FOR SITE MODIFICATION (APPLICABLE ONLY FOR STANDALONE MGPS WORK TO BE EXECUTED IN EXISTING BUILDING).
 14. The "Site Modification" work includes all modifications to the built-up space at the hospital site like civil works, electrical works, plumbing works, interior decoration, air conditioning ducting and other related works required for smooth and efficient functioning of the MGPS. These works shall comply with all relevant safety and standards guidelines. The contractor shall be fully responsible for installation and commissioning of all equipment mentioned in the tender. Bidders are strongly advised to visit the site for assessment before the submission of tender offer.
 15. **General Rules & Directions CPWD General Specification for MGPS 2022 including latest amendments**

The MGPS installation shall comply with:

- **CPWD General Specifications for Electrical / Mechanical Works (latest edition)**

16. The contractor shall submit:

- **As-built drawings (hard + soft copy)**
- **Test certificates**
- **Manufacturer's warranties**
- **Operation & Maintenance manuals**

- **Training to hospital/Engg staff**

17. Warranty & Defect Liability

- **Minimum 12 months warranty from date of commissioning**
- **Defect Liability Period as per CPWD contract conditions**
- **Any defect during warranty shall be rectified at no extra cost**

SPECIFICATIONS

S.N.	Item	Specification
1.	Copper pipe	<p>BSI Kite Mark & CE certified Copper Pipes/Tubes : a) Piping specifications Copper pipe shall be as per standard BS: EN 13348:2008/ ASTM B819 standards with required copper fittings Solid drawn, seamless, deoxidized, non-arsenical, half hard (hard can be accepted only for sizes 54mm or more), tempered and degreased copper pipe conforming to the standard. All copper pipes shall be degreased & delivered capped at both ends. The pipes shall be accompanied with manufacturers test certificate for the physical properties & chemical composition.</p> <p>Copper pipe must have reputed third party inspection certificate (Eg. Lloyd's or TUV or SGS). Fittings shall be made of copper and suitable for a working Pressure of up to 17bar and especially made for brazed socket type connections. All valves shall be pneumatically tested for twice the working pressure and factory degreased for medical gas service. Copper fittings shall comply with EN 1254:1 factory degreased and brazing filler metals shall comply with EN 1044. Fitting shall be degreased, individually packed for medical use. The minimum thickness of copper pipes of 35mm and above outer diameter, shall be 1.2mm and the thickness of copper pipes less than 28mm outer diameter, shall be 1mm as mentioned in respective hospital/ site requirement.</p> <p>Installation of piping shall be carried out with utmost cleanliness. Only pipes, fittings and valves that have been degreased and fittings shall be used at site. Pipe fixing clamps shall be of nonferrous or non- deteriorating plastic suitable for the diameter of the pipe. Inert gas welding technique shall be used by passing oxygen Free Nitrogen Gas inside the copper pipes during silver brazing, in order to avoid carbon deposition inside the copper pipes. Only copper-to-copper joints are permitted on site except threaded or flanged joints may be made where pipelines are connected to items such as valves and control equipment. No flux shall be used for joining Copper to Copper joints and on for joints made on site. Copper to copper joints shall be brazed using a 5% silver-copper phosphorous brazing alloy CP104. A total of 5 joints shall be cut out for examination to establish the quality of the joints being made on site. The insides shall be clean and free from oxides and particulate matter and the minimum penetration of the brazing alloy at any point shall be three times the wall thickness of the tube. If the joints examined do not conform to these requirements, then adjacent joints shall be cut out and examined until the extent of faulty workmanship has been made good. Copper-to-brass or gunmetal joints shall only be made under controlled conditions off site. The joints are ordinarily used to join short copper pipe tails to brass, gunmetal or bronze fittings to permit their connection into the pipeline.</p>

		<p>Adequate supports shall be provided while laying pipelines to ensure that the pipes do not sag. Suitable sleeves shall be provided wherever pipes cross through walls / slabs. All pipe clamps shall be non-reactive to copper. After erection, the pipes are to be flushed with dry nitrogen gas and then pressure tested with dry nitrogen at a pressure equal to twice the working pressure or 150 psig, whichever is higher for a period of not less than 24hours.Length and quantity of individual items (Copper pipes, AVSUs, Alarm panels, Isolation valves, Outlets, pendants etc.) are to be provided as per the quantity stated in the NIT. For the EPC contract, the complete layout of different items including copper piping needs to be prepared to meet specific site requirement in conformity to the applicable standards and NIT and submitted for approval of the department and execution taken up accordingly</p> <p>Maximum interval between supports (Horizontal and Vertical) (12mm Pipe - 1.5m, 15mm pipe - 1.5m, 22mm pipe – 2m, 28mm pipe-2m, 35mm pipe-2.5m, 42mm pipe - 2.5m, 54mm pipe - 2.5m, 76mm pipe – 3meter) NOTE: The interval between supports should be as per applicable standards.</p> <p>Painting All the pipes from manifold/plant upto the outlets shall be painted with two coats of synthetic enamel paint and colour codification shall be as per standards followed and with consultation with competent authorities of the hospital/ department.</p> <p>Copper piping should have mechanical properties in accordance with HTM 2022/HTM 02-01 NFPA/DIN. Copper fittings should as per HTM 2022 / HTM 20-01, NFPA. DIN all plastic saddles will have brass / rustless screws.</p>
2.	Pressure gauge	Pressure gauge should be 2" dial with 1/8" BSP male thread connection with 0 to 16 Kg/sqcm dial reading and vacuum gauge should be similar but 0 to 760mmHg dial reading fitted along with isolation valves. All gauges should come with calibration certificate in all respects.

3	Medical gas outlets	<p>Terminal units installed in walls, bedhead trunking, headwalls or fixed pendants shall be connected to the pipeline with a copper stub pipe. Terminal units for vacuum and anaesthetic gas scavenging shall incorporate a 15mm O/D copper stub pipe. Each terminal unit shall consist of a primary valve (or assembly) and shall be permitted to include a secondary valve. The secondary valve shall close automatically to stop the flow of gas (or vacuum, if provided) when the primary valve is removed. These terminal units must be in two fixes to have valve assembly. Front loading type terminals have been designed to have dispense medical gases (or an inlet for medical vacuum) to the secondary equipment (flow meters, surgical tools, suction regulators etc.) at the point of use in hospital operating rooms, Emergency rooms, ICU, general wards, Recovery rooms safely & reliably end is gas specific so that secondary devices cannot be "attached" to wrong gases. When not in use the gas in a non-flowing state with in the outlet, (terminal unit) sealed by "O" ring. The adopter when inserted pushes the poppet inside and gas starts flowing and the sealing is ensured by the "O" ring or seal. The outlet are quick connect type and gas specified is accomplished by "Pin indexing". The outlet should have following features:</p> <ul style="list-style-type: none"> a) Push to insert and press to release mechanism for probes. b) Allows plugging from front. c) Outlets shall be CE Certified d) Self-sealing valve on disengaging the probe (quick disconnect). e) Smooth quite action. f) Non return valve for online servicing / repairing. g) Indexed to eliminate interchangeability of gas services. h) Color coded gas specific front plate. i) Flow rate exceeds the requirement of ISO 9170-1. j) Totally leak proof, safe & easy to operate. k) Configurations possible: surface, flush & bead-head. l) All outlets shall have respective labels. <p>The medical gas terminal units shall conform to HTM 02-01/ISO 7396-1/ISO-7396/NFPA 99 requirements. Terminal units shall be capable of single-handed insertion and removal of medical gas probe.</p> <p>The terminal outlets should comply with ISO 9170-1:2008 certification and latest international standards NFPA 99/ EN 737/ HTM 2022 / HTM 0201/ DIN standards complete in all respects.</p> <p>Additional item: Probe Medical gases outlet compatible probe. Confirming to Terminal units compatible with medical gas probs BS 5682 and designed to BS EN 9170-1</p>
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4	Oxygen flow meter & Humidifier bottle	<p>Anodized aluminum body the Oxygen flow meter should be back Pressure Compensated flow meter for accurate gas flow measurement with following features:</p> <ul style="list-style-type: none"> • Control within a range of 0-15 LPM for use in variety of respiratory therapy gas delivery system • It shall meet strict precision and durability standard. • The flow meter body shall be made of brass chrome plated materials. • The flow tube and shroud components shall be made of clear, impact resistant polycarbonate. • Flow tube shall have large and expanded 0-15 LPM range for improved readability at low flows. • Inlet filter of stainless steel wire mesh to prevent entry of foreign particles <p>It should fully meet and comply HTM 02-01 duly CE marked / NFPA 99C UL listed complete in all respects.</p> <p>The humidifier bottle is made of unbreakable & reusable polycarbonate /polysulfone material autoclavable at 121 degree centigrade .</p>
5	Ward Vacuum Regulator Unit with vacuum collection jar	<p>a) It must consists of the following:-</p> <p>b) a. 1no of Suction Regulator and 1no of 1000 ml polysulfone /polycarbonate collection jar.</p> <p>c) b. Suction regulator (Digital/Analogue): Suction regulator shall be supplied with a safety jar, including and antibacterial filter and an anti-overflow safety device. Shall have wide membrane continuous suction controller with reliability & fine adjustment. It should have plastic body and cover for preventing risk of corrosion</p> <p>d) c. Shall have vacuum levels: 0-750 mm Hg or more</p> <p>e) d. Shall have vacuum gauge fitted with a protective bumper device.</p> <p>f) e. Shall have on/off knob allowing for the quick restoration of a readjusted vacuum level.</p> <p>g) f. Must have central adjustment knob with a color coded for 0 to 750 mm Hg or more. Shall have Polysulfone/ polycarbonate 100cc safety jar, autoclavable at 121° C at 5mins, unbreakable, fitted with an anti-overflow safety device and equipped with antibacterial filter. It shall be totally transparent, to ensure perfect sucked liquid visibility.</p> <p>Vacuum Collection Jar: Shall have Polysulfone/ polycarbonate 1000 ml safety jar, autoclavable at 121° C at 5mins, unbreakable, fitted with an anti-overflow safety device. The Jar capacity must be minimum as required with screw-fit lid Collection jar to be fitted with an extremely simple anti overflow safety device, thereby ensuring easy maintenance. It should be totally transparent to ensure perfect sucked liquid visibility complete in all respect.</p>

		<p>Hose pipe: Hose pipe for connecting to the probe with Suction regulator having length of 3 feet or as per the site/MGPS bed head panel requirement</p>
6	Electrical& Medical bed head panel	<p>The Electrical bed head panel should comply with ISO 7396-1 certification and latest international standards NFPA 99/ EN/ HTM 2022 / HTM 0201/ DIN standards complete in all respects. It has bottom railing design. Material is made of mild steel powder coated colour/ aluminum alloy having thickness of 2 mm thick. Material shall be fire retardant and temperature resistant. Length of 120 cm with 10 number of 15/5A multi- socket, 10 number of 15A switch, 2 number of I/O points, 2 mini MCB 10 Amp. Switch & Socket: <ul style="list-style-type: none"> a) Modular switch & socket with base plate & cover plate. b) It should be screw mount and snap fit mount. c) It should be made of thermoset plastic provide high degree of protection as it doesn't melt or catch fire on heating. d) It should have protective spark shield arrests the arc within the switch housing whereby safeguard the user. The medical gas bed head panel should comply with ISO 7396-1 certification and latest international standards NFPA 99/ EN/ HTM 2022/ HTM 0201/ DIN standards complete in all respects. It has bottom railing design. Material is made of mild steel powder coated colour/ aluminum alloy having thickness of 2 mm thick. Material shall be fire retardant and temperature resistant. Length of 70 cm with provision of 5 medical gases outlets.</p>
7	Medical gas alarm system	<p>The medical gas area alarm shall fully satisfy the HTM 02-01/ ISO 7396-1/ NFPA 99 C requirements and shall be CE Certified . . It should have digital display with 4 digit notified body number. It should be capable of monitoring of medical gases services (as specify in BOQ) by means of pressure sensors which detect deviations from the normal operating limits of either pressure or medical vacuum.</p>
8	High Pressure antistatic rubber tube	<p>It shall be colour coded for individual services i.e. white for Oxygen, Blue for N O and 2 Yellow for Vacuum, Black for air. Antistatic rubber tube shall be as per ISO standards. It shall be Shall be CE Certified or American ETL/ American UL listed.</p>

9	Area Valve Box with valve and pressure gauge	<p>Valve boxes shall be constructed of 18-gauge mild steel/aluminum with powder coated white enamel finish. The valve box shall have a sliding, opaque door with pull ring and clear gauge window. The removable window cannot be replaced when any valve is closed. The frame assembly shall be capable of adjusting for variances in wall thickness up to 1". The window shall conceal piping and mounting screws. Window shall be labeled "Caution Medical Gas Isolation Valves - Close Only in Emergency." Provide clear viewing space in the window to display the gas service, the pressure gauges and the label for areas controlled by the valve. Gas Valve box configuration up to 7 Valves fitting inside the Valve Box. All Medical Gas Valves along with Gauges shall be incorporated with Valve box</p> <p>All wetted parts (except seals and gaskets) shall be brass or copper. Each unit assembly shall be factory tested for gas tightness. Rubber pipe grommets shall be provided to ensure any leaking gas does not escape from the unit into a wall cavity. All visible aluminum surfaces shall be powder coated. Shall be CE Certified .</p>
10	Medical Gas Isolation Valve (Imported)	<p>The Lockable line valves must be degreased and complete valve with stuffed pipe & fittings, factory tested and compliant with applicable standard.</p> <p>a) All Medical Gas Valves shall be specially prepared for oxygen service and shall conform to latest international standard. Valves shall be ball-type, with Teflon seats and adjusting stem packing gland with Teflon stem seal.</p> <p>b) Ball Valves shall operate from the fully open to the fully closed position by manual operation of a lever through 90°. Valve nominal bores shall be equal to the nominal pipework size.</p> <p>c) Furnish and install only valves with factory brazed Copper stub pipes shall be manufactured from medical grade copper pipe to BS EN 13348:2001 which should be Lloyds/SGS/TUV/DNVGL certified or any accredited third-party certified agency.</p> <p>d) Ball valve shall be provided with locking handles.</p> <p>e) All valves shall be cleaned for oxygen, capped and sealed in a polyethylene bag for shipping and storage.</p> <p>f) Apply labels to each valve in the assembly for gas service identification according to manufactures recommendations.</p> <p>g) Medical gas line ball valve assemblies shall be constructed in a two-piece full-bore design with brass body, Teflon ball seals, stem packing seal, stem 'O' ring seal and a hard chrome plated brass ball. Medical gas line ball valves complete with lockable NIST connections.</p> <p>h) Ball Valve sizes 15 to 54mm inclusive shall have flat-face connectors with 'O' ring seals. The 76 to 108mm inclusive shall be flanged and installed with stainless steel bolts, nuts and spring washers with sealing gaskets. PTFE tape or any other thread</p>

	<p>sealing media is not acceptable</p> <p>i) All Medical Gas Valves should be factory tested and certified from OEM. Performance reports (Valve Size, Torque, working pressure and material certification) has to be submit by the bidder on behalf of OEM. CDSCO Licence</p> <p>These should have brass adopter suitable for copper pipe and should be manufactured by an ISO 9001 certified company, duly degreased for use with Oxygen Valves used must be given clear indication of the direction of closing. All valves should be pneumatically tested for twice the working pressure and degreased for medical gas service.</p>
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Recommended Brands

S.N.	Item	Makes / Brand
1.	Oxygen Outlet	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
2.	Oxygen Flow Meter with humidifier bottle	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
3.	Vacuum gas outlet	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
4.	Medical Air (Compressed) outlet	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
5.	High pressure antistatic rubber tube	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
6.	Medical Gas Vacuum Regulator Unit	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
7.	Vacuum Collection Jar 1000ml	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
8.	Medical Grade Copper Pipes/Tubes	Maxflow / Lawton / Rajco / Janya
9.	Area Valve Box with valve and pressure guage	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
10.	Medical Gas Isolation Valve	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
11.	Area Valve Box with valve and pressure guage	MEDIKRAFT/ Aktiv / Altos/ MDD/ PRENIT WORLD/ MEDITEK/ MPS/ PES
12.	PVC insulated FRLS copper wires (1.1kV grade)	RR Kable / Power flex / Finolex / KEI / Havells / L&T/Rallison / Batra Henley
13.	PVC Conduits and associated items (ISI marked) Colour of conduit - Ivory	Universal / Precision / AKG / Avonplast / Clipsal / GM / BEC/Rallison
14.	MS Conduits and associated items (ISI marked)	Bharat / AKG / Clipsal / BEC / RMcom
15.	Modular type switches, Sockets, and associated items	Havells (Crabtree) / Legrand (Arteor) / Schneider (Zencelo plus) / MK (Blenze Plus) / ABB (Cheiron) / L&T (Oris) /Wipro(North-West Platia) / Anchor
16.	Telephone cable/CAT- 6	RR Kable / Power flex / Finolex / KEI / Havells / L&T/Rallison / Anchor
17.	Data Socket	Havells (Crabtree) / Legrand (Myrius) / Schneider (Zencelo plus) / MK (Blenze) / ABB (Cheiron) / MK (Elements) / Anchor

Note : Any other make fulfilling the technical specification of items mentioned in BOQ and established manufacturing during last 5 years in India shall be deemed included in preferred make list.

SCHEDULE OF QUANTITY

Name of work : Additional/Alteration MGPS Related Works in Pediatrics Surgery Ward at First Floor, Block E & Dialysis Unit at AIIMS Bilaspur HP					
S.No.	Description of items	Qty.	Unit	Rate incl. GST (In Rs.)	Amount (In Rs.)
1.0	SITC of Medical Grade Copper Pipe on hanger/support through routing (BSI Kite Mark and CE Compliance Copper Pipes) conforming specifications attached of following sizes:				
1.2	22 mm ODx1 mm thick	224	mtr	1872	419328
2.0	SITC of Line Isolation Valves of following sizes.				
2.2	22mm ball valve	4	Nos.	5075	20300
3.0	SITC of Gas Outlet for Oxygen and conforming specifications attached	4	Nos.	5759	23036
4.0	SITC of Gas Outlet for Vacuum and conforming specifications attached	4	Nos.	5759	23036
5.0	SITC of Gas Outlet for Medical Air 4 Bar and conforming specifications attached	16	Nos.	5759	92144
6.0	SITC of Oxygen Flow meter and conforming specifications attached.	4	Nos.	1987	7948
7.0	SITC of Humidifier Bottle and conforming specifications attached	4	Nos.	936	3744
8.0	SITC of Vacuum Regulator and conforming specifications attached	4	Nos.	3743	14972
9.0	SITC of 600ml collection jar with lid and bracket and conforming specifications attached.	4	Nos.	2663	10652
10.0	SITC of H. P. Rubber Tube for Vacuum	6	Mtr.	808	4848
11.0	Installation of MGPS bed head panel with required modifications for Medical gases outlets 03 Nos installation and commissioning of nurse call system as per the site requirement	4	Nos.	2036	8144
12.0	Monitor Stand (Wall Mounted/Rail Mounted)	4	Nos.	10078	40312
13.0	SITC of Stainless Steel Probes (BS Standard)	32	Nos.	1958	62656
14.0	LS for dismantling and fixing of Gypsum board as per the site requirement for laying copper pipe above ceiling	1	Job	5000	5000
15.0	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
15.1	25 mm	50	Mtr	289	14450
15.2	32 mm	50	Mtr	360	18000

16.0	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
16.1	25 mm	100	Mtr	168	16800
17.0	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
17.1	3 x 4 sq. mm	240	Mtr	222	53280
18.0	Supplying, drawing, Installation, Testing and commissioning of CAT6 UTP LSZH 23AWG Twisted Pair Cable in existing conduit/ on surface, Category 6 Unshielded Twisted Pair, 4 pair should be complied as per UL/ETL verification program for compliance with ANSI/TIA-568.2-D standard. Outer diameter should be in the range of 6.1mm nominal with Operating Temperature Range : -5° to +60°C, Bending Radius : < 4 X Cable Diameter at -5°C ± 1°C and Pulling Force: 11.5Kg etc. complete as required.				
18.1	1 Run of cable	500	Mtr	60	30000
Total (In Rs.)					868650