



आरोग्यम् सुख सम्पदा

ALL INDIA INSTITUTE OF MEDICAL SCIENCES RAIPUR

OFFICE OF
THE SUPERINTENDING ENGINEER
PROJECT CELL AIIMS, RAIPUR

NOTICE INVITING TENDER

N.I.T. NO: 04/SE/AIIMS/2015-16

NAME OF WORK: - Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur.

**ESTIMATED COST
PUT TO TENDER:** Rs. 1,59,598/-

EARNEST MONEY: Rs. 3,200/-

TIME ALLOWED: 01 (One) Month

Certified that this document contain **67** printed pages including this cover page.

Issued to & Submitted by: _____
E-mail id: _____

Approved

Assistant Engineer (Civil)
AIIMS RAIPUR

INDEX

Name of Work:: **Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur .**

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Certified that this bid document contains pages **1 to 66 (One to Sixty Six)** excluding front and back cover page and of Part –A, Part –B and Part –C).

This N.I.T. is approved for **Civil ₹ 1,59,598/-** (Rupees **One Lac Fifty Nine Thousand Five Hundred Ninety Eight** only).

PRESS NOTICE

The **Assistant Engineer (C)**, Project Cell AIIMS, Raipur invites on behalf of AIIMS, Raipur offline Item rate tenders from approved and eligible contractors including registered in CPWD, MES, BSNL, Chhattisgarh State PWD and Railway for the following work at office of SE Project Cell, AIIMS Raipur.

Sl. No.	NIT No.	Name of work & Location	Estimated cost	Earnest Money	Period of Completion	Time & Date of submission of Tender	Time & Date for Opening Of Technical & Eligible Credential	Fancial bid opening will be intimated to the eligible bidder.
1	2	3	4	5	6	7	8	9
1	04/SE/AIIMS/2015-16	Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Traum a ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur.	₹ 1,59,598/-	₹ 3,200/-	01 (One) Month	Upto 3:00 PM on 28-01-2016	3:30 PM on 28-01-2016	By e-Mail Only

The tender forms and other details can be seen/downloaded from the website www.aiimsraipur.edu.in and same may be issued from the office of The Superintending Engineer, Project Cell AIIMS, Raipur during the hours of 10.00AM to 5.00PM every day except on Sunday & public holiday upto **28-01-2016**, on submission of the following :-

- i) **Rs. 500/-** in form of treasury Challan / Banker's cheque Deposit at Call Receipt of a Scheduled Bank / Fixed Deposit Receipt of a Scheduled Bank / Demand Draft of a Scheduled Bank issued in favour of **"AIIMS Raipur"** as cost of tender (non refundable) .

- ✓ The enlistment of the contractors should be valid on the last date of sale of tenders.
- ✓ In case only the last date of sale of tender is extended, the enlistment of contractor should be valid on the original date of sale of tenders.
- ✓ In case both the last date of receipt of application and sale of tenders are extended the enlistment of contractor should be valid on either of the two dates i.e. the original date of sale of tenders or on the extended date of sale of tenders.
- ✓ The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.

**Assistant Engineer (C),
AIIMS Raipur**

IMPORTANT INSTRUCTIONS TO TENDERERS WHO HAVE DOWNLOADED THE TENDER DOCUMENT FROM WEB

The tenderers who have down loaded the tenders from the web, should read the following important instructions carefully before actually quoting the rates & submitting the tender documents:-

The tenderer should see carefully & ensure that the **complete tender document** including schedule of quantity as **per the index** given on page **'1'** has been down loaded & there **are 66 pages** in all in the tender document.

The printout of tender document should be taken both side on A4 size paper only & the printer settings etc are such that document is printed as appearing in the web & there is no change in formatting, number of pages etc.

The tenderer should ensure that no **page** in the down loaded tender document is **missing**.

The tenderer should ensure that all pages in the down loaded tender document are **legible & clear** & are printed on a good quality paper.

The tenderer should ensure that **every page** of the down-loaded tender document is **signed by tenderer with stamp (seal)**.

The tenderer should ensure that the down loaded tender document is properly **bound and sealed** before submitting the same. The loose / spiral bound and/or not properly sealed tenders shall be rejected out-rightly.

In case of any correction/addition/alteration/omission in the downloaded tender document, it shall be treated as non-responsive tender and shall be rejected.

The tenderer shall furnish a declaration to this effect that no addition/ deletion/corrections have been made in the tender document submitted and it is identical to the tender document appearing on Web-site.

The tenderer should read carefully & **sign the declaration** given on the page **No.04** before submitting the tender.

The **cost of tender** should be submitted along with the EMD as detailed in NIT.

In case of any doubt in the down loaded tender, the same should be got clarified from (Tender inviting authority) before submitting the tender.

Contractor

**Assistant Engineer (C),
AIIMS Raipur**

D E C L A R A T I O N

(TO BE GIVEN BY THE TENDERERS WHO HAVE DOWNLOADED THE TENDER DOCUMENT FROM THE WEB)

It is to certify that:

- 1) I / We have submitted the tenders in the Performa as downloaded directly from the website & there is no change in formatting, number of pages etc.
- 2) I/ We have submitted tender documents which **are same / identical** as available in the website.
- 3) I / We have **not made any modification / corrections / additions etc** in the tender documents downloaded from web by me / us.
- 4) I / We have checked that **no page is missing** and all pages as per the index are available & that all pages of tender document submitted by us are **clear & legible**.
- 5) I / We have **signed (with stamp) all the pages** of the tender document before submitting the same.
- 6) I / We have sealed the tender documents properly before submitting the same.
- 7) I / We have submitted the **cost of tender** along with the EMD.
- 8) I / We have provided our Valid e-Mail id for any communication in this regard.This E-mail Id will be activated till the contract is on
- 8) I have read carefully & understood the important instructions to the all tenderers & to tenderers who have down loaded the tenders from the web.
- 9) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, AIIMS RAIPUR shall have the absolute right to take any action as deemed fit without any prior intimation to me / us.
- 10) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, the tender / work will be cancelled and Earnest Money/ Security Deposit will be forfeited at any stage whenever it is so noticed. The department will not pay any damages to me / us on this account.
- 11) In case at any stage later, it is found there is difference in our downloaded tender documents from the original, I / We may also be debarred for further participation in the tender in the concerned office of The Superintending Engineer, Project Cell, AIIMS RAIPUR & would also render me / us liable to be removed from the approved list of contractors of the Department.

Date.....
E-Mail:_____

Contractor
(Sign with Seal)

All India Institute of Medical Sciences Raipur
Notice Inviting Tender

1 Item rate tenders are invited on behalf of AIIMS Raipur from approved and eligible contractors including registered in CPWD, MES, BSNL, Chhattisgarh State PWD, Railways for the work of **“Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur”**. 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 one component Civil Cost of ₹ **1,59,598/-** This estimate, however, is given merely as a rough guide.

1.1.1 The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NITs for calling the bids. He will also nominate Division which will deal with all matters relating to the invitation of bids.

For composite bid, besides indicating the combined estimated cost put to bid, should clearly indicate the estimated cost of each component separately. The eligibility of bidders will correspond to the combined estimated cost of different components put to bid.

1.2 Intending bidders is eligible to submit the bid provided he has definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

Criteria of eligibility for issue of tender documents

1.2.1 Condition for bidders which are not registered (in CPWD, MES, BSNL, & Chhattisgarh State PWD, Railways) **contractors only,**

(i) The Applicant should have Experience of having successfully completed works in any govt. semi govt & PSU's during the last (07) **SevenYears** ending previous day of last date of submission of tender:

(a) Three similar completed works costing not less than the amount equal to 40% of estimated Cost Put to tender,

or

(b) Two similar completed works, costing not less than the amount equal to 60% of the estimated Cost put to tender,

or

(c) One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost.

“Similar works means “Providing and fixing Aluminium partition works”, Installation testing and commissioning of submersible pump.

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 last date of receipt of tenders.

2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD 8 which is available at the **Office of the Superintending Engineer, AIIMS Raipur**. Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.

i. General conditions of contract for works in ALL INDIA INSTITUTE OF MEDICAL SCIENCES RAIPUR are also available in the **Office of the Superintending Engineer, AIIMS Raipur**. Contractors should go through the different clauses of **“CPWD General Conditions of Contract 2014”** corrected up-to-date before quoting the rates.

3. The time allowed for carrying out the work will be **01 (One) Month** 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. (i) The site for the work is available.

~~OR~~

~~The site for the work shall be made available in parts as specified below:-~~

=====

~~(ii) The architectural and structural drawing for the work is available.~~

~~OR~~

(ii) The architectural and structural drawings shall be made available in phased manner, as per requirement of the same as per approved programme of completion submitted by the contractor after award of the work.

5 The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website www.aiimsraipur.edu.in free of cost.

6 Cost of Tender along with Earnest Money in the form of Treasury Challan or Demand Draft or Pay Order or Banker's Cheque or Deposit at Call Receipt or Fixed Deposit Receipt of a Scheduled Bank (drawn in favour of **AIIMS, Raipur**) shall be submitted with the tender in a separate envelop.

~~A part of earnest money is acceptable in the form of Bank Guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Scheduled Bank having validity for six months or more from the last date of receipt of bids which is to be submitted by the intending bidders.~~

Note: Money due to contractor in any other work or earnest money of the previous call of the same work shall not be adjusted towards earnest money.

7 Tenders, which should always be placed in sealed envelope, in the manner detailed at Para 8 below, will be received by the **Office of the Superintending Engineer, AIIMS Raipur** up to 15.00 Hrs on **28-01-2016** and will be opened by him or his authorized representative in his office on the **same day at 15.30 Hrs.** After opening the main envelope 3, the **envelope-1 containing the Cost of Tender along with Earnest Money** as applicable and eligibility credentials shall be opened first. **The envelope 2 containing tender** shall be opened only for those tenderers who's Earnest Money, cost of tender and eligibility is found in order.

The unopened tenders shall be returned to the tenderers after the final decision on the tender is reached

8 Submission of tender: -Tender shall be submitted in following manner:

The tender document can be purchased / downloded from office of SE, Project Cell AIIMS Raipur website www.aiimsraipur.edu.in/tenders.

8.1 In case the tender document is down loaded from AIIMS Raipur website

8.1.1: "Cost of Tender along with Earnest Money and copies of documents showing eligibility credentials" shall be placed in sealed **envelope-1**. Marked

“Cost of Tender along with Earnest Money and eligibility credentials”.

8.1.2: The Tender shall be placed in **sealed envelope-2** and will be superscripted as **“Tender”**.

8.1.3: The sealed envelopes 1 & 2 shall be placed in another sealed envelope no3.

8.1.4 **All the three envelopes shall be superscripted with following data on it.**

(i) Name of work

(ii) Name of tenderer

(iii) Last date of receipt of tender & time.

8.2 In case the tender document is purchased from Office of the Superintending Engineer, AIIMS Raipur

8.2.1: "Proof for paying the cost of tender document along with Earnest Money and copies of documents showing eligibility credentials" shall be placed in **sealed envelope-1**. Marked

“Proof for paying the cost of tender along with Earnest Money and eligibility credentials”.

8.2.2: **Envelope no-2 will be as per para 8.1.2.**

8.2.3: **The sealed envelopes 1 & 2 shall be placed in another sealed envelope no3.**

8.2.4 **same as 8.1.4**

Note: In case the eligibility credentials are not found in order at any stage i.e. before award of work or during execution of the work or after completion of the work, the contractor will be debarred from tendering in AIIMS RAIPUR for three years including any other action under the contract or existing law.

9. The bid submitted shall become invalid and tender cost shall not be refunded if:
 - (i) The bidder is found ineligible.
 - (ii) The bidder does not submit all the documents (including service tax registration/VAT registration / Sales Tax registration) as stipulated in the bid document including the undertaking about deposition of physical EMD with the tender.
10. 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 (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The Earnest Money deposited along with bid shall be returned after receiving the aforesaid performance guarantee.
11. Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is

practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The bidder shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

12. The competent authority on behalf of the AIIMS Raipur 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.
13. 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.
14. The competent authority on behalf of AIIMS Raipur reserves to himself the right of accepting the whole or any part of the bid and the bidder shall be bound to perform the same at the rate quoted.
15. The contractor shall not be permitted to bid for works in the AIIMS Raipur responsible for award and execution of contracts, in which his near relative is posted as 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 Raipur. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
16. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
17. The bid for the works shall remain open for acceptance for a period of sixty (60) days from the date of opening of bids. If any bidder withdraws his bid before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the bid which are not acceptable to the department, **then the Government/AIIMS shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the bidder shall not be allowed to participate in the re-bidding process of the work.**

18. 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) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable
19. **For Single Bid or ~~Composite Bids~~**
- 19.1.1 The Executive Engineer in Charge of the major component will call bids for the composite work. The Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.
- 19.1.2 The bid document will include following three components:
- Part A:- Press Tender Notice, CPWD-6, CPWD-7/8 including Standard General Conditions of Contract for CPWD, 2014 as amended / modified upto CON/282.
- Part B:- Particular Specifications and Special conditions, specifications and schedule of quantities as applicable to major component of the work.
- Part C:- Schedule A to F for minor component of the work. (SE/EE in charge of major component shall also be competent authority under clause 2 and clause 5 as mentioned in Schedule A to F for minor components). Special Conditions, additional terms & conditions, specifications and schedule of quantities applicable to minor component(s) of the work.
- 19.1.3 The bidder must associate with himself, agencies of the appropriate class eligible to bid for each of the minor component individually.
- 19.1.4 The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.
- 19.1.5 After acceptance of the bid by competent authority, the SE/EE incharge of major component of the work shall issue letter of award on behalf of the AIIMS Raipur. After the work is awarded, the main contractor will have to enter into one agreement with SE/EE in charge of major component and has also to sign two or more copies of agreement depending upon number of EE' s in charge of minor components. One such signed set of agreement shall be handed over to SE / EE in charge of minor component. EE of major component will operate Part A and Part B of the agreement. SE / EE in charge of minor component(s) shall operate Part C along with Part A of the agreement.
- 19.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.
- 19.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of work.
- 19.1.8 The main contractor has to associate agency(s) for minor component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-Charge of minor component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-Charge of minor component(s).

- 19.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in-charge of minor component. The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-Charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.
- 19.1.10 The main contractor has to enter into agreement with contractor(s) associated by him for execution of minor component(s). Copy of such agreement shall be submitted to SE / EE in charge of each minor component as well as to SE / EE in charge of major component. In case of change of associate contractor, the main contractor has to enter into agreement with the new contractor associated by him.
- 19.1.11 Running payment for the major component shall be made by SE/ EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-charge of the discipline of minor component directly to the main contractor.
- 19.1.12(A) The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer -in -charge of major component after record of completion certificate of all other components.
- 19.1.12(B) Final bill of whole work shall be finalized and paid by the SE/EE of major component. Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

INTEGRITY PACT

To,

Sub: NIT No. **04/SE/AIIMS/2015-16** for the work of **Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur .**

Dear Sir,

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

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

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

Yours faithfully,

Assistant Engineer (C)
AIIMS Raipur

To,

The Assistant Engineer (C),

Project Cell, AIIMS Raipur

Sub: Submission of Tender for the work “**Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur .**”

Dear Sir,

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

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

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

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

Yours faithfully

(Duly authorized signatory of the Bidder)

**To be signed by the bidder and same signatory competent / authorised to
sign the relevant contract on behalf of AIIMS Raipur.**

INTEGRITY AGREEMENT

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

BETWEEN

AIIMS Raipur through Superintending Engineer,..... ,

(Name of Division)

AIIMS,..... , (Hereinafter referred as the

(Address of Division)

'Principal / Owner', which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

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

through.....(hereinafter referred to as the

(Details of duly authorized signatory)

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

Preamble

WHEREAS the Principal /Owner has floated the Tender (NIT No. **04/SE/AIIMS/2015-16**) (hereinafter referred to as “**Tender/Bid**”) and intends to award, under laid down organizational procedure, contract for Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur. Here in after referred to as the “**Contract**”.

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

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

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

Article 1: Commitment of the Principal / Owner

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - (c) The Principal / Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC) / Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal / Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

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

- 1) It is required that each Bidder / Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s) / Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal / Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

The Bidder(s) / Contractor (s) will not enter with other Bidder (s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

- b) The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s) / Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- c) The Bidder(s)/ Contractor(s) of foreign origin shall disclose the names and addresses of agents / representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
 - d) The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose (with each tender as per performa enclosed) any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract
- 3) The Bidder(s) / Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 4) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a willful misrepresentation or omission of facts or submission of fake / forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
- 5) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his / her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

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

1) If the Bidder (s) / Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/ Contractor(s) from the Tender process or terminate /determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal / Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**

2) **Forfeiture of EMD / Performance Guarantee / Security Deposit:**

If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder / Contractor.

3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of Indian Penal code (IPC)/Prevention of Corruption Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holding listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.

- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

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

- 1) The Bidder(s) / Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder / Contractor shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub-contractors/sub-vendors.
- 2) The Principal / Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal / Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

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

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

Article 7- Other Provisions

1. This Pact is subject to Indian Law, place of performance and jurisdiction is the **Head quarters of the Division** of the Principal / Owner, who has floated the Tender.
2. Changes and supplements need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
4. Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

- 5. It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this **Integrity Agreement/ Pact or interpretation** there of shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTS

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

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

(For and on behalf of Principal/Owner)

(For and on behalf of Bidder/Contractor)

WITNESSES:

- 1. (Signature, name and address)
- 2. (Signature, name and address)

Place: -

Dated: -

ALL INDIA INSTITUTE OF MEDICAL SCIENCE RAIPUR
Tender & Contract for Works

Tender for the work of : Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur

- (i) To be submitted by 03.00 PM hours on **28-01-2016** to The Superintending Engineer, AIIMS, Raipur.
- (ii) To be opened in presence of tenderers who may be present at 03.30 PM hours on **28-01-2016** in the office of The Superintending Engineer, AIIMS, Raipur.

Issued to.....

Signature of officer issuing the documents

Designation.....

Date of Issue

T E N D E R

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

I/We hereby tender for the execution of the work specified for the AIIMS Raipur 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.

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

A sum of ₹ **3,200/-** is hereby forwarded in Receipt Treasury Challan/ Deposit at Call Receipt of a Scheduled Bank/ Fixed Deposit Receipts of a Scheduled Bank/ Demand Draft of a Scheduled Bank/ Bank Guarantee issued by a Scheduled Bank as **earnest money**. A copy of the earnest money in Receipt Treasury Challan/ Deposit at Call Receipt of a Scheduled Bank/ Fixed Deposit Receipts of a Scheduled Bank/ Demand Draft of a Scheduled Bank/ Bank Guarantee issued by a Scheduled Bank is submitted with tender. If I/We, fail to furnish the prescribed performance guarantee within prescribed tender, I/we agree that the said **The Superintending Engineer, Project Cell, AIIMS Raipur** or his successors, in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that **The Superintending Engineer, Project Cell, AIIMS Raipur** or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely. The said Performance Guarantee shall be guarantee to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the tender form. **Futher, I/we agree that in case of forfeiture of earnest money or performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.**

I/We 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 Department, then I/We shall be debarred for tendering in AIIMS Raipur in future forever. Also, if such a violation comes to the notice of Department before date of start of work, The Engineer – in – Charge shall be free to forfeit the entire amount of Earnest Money Deposited / 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 authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated #.....

Signature of Contractor#

Postal Address#

e-Mail id#

Witness : #

Address: #

Occupation : #

To be filled in by the contractor/witness as applicable

ACCEPTANCE

The above tender (as modified vide letters mentioned hereunder) is accepted by me for and on behalf of the AIIMS Raipur for a sum of ₹. _____ *

(Rupees _____ * _____)

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

a) *

b) *

c) *

For & on behalf of the AIIMS Raipur.

Signature.....

Designation.....

Dated *

FORM OF EARNEST MONEY DEPOSIT (BANK GUARANTEE BOND)

WHEREAS, contractor (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated (date) for the construction of (name of work) (hereinafter called "the Tender")

KNOW ALL PEOPLE by these presents that we (name of bank) having our registered office at (hereinafter called "the Bank") are bound unto (Name and division of **Assistant Engineer (C)** (hereinafter called "the Engineer-in-Charge") in the sum of Rs. (Rs. in words) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this day of 20...

THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
 - (a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required; OR
 - (b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor.

We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of first written demand, without the Engineer-in-Charge having to substantiate his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date.* after the deadline for submission of tender as such deadline is stated in the Instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE

SIGNATURE OF THE BANK

WITNESS

SEAL

(SIGNATURE, NAME AND ADDRESS)

PARTICULAR SPECIFICATIONS
&
SPECIAL CONDITIONS

1. GENERAL

- 1.1 Wherever any reference to any Indian Standard Specifications of BIS or other International standards of ASTM / BS/EN occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
- 1.2 The contractor shall work according to the programme of work as approved by the Engineer-in-charge, for which purpose, the contractor shall submit a programme of the work within 15 days from the stipulated date of start of the work based on computer software such as MS Project etc. and shall update the same every fortnight. The contractor shall submit monthly progress report of the work in a computerized form. The progress report shall contain the following, apart from whatever else may be required as specified :
- (i) Project information, giving the broad features of the contract of the work under the contract, and the broad structural or other details.
 - (ii) Introduction, giving a brief scope of the work under the contract, and the broad structural or other details.
 - (iii) Construction schedule of the various components of the work through a bar chart for the next three quarters (or as may be specified), showing the milestones, targeted tasks and upto date progress.
 - (iv) Progress chart of the various components of the work that are planned and achieved, for the month as well as cumulative upto the month, with reasons for deviations, if any, in a tabular format.
 - (v) Plant and machinery statement, indicating those deployed in the work, and their working status.
 - (vi) Man-power statement, indicating individually the names of all the staff deployed in the work, along with their designations.
 - (vii) Financial statement, indicating the broad details of all the running account payments received upto date, such as gross value of work done, advances taken, recoveries effected, amounts withheld, net payments, details of cheque payments received, etc.
 - (viii) A statement showing the extra and substituted items submitted by the contractor, and the payments received against them, items pending for sanction/decision by the Department, broad details of the Bank Guarantees, indicating clearly their validity periods, broad details of the insurance policies taken by the contractor, if any, the advances received and adjusted.
 - (ix) Progress photographs, in colour, of the various items/components of the work done upto date, to indicate visually the actual progress of the work.
 - (x) Quality assurance and quality control tests conducted during the month, with the results thereof.
 - (xi) Videography at various stages of construction right from the day of start of work to date of completion/occupation, covering all major events, inspections, visits by dignitaries etc.

- 1.3 The contractor shall take instructions from the Engineer-in-charge for stacking of materials at site. No excavated earth or building materials shall be stacked on areas where the buildings, roads, services or compound walls are to be constructed.
- 1.4 If as per Municipal or prevailing rules of the secured campuses owned by paramilitary forces, Institutions etc, the huts for labour are not to be erected at the site of work by the contractors, the contractors shall provide such accommodation at such locations as are acceptable to local bodies with all provisions concerning labour safety & sanitation as contained in the relevant clause of the contract, for which nothing shall be payable.
- 1.5 Unless otherwise provided in the Schedule of quantities, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing shall be payable to him on this account.
- 1.6 The working drawings appearing at para 8.1(iii) of conditions of contract in the form CPWD-7/8, shall mean to include both architectural and structural drawings respectively. The structural and architectural drawings shall be properly correlated before executing the work. In case of any difference noticed between architectural and structural drawings, final decision, in writing of the Engineer-in-charge shall be obtained by the contractor before proceeding further.
- 1.7 Some restrictions may be imposed by the security staff etc. on the working and for movement of labour, materials etc. The contractor shall be bound to follow all such restriction / instructions including issue of identity cards to all persons authorized by him to do work / visit the work site and nothing shall be payable on this account.
- 1.8 The contractor shall make his own arrangements for obtaining electric connections, if required, and make necessary payments directly to the department concerned.
- 1.9 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor (s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed, so as not to interfere with the operations of other contractors, or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of Engineer-in-Charge. The contractor shall be responsible for any damage due to hindrance caused by him.
- 1.10 Cast iron pipes and fittings without ear shall be used. However, pipes and fittings with ears may be accepted without any extra payment. In such cases, clamps are not required and no extra payment shall be made for fixing the pipes in a different manner.
- 1.11 Any cement slurry added over base surface for bond or for continuation of concreting, for protecting reinforcement bars, its cost shall be deemed to have been included in the respective items, unless specified otherwise and nothing extra shall be payable nor extra cement shall be considered in the cement consumption on this account.
- 1.12 Stacking of materials and excavated earth including its disposal shall be done as per the directions of the Engineer-in-Charge. Double handling of materials or excavated earth if required at any stage shall have to be done by the contractor at his own cost.

- 1.13 No claim for idle establishment & labour, machinery & equipments, tools & plants and the like, for any reason whatsoever, shall be admissible during the execution of work as well as after its completion.
- 1.14 Only Star headed Stainless Steel screws shall be used unless otherwise specified.
- 1.15 Work shall be carried out in professional manner with finished product serving the intended purpose with specified strength, durability and aesthetics.
- 1.16 Work activities shall be executed in well thought out sequences such that consequent activities not adversely affecting previously done work. Nothing extra shall be payable to protect the works already done.
- 1.17 The contractor shall prepare all the needed shop drawings well in advance and get them approved before placing the order and execution of the item.
- 1.18 **The contractor shall, at his risk and cost, make all arrangements and shall provide all facilities as the Engineer-in-Charge may require for collecting, and preparing the required number of samples for such tests at such time and to such place or places as may be directed by the Engineer - in -Charge and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications.**

2.0 FLOORING, SKIRTING, VENEERING, DADO, TREADS & RISERS OF STEPS, JAMBS, SILLS & SOFFITS

- 2.1 Nothing extra shall be payable for using combination of marble, granite and kota in the required pattern at various locations unless otherwise specified.
- 2.2 Flooring in toilets, verandah, kitchen, courtyard and at other places if required shall be laid to the required slope/gradient as per the directions of the Engineer-in-Charge and nothing extra shall be paid on account of the same.
- 2.3 The pattern, spacing and locations of joints shall be as per drawings and direction of the Engineer-in-Charge and nothing extra shall be paid on account of the same.

3.0 SPECIALISED ITEMS

3.1 LIST OF SPECIALISED ITEMS:

- 1. Water proofing treatment work
- 2. Laying of granite stone flooring
- 3. Special foundations including all types of piles.
- 4. Fibrous plaster ceiling.
- 5. Acoustic treatment and other decorative items such as glass ceiling.
- 6. Aluminum doors and windows, aluminum partition.
- 7. Underground tank.
- 8. Guniting, Ready mix concrete.
- 9. Aluminum composite panel.
- 10. Swimming pool.
- 11. Fabrication and erection of space frame including covering with lightweight poly carbonate roofing.
- 12. Diaphragm walls.
- 13. Anti-termite chemical treatment.
- 14. Stainless steel cladding and stainless steel railing.
- 15. Structural glazing work,
- 16. Fiber glass doors.
- 17. Stone works such as:
 - (a) Ashlar stone masonry work.
 - (b) Stone jali work.
 - (c) Italian marble work.

18. Superior water supply fittings such as Jacuzzi steam cabins, cascades, etc.
19. Sensor operated system for flushing.
20. Plumbing with copper/polypropylene pipes using advanced technology for jointing.
21. Textured finishing work.+
22. Signages
23. Wooden flooring

3.2 Procedure for Execution of the Specialized Items:

Such items should be got executed only through associated agencies specialized in these fields. The contractor shall indicate the name(s) of his associated specialized agencies those fulfilling the conditions described for the respective item/s as early as possible and within one month of award of work to Engineer-in-Charge for approval.

The contractors who are not registered in CPWD, MES, BSNL, Chhattisgarh State PWD and Railway, they can also participate in this tender if the following similar works has been completed by the firm upto the amount given as belows.

3.2.1 Description of Item: Aluminium Work (Sub Head – 01)

Condition :-

Experience of having successfully completed three similar works each of value not less than Rs. 49,592/-, two similar works each of value not less than Rs. 74,388/- or one similar work of value not less than Rs. 99,184/-, during last seven years ending previous day of last date of submission of application.

3.2.2 Description of Item: Supply Installation Testing and Commissioning of New Submersible Pump including removing of existing submersible pump.(Sub Head– 02)

Condition:-

Experience of having successfully completed three similar works each of value not less than Rs.14,247/-, two similar works each of value not less than Rs.21,370/- or one similar work of value not less than Rs.28,494/-, during last seven years ending previous day of last date of submission of application.

3.3 Specialized Agencies

3.3.1 List of Specialized Agencies for certain items in case of Civil works have been approved by the competent authority and given in the tender documents unless specified otherwise. The contractors shall quote the rates after careful study of contract conditions, specifications, drawings & schedule of quantities.

3.3.2 It shall be the responsibility of main contractor to sort out any dispute / litigation with the Specialized Agencies without any time & cost overrun to the Department. The main contractor shall be solely responsible for settling any dispute / litigation arising out of his agreement with the Specialized Agencies. The contractor shall ensure that the work shall not suffer on account of litigation/ dispute between him and the specialized agencies / sub-contractor(s). No claim of hindrance in the work shall be entertained from the Contractor on this account. No extension of time shall be granted and no claim what so ever, of any kind, shall be entertained from the Contractor on account of delay attributable to the selection/rejection of the Specialized Agencies.

3.3.3 For specialized items, the main contractor cannot work as a specialized agency unless his

name is already included in the list of approved specialized agencies for these items. The contractor shall get these items executed through the specialized agencies as approved by competent authority.

3.4 RATES

3.4.1 The rates quoted by the Contractor are deemed to be inclusive of site clearance, setting out work, profile, setting lay out on ground, establishment of reference bench mark(s), installing various signage, taking spot levels, survey with total station, construction of all safety and protection devices, compulsory use of helmet and safety shoes, and other appropriate safety gadgets by workers, imparting continuous training for all the workers, barriers, preparatory works, construction of clean, hygienic and well ventilated workers housings in sufficient numbers as per drawing supplied by Engineer in charge, working during monsoon or odd season, working beyond normal hours, working at all depths, height, lead, lift, levels and location etc. and any other unforeseen but essential incidental works required to complete this work. Nothing extra shall be payable on this account and no extension of time for completion of work shall be granted on these accounts.

3.4.2 The rates quoted by the tenderer, shall be firm and inclusive of all taxes and levies (including works contract tax but excluding service tax).

3.4.3 No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.

3.4.4 All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery, material yard, cement & other storage, fabrication yard, site laboratory, water tank etc.

3.4.5 For completing the work in time, the Contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the Contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work

according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the Contractor with them.

3.4.6 All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.

3.5 CLEANLINESS OF SITE

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

3.6 INSPECTION OF WORK

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

4.0 Stainless Steel Railing/Handrails:

4.1 GENERAL

The contractor shall apply all materials, labour, tools, ladders, scaffolding and other equipments necessary for the completion and protection of all stainless steel work.

4.2 MATERIAL

All stainless steel pipes and plates shall conform to AISI 304 in 18/8 composition. 18 will be chromium and 8 will be Nickel and carbon content will be 0.03 maximum and the relevant clauses associated with this grade of steel to be followed.

4.3 SURFACE FINISH

Surface finish of all the stainless steel materials will be in 240 grit satin finish / matt finish.

4.4 ACCESSORIES

Fixing will be done by stainless steel expansion bolts of approved size and make as per Engineer-in-charge and welding to be done by using organ welding rods and the surface being duly finished and cleaned by K2 passivation, which is nitric acid plus florid acid solution treatment by which the chances of corrosion will be eliminated and any burn out makes on the metal will also be eliminated.

4.5 COATING MASS

All stainless steel material will have to be coated by a solution of Inox to avoid finger in prints and avoidance of settlement of environment / atmospheric dust.

4.6 MEASUREMENT

All the stainless steel finished parts shall be weighed correct to a gram and paid on weight basis.

4.7 RATE

The rate shall include the cost of all the materials, machinery and labour involved in all the operations described above including cartage, lifts and all taxes like Sales Tax / VAT, Excise duty, Octroi etc. as applicable.

Any incidental additional requirements for execution of this item to the satisfaction of Engineer-in-Charge shall also be treated as included in the item and shown in attached drawing and nothing extra will be paid for such extra work.

5.0 CO-OPERATION WITH OTHER CONTRACTORS/SPECIALIZED AGENCIES /SUB-CONTRACTORS

5.1 The Contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupants of the adjacent properties and to the public in general .The Contractor shall take all care, as not to damage any other adjacent property or other services running adjacent to the plot. If any damage is done, the same shall be made good by the Contractor at his own cost and to the entire satisfaction of the Engineer-in-Charge. The Contractor shall use such methodology and equipments for execution of the work, so as to cause minimum environmental pollution of any kind during construction. Further, the Contractor shall take all precautions to abide by the environmental related restrictions imposed by **Chhatisgarh Pollution Control Board, Govt. of Chhattisgarh**.

Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants / users of adjoining buildings. No claim what so ever on account of site constraints mentioned above or any other site constraints, inadequate availability of skilled, semi-skilled or unskilled workers in the near vicinity, non-availability of construction machinery spare parts and any other constraints not specifically stated here, shall be entertained from the Contractor. Therefore, the Tenderers are advised to visit site and get first-hand information of site constraints. Accordingly, they should quote their tenders. Nothing extra shall be payable on this account.

5.2 The Contractor shall cooperate with and provide the facilities to the sub-Contractors and other agencies working at site for smooth execution of the work. The contractor shall indemnify **AIIMS Raipur** authorities.

Against any claim(s) arising out of such disputes. The Contractor shall :

- (i) Allow use of scaffolding, toilets, sheds etc.
- (ii) Properly co-ordinate their work with the work of other Contractors.
- (iii) Provide control lines and benchmarks to his Sub-Contractors and the other Contractors.
- (iv) Provide electricity and water at mutually agreed rates.
- (v) Provide hoist and crane facilities for lifting material at mutually agreed rates.
- (vi) Co-ordinate with other Contractors for leaving inserts, making chases, alignment of services etc. at site.
- (vii) Adjust work schedule and site activities in consultation with the Engineer-in-Charge and other Contractors to suit the overall schedule completion.
- (viii) Resolve the disputes with other Contractors/ sub-contractors amicably and the Engineer-in-Charge shall not be made intermediary or arbitrator.

5.3 The work should be planned in a systematic manner so as to ensure proper co-ordination of various disciplines viz. sanitary & water supply, drainage, rain water harvesting, electrical, fire fighting, information technology, communication & electronics and any other services.

5.4 Other agencies will also simultaneously execute and install the works of sub-station / generating sets, air-conditioning, lifts, etc. for the work and the contractor shall afford necessary facilities for the same. The contractor shall leave such recesses, holes, openings trenches etc. as may be required for such related works (for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work and brick work, if required, and nothing extra shall be payable on this account.

5.5 The contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and in a proper co-ordinated manner and shall perform it in proper sequence to the complete satisfaction of others.

6.0 CONSUMPTION OF PIG LEAD AND IT'S VARIATION FOR SCI SANITARY PIPES AND FITTINGS AS PER IS:3989

In order to ensure that adequate lead is poured properly into the joints and to control waste in use of lead for caulking of joints of SCI pipes and fittings, at the beginning of the work

three or four sample joints shall be made and the quantum of lead per joint approved by the Engineer in charge. The actual consumption of lead should be within variation of 5% of the approved sample job. This variation includes allowances of wastage also. If the actual consumption of pig lead is less than the required consumption worked out on the above basis, the recovery on account of less use of lead shall be made from the contractor at market rate to be determined by the Engineer-in-Charge, whose decision in the matter shall be final & binding.

7.0 CONDITION FOR CEMENT:-

- 7.1 The Contractor shall procure 43 grade Ordinary Portland cement (conforming to IS : 8112) or Portland slag cement (conforming to IS : 455) or Portland Pozzolana Cement (PPC) (Fly ash based) – conforming to IS : 1489 (Part-I) as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cemen, Century Cement t & JK Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by ADG for that sub region.

The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacture(s) which the contractor proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturer, given by the tenderer, fully or partially.

The supply of cement shall be taken in 50 Kg bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got issue in accordance with provisions of relevant BIS codes. In case test results indicate that the cement arranged by the Contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the Contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.

If Portland Pozzolana cement or Portland slag cement is used, suitable modification in deshuttering time etc. shall be done if need be as per specifications and standards and as directed by Engineer – in – Charge and nothing extra shall be payable on this account.

No extra payment / deduction shall be made from the payment to the contractor for using any of the above type of cement.

- 7.2 The cement shall be brought at site in bulk supply of approximately 50 tonnes or as decided by the Engineer - in - Charge.
- 7.3 For each grade / type, cement bags shall be stored in two separate godowns, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at site of work as per sketch shown in General Conditions of Contract for CPWD Works, 2014 with weather proof roofs and walls, for which no extra payment shall be made. The size of the cement godown is indicated in the sketch for guidance only. The actual size of godown

shall be as per site requirements and as per the direction of the Engineer in Charge and nothing extra shall be paid for the same. The decision of the Engineer-in-Charge regarding the capacity required/needed will be final. However, the capacity of each godown shall not be less than 100 tonnes. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with CPWD Engineer-in-Charge or his authorized representative and that of other lock with the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both the parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed Proforma and signed daily by the contractor or his authorized agent in token of its correctness.

7.4 The cement shall be got tested by Engineer –in –Charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. **The cost of tests shall be borne by the contractor / Department in the manner indicated below:-**

(a) By the contractor, if the results show that the cement does not conform to relevant BIS codes.

(b) By the Department, if the results show that the cement conforms to relevant BIS codes.

7.4.1 All other charges of sampling, packing and transportation of sample shall also be borne by the Contractor.

7.5 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained separately for each type of cement, as provided in Clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in Clause 42 of the contract and shall be governed by conditions laid therein. However, for consumption lesser beyond permissible theoretical variation recovery shall be made in accordance with conditions of contract at Schedule A to F (CPWD-8), without prejudice to action for acceptance of work/item at reduced rate or rejection as the case may be. In case of excess consumption no adjustment shall be made.

7.6 Cement brought to site and cement remaining unused after completion of work shall not be removed from site without written permission of the Engineer-in-Charge.

7.7 The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-Charge, if he does not do so within 3 days of receipt of such notice, the Engineer-in-Charge shall get it removed at the cost of the Contractor.

8.0 CONDITIONS FOR REINFORCEMENT STEEL:-

8.1 The contractor shall procure TMT bars of ~~Fe 415 / Fe 415D /~~ Fe 500/ Fe 500D ~~/ Fe 550 / Fe 550D~~ grade from primary producers such as SAIL, Tata Steel Ltd., RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material / input and having crude steel capacity of 2.0 Million tonne per annum and above.

In case of non-availability of steel from primary producers, use of TMT reinforcement bars procured from steel producers having Integrated Steel Plants (ISPs) using iron ore as the basic raw material for production of crude steel which is further rolled into finished shapes

in-house having crude steel capacity of 0.5 million tonne per annum or more will be allowed subject to fulfillment of following conditions:

- a. The grade of the steel such as ~~Fe-415 / Fe-415D~~ / Fe 500 / Fe 500D / ~~Fe-550 / Fe-550D~~ or other grade to be procured is to be specified as per BIS : 1786 - 2008.
- b. The secondary producers must have valid BIS licence to produce HSD bars conforming to IS 1786: 2008. In addition to BIS licence, the secondary producer must have valid licence from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.
- c. The TMT bars procured from Primary Producers and ISPs shall conform to manufacturer's specifications.
- d. The TMT bars procured from secondary producers shall conform to the specifications as laid down by Tempcore, Thermex, Evcon Turbo and Turboquench as the case may be.
- e. TMT bars procured either from Primary Producers, ISPs or secondary producers, the specifications shall meet the provisions of IS 1786 : 2008 pertaining to ~~Fe-415 / Fe-415D~~ / Fe 500 / Fe 500D / ~~Fe-550 / Fe-550D~~ or other grade of steel as specified in the tender.

8.2 Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications as defined under para 8.1(d) & 8.1 (e) above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time of written orders from the Engineer-in-Charge to do so.

In case contractor is permitted to use TMT reinforcement bars procured from secondary producers then:

- (i) The base price of TMT reinforcement bars as stipulated under Schedule 'F' shall be reduced by Rs. 6700/- MT. However, for operation of provisions of Clause 10CA in such case, the indices for TMT reinforcement bars of secondary producers will be considered same as for primary producers.
- (ii) The rate of providing & laying TMT reinforcement bars as quoted by the contractor in the tender shall also be reduced by Rs. 8.00 per kg.

8.3 The steel reinforcement bars shall be brought at site in bulk supply of 25 tonnes or more as decided by the Engineer in Charge.

8.4 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.

8.5 For checking nominal mass, tensile strength, bend test, re-bend test, etc. specimen of sufficient length shall be cut from each size of the bar at random at frequency not less than that specified below:

Dia of bar	For consignment below 100tonnes	For consignment above 100tonnes
Under 10 mm	One sample for each 25 tonnes or part thereof	One sample for each 40tonnes or part thereof
10 mm to 16mm	One sample for each 35 tonnes or part thereof	One sample for each 45tonnes or part thereof
Over 16mm	One sample for each 45 tonnes or part thereof	One sample for each 50tonnes or part thereof

- 8.6 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. **The cost of tests shall be borne by the contractor.**
- 8.7. **All other charges of sampling, packing and transportation of sample shall also be borne by the Contractor.**
- 8.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in Clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in Clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.
- 8.9 The steel brought to site and remaining unused shall not be removed from site without the written permission of Engineer-in-Charge.
- 8.9(i) **Reinforcement including authorized spacer bars and lappages shall be measured in length for different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.**
- (ii) The standard sectional weights referred to shall be as in Table 5.4 in para 5.3.4 in revised CPWD Specifications, 2009 Vol. I will be considered for conversion of length of various sizes of TMT bars in to standard weight.
- (iii) Record of actual sectional weights shall also be kept dia wise and lot wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer in Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.
- (a) If the derived weight as in sub-para (iii) above is less than the standard weight as in sub-para (ii) above, then the Derived Actual Weight shall be taken for payment.
- (b) If the derived actual weight is found more than the standard weight, than standard weight as worked out in sub para (ii) above shall be taken for payment. Nothing shall be paid extra for the difference in Derived/ Actual Weight and standard weight.
- 8.10 Every care should be taken to avoid mixing different types of grades of bars in the same structural members as main reinforcement to satisfy relevant clause of IS: 456. In case of buildings, wherever the situation necessitates, the change over shall be permitted only from any one level onwards. In case of foundations, all foundation elements (footings

and grade beams) shall have the same kind of steel. In the case of columns, all structural elements up to the level of change, where the change over is taking place should have the same kind of steel as those in columns.

- 8.11 The reinforcing steel brought to site of work shall be stored on brick / timber platform of 30/40-cm height, nothing extra shall be paid on this account.

9.0 REINFORCED CEMENT CONCRETE WORK

9.1 DESIGN MIX CONCRETE

- 9.1.1 The RCC work shall be done with Design Mix Concrete unless otherwise specified. In the nomenclature of items wherever letter M has been indicated, the same shall imply for the Design Mix Concrete. For the nominal mix in RCC, CPWD Specifications shall be followed. The Design Mix Concrete will be designed based on the principles given in IS: 456-2000. The contractor shall design mixes for each grade of concrete indicating that the concrete ingredients and proportions will result in concrete mix meeting requirements specified. In case of use of admixture and or white cement, the mix shall be designed with these ingredients as well.

10.0 PARTICULAR SPECIFICATIONS FOR AAC BLOCK MASONRY:

- 10.1 The AAC Blocks shall be procured from approved manufacturers.
10.2 The blocks shall be stored at site in stacks on a level dry surface.

11.0 EQUIPMENTS AND PLANTS (Refer Clause 18 of Schedule 'F')

- 11.1 The contractor has to deploy necessary tools & plants in required numbers to ensure smooth & timely execution of work, at his own cost & risk as per the requirement of work at different stages. The decision of Engineer-in-Charge shall be final regarding use of particular T&P(s) at a particular time(s) & the contractor has to adhere to the same strictly. The following description & quantum of T&P is given for general guidance which is not mandatory. However, the successful contractor shall give a list of tools and plants which he proposes to deploy to ensure smooth and timely execution as per different milestone fixed and timely completion of work while submitting the programme and progress chart.

I.	Fully Automatic Batching plant (15 cum)	1 no.
II.	Concrete pump	1 No.
III	Steel centering and shuttering.	2000 Sq.Mtr.
IV.	Excavator Cum Loader.	1 No.
V.	Builders Hoist.	1 Nos.
VI.	Concrete mixer with hopper.	3 Nos.
VII.	Plate Vibrator.	2 No.
VIII.	Needle Vibrator.	4 Nos.
IX.	Bar Bending Machine.	1 No.
X.	Bar Cutting Machine.	1 No.
XI.	Compressor 5 cmm.	1 No.
XII.	Earth compactor 2 T	1 No.

XIII.	Floor grinding machine	3 No.
XIV.	Welding machine	2 No.
XV.	DG Set(63 KVA)	1 No.
XVI.	Grinder, Drilling machine etc.	3 Nos.
XVI	Water Pump	3 Nos.
XVII	Chase cutter	2 Nos.

- 11.2 To achieve the progress of work as per programme, the contractor must bring at site the required shuttering materials required for cement concrete and RCC work etc. within 30 days from the date of start of work. All other equipments shall be brought, installed and commissioned at site of work at least one week before their actual planned use at site. Work shop facilities for fabrication/addition and alterations, and other allied works shall be arranged by the contractor at his own cost.
- 11.3 The list of equipment/T&P/machinery as per para 11.1 is for general guidance. In addition to these, machinery / equipment as required shall be arranged by the contractor, in case the requirement at any stage exceeds as per the programme finalized, at his own cost and nothing extra whatsoever on this account shall be paid. This includes equipment for arrangement of concrete from RMC producing plants also.
- 11.4 All the equipment, T&P and machinery shall be kept in good condition.

12.0 SAFETY MEASURES AT CONSTRUCTION SITE

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

- (i) The work site shall be properly barricaded.
- (ii) Adequate singnages indicating 'Work in Progress – Inconvenience caused is Regretted' or Diversion Signs shall be put on the sites conspicuously visible to the public even during night hours. These are extremely essential where works are carried out at public places in use by the public.
- (iii) The construction malba at site shall be regularly removed on daily basis.
- (iv) All field officials and the workers must be provided with safety helmets, safety shoes and safety belts.
- (v) Proper MS pipe scaffoldings with work – platforms and easy-access ladders shall be provided at site to avoid accidents.

Necessary First-Aid kit shall be available at the site.

The above provisions shall be followed in addition to the provisions of General Condition of Contract.

13.0 LIST OF EQUIPMENT FOR SITE LABORATORY TO BE MADE AVAILABLE BY THE CONTRACTOR AT HIS OWN COST (Refer Clause 10 A of Schedule 'F')

Laboratory testing instruments.

- (1) Balances
 - i. 7 Kg. to 10 Kg. capacity, semi-self indicating type – accuracy 10 gm.-1 No.
 - ii. 500 gm. Capacity, semi-self indicating type – accuracy 1 gm.- 1 No.
 - iii. Pan balance – 5 Kg. capacity – accuracy 10 gms.-1 No.
- (2) Ovens—electrically operated, thermostatically controlled upto 110⁰ C—sensitivity 1⁰ C. – 1 No.
- (3) Sieves : as per IS 460 – 1962.
 - i. I.S. sieves – 450 mm internal dia, of sizes 100mm, 80 mm, 63 mm, 50mm, 40 mm, 25mm, 20 mm, 12.5 mm, 10 mm, 6.3mm, 4.75 mm, 2.36mm complete with lid and pan. – 1 Set
 - ii. I.S. sieves - 200 mm internal dia (brass frame) consisting of 2.36 mm, 1.18 mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan. – 1 Set
- (4) Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly - 1 No.
- (5) Equipment for slump test—slump cone, steel plate, tamping rod, steel scale, scoop-2sets
- (6) Dial gauges, 25 mm travel – 0.01 mm / division least count – 2 Nos.
- (7) 100 tones compression testing machine, Civil cum manually operated. – 1 No.
- (8) Graduated measuring cylinders 200 ml capacity – 6 Nos.
- (9) Enamel trays (for efflorescence test for bricks).
 - i. 300 mm X 250 mm X 40 mm – 2 Nos. } 10 Set
 - ii. Circular plates of 2850 mm dia – 4 Nos. }

B. Field testing instruments.(Following instruments in sufficient quantity as directed by the Engineer- in- Charge shall be made available by the contractor. It shall be ensured that the instruments always remain in serviceable condition else the same will be replaced.

C.

- (1) Steel tapes – 3 m.
- (2) Vernier Calipers.
- (3) Micrometer screw 25 mm gauge.
- (4) A good quality plumb bob.
- (5) Spirit level, minimum 30 cms long with 3 bubbles for horizontal vertical.
- (6) Wire gauge (circular type) disc.
- (7) Foot rule.
- (8) Long nylon thread.
- (9) Rebound hammer for testing concrete
- (10) Dynamic penetrometer.
- (11) Magnifying glass

- (12) Screw driver 30 cms long
- (13) Ball pin hammer, 100 gms.
- (14) Plastic bags for taking samples
- (15) Moisture meter for timber
- (16) Earth resistance tests (for Civil Divisions)
- (17) Meggar (for Civil Divisions)
- (18) Total station

14.0 SPECIFICATIONS FOR FLY ASH BRICKS - All fly ash bricks as brought to the site shall conform to the strength & durability parameters as prescribed in the tender and CPWD specifications.

15.0 The contractor shall submit 'Method Statement' for the approval soon after the award of work. 'Method Statement' is a statement by which the construction procedures for important activities of construction are stated, checked and approved. Method Statement shall have description of the item with elaborate procedures in steps to implement the same. The specification of the materials involved their testing and acceptance criteria, equipments to be used, precautions to be taken, mode of measurements etc.

16.0 TESTING OF MATERIALS.

16.1 The contractor shall arrange carrying out of all tests required under the agreement through the laboratory as approved by the Engineer-in-Charge and shall bear all charges in connection therewith including fee for testing unless specified otherwise. In all cases cost of samples and to & fro carriage shall be borne by the contractor. Contractor shall establish a laboratory at site of work at his own cost. The laboratory shall be equipped with all necessary equipment as per requirement of specification or as per direction of Engineer-in-Charge. A list of laboratory equipments to be maintained by the contractor is enclosed at Para 13 page 40 & 41. Establishing the laboratory at site shall not absolve the contractor from fulfilling the criteria of getting the test done in independent approved laboratories as per DG, CPWD, O.M. No. DG/MAN/308 dated 29.05.2014. The decision of the Engineer-in-Charge of allowing any test in the site laboratory shall be final.

16.2 Even ISI marked materials may be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/material. Whenever ISI marked materials are brought to the site of work the contractor shall, if required by the Engineer-in-Charge, furnish manufacturer test certificate or test certificate from approved testing laboratory to establish that the material procured by the contractor for incorporation in the work satisfy the provisions of IS codes relevant to the material and/or the work done.

16.3 Substandard Material/Work : In case any material/work is found substandard the same shall be rejected by the Engineer-in-Charge and the same shall be removed from the site of work within 48 hour, failing which the same shall be got removed by the Engineer-in-Charge at the risk and cost of the contractor without giving any further notice and time.

17.0 CONDITIONS OF CONTRACT SPECIFIC TO GREEN BUILDING PRACTICES

The contractor shall strictly adhere to the following conditions as part of his contractual obligations:

17.1 SITE

17.1.1 The contractor shall ensure that adequate measures are taken for the prevention of erosion of the top soil during the construction. The contractor shall prepare and implement the Erosion and Sedimentation Control Plan (ESCP) provided to him after approval by the Engineer-in-Charge as part of the larger Construction Management Plan (CMP). The contractor shall obtain the Erosion and Sedimentation Control Plan (ESCP) Guidelines if required from the Engineer in Charge and then prepare “working plan” for the following month’s activities as a CAD drawing showing the construction management, staging & ESCP. At no time soil should be allowed to erode away from the site and sediments should be trapped where necessary.

The contractor shall ensure that all the top soil excavated during construction works is neatly stacked and is not mixed with other excavated earth. The contractor shall take the clearance of the Engineer in Charge before any excavation. Top soil should be stripped to a depth of 20 cm (centimeters) from the areas to be disturbed, for example proposed area for buildings, roads, paved areas, external services and area required for construction activities etc. It shall be stockpiled to a maximum height of 40 cm in designated areas, covered or stabilized with temporary seeding for erosion prevention and shall be reapplied to site during plantation of the proposed vegetation or as directed by the engineer in charge. Top soil shall be separated from subsoil, debris and stones larger than 50 mm (millimetre) diameter. The stored top soil may be used as finished grade for planting areas.

17.1.2 The Contractor should follow the construction plan as proposed by the Architect / Engineer in Charge to minimize the site disturbance such as soil pollution due to spilling. If required use of staging and spill prevention and control plan to restrict the Spilling of the contaminating material on site needs to be resorted. Protection of top soil from erosion by collection storage and reapplication of top soil, constructing sediment basin, contour trenching, mulching etc., may also be directed by the engineer in charge.

17.1.3 No excavated earth shall be removed from the campus unless suggested otherwise by Engineer in Charge. All subsoil shall be reused in backfilling/landscape, etc as per the instructions of the Engineer in Charge. The surplus excavated earth shall be disposed of by the contractor as per the direction of the Engineer-in-Charge at his own cost for reuse. A certificate of reuse as required by the Engineer-in-Charge shall be submitted by the contractor.

17.1.4 The contractor shall not change the natural gradient of the ground unless specifically instructed by the Engineer-in-Charge. This shall cover all natural features like water bodies, drainage gullies, slopes, mounds, depressions, etc. Existing drainage patterns through or into any preservation area shall not be modified unless specifically directed by the Engineer-in-Charge.

17.1.5 The contractor shall not carry out any work which results in the blockage of natural drainage.

17.1.6 The contractor shall ensure that existing grades of soil shall be maintained around existing vegetation and lowering or raising the levels around the vegetation is not allowed unless specifically directed by the Engineer-in-Charge.

17.1.7 Contractor shall reduce pollution and land development impacts from automobiles use during construction.

17.1.8 Overloading of trucks is unlawful and creates the erosion and sedimentation problems, especially when loose materials like stone dust, excavated earth, sand etc. are moved. Proper covering shall be used by the contractor. Also, no overloading shall be permitted.

17.2 CONSTRUCTION PHASE AND WORKER FACILITIES

17.2.1 The contractor shall specify and limit construction activity in pre-planned/designated areas and shall start construction work after securing the approval for the same from the Engineer in Charge. This shall include areas of construction, storage of materials, and material and personnel movement.

17.2.2 Preserve and Protect Landscape during Construction

- a The contractor shall ensure that no trees, existing or otherwise, shall be harmed and damage to roots. These shall be prevented during trenching, placing backfill, driving or parking heavy equipment, dumping of trash and protected from oil, paint, and other materials detrimental to plant health. These activities shall be restricted to the areas outside of the canopy of the tree, or, from a safe distance from the tree/plant by means of barricading. Trees will not be used for support; their trunks shall not be damaged by cutting and carving or by nailing posters, advertisements or other material. Lighting of fires or carrying out heat or gas emitting construction activity within the ground, covered by canopy of the tree is not at all permitted.
- b The contractor shall take steps to protect trees or saplings if any identified for preservation within the construction site using tree guards of approved specification.
- c Contractor should limit all construction activity within the specified area as per the Construction Management Plan (CMP) approved by Engineer in Charge.
- d The contractor shall avoid cut and fill in the root zones, through delineating and fencing the drip line (the spread limit of a canopy projected on the ground) of all the trees or group of trees. The zones of movement of heavy equipment, parking, or excessive foot traffic shall be separated from the fenced plant protection zones.
- e The contractor shall ensure that maintenance activities during construction period shall be performed as needed to ensure that the vegetation remains healthy.

17.2.3 Contractor shall be required to develop and implement a waste management plan, quantifying material diversion goals. He shall establish goals for diversion from disposal in landfills and incinerators, if required, and adopt a construction waste management plan to achieve these goals. A project wide policy of “Nothing leaves the Site” shall be followed. The Contractor’s ingenuity is especially called towards meeting this prerequisite/ credit (as per IGBC LEED India, New Construction v1.0 & GRIHA , MNRE) and may consider recycling cardboard, metal, brick, acoustical tile, concrete, plastic, clean wood, glass, gypsum wallboard, carpet and insulation, designating a specific area(s) on the construction site for segregated or commingled collection of recyclable material, and track recycling efforts throughout the construction process, identifying construction haulers and recyclers to handle the designated materials at his cost. The diversion may include donation of materials to charitable organizations and salvage of materials on-site.

17.2.4 Contractor shall collect all construction waste generated on site. He may consider at

segregating wastes based on their utility and examine means of sending such waste to manufacturing units which use them as raw material or other site which require it for specific purpose. Typical construction debris could be broken bricks, steel bars, broken tiles, spilled concrete and mortar etc.

- 17.2.5 The contractor shall provide potable water and other amenities for all workers as per the contract.
- 17.2.6 The contractor shall provide the minimum level of sanitation and safety facilities for the workers at site as described in CPWD General Conditions of contract. The contractor shall ensure cleanliness of workplace with regard to the disposal of waste and effluent; provide clean drinking water and latrines and urinals as per applicable provisions. Adequate toilet facilities shall be provided for the workmen within easy access of their place of work. The total no. to be provided shall not be less than 1per 30 employees in any one shift. Toilet facilities shall be provided from the start of building operations, connection to a sewer shall be made as soon as practicable. Every toilet shall be so constructed that the occupant is sheltered from view and protected from the weather and falling objects. Toilet facilities shall be maintained in a sanitary condition. A sufficient quantity of disinfectant shall be provided and natural or artificial illumination shall also be provided.
- 17.2.7 The contractor shall ensure that air pollution due to dust/generators is kept to a minimum, preventing any adverse effects on the workers and other people in and around the site. The contractor shall ensure proper screening, covering stockpiles, covering brick and loads of dusty materials, wheel-washing facility, gravel pit, and water spraying. Contractor shall also ensure the following activities to prevent air pollution during construction:
- Clear vegetation only from areas where work will start right away
 - Vegetate / mulch areas where vehicles do not ply.
 - Apply gravel / landscaping rock to the areas where mulching / paving is impractical
 - Identify roads on-site if applicable that would be used for vehicular traffic. Upgrade vehicular roads (if these are unpaved) by increasing the surface strength by improving particle size, shape and mineral types that make up the surface & base and add surface gravel to reduce source of dust emission to limit amount of fine particles (smaller than 0.075mm) to 10 – 20%
 - Water spray, through a simple hose for small projects, to keep dust under control. Fine mists should be used to control fine particulate. However, this should be done with care so as not to waste water. Heavy watering can also create mud, which when tracked onto paved public roadways, must be promptly removed. Also, there must be an adequate supply of clean water nearby to ensure that spray nozzles don't get plugged.
 - Water spraying shall be done on:
- 17.2.7.1 Any dusty materials before transferring, loading and unloading
- 17.2.7.2 Area where demolition work is being carried out
- 17.2.7.3 Any un-paved main haul road
- 17.2.7.4 Areas where excavation or earth moving activities are to be carried out

- The contractor shall ensure that the speed of vehicles within the site is limited to 10 km/hr.
- All material storages should be adequately covered and contained so that they are not exposed to situations where winds on site could lead to dust / particulate emissions.
- Spills of dirt or dusty materials will be cleaned up promptly so the spilled material does not become a source of fugitive dust and also to prevent of seepage of pollutant laden water into the ground aquifers. When cleaning up the spill, ensure that the clean-up process does not generate additional dust. Similarly, spilled concrete slurries or liquid wastes should be contained / cleaned up immediately before they can infiltrate into the soil / ground or runoff in nearby areas
- Provide hoardings of not less than 3m high along the site boundary, next to a road or other public area at his cost.
- Provide dust screens, sheeting or netting to scaffold along the perimeter of the building at his cost
- Cover stockpiles of dusty material with impervious sheeting at his cost.
- Cover dusty load on vehicles by impervious sheeting before they leave the site at his cost.

17.2.8 Contractor shall be required to provide an easily accessible area that serves the entire building and is dedicated to the separation, collection and storage of materials for recycling including (at a minimum) paper, corrugated cardboard, glass, plastics, and metals. He shall coordinate the size and functionality of the recycling areas with the anticipated collections services for glass, plastic, office paper, newspaper, cardboard, and organic wastes to maximize the effectiveness of the dedicated areas. Consider employing cardboard balers, aluminium can crushers, recycling chutes, and collection bins at individual workstations to further enhance the recycling program

17.2.9 The contractor shall ensure that no construction leachate (e.g. cement slurry etc.), is allowed to percolate into the ground. Adequate precautions will be taken to safeguard against this including reduction of wasteful curing processes, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels, perimeter dike/swale, etc. shall be constructed to carry the pollutant-laden water directly to the treatment device or facility (municipal sewer line).

17.2.10 Staging (dividing a construction area into two or more areas to minimize the area of soil that will be exposed at any given time) should be done to separate undisturbed land from land disturbed by construction activity and material storage.

17.2.11 The contractor shall comply with the safety procedures, norms and guidelines (as applicable) as outlined in the document Part 7 Constructional practices and safety, 2005, National Building code of India, Bureau of Indian Standards. A copy of all pertinent regulations and notices concerning accidents, injury and first-aid shall be prominently exhibited at the work site. Depending upon the scope & nature of work, a person qualified in first-aid shall be available at work site to render and direct first-aid to casualties. A telephone may be provided to first-aid assistant with telephone numbers of the hospitals displayed. Complete reports of all accidents and action taken thereon shall be forwarded to the competent authorities.

17.2.12 The contractor shall ensure the following activities for construction workers safety, among other measures at his cost.

- Guarding all parts of dangerous machinery.

- Precautionary signs for working on machinery
 - Maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition.
 - Durable and reusable formwork systems to replace timber formwork and ensure that formwork where used is properly maintained.
 - Ensuring that walking surfaces or boards at height are of sound construction and are provided with safety rails or belts.
 - Provide protective equipment; helmets etc.
 - Provide measures to prevent fires. Fire extinguishers and buckets of sand to be provided in the fire-prone area and elsewhere.
 - Provide sufficient and suitable light for working during night time.
- 17.2.13 The storage of material shall be as per standard good practices as specified in Part 7, Section 2 - Storage, Stacking and Handling practices, NBC 2005 and shall be to the satisfaction of the Engineer in Charge to ensure minimum wastage and to prevent any misuse, damage, inconvenience or accident. Watch and ward of the Contractor's materials shall be his own responsibility. There should be a proper planning of the layout for stacking and storage of different materials, components and equipments with proper access and proper maneuverability of the vehicles carrying the materials. While planning the layout, the requirements of various materials, components and equipments at different stages of construction shall be considered.
- 17.2.14 The contractor shall provide for adequate number of garbage bins around the construction site and the workers facilities and will be responsible for the proper utilisation of these bins for any solid waste generated during the construction. The contractor shall ensure that the site and the workers facilities are kept litter free. Separate bins should be provided for plastic, glass, metal, biological and paper waste and labelled in both Hindi and English with suitable symbols.
- 17.2.15 The contractor shall prepare and submit 'Spill prevention and control plans' before the start of construction, clearly stating measures to stop the source of the spill, to contain the spill, to dispose the contaminated material and hazardous wastes, and stating designation of personnel trained to prevent and control spills. Hazardous wastes include pesticides, paints, cleaners, and petroleum products.
- 17.2.15.1 Contractor shall collect & submit the relevant material certificates for materials if directed by the Engineer in charge with high recycled (both post-industrial and post-consumer) content, including materials like RMC mix with fly-ash, glass with recycled content, calcium silicate boards etc.
- 17.2.16 Contractor shall collect the relevant material certificates for rapidly renewable materials such as bamboo, wool, cotton insulation, agrifiber, linoleum, wheat board, strawboard and cork etc.
- 17.2.17 Where possible, the contractor shall select materials / vendors, harvested and manufactured regionally, within a 800-km radius of the project site.
- 17.2.18 Contractor shall adopt an IAQ (Indoor Air Quality) management plan to protect the HVAC system during construction, control pollutant sources, and interrupt pathways for contamination. He shall sequence installation of materials to avoid contamination of absorptive materials such as insulation, carpeting, ceiling tile, and gypsum wallboard. He shall also protect stored on-site or installed absorptive materials from moisture damage.

- 17.2.19 The contractor shall ensure that a flush out of all internal spaces is conducted prior to handover. This shall comprise an opening of all doors and windows for 14 days to vent out any toxic fumes due to paints, varnishes, polishes, etc.
- 17.2.20 Contractor shall make efforts to reduce the quantity of indoor air contaminants that are odorous or potentially irritating harmful to the comfort and well-being of installer and building occupants. Contractor shall ensure that the VOC (Volatile Organic Compounds) content of paints, coatings and primers used must not exceed the VOC content limits mentioned below in case items of such paints are/is available in schedule of quantities.

Paints

Non-flat - 150 g/L Flat (Mat) - 50, g/L Anti corrosive/ anti rust - 250 g/L

Coatings / Clear wood finishes

Varnish - 350 g/L Lacquer - 550 g/L Floor coatings - 100 g/L Stains - 250 g/L

Sealers

Waterproofing sealer - 250 g/L Sanding sealer - 275 g/L Other sealers - 200 g/L

- 17.2.21 The VOC (Volatile Organic Compounds) content of adhesives and sealants used if prescribed in the schedule of quantities must be less than VOC content limits mentioned: **Architectural Applications** VOC Limit (g/l less water) Indoor Carpet adhesives - 50 g/L, Carpet Pad Adhesives - 50 g/L, Wood Flooring Adhesive - 100 g/L, Rubber Floor Adhesives - 60 g/L, Sub Floor Adhesives - 50 g/L, Ceramic Tile Adhesives - 65 g/L, VCT and Asphalt Tile adhesives - 50 g/L, Dry Wall and Panel Adhesives - 50 g/L, Structural Glazing Adhesives - 100 g/L, Multipurpose Construction Adhesives - 70 g/L, Substrate Specific Application VOC Limit (g/l less water), Metal to Metal - 30 g/L, Plastic Foams - 50 g/L, Porous material (except wood) - 50 g/L, Wood - 30 g/L, Fiber Glass - 80 g/L
- 17.2.22 Wherever required, Contractor shall meet and carry out documentation of all activities on site, supplementation of information, and submittals in accordance with IGBC LEED India New Construction v1.0 or GRIHA program standards and guidelines. Towards meeting the aforementioned building environmental rating standard(s) expert assistance shall be provided to him up on request.
- 17.2.23 Water Use during Construction Contractor should spray curing water on concrete structure and shall not allow free flow of water. Concrete structures should be kept covered with thick cloth / gunny bags and water should be sprayed on them. Contractor shall do water ponding on all sunken slabs using cement and sand mortar.
- 17.2.24 The Contractor shall remove from site all rubbish and debris generated by the Works and keep Works clean and tidy throughout the Contract Period. All the serviceable and non-serviceable (malba) material shall be segregated and stored separately. The malba obtained during construction shall be collected in well formed heaps at properly selected places, keeping in a view safe condition for workmen in the area. Materials which are likely to cause dust nuisance or undue environmental pollution in any other way, shall be removed from the site at the earliest and till then they shall be suitable covered. Glass & steel should be dumped or buried separately to prevent injury. The work of removal of debris should be carried out during day. In case of poor visibility artificial light may be provided.

17.2.25 The contractor shall provide O & M Manuals wherever applicable.

17.2.26 The contractor shall make himself conversant with the Site Waste Management Program Manual and actively contribute to its compilation by estimating the nature and volume of waste generated by the process/installation in question.

17.2.27 MATERIALS & FIXTURES FOR THE PROJECT

- a) Contractor will produce wherever feasible certificate regarding distance of the source of the relevant material.
- b) Unless otherwise stated cement used at site for reinforced concrete, precast members, mortar, plaster, building blocks, etc shall be PPC (Portland Pozzolana Cement). The PPC must meet the requirements of IS 1489 (Part I) as regards to fly ash content in cement. The contractor shall obtain from the PPC manufacturer the certificate regarding fly ash content in the PPC in each batch of consignment.
- c) The contractor has to comply as per MoEF issued notification 8.0.763(E) dated 14th Sept.1999 containing directive for greater fly ash utilization. Every construction agency engaged in the construction of buildings within a radius of 50 km radius of a Thermal Power Plant, have to use of 100% fly ash based bricks/blocks in their construction.
- d) The contractor shall ensure that all paints, polishes, adhesives and sealants used both internally and externally, on any surface, shall be Low VOC products. The contractor shall get prior approval from the Engineer in Charge before the application of any such material.
- e) All plumbing and sanitary fixtures installed shall be as per the prescription of the Engineer in Charge and shall adhere to the minimum LPM (litres per minute) and LPF (litres per flush) mentioned. The contractor shall employ 100% zero ODP (ozone depletion potential) insulation; HCFC (hydro-chlorofluorocarbon)/ and CFC (chlorofluorocarbon) free HVAC and refrigeration equipments and / halon-free fire suppression and fire extinguishing systems.
- f) The contractor shall ensure that all composite wood products/agro-fibre products used for cabinet work, etc do not contain any added urea formaldehyde resin.

17.2.28 RESOURCES CONSUMED DURING CONSTRUCTION

- a. The contractor shall ensure that the water and electricity is not wasted during construction. The Engineer in Charge can bring to the attention any such wastage and the contractor will have to ensure that such bad practices are corrected.
- b. The contractor shall install necessary meters and measuring devices to record the consumption of water, electricity and diesel on a monthly basis for the entire tenure of the project.

- c. The contractor shall ensure that all run-off water from the site, during construction is collected and reused to the maximum.
- d. The contractor shall use treated recycled water of appropriate quality standards for construction, if available.
- e. No lights shall be turned on during the period between 6:00 AM to 6:00 PM, without the permission of the Engineer in Charge.

17.2.29 CONSTRUCTION WASTE

Contractor shall ensure that wastage of construction material is within 3%.

- a) All construction debris generated during construction shall be carefully segregated and stored in a demarcated waste yard. Clear, identifiable areas shall be provided for each waste type and measures employed to segregate the waste on site into inert, chemical, or hazardous wastes.
- b) All construction debris shall be used for road preparation, back filling, etc, used if described in the schedule of quantities and as per the instructions of the Engineer in Charge, with necessary activities of sorting, crushing, etc.
- c) No construction debris shall be taken away from the site, without the prior approval of the Engineer in Charge.
- d) The contractor shall recycle the unused chemical/hazardous wastes such as oil, paint, batteries, and asbestos.
- e) If and when construction debris is taken out of the site, after prior permissions from the Engineer in Charge, then the contractor shall ensure the safe disposal of all wastes and will only dispose of any such construction waste in approved dumping sites.

17.2.30 Documentation

- a) The contractor shall, during the entire tenure of the construction phase, submit the following records to the Engineer in Charge on a monthly basis:
 - i)** Water consumption in litres
 - ii)** Electricity consumption in 'kwh' units
 - iii)** Diesel consumption in litres
 - iv)** Quantum of waste (volumetric/weight basis) generated at site and the segregated waste types divided into inert, chemical and hazardous wastes.
 - v)** Digital photo documentation to demonstrate compliance of safety guidelines as specified here and in the Appendix on Safety Conditions.
- b) The contractor shall, during the entire tenure of the construction phase, submit the following records to the Engineer in Charge on a fortnightly basis:
 - i)** Quantities of material brought into the site, including the material issued to the contractor by the Engineer in charge.
 - ii)** Quantities of construction debris (if at all) taken out of the site

- iii)** Digital photographs of the works at site, the workers facilities, the waste and other material storage yards, pre-fabrication and block making works, etc as guided by the Engineer in Charge.
- c) The contractor shall submit a document after construction of the buildings, a brief description along with photographic records to show that other areas have not been disturbed during construction. The document should also include brief explanation and photographic records to show erosion and sedimentation control measures adopted. (Document CAD drawing showing site plan details of existing vegetation, existing buildings, existing slopes and site drainage pattern, staging and spill prevention measures, erosion and sedimentation control measures and measures adopted for top soil preservation during construction.
- d) The contractor shall submit to the Engineer in Charge after construction of the buildings, a detailed as built quantification of the following:
- i. Total materials used,
 - ii. Total top soil stacked and total reused
 - iii. Total earth excavated
 - iv. Total waste generated,
 - v. Total waste reused,
 - vi. Total water used,
 - vii. Total electricity, and
 - viii. Total diesel consumed.
- e) The contractor shall submit to the Engineer in Charge, before the start of construction, a site plan along with a narrative to demarcate areas on site from which top soil has to be gathered, designate area where it will be stored, measures adopted for top soil preservation and indicate areas where it will be reapplied after construction is complete.
- f) The contractor shall submit to the Engineer in Charge, a detailed narrative (not more than 250 words) on provision for safe drinking water and sanitation facility for construction workers and site personnel.
- g) Provide supporting document from the manufacturer of the cement specifying the fly-ash content in PPC used in reinforced concrete.
- h) Provide supporting document from the manufacturer of the pre-cast building blocks specifying the fly ash content of the blocks used in an infill wall system.
- i) The contractor shall, at the end of construction of the buildings, submit to the Engineer in Charge, submit following information, for all material brought to site for construction purposes, including manufacturer's certifications, verifying information, and test data, where Specifications sections require data relating to environmental issues including but not limited to:
- i)** Source of products: Supplier details and location of the supplier.
 - ii)** Project Recyclability: Submit information to assist Owner and Contractor in recycling materials involved in shipping, handling, and delivery, and for temporary materials necessary for installation of products.
 - iii)** Recycled Content: Submit information regarding product post industrial recycled and post consumer recycled content. Use the "Recycled Content Certification Form", to be provided by the Commissioning Authority appointed for the Project.
 - iv)** Product Recyclability: Submit information regarding product and product's component's recyclability including potential sources accepting recyclable materials where ever applicable.

- j) Provide final certification of well-managed forest of origin to provide final documentation of certified sustainably harvested status: Acceptable wood “certified sustainably harvested” certifications shall include:
- a) Wood suppliers’ certificate issued by one of the Forest Stewardship Council-accredited certifying agencies;
 - b) Suppliers’ invoice detailing the quantities of certified wood products for project;
 - c) Letter from one of a certifying agency corroborating that the products on the wood supplier’s invoice originate from certified well-managed forests.
 - i) Clean tech: Provide pollution clearance certificates from all manufacturers of materials
 - ii) Indoor Air quality and Environmental Issues: Submit emission test data, sourced from the manufacturers, produced by acceptable testing laboratory listed in Quality Assurance Article for materials as required in each specific Specification section.
 - a) Certifications from manufacturers of Low VOC paints, adhesives, sealant and polishes used at this particular project site.
 - b) Certification from manufacturers of composite wood products/agro fibre products on the absence of added urea formaldehyde resin in the products supplied to them to this particular site.
 - c) Submit environmental and pollution clearance certificates for all diesel generators installed as part of this project.

Provide total support to Engineer in Charge and Green Building Consultants appointed by the Engineer- in- Charge in completing all Green Building Rating related formalities, including signing of forms, providing signed letters in the contractor’s letterhead whenever required.

17.2.31 EQUIPMENT

- a) To ensure energy efficiency during and post construction all pumps, motors and engines used during construction or installed, shall be subject to approval and as per the specifications of the Engineer in Charge.
- b) All lighting installed by the contractor around the site and at the labour quarters during construction shall be CFL bulbs of the appropriate illumination levels. This condition is a must, unless specifically prescribed. The contractor is expected to go through all other conditions of the LEED & GRIHA rating stipulations.

Failure to adhere to any of the above mentioned items, without approval of the Engineer in Charge, shall be deemed as a violation of contract and the contractor shall be held liable for penalty as per terms of the agreement.

(SPECIMEN)
(Ref. para 3.7 of Particular Specifications and Special conditions)

**GUARANTEE TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECT AFTER COMPLETION
 IN RESPECT OF WATER PROOFING WORKS**

The Agreement made thisday oftwo thousand and betweenson ofof(hereinafter called the **Guarantor** of the one part) and the PRESIDENT OF INDIA (hereinafter called Government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated and made between the **GUARANTOR** of the one part and the Government of the other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said contract recited completely water and leak – proof.

AND WHEREAS **GUARANTOR** agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for ten years from the date of giving of water proofing treatment.

NOW THE **GUARANTOR** hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be ten years to be reckoned from the date after the maintenance period prescribed in the contract.

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose;

- (a) Misuse of roof shall mean any operation which will damage water proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;
- (b) Alteration shall mean construction of an additional storey or a part of the roof or construction adjoining to existing roof whereby proofing treatment is removed in parts;
- (c) The decision of the Engineer-in-charge with regard to cause of leakage shall be final.

During this period of guarantee the **guarantor** shall make good all defects and in case of any defect being found, render the building water –proof to the satisfaction of the Engineer-in-Charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-Charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other contractor at the **GUARANTOR'S** cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the **Guarantor** shall be final and binding.

That if **GUARANTOR** fails to execute the water proofing or commits breach thereunder then the **GUARANTOR** will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the **GUARANTOR** in performance and observance of this supplementary agreement. As to the amount of loss and / or damage and / or cost incurred by the Government the decision of the Engineer – in – Charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligor and by and for and on behalf of the PRESIDENT OF INDIA on the day, month and year above written.

Signed, sealed and delivered by OBLIGOR in the presence of –

1.
2.

Signed for and on behalf of THE PRESIDENT OF INDIA byin the presence of –

1.
2.

**CORRECTION SLIPS TO GENERAL CONDITIONS OF CONTRACT FOR
C.P.W.D. WORKS – 2014**

Existing Provision	Modified Provision
<p>Clause 25(ii) 5th Paragraph</p> <p>The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act 1996 (26 of 1996) or any statutory modification or reenactment thereof and the rules made thereunder the for the time being in force shall apply to the arbitration proceeding under this clause.</p>	<p>Clause 25(ii) 5th Paragraph</p> <p>The arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act 1996 (26 of 1996) / The Jammu & Kashmir Arbitration and Conciliation Act 1997 (35 of 1997) (as the case may be) or any statutory modification or reenactment thereof and the rules made thereunder the for the time being in force shall apply to the arbitration proceeding under this clause.</p>

LIST OF APPROVED MATERIALS (CIVIL)

Note :

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

MATERIALS:

BRAND/MAKE

	MATERIALS:	BRAND/MAKE
1	Acid/Alkali Resistant Tile	Somany, Nitco, Kajaria, Bell Granamite
2	Acrylic Emulsion Paint	Asian , ICI Dulux, Berger, Nerolac
3	Admixtures & Epoxy	FOSROC, Aquomix , Choksey
4	Aluminium Composite Panel	Alpolic, Aluco Bond, Reynobond, Euro bond, Alstrong
5	Aluminium Extrusions	Hindalco, Indalco, Jindal
6	Aluminum Sections	Jindal, Hindalco, Indalco
7	Annealed Float Glass	Saint Gobain, Modi Guard
8	Centrifugally Cast Iron Pipe & Fittings	Neco,SKF, BIS, RIF or equivalent
9	Ceramic Tiles	Kajaria, Somany, Nitco, Bell Ceramic or equivalent
10	Chequered tiles	Nitco, Super
11	CP Bottle Trap	Parryware, Hindware, Jaquar or equivalent.
12	CP Brass Bibcock, Pillarcock, Stopcock, Angle Valve, Concealed Stop Cock.	Marc, Jaquar, Grohe, Kohler or equivalent
13	CP fittings	Jaquar, Parryware, Grohe, Kohler, Somany.
14	CP Waste Coupling	Jaquar, Marc, Grohe, Kohler or equivalent
15	Curtain Carrier	Vista levlor or equivalent.
16	Dash fastener, Expansion Bolt	M/s Dev Ashish, Hilti, Fischer or equivalent
17	Door closer, Floor springs	Dorma, Hafle, Hardwyn, Falcon or approved equivalent.
18	Drapery Rod	Vista Levlor or equivalent.
20	EPDM Gasket	Anand Lescuyer, Hanu or equivalent.
21	Epoxy Primer & Paints	Berger, Pidilite, CICO, BASF, SIKA.
22	Fibre Glass Shelf	Kamal, Bath King or equivalent.
23	Float Glass	Modi Float, Saint Gobain, Asahi
24	Flush Doors (ISI Mark only)	Kutty flush door, Anchor, Century, Kitlam, Action-Tesa, Archid, A-1 Teak Products-Indore, M.P. Wood Industries-Indore
25	Flush Valve	Aquel, Marc, Parryware . Jaquar or equivalent.
26	FRP Shutters	Fibre Glass Engineers, Raipur, Aashoo Model or equivalent
27	Galvanized/Stainless Steel Anchor Fasteners	Shakti, Arrow, Hilti, Fischer
28	GI fitting	Tata, Jindal, Surya, Zenith
29	GI Pipe	Tata, Zenith, Jindal
30	Glass Mosaic Tile	Bissazza, Saon or equivalent.
31	Gun Metal Gate Valve	Zoloto, Leader, SAINT
32	Gypsum Board / False Ceiling	Boral Gypsum / India Gypsum/ Lafarge/ St. Gobain
33	Hardner	Hard crete of Snowcem India, MC Deritop F.H.
34	Hydraulic Door Closer	Hardwyn, Godrej, Dorma
35	Hydraulic Floor spring	Hardwyn, Godrej Dorma or equivalent.
36	Jet Assembly for EWC	Parryware , Jaquar, Grohe, Kohler or equivalent
37	Laminate and Veneers	Marino, Greenlam, Formica, Kitlam, Durian, Ventura
39	Melamine Polish	Asian Paint, Pidilite, ICI Dulu, Burger
40	Metal False Ceiling	Nittobo / Armstrong / Trac / Durlum / Lafarge

MATERIALS:**BRAND/MAKE**

41	Mineral Fibre Ceiling	Armstrong / Nitobo / Daikin /Hunter Douglas
42	Modular SS Railing System	Metallica Metals, D-line, Mobel Hardware.
43	M.S. Pipe (Railing)	Jindal / Tata, RINL, Prakash Surya
44	Marine Plywood / BWP Ply	Kitply / Duro / Century / Greenlam
46	Acrylic Distemper, Emulsion/ Synthetic Enamel Paint and Primer.	Asian, ICI Dulux, Berger, Nerolac
50	Ply Wood,	Kitply, Green ply, Century
52	Poly Sulphide / Silicon / Structural Silicon Sealant,	Pidilite, Choksey, Dow Corning, Wacker, GE, Du-pont
53	Polymer Modified Cementitious grout	Bal Endura, Pidilite or equivalent.
54	Pre-laminated Particle Board	Novapan, Kitlam, Action-Tesa, Associate or equivalent
55	Primer	Asian, ICI, Berger, Nerolac, Shalimar
56	PVC Rain Water Pipe & Fitting	Finolax, Kisan, Kasta, Supreme or equivalent.
57	PVC Shutter	Rajshri, Sintex or equivalent.
61	Stainless Steel	Jindal Stainless Steel, Salem Steel or equivalent
62	Stainless steel Sink with or without Draining board.	Nirali, Hindware, Frankee, Neelkanth, Jaquar
63	Stainless steel Door/Window fittings & Fixtures	Suzu, Dorma, ESSEMM, D.Line, Hettich
65	Structural steel section	TATA, SAIL, RINL
66	Super plasticizer	MC Bauchemie, Sika, Fosroc
68	Terrazzo tiles	Nitco, Bharat
69	Multicoat Synthetic Plaster/ Textured Exterior wall paint	Berger, Spectrum, Oikos, Snowcem, Heritage
70	Towel Ring/Towel Rod/Towel Rack	Marc, Jaquar, Grohe, Kohler or equivalent.
71	Tubular Section Windows	M/S Classic Engineers & Fabricator, Raipur, M/s JK Enterprises, Jaipur
73	Vitreous China Sanitaryware, Fittings & Fixtures	Hindware, Parryware, Jaquar or equivalent.
75	Vitrified Tile	Johnson Marbonite, Euro, Somany, Granito, Kajaria, Marbita
76	Waste Pipe	Kamal, Viking or equivalent
77	Water Proofing Compound (Liquid)	Pidilite, Cico, Impermo
78	White Cement	JK, Birla or equivalent.
79	CPVC Pipes	Astral Flowguard, Ashirvad, Prince, Supreme

SCHEDULES**[FOR (CIVIL) COMPONENT]****SCHEDULE 'A'**

Schedule of quantities (Enclosed)

Page No. **65 to 66 (Civil Work)****SCHEDULE 'B'**

Schedule of materials to be issued to the contractor.

S.No.	Description of item	Quantity	Place of Issue	Rates in figures & words at which the material will be charged to the contractor
1	2	3	4	5

1	2	3	4	5
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----- NIL -----

SCHEDULE 'C'

Tools and plants to be hired to the contractor

Sl. No.	Description	Hire charges per day	Place of Issue
1	2	3	4

1	2	3	4
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----- NIL -----

SCHEDULE 'D'

Extra schedule for specific requirements/documents for the work, if any.

----- NIL -----

SCHEDULE 'E'

General Conditions of Contract for CPWD

1. Reference to General Conditions of contract Works, 2014 as amended upto CON/282

Name of work: **“Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur.”**

Estimated cost of work

(i) Earnest money:

(ii) Performance guarantee :

(iii) Security Deposit:

Civil ₹ 1,59,598/-
₹3,200/- (To be adusted against Security Deposit)

₹7,980/- (5% of tendered value)

5% of tendered value plus 5% of performance guarantee for contract, involving maintenance of the building and services / other work after construction of same building and services / other work.

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

Officer inviting tender -

Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3.

Definitions:

2(v) Engineer-in-Charge

2(viii) Accepting Authority

2(x) Percentage on cost of materials and labour to cover all overheads and profits.

2(xi) Standard schedule of Rates

The Assistant Engineer (C), AIIMS, Raipur

see below

The Assistant Engineer, AIIMS Raipur

The Assistant Engineer, AIIMS Raipur

25% (Fifteen per cent)

For Civil: -

Delhi Schedule of Rate 2014 for Internal Civil Works and Schedule of Rate 2014 for External Civil Works with correction slips issued upto date of receipt of tender.
AIIMS Raipur

2(xii) Department

9(ii) CPWD Form 8 (Print edition -2014) as modified Standard CPWD contract Form

& corrected upto DGW/CON/ 282

Clause 1	(i) Time allowed for submission of Performance guarantee from the Date of issue of letter of acceptance	: 15 day
	(ii) Maximum allowable extension with late fee @ 0.10% per day of performance guarantee amount beyond the period as provided in (i) above	: 1 to 15 days
Clause 2	Authority for fixing compensation under clause 2	: Assistant Engineer (C), AIIMS Raipur
Clause 2A	Whether clause 2A shall be applicable	: Not Applicable
Clause 3	When Contract can be determined	: Applicable
Clause 4	Contractor liable to pay compensation even if action not taken under clause 3	: Applicable
Clause 5	No. of days from the date of issue of letter of acceptance for reckoning date of start	: 10 days

Milestone(s) :- as per Table given below

Table of milestone(s)

Mile stone as per Civil Work (PART – C)

S No	Description of Milestone (Physical)	Time allowed (From date of start)	Amount to be withheld in case of non-achievement of milestone as assessed from the running payments
1.	25% of works should be completed (Financially)	3 Months	1.25% of agreement amount will be withheld from running bill for each milestone which shall be not achieved.
2.	50% of works should be completed (Financially)	6 Months	
3.	75% of works should be completed (Financially)	9 Months	
4.	100% of works should be completed (physically & Financially)	12 Months	

Time allowed for execution of work

01 (One) Month.

Authority to decide

(i) Extension of Time

Assistant Engineer (C), AIIMS Raipur.

(ii) Rescheduling of mile stones

Not Applicable

(iii) Shifting of date of start in

Assistant Engineer (C), AIIMS Raipur.

case of delay in handing over site

Clause 6	Measurement of work done	: Applicable
Clause 6A	Computerised measurement book	: Not Applicable
Clause 7	Payment of intermediate certificate to be regarded as advances	: Not Applicable
Clause 8	Completion Certificate and completion plans	: Applicable
Clause 9	Payment of Final bill	: Applicable

Clause10A	List of testing equipment to be provided by the contractor at site lab	As per instructions given and required by Engineer In charge
Clause10B	Whether clause 10B shall be applicable	Not Applicable
Clause10C	Component of labour expressed as Percent of value of work	25 %
Clause10CA	Payment due to variation in prices of materials after receipt of tender.	Not Applicable
Clause10CC	Clause 10CC to be applicable in contracts with stipulated period of compensation exceeding the period shown in next column	: Not Applicable
Clause 11	Work to be executed in accordance with specifications, drawings, orders etc.	: Applicable
Clause 12	Deviation limit beyond which clauses 12.2 & 12.3 shall apply for overall work.	: 30%
Clause 13	Forecloser of contract due to abandonment or reduction in scope of work	: Applicable
Clause 14	Carrying out part work at risk and cost of contractor	: Applicable
Clause 15	Suspension of work	: Applicable
Clause 16	Competent Authority for deciding reduced rates for Civil	:Assistant Engineer(C), AIIMS Raipur,
Clause 18	List of mandatory machines, tools and plants to be deployed by the contractor at site.	As required by Engineer in Charge
Clause 19	Labour Law to be complied by the contractor	: Applicable
Clause 20	Minimum wages act to be complied	: Applicable
Clause 25	Settlement of dispute and Arbitration	: Decided by Superintending Engineer, AIIMS Raipur
36(i)		Not Applicable

“Requirement of Technical Representative(s) and Recovery Rate for Civil works

SNo	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical representative)	Minimum experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Clause 36(i)	
						Figures	Words
4	Graduate Engineer OR Diploma (3 Years) Engineer	CIVIL	Technical Representative cum site Engineer	Freshers OR 5-years	ONE	₹15000/- PM.	Rupees Fifteen Thousand Per Month each

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

Clause 42(Not applicable for Civilworks)**RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION**

Sl No.	Description of item	Rates in figures and words at which Recovery shall be made from the Contractor	
		Excess beyond Permissible variation	Less use beyond the permissible variation
1.	Cement	N.A.	
2.	Steel Reinforcement	N.A.	

PROPOSAL FOR ASSOCIATING CIVIL AGENCIES for CIVIL WORK

We hereby propose the following Civil agencies as per details mentioned against each. Their consent letters are also attached as per Annexure II

S No.	Name of Civil contractor/ Firm	Category and class of registration in CPWD , MES, BSNL, Chhattisgarh State PWD / Work experience	Registration No.	Monetary limit of work	Validity of registration	Consent letter attached (yes/No)
1.						
2.						
3.						

Note :- A copy of registration order/ Work experience shall be attached for each agency.

Contractor's signature

CONSENT LETTER

I/We hereby give my/ our consent to work as Civil contractor till the completion of work and I/we will be responsible for necessary action to hand over the work and for rectification of defects and repair during the maintenance period. I/we will execute the work as per CPWD specification and additional conditions of the works.

I/we will also engage suitable Engineer for the work as per condition of work. I further certify that the above particulars pertaining to me are correct.

Signature of Civil Contractor

Memorandum of Understanding**Rs. 100/- Non-judicial stamp**

This Memorandum of Understanding (MOU) is made on the _____ at _____

Between

M/s _____ (Main Contractor) having his registered office at _____ which expression shall unless repugnant to the subject or context include its administrators, successors and assigns.

And

M/s _____ (Associate contractor) registered in CPWD, MES, BSNL, Chhattisgarh State PWD as class : _____ Civil contractor and having his registered office at _____ which expression shall unless repugnant to the subject or context include its administrators, successors and assign.

Whereas, the All India Institute of Medical Sciences Raipur, have issued tender papers to quote for the following work to M/s _____ (Main Contractor).

Name of work: "Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur"

Whereas, This Memorandum of Understanding has been entered into to execute the above work by the Main Contractor and Associate Contractor.

Whereas, both the parties have gone through and understood the various conditions and clauses of the tender and willingly agree to abide by them.

This MOU shall be valid till the duration of completion of above work and shall be extended if so required by the AIIMS Raipur.

Now, therefore it is agreed between the parties here to as follows :-

- 1 :- The associated Civil contractor shall completely execute, perform and do all the works mentioned and described in the main agreement for its Civil components according to the specifications, terms and conditions etc. of the main agreement.
- 2 :- The associated Civil contractor shall execute and complete the works in all respect up to full satisfaction of the AIIMS Raipur officers and attend to them during their inspection at site, meetings etc., whenever required by the AIIMS Raipur officers.
- 3 :- The cost of Civil works executed by the associated Civil contractor will include the cost of all the materials, accessories, equipments, tools & plants, laborers technical persons required etc. in all respect.
- 4 :- The associated Civil contractor is responsible for getting recorded measurements and preparation, submissions & pursuance of payment of the bills of the work done for Civil portion of the main agreement.
- 5 :- **The rate will be as per the schedule enclosed.**
- 6 :- The Quantity will be as per actual measurement as received from AIIMS Raipur to main contractor and the rate will be as per the mutually agreed.
- 7 :- The payment to associate contractor will be released after the payment to main contractor is made by the AIIMS Raipur.
- 8 :- The technical staff required for the associate discipline shall be of associate contractor.
- 9 :- The guarantee of the installation after the completion of the work shall be responsibility of the

associate Civil contractor as required by the AIIMS Raipur.

- 10 :- There is no service tax liability; work being related to the construction of the Central Govt. Deptt. However, if any liability of the service tax is imposed on the associated Civil contractor then it will be paid by main contractor.
- 11 :- Either party shall not repudiate the contract in mid way without the consent of each other. Otherwise it will be treated as breach of agreement for any reason whatsoever.
- 12 :- The main agency shall be solely responsible for deferment & rescheduling of each milestone fixed as per contract documents and in such eventuality, the consequences arising out of the same rests on main agency.
- 13 :- The main contractor only shall be responsible for getting extension of delay regularized and liability what so ever flowing out shall lies with them. There shall be no direct or indirect impact on associate contractor.
- 14 :- TDS shall be deducted by the main contractor as per Income Tax law from associated agency. In case liability of tax other than Income Tax (Such as vat, service tax, or any other mechanism formed) is levied on associated contractor then the main agency will reimburse it in full to associated agency.
- 15 :- The associated contractor shall be bound to execute work upto a deviation limit of 30% in quantities of items of work at the agreement rate. Beyond deviation limit the rates will be decided by main & Associated contractor on mutually agreed basis.
- 16 :- For the items such as extra items, substitute items and new items other than the items of main agreement, if any incorporated in the work, and then the main contractor shall pay the full amount so approved to the associate contractor.
- 17 :- The validity of rates shall be _____ months after finalization & acceptance of MOU by the competent authority.
- 18 :- In case main contractor delays the payment to associated contractor after the payment is released by department to the main contractor then on receipt of delay in payment from associate contractor the AIIMS Raipur shall directly make the payment to associated contractor.
- 19 :- The main contractor shall at their cost provide necessary requisite arrangement for storage of material.
- 20 :- Sand & cement used in the Civil work shall be provide by main contractor.
- 21 :- Security Deposit as deducted by the AIIMS Raipur will be reimbursed by main contractor to associate contractor. However associated Civil contractor will deposit 2 ½ % of Agreement amount of Rs. _____ in shape of FDR towards S/D to be retained by main contractor which will refunded to Civil contractor after completion of Civil work.
- 22 :- The Income tax, Commercial tax and labour cess tax deducted by the AIIMS Raipur from the bills of Civilwork shall be reimbursed by the main contractor in favour of the associated Civil contractor accordingly.

In witness where of we have put our hand seal on date _____.

Enclose:- Schedule of rates.

Signature
(Associate Contractor)
Address : _____

Signature
(Major Contractor)
Address : _____

ADDITIONAL TERMS AND CONDITIONS

**Package (A) Civil installation &
(B) Security Light**

- 1 Any damage done to the man, machine and building during the execution of work shall be the responsibility of the contractor and same will have to be made good promptly by the contractor at his own cost to the entire satisfaction of the Engineer-in-Charge.
- 2 The Civil work shall be executed in close coordinated manner with client department. Quarters are occupied and shall be made available as and when vacated during the currency of tender. No claim for idle labour will be admissible.
- 3 Conduit layout drawing shall be got approval by Engineer -in-Charge before lying of conduit.

4 Watch and ward:-

Watch & ward for the installations, materials, including materials supplied by the department shall be responsibility of the contractor till the installations / left over materials are finally taken over by the department. Nothing shall be payable on this account separately as this is deemed to be included within scope of work.

5 Completeness of tender:-

- (a) Statutory deduction of “Contract Tax” at source shall be made while releasing payment through running / final bills. A certificate specifying the rate and amount of deduction shall however be issued.
- (b) No. form `D`, form 31/32 (Road Permit) shall be issued by the department.

6 Conformity to specifications:-

- (a) The work shall be carried out strictly in accordance with C.P.W.D General Specifications for Civil Works as amended up to date and also as per the instructions of the Engineer-in-Charge.
- (b) Materials to be used confirming to relevent IS and should be from approved manufacturer from CPWD.
- (c) All accessories like locks, SS Handles, Tower Bolts, Aldrops, Door Closers, and Glasses, Sanitary / Plumbing items shall be ISI marked.

- (d) Contractor shall have to prove bonafides of the make of materials by producing necessary documentary evidence. Firms are advised accordingly to obtain prior approval of Engineer- in-Charge for proposed make of materials before bringing materials to site of work.

(7) Earthing connections:-

- I. All fans & fittings are to be properly earthed for which no extra will be paid.
- II. Proper sleeving is to be provided to bare earth conductor in the switch boxes and also to bare conductors used for inter switch looping inside the switch boxes for which no extra will be paid.
- III. Termination of wiring inside DB's & main boards should be by crimped connections.
- IV. Clamp type termination of earth strip (wherever provided) to pipe electrode will be made.

- (8)(a)** The following are the acceptable makes of materials as indicated against individual items:

Sl. No.	Item	Acceptable Makes
1	PVC insulated Copper wire / Telephone wire	HPL / KEI / HAVELLS / RR Kabel / Polycab / Finolex/ Anchor/ L&T / NICCO (All with ISI Marked)
2	MCCB / Switch Gear with Thermomagnetic releases	L&T/Seimens/Legrand / Schneider/Hager/ABB/ GE/ Adhunik, C&S Electric
3	MCCB with Variable microprocessors based releases (o/c, s/c, e/f)	L & T (D-Sine) , ABB (ISO Max), Siemens, Schneider (NS Compact), GE (Recold Plus), Legrand (DPX)
4	MCB / MCB Prewired DB / RCCB/ Industrial Socket not less than 10 K.	Legrand / L&T / Hager / Seimens / Schneider/ MDS/ Havells/ ABB/ MDS ,GE, Hager, ABB, Siemens, Schneider, Adhunik, Havells, Indoasian
5	Steel Conduit.	BEC / AKG / MK, NIC, Rama, Novel
6	PVC Conduit	AKG, MK, Anchor, Finolex, Steel Craft, Saraswati, Swastik
7	Casing Caping	Saraswati, Polycab
8	Call Bell / Buzzer / Ceiling rose / Electronic Regulator.	Anchor / Vinay Clair / Polo Rider / North West.
9	Brass Batten / Angle Holder.	Kinjal / Antex / Emperor.

10	Modular Switch / Socket / Blanking Plate /PVC Box / Metal Switch Box (the gauge of switch Box shall not less than 18 SWG & of the same make that of Switch) Front Plates, Telephone, T.V. Outlets Socket / Fan Regulator.	Clipsal, Crabtree, Anchor, L & T, ROMA, Siemens Northwest, MK (Blenze) / Legrand (Arteor) / Schneider (ZENCELO).
11	Lamp for (light fittings)	Philips / Osram/ GE/ Bajaj/ Wipro/Crompton .
12	XLPE insulated PVC sheathed 1.1 KV grade Al. conductor armoured UG cable.	Finolex/ Cable Corporation of India / R.R. Kabels/ Universal Cable.
13	Galvanize Octagonal Street light pole/ High Mast & galvonised bracket.	Bajaj/ Transrail/ Valmont/Aster.
14	HRC Protection Fuses/ Fuse Fittings.	Siemens/ L&T/ Schneider
15	Selector Switches/ Indicating Lamps (LED type)	AE/ Enercon/ L&T/ Neptune/ Conserve/ Secure/ Keycee/ Vaishnav
16	Digital Ammeter/ Voltmeter	Conserve/ Secure/Enercon/AE/ MECO/ Universal/ Rishab/ Yokins
17	Current. Transformer	L&T/ A.E./ Kappa/ IMP/ GE
18	LUGS, Thimble, Cable Glands	Dowels/ Multi/ COMET/ Hex/ Jhonson / Gripwell/ Comex/Comed
19	Timer	L&T/ Siemens/ Schinder/ Hager/ Legrand
20	Modular Blanking Plate	Clipsal, Crabtree, MK, Anchor, Legrand, L&T, ROMA, Siemens Northwest
21	G.I. Pipe	Jindal/ Tata/ Prakash/Surya
21	Power contactor	L&T / Siemens / Schinder/Lengrand
22	Fluorescent Tube Fittings	Surya, Keslec, Trilux, Bajaj, Osram, GE , Wipro, Crompton Philips
23	Tap-off Box (Plug in Type), End Feed Unit	C&S Electric & Switvhgear, L & T, ABB, Siemens, Schneider, Tricolite
24	LT Panels / Feeder Pillars / Floor Panels for upto 400A i/c switchgear	L & T, ABB, Siemens, Schneider, Tricolite, Adlec, CRS, Sudhir, Jakson, Advance Panel (Narela), Adhunik, Havells, Indoasian.
25	MPCB	L&T, ABB, Siemens, Schneider

- 1) If any makes stated above does not comply with the technical specifications given in the tender, then such a make shall not be allowed.
- 2) If for any Material Makes not given. It should be got approved from the Engineer incharge.

(b) On completion of work the contractor shall arrange for insulation and earth continuity test as per IE rules in the presence of the Engineer – in – Charge or his representative and shall submit the test report in triplicate.

9 Date of acceptance of the installation:-

- (a) After the Engineer – in – Charge is satisfied that the installation complies with requirements of specifications in all respect.
- (b) The entire installation shall be at the risk and responsibility of the contractor until these are tested and handed over to the department. However, if there is any delay from the department side, the installation may be taken over in parts but the decision on the same shall be binding on the contractor.
- (c.) Contractor or his authorized representative is bound to sign the site order book as and when required by the Engineer-in-Charge.
- (d) The contractor shall remain responsible for attending complaints free of cost for the minimum period of One Year for satisfactory performance of installations against the scheduled work done.
- (e) If any makes stated above does not comply with the technical specification given in the tender then such a make shall not be allowed.
- (f) If for any Material Makes not given, it should be got approved from the Engineer - in - Charge.

SCHEDULE OF QUANTITY -**[Major Component – Civil]**

Name of Work: Providing Aluminium partition to start Intensive care unit in the existing Casualty/Emergency/Trauma ward of Trauma building & Replacement work of existing/damage submersible pump by new submersible pump with necessary fittings to ensure water supply for NSH, Mess at AIIMS Raipur.

Sr No	Description of item	Qty	Unit	Rate in ₹		Amount
				In Figure	In Word	
	<u>Aluminium Works</u>					
1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.(Glazing, paneling and dash fasteners to be paid for separately)					
1.1	For fixed portion					
1.1.1	Powder coated aluminium (minimum thickness of polyester powder coating 50 micron	160	Kg			
1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing offittings wherever required including the cost of EPDM rubber /neoprene gasket required (Fittings shall be paid for separately)					
1.2.1	Powder coated aluminium (minimum thickness of polyester powder coating 50 micron	15	Kg			
2	Providing and fixing 12 mm thick prelaminate particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.					
2.1	Pre-laminated particle board with decorative lamination on both sides	20	Sq.m.			
3	Providing and fixing Stainless steel Handles,230mm or approved	4	Set			
4	Providing and fixing 4 lever Lock Godrej (100mm for aluminium door) or equivalent	2	Nos.			
5	Providing and fixing T rubber/Door Vertical Brush (to filling gap between door and frame)	10	RM			

6	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge.(Cost of aluminium snap beading shall be paid in basic item):					
6.1	With float glass panes of 5.5 mm thickness	5	Sq.m.			
6.2	With 5 mm Pin Head Glass	5	Sq.m.			
6.3	With 12 mm thick Plain Glass	1	Sq.m.			
7	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.					
7.1	Upto 5mm depth and 5 mm width	10	meter			
8	Providing and fixing channel with rollers and accessories for Aluminium Sliding door with complete fittings as per direction of Engineer in charge.	8	meter			
9	Providing & Installation of submersible pump 3HP 22 Stage 3 phase of approved make like C.R.I. , KSB, Kirloskar or equivalent i/c all necessary connections as per requirement.	1	each			
10	Removing 50MM dia G.I pipe from existing borewell i/c submersible pump & cable with dismembering each pipe from socket with mechanical arrangement by Hydra and required all man power for the work complete	285	Feet			
11	Lowring of 50MM G.I pipe in borewell with cable etc with mechanical arrangement by HYDRA and require all man power to complete the work	285	Feet			
12	Providing and fixing cable jointer Kit, G.I Fittings in existing borewell pump line as per requirement:					
12.1	Cable Jointer Kit	2	each			
12.2	G.I Socket 50MM Heavy Duty	5	each			
12.3	G.I Reducer Socket 50 x 40MM Heavy Duty	1	each			
12.4	G.I Nipple 40 x 300 MM Heavy Duty	1	each			

Total Amount in Word and Figure

(Signature of Agency)

**Assistant Engineer (C),
AIIMS Raipur**