

The Superintending Engineer, 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. or specialized agency for the work of Annual Operation of MGPS & LMO Tanks at AIIMS Bilaspur H.P.

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 ₹ **29,37,345/-**. 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 **12 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 **₹ 58,747/-** 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 closing date & Time in the EMD Drop box of 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.
 - 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 **(a) 5% (Five Percent) of the bid amount or Estimated cost put to tender (whichever is higher). (b) Where the tendered amount is less than 80% of the estimated cost put to tender, the performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent of the ECPT and the tendered amount** within the period specified in Schedule F. This guarantee shall be in the form of Deposit at Call receipt of any scheduled bank or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. **Performance Guarantee shall remain valid for a minimum period of six months beyond the date of completion of all contractual obligations as per GCC.** 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,
AIIMS Bilaspur, HP.

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR e-TENDERING

AIIMS Bilaspur, HP

The Superintending Engineer, 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. or specialized agency for the work of:

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	2	3	4	5	6	7	8	9
1	003/SE/AIIMS BLS/2026-27	Annual Operation of MGPS & LMO Tanks at AIIMS Bilaspur H.P.	₹ 29,37,345/-	₹ 58,747/-	12 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 EMD drop box 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 EMD drop box of 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) 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"

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 institute reserves the right to reject any prospective bid without assigning any reason.
17. 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.
18. 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.
19. The successful bidder shall be required to submit a **Performance Guarantee (a) 5% (Five Percent) of the bid amount or Estimated cost put to tender (whichever is higher). (b) Where the tendered amount is less than 80% of the estimated cost put to tender, the performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent of the ECPT and the tendered amount** within a period of issue of letter of acceptance as specified in schedule 'F'.
20. 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.

21. GST on materials as applicable shall be paid by the contractor himself. The contractor shall quote his rates considering all such taxes.
22. 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.
23. Intending bidder may give detailed activities/programme for each mile stone fixed in the tender document while submitting the tender.
24. 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.
25. 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 **₹ 11.74 lakhs, or**

b. Two similar works each costing not less than **₹ 14.69 lakhs or**

c. One similar work costing not less than ₹ **23.5 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 **₹ 8.81 Lakhs** on construction works during the last three years ending 31st March 2026 (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:

Bidding Capacity = $\{[A \times N \times 1.5] - B\}$, 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 ₹ 20.00 lakh

Or

Financially sound for engagement upto ₹ 50.00 lakh

(b) Working capital not less than ₹ 7.50 lakh

35. Similar work means work of: - "SITC or Operation and Maintenance of MGPS works".

Superintending Engineer,
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 : Annual Operation of MGPS & LMO Tanks at AIIMS Bilaspur H.P.

- (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 **₹ 58,747/-** 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: -

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

Signature

SCHEDULE 'A' TO 'F'

SCHEDULE 'A'

Schedule of quantities: Enclosed

As per schedule of work attached

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 : Annual Operation of MGPS & LMO Tanks at AIIMS Bilaspur H.P.
- 1.2 Estimated Cost of work : ₹ 29,37,345/-
- 1.3 Earnest Money : ₹ 58,747/-

- 1.4 Performance Guarantee : (a) 5% (Five Percent) of the bid amount or Estimated cost put to tender (whichever is higher).
(b) Where the tendered amount is less than 80% of the estimated cost put to tender, the performance guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent of the ECPT and the tendered amount
- 1.5 Security Deposit : **2.5% of the tendered value**

SCHEDULE 'F':-

General Rules & Directions: -

	Officer Inviting Tender	:	Superintending Engineer, AIIMS Bilaspur, HP.
	Definitions: -		
2 (i)	Engineer-In-Charge	:	Executive Engineer, Civil AIIMS Bilaspur, HP.
2 (ii)	Accepting Authority	:	Superintending Engineer, 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 licenses, registration with EPFO, ESIC and BOCW Welfare Board		07 days

	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 (8th day to 11th day)
Clause-2: -	Authority for fixing compensation under clause-2.		Superintending Engineer, 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.	:	Superintending 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.		₹ 3.10 lakh/-

Clause-7A: -	Regarding applicability of labour laws: - Related to Labour licensee, registration of contractor with EPFO, ESIC and BOCW welfare board i/c Provident Fund (Whether clause 7A shall be applicable).		Yes
Clause-10A: -	List of testing equipment to be provided by the contractor at site lab.		All equipment's & tools for carrying out the routine tests as per OEM recommendations.
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	CPWD General Specifications for Medical Gas Pipeline System (MGPS)-2022	

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 Deciding reduced rates. **Superintending Engineer, Civil 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
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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 **NA**

ii) Variations permissible on theoretical Quantities.

TABLE OF MILE STONE (S)

Name of work: Annual Operation of MGPS & LMO Tanks at AIIMS Bilaspur H.P.

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.

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	Existing commitment Column 4 x Column 8 /100	Name and address/ telephone number of officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

Total (B) =

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

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

No. of years (N) =

Bidding Capacity= {[A x N x 1.5] - B} =

Certificate:

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

(Signature of Bidder(s))

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.

SCOPE OF WORK

1. Scope Coverage

- a. The scope of work shall comprise 24*7*365 Running Operation of the complete Medical Gas Pipeline System (MGPS), including MGPS Manifold Room, MGPS Plant Room, Medical Air Plant, Vacuum Plant, AGSS system, alarm and control panels, area valve boxes, and the entire central pipeline network up to terminal outlets. The scope shall extend to all MGPS equipment installed and operational at site, whether specifically listed or not.
- b. The scope shall also include **operation and routine monitoring of the Liquid Medical Oxygen (LMO) system**, connected to the MGPS, to ensure safe and continuous oxygen supply.
- c. The system shall be maintained in safe, functional, and fully operational condition throughout the contract period and handed over in similar condition upon completion of the contract.
- d. The contractor shall provide a dedicated **24x7 contact phone number and email ID** for receiving complaints and breakdown information. The contact details shall be displayed in the MGPS plant room and shared with all concerned hospital authorities to ensure prompt communication and response.

2. Daily Operation of Medical Gas Pipeline System (MGPS)

The contractor shall ensure continuous operation of the Medical Gas Pipeline System (MGPS) in all patient care and non-patient care areas, including ICUs, OTs, Hospital Blocks A to F, Ayush Block, and any other connected facilities. The scope shall extend to all MGPS equipment existing or installed at any time during the contract period, whether specifically listed or not, covering the entire MGPS infrastructure of the hospital.

The contractor shall ensure uninterrupted supply of Oxygen, Nitrous Oxide, Carbon Dioxide, Medical Air, Vacuum, and AGSS systems at design pressure and flow parameters.

(A) Manifold System (O₂, N₂O & CO₂)

- Check for leakage during operation.
- Monitor inlet and outlet pressures.
- Verify automatic changeover functionality.
- Loading the cylinders as required.
- Monitor reserve/emergency bank readiness.
- Notify breakdown immediately to Engineer-in-Charge.
- Maintain detailed log entries.
- Ensure safe cylinder handling, securing, labelling, and batch validity.

Note: - Emergency reserve shall never fall below safe operating threshold. Immediate replenishment shall be intimated to concerned department for replenishment.

(B) Medical Compressed Air Plant System

- Check compressor changeover operation.
- Monitor system pressure levels.
- Inspect dryer and its changeover.
- Inspect air receiver tank.
- Inspect pre/post filters.
- Check oil level and abnormal vibration/noise.
- Record operating hours.
- Intimate Engineer-in-Charge for preventive maintenance schedule.

Note: - Any abnormal pressure fluctuation or moisture contamination shall be immediately reported and corrective action initiated.

(C) Medical Vacuum Plant System

- Check vacuum pumps for proper functioning.
- Monitor vacuum level and control panel indicators.
- Verify automatic changeover operation.
- Inspect filters and traps.
- Check for abnormal drop in vacuum level.
- Record operational parameters.
- Intimate Engineer-in-Charge for preventive maintenance schedule.
- In case of reduced vacuum level affecting clinical areas, immediate corrective action shall be taken and standby unit activated.

(D) AGSS (Anaesthetic Gas Scavenging System)

- Check AGSS pump performance.

- Monitor control panel.
- Verify changeover system.
- Inspect discharge line for blockage.
- Intimate Engineer-in-Charge for preventive maintenance schedule.
- Ensure proper discharge and no back pressure condition to avoid OT contamination risk.

(E) Medical Gas Lines

- Inspect isolation valves for accessibility and condition.
- Checking the medical gases and medical vacuum lines.
- Check pipelines for leakage or corrosion.
- Verify alarm systems and area valve boxes.
- Ensure pipelines are properly supported and not hanging.
- Any damaged saddle, clamp, or support shall be replaced immediately to avoid mechanical stress.

(F) Gas Outlets, Bed Head Units & Flow Meters

- Inspect bed head panels.
- Check outlet locking mechanism.
- Verify oxygen flow meter functionality.
- Replace O-rings and seating if required.
- Faulty outlets in critical care areas shall be attended on priority within the shortest possible time.

3. Cleaning & Restoration of Choked Lines

Vacuum lines or other pipelines found partially or fully choked shall be cleaned and restored to normal operating condition. Root cause of choking shall be identified and preventive action recommended.

4. Technical Review & Optimization Responsibilities

The contractor shall periodically review the operation and performance of the MGPS and shall implement and recommend necessary measures for:

- Improving operational efficiency
- Optimizing energy consumption
- Ensuring safe and economical utilization of the MGPS
- Reducing breakdown frequency through preventive strategies

5. Log Register & Complaint Handling

The contractor shall maintain complete and updated registers/logbooks for all duties and activities performed by the

deployed manpower. This shall include all operational, preventive maintenance, breakdown, and complaint-handling activities related to the MGPS and LMO systems.

The contractor shall continue and maintain all registers already being maintained at site and shall also maintain separate registers for different categories of work as required, including any additional registers, formats, or records as directed by the Engineer-in-Charge from time to time.

The deployed manpower shall oversee and supervise the operation of all machines and equipment installed in the manifold room, MGPS plant Room. They shall attend complaints from all wards and departments of AIIMS Bilaspur, carry out fitting and removal of oxygen cylinders in the manifold, handle and lift oxygen cylinders safely, ensure 24-hour operation of the plant, and perform any other work related to medical gas supply as assigned by the competent authority or authorized representative of AIIMS Bilaspur.

All registers shall be produced for inspection as and when required by the Engineer-in-Charge or authorized representative.

Daily & weekly tasks by operation & running team:

The following should be checked and any deficiencies or remedial action required should be notified to the authorized person (MGPS).

Daily General Tasks

- a. Check all alarm panels, manifolds and plant visual indicators for correct function, absent displays or damage.
- b. If any manifold is observed to be in operation on its "emergency reserve" bank, replacements for the empty cylinders should be made available immediately.
- c. Check all plant and manifold pressure gauges for abnormal conditions. Check all plant and manifolds for unusual noises, signs of overheating, vibration etc. Check plant oil level.
- d. Check oil levels.
- e. Ensure housekeeping of plant/manifold room.
- f. Record findings in logbook.
- g. Any abnormality affecting oxygen supply shall be escalated immediately.

Weekly General Tasks

- a. Safety notices – check that appropriate notices are clearly displayed in all plant rooms and cylinder stores.
- b. "No smoking" notices – check that they are clearly displayed.

- c. Discharge points/ vents/vacuum/AGS- check that warning notices are clearly displayed.
- d. Check the motor guards are in position and in good repair.
- e. Notices warning of automatic start/stop – check that they are in position and legible.
- f. Check that plant rooms are free from combustible material and with adequate access for maintenance.
- g. Check that all cylinders are properly stored/secured and all batch labels are correct and in date.
- h. Fire extinguishers shall be checked for accessibility and validity.
- i. Functional testing of manifolds, valves, pressure regulators, and alarm systems.

Monthly General Tasks

- a. Tightening and inspection of nuts, bolts, clamps, and supports of MGPS and LMO equipment.
- b. Verification of bearings, gears, motor windings, cable terminations, and electrical connections
- c. Detailed performance assessment of MGPS and LMO-related equipment.

Specific Weekly Tasks – Compressed Air System

- a. Check compressor motor and plant control panels to ensure there are no alarm conditions.
- b. Check and record hours run for each pump.
- c. Clean the cooling surfaces of the intercooler and compressor.
- d. Check the compressed air distribution system for leaks.
- e. Manually open discharge valves on after – cooler and receiver drains and leave open for a few seconds, so that air-flow cleans the drains internally. inform authorized person (MGPS) if more than 0.5 L of liquid is drawn off.
- f. Operate compressor duty selector switch and ensure correct operation by monitoring while compressor is running on line.
- g. Record compressor cut-in and cut-out levels on compressor control panel gauge.
- h. Ensure compressors are left in “auto” mode.
- i. Check dryer control panel to ensure there are no alarm conditions.
- j. Operate dryer selector switch and ensure correct operation by monitoring while compressor is running on line.
- k. Inform the authorized person (MGPS) if any faults are recorded.
- l. Moisture carryover shall be monitored to avoid contamination of medical air.

6. Manpower Deployment, Qualification & Attendance Requirements

- a. All manpower deployed under the contract shall be adequately **trained, technically qualified, and experienced** in the operation and maintenance of the Medical Gas Pipeline System (MGPS) and Liquid Medical Oxygen (LMO) systems.
- b. All operational and maintenance activities shall be carried out strictly in accordance with **OEM guidelines, CPWD General Specifications for MGPS, and instructions issued by the Engineer-in-Charge.**
- c. The contractor shall deploy manpower strictly as per the approved workforce structure:

Sr. No.	Designation	No. of Personnel	Minimum Qualification & Experience
1	Senior Technician	1 No.	B.Tech in Mechanical/Electrical with 1-2 years of relevant experience or Diploma in Mechanical/Electrical with 3-5 years' relevant experience)
2	Oxygen Plant Operator	7 Nos.	ITI in Mechanical/Electrical with 1-2 years of relevant experience

- d. The deployed personnel shall be capable of handling routine operation, preventive maintenance, breakdown maintenance, and emergency response of MGPS and LMO systems.
- e. The Supervisor shall be responsible for overall coordination of maintenance activities, ensuring compliance with safety standards, maintaining records, and liaising with the Engineer-in-Charge and hospital authorities.
- f. The contractor shall provide two sets of uniforms, one pair of safety shoes, and suitable medical gas operation gloves to each deployed employee at his own cost. All personnel entering AIIMS Bilaspur shall wear a clearly identifiable Green Coloured Jacket along with a proper uniform and firm identification badge at all times while on duty.
- g. The contractor shall maintain manual attendance registers, which shall be made available for inspection as and when required.
- h. The decision of the Engineer-in-Charge in respect of manpower deployment, compliance, and recoveries shall be final and binding on the contractor.
- i. The contractor shall be responsible to reinstate and make good any damage done by his workmen/ transport etc. to existing buildings etc.

7.Operation, Monitoring & Emergency Management of LMO System

- a. The scope of work shall include **operation and routine monitoring of the Liquid Medical Oxygen (LMO) system** connected to the Medical Gas Pipeline System (MGPS), to ensure safe, continuous, and uninterrupted oxygen supply to the hospital.
 - b. The contractor shall be responsible for **day-to-day operation and monitoring** of the LMO system, including:
 - Monitoring of LMO tank levels
 - Observation of pressure parameters
 - Checking vaporizers and control valves
 - Monitoring alarm systems and control panels
 - Ensuring proper functioning of safety devices
 - c. LMO tank levels, pressure readings, and alarm status shall be recorded regularly in the designated logbook.
 - d. Any abnormal condition, including low-level indication, abnormal pressure fluctuation, leakage, alarm activation, or equipment malfunction, shall be **immediately brought to the notice of the Engineer-in-Charge or authorized hospital official.**
 - e. In the event of any emergency related to the LMO system, the contractor shall:
 - Attend the emergency immediately
 - Take prompt corrective action to stabilize the system
 - Ensure continuity of oxygen supply through safe operational measures within the scope of the contract
 - Inform the Engineer-in-Charge / authorized official without delay
 - Record the incident, cause, and corrective action taken in the logbook
 - f. The contractor shall ensure that emergency response actions prioritize uninterrupted oxygen supply to critical care areas such as ICUs, OTs, and emergency wards.
8. The MGPS Plants of this institute can be inspected on any working day during this period by Engineer in Charge of AIIMS Bilaspur.
 9. AIIMS Bilaspur, HP at it's discretion have the right to issue passes to control the admission of contractor, his agents and work people to the site of work or any part thereof. The Contractor shall on demand by the Engg-In-Charge submit list of the persons, shall produce PVR (Police Verification Report) of the manpower while working inside the AIIMS and satisfy the Engineer- In- Charge as to the confides of such people. Passes shall be returned at any time on demand by the Engineer-In-Charge or the authorities concerned and in every case on completion of work.

General & Compliance

- a. The work shall be executed to the complete satisfaction of the Competent Authority and strictly in accordance with the instructions issued by the Engineer-in-Charge from time to time.
- b. The contractor shall adhere to the **CPWD General Specifications for Medical Gas Pipeline System (MGPS)–2022**, including all amendments. These specifications provide the framework for safe, efficient, reliable, and economical operation of MGPS infrastructure, and all works under this contract shall conform to the same to ensure patient safety and system integrity.
- c. The vendor will provide dress for winters (2 sets including jackets) and for summers 2 set, safety shoes and additionally as per the requirement at site
- d. No dismantled material will be taken back from the contractor and it will be property of the contractor.
- e. Sub-letting of work is not allowed.
- f. Routine filter cleaning and other general preventive dusting/cleaning of the MGPS related equipment's of Manifold & Plant room.
- g. Checking and ensure that all digital and analogue MGPS gauges and alarms are operational at all the times. Providing of the Minor spares for the same is in the scope of the respective vendor and nothing extra shall be paid to the contractor.
- h. Minor MGPS related consumables i.e. O rings for outlets, fuse for digital alarms, chargeable AAA batteries and charger for the same

etc is inclusive in all respect in the rate quoted by the respective vendor.

INVENTORY

Sr. No.	ITEM OF WORK		INTERVAL OF TEST
1	OXYGEN MANIFOLD: 04 No. With Control Panel 4x40 Make-M/s Pneumatech Model: – PureGas MCS O2	Physical examination and rectification of any leakage, calibration of gauge, overhauling if required.	Yearly
6.1	Regulator High Pressure	Functional Testing, rectification if any leakage	Half Yearly
6.2	Regulator Low Pressure	Functional Testing, rectification if any leakage	Half Yearly
6.3	Pressure Switch and Gauge	Functional Testing, calibrating, replacement if necessary.	Yearly
6.4	Filter	Check and Clean	Yearly
6.5	Auto Change Over	Functional Testing	Yearly
6.6	N.R.V.	Check & Clean and servicing	Half Yearly
6.7	Tail Pipe with brass Nut & Nipple	Physical examination and replacement if required	Quarterly
6.8	Left & Right Cylinder Bank	Check & Clean and rectification if leakage	Weekly
7	OXYGEN MANIFOLD EMERGENCY: 01 No. With Control Panel 1x20 Make-M/s Pneumatech Model: – PureGas MCS O2	Physical examination and rectification of any leakage, calibration of gauge, overhauling if required	Yearly
		Functional Testing	Yearly
8	NITROUS OXIDE MANIFOLD: 01 No. With Control Panel 1x20 Make:- M/s Pneumatech Model: – PureGas MCS N2O	Physical examination and rectification of any leakage, calibration of gauge, overhauling if required.	Yearly
8.1	Regulator High Pressure	Functional Testing, rectification if any leakage	Half Yearly
8.2	Regulator Low Pressure	Functional Testing, rectification if any leakage	Half Yearly
8.3	Pressure Switch and Gauge	Functional Testing, calibrating, replacement if necessary.	Yearly
8.4	Filter	Check and Clean	Yearly
8.5	Auto Change Over	Functional Testing	Yearly
8.6	N.R.V.	Check & Clean and servicing	Half Yearly
8.7	Tail Pipe with brass Nut & Nipple	Physical examination and replacement if required	Quarterly
8.8	Left & Right Cylinder Bank	Check & Clean and rectification if leakage	Weekly
9	NITROUS OXIDE EMERGENCY: 01 No (1x10) Make:- M/s Pneumatech	Physical examination and rectification of any leakage, calibration of gauge, overhauling if required	Yearly

	Model: – PureGas MCS N2O	Functional Testing	Yearly
10	CARBON DIOXIDE MANIFOLD: 01 No. With Control Panel 1x12 Make:- M/s Pneumatech Model: – PureGas MCS CO2	Physical examination and rectification of any leakage, calibration of gauge, overhauling if required.	Yearly
10.1	Regulator High Pressure	Functional Testing, rectification if any leakage	Half Yearly
10.2	Regulator Low Pressure	Functional Testing, rectification if any leakage	Half Yearly
10.3	Pressure Switch and Gauge	Functional Testing, calibrating, replacement if necessary.	Yearly
10.4	Filter	Check and Clean	Yearly
10.5	Auto Change Over	Functional Testing	Yearly
10.6	N.R.V.	Check & Clean and servicing	Half Yearly
10.7	Tail Pipe with brass Nut & Nipple	Physical examination and replacement if required	Quarterly
10.8	Left & Right Cylinder Bank	Check & Clean and rectification if leakage	Weekly
10	CARBON DIOXIDE EMERGENCY: 01 No (1x4) Make:- M/s Pneumatech Model: – PureGas MCS CO2	Physical examination and rectification of any leakage, calibration of gauge, overhauling if required	Yearly
12	Master Alarm System	Functional Testing	Daily
13	ENTIRE CENTRAL PIPELINE SYSTEM OF O2,N2O, CO2 Vacuum & Compressed Air up to terminal end and different type of saddle	Physical examination, Check the Pipeline leakage at different area and plastic saddle, if broken, replaced it. It should be insure that pipeline are properly fixed and should not be hanging.	Daily
		Painting & colour coding if required	Yearly
14	OUT LET POINT(OXYGEN)	Physical examination of leakage, proper pressure, replacement of 'O' Ring , Seating & fixing or complete replacement if required.	Daily
15	OUT LET POINT (N2O)	Physical examination of leakage, proper pressure, replacement of 'O' Ring , Seating & fixing or complete replacement if required.	Daily
16	OUT LET POINT (CO2)	Physical examination of leakage, proper pressure, replacement of 'O' Ring , Seating & fixing or complete replacement if required.	Daily
17	OUT LET POINT (AIR)	Physical examination of leakage, proper pressure, replacement of 'O' Ring , Seating & fixing or complete replacement if required.	Daily
18	OUT LET POINT (VACUUM)	Physical examination of leakage, proper pressure, replacement of 'O' Ring , Seating & fixing or complete replacement if required.	Daily

		.	
19	OUT LET POINT (AGSS)	Physical examination of leakage, proper pressure, replacement of 'O' Ring , Seating & fixing or complete replacement if required. .	Daily
20	AREA VALVE BOXES	Physical examination of leakage, pressure gauge, valve and electric supply	Half Yearly
21	Oxygen Regulator Double stage 02 Nos.	Physical examination of leakage and rectification, replacement of 'O' Ring, seating and pressure gauge	Yearly

Note:

The above **Schedule of Work and equipment-wise maintenance activities are indicative in nature and provided for general understanding only.** The scope of work shall **not be limited to the items, quantities, makes, models, or maintenance intervals listed above,** and shall extend to **all Medical Gas Pipeline System (MGPS) equipment, systems, accessories, and components actually installed and operational in the Hospital,** whether or not specifically mentioned herein, in accordance with the **Approved Scope of Work and CPWD General Specifications for MGPS–2022.**

PLANT, MACHINERY AND THEIR EQUIPMENT FOR OPERATION

Sr. No.	Details of Equipment's (Make, Model, Year of Purchase)	Quantity
1	Pentaplex medical Compressed air plant Make:- M/s ATLAS COPCO Model: – ZT22	02 sets
2	Quadruplex medical vacuum plant Make:- M/s BUSCH Model: – RA 0630 C 401	02 sets
3	Duplex AGSS plant Make:- PNEUMATECH, Model:- AGS-288D 50Hz	05 sets
4	AIR DRYER Make:- M/s ATLAS COPCO,	02 No.
5	ELECTRICAL CONTROL PANEL	04 No.
6	OXYGEN MANIFOLD 01x40 with Automatic Manifold Control System Make:- M/s pneumatech, Model: – PureGas MCS O2	04 No.
7	OXYGEN MANIFOLD EMERGENCY (1x20) Make:- M/s Pneumatech Model: – PureGas MCS O2	01 No.
8	NITROUS OXIDE MANIFOLD with Control Panel 01x20 Make:- M/s Pneumatech Model: – PureGas MCS N2O	01 No.
9	NITROUS OXIDE EMERGENCY (01x10) Make:- M/s Pneumatech Model: – PureGas MCS N2O	01 No.
10	CARBON DIOXIDE MANIFOLD with Control Panel 01x12 Make:- M/s Pneumatech Model: – PureGas MCS CO2	01 No.
11	CARBON DIOXIDE EMERGENCY (01x04) Make:- M/s Pneumatech Model: – PureGas MCS CO2	01 No.
12	LIQUID MEDICAL OXYGEN (LMO) - 20000L Make:- M/s Cryogas Equipment Private Limited Model: – VCT 20/17	02 No.
13	ENTIRE CENTRAL PIPELINE SYSTEM OF O2, CO2, N2O, LMO, AGSS, Vacuum & Compressed Air up to terminal end inclusive of different type of outlet point, area valve boxes, main & area alarm system.	-
14	Oxygen Flow Meters (BPC) F.A. Valves, Ward Suction Units, Oxygen and Vacuum Regulators and all type of tubing	
15	Vacuum tank (3000 Litres) Make:- M/s Abbott & Co. (Newark) Ltd	6 No.
16	Compressed Air Tank (2000 litres) Make:- M/s Abbott & Co. (Newark) Ltd	6 No.
17	Gas Cylinders of following types:- Oxygen Cylinders of B Type Oxygen Cylinders of D Type Nitrous Oxide Cylinders of D Type CO ₂ Cylinder of D Type	-

Note: The above inventory is **indicative in nature**. The contractor shall be responsible for operation and maintenance of **all MGPS equipment installed at site**, irrespective of whether the same is included in the above list.

REQUIREMENT OF TOOLS AND SPARE PARTS

(Also additional tools as per the site requirement to be provided by the contractor and nothing extra shall be paid for the same)

Sr. No	Description	Make	Qty
1	LADER	-	1 NO
2	SCREW DRIVER	PIE/TAPARIA	2 NOS
3	COMBINATION PLIER	PIE/TAPARIA	2 NOS
4	NOSE PLIER	PIE/TAPARIA	2 NOS
5	LOCK PLIER	PIE/TAPARIA	2 NOS
6	ELEN KEY SET	-	2 NOS
7	TORCH	-	2 NOS
8	TEFLONE TAPE	-	20 NOS
9	DIGITAL CLAMP MULTIMETER	-	1 NO
10	INSULATION TAPE	-	5 NOS
11	SPANNER SET (6-32 MM)	PIE/TAPARIA	1 NO
12	SOCKET SET (10-32 MM)	PIE/TAPARIA	1 NO
13	SLIDE WRENCH 12"	PIE/TAPARIA	1 NOS
14	SLIDE WRENCH 8"	PIE/TAPARIA	1 NOS
15	TESTER PEN	PIE/TAPARIA	2 NOS
16	AMPARE TAPE	-	2 NOS
17	SAFETY GLOVES	-	10 PAIR
18	GASKET FOR LMO	-	1 SHEET
19	SPINDLE KEY	-	2 NOS
20	SPANNER 25x28	-	2 NOS
21	Measuring tap 5 mtr.	-	1Nos
22	Bosch 3-cylinder Pump Easy Aquatak 100 Bar 1100-Watt water Jet Spray or Pump for coil Cleaning	Bosch	1 No.
23	VACUUM CLEANER HEAVY DUTY	-	1 No.
24	Housekeeping Tools & Consumables		Whole job

Note: in the above table where makes are not mentioned tools provided must be of make and conforming ISO standard of the respective tool

The contractor will have to arrange his own T & P required for the work. The department will not arrange any T & P and nothing shall be paid on this account.

Schedule of Quantity						
Annual Operation of MGPS & LMO Tanks at AIIMS Bilaspur H.P.						
	a	b	c	d	e	f
Sr. No.	Type of Employees	Type of Labor	No. of Employees	No. of working days in a year	Minimum wages per day (as per MoLE, Govt. of India for C Area, as on 30.09.2026 i.e.: (Basic) + (VDA)) (in ₹)	Wages per annum (in ₹) c*d*e
<p>Labour component - Tenders having quoted rates below the prescribed minimum wages and statutory provisions under Header 'A' (Even if it is less by ₹1/-) will be rejected.(Higher between the minimum wages declared by central Govt. or HP State Govt).</p> <p>For Labour component , the institute shall compensate the contractor for any increase in minimum wages as prescribed by the Chief Labour Commissioner (Central) , Ministry of Labour & Employment from time to time and the associated liabilities like Bonus , PF and ESI components shall also be compensated accordingly.</p>						
1	Senior Technician (B. Tech. in Mechanical/ Electrical with 1-2 years of relevant experience or Diploma in Mechanical/ Electrical with 3-5 years' relevant experience)	Highly Skilled	1	312	933	291096
2	Oxygen Plant Operator (ITI in Mechanical/ Electrical with 1-2 years of relevant experience)	Skilled	7	312	794	1734096
4	Total Cost of Supervisor & Labour per annum - (A)					2025192
5	Bonus @8.33% - Yearly salary x 8.33% Bonus (Payable only for employees receiving salary up to ₹21,000/- per month or any amount specified by authority from time to time) (In Rs)					144450.20
6	"EPF + EDLIS @13% (12.5% EPF +0.5% EDLIS includes admin. Charges) on 'calculated for 8 (Total Employees) x 25000 (Monthly ceiling) x 12 months x 13% EPF Contribution (Subject to maximum ceiling of 25000 salary per month or any amount specified by EPFO from time to time)"					263274.96
7	ESIC @3.25% - Yearly salary x 3.25% ESIC (Payable only for employees receiving salary up to ₹21,000/- per month or any amount specified by ESIC from time to time) (In Rs)					56358.12
8	Total amount for Header-A (Labour Component) per annum i.e., Sum of 4 to 7 including 18% GST					2937345
9	Total amount including necessary tools & tackles for running operation & Minor spares for operation of MGPS system like consumable O rings for outlets, fuse for digital alarms, chargeable AAA batteries and charger for the same etc., Contractor Profit Overhead, stationery items, Uniform and safety accessories to workers to be quoted above in percentage (%) on amount under Header "A" as Sr. No. (8) above					

Digitally signed by Ashish Patyal
Date: 2026.10.29 10:33:53 IST
Location: eProcure-EPROC