



Agra Smart City Limited, Agra

Tender Document for

Construction of Integrated Command Control Centre Building in Agra Nagar Nigam/Agra Smart City Office Premises including five years of operation and maintenance.

Agra Smart City Limited (ASCL), Office of Nagar Nigam,

Agra, UP-282001

Issued on: 28.10.2018

FOR THE WORK: Construction of Integrated Command Control Centre Building in Agra Nagar Nigam/Agra Smart City Office Premises including five years of operation and maintenance.

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**AGRA SMART CITY LIMITED
AGRA**

**COVER-1
TECHNICAL BID**

SECTION 1

**LIST OF IMPORTANT DATES
NOTICE INVITING TENDER**

SECTION I

List of Important Dates of Bids for Construction Related to Project under ASCL

1	Name of Work:	Construction of Integrated Command Control Centre Building in Agra Nagar Nigam/Agra Smart City Office Premises including five years of operation and maintenance.
2	Completion Period for construction:	AS PER NIT including rainy Season.
3	Date of Issue of Notice Inviting Bid.	26.10.2018
4	Period and Places of Availability of Bidding Documents From:	26.10.2018 To 12.11.2018 Till 17:30 Hrs On line on http://etender.up.nic.in
5	Time, and Date of Pre-bid meeting,	Date: 03.11.2018 Time – 04:00 P.M At Office of Agra Smart City Limited, Agra Nagar Nigam, Agra.
6	Deadline for Receiving Bids online only,	Date 12.11.2018 Time– 05:30 P.M.
7	Time and Date for opening Technical Bid/Bids online,	Date 13.11.2018 Time:- 04.00 PM onwards At Office of Agra Smart City Limited, ASCL, Agra.
8	Time and Date of opening Financial Bids online	Date to be notified after technical evaluation
9	Last Date of Bid Validity	90 days from date of submission of Bid
10	Officer inviting Bids	Office of the Chief Executive Officer, Agra Smart City Limited, Agra

Notice Inviting Tender

No- 23/ ASCL/ICCC Center/OCT-18

Dated 25.10.2018

1. The **CEO, Agra Smart City Limited, Agra** on behalf of Government of Uttar Pradesh invites the percentage rate bids online from the eligible and approved Contractors registered with UP PWD , class 'A' & 'B' **The Bidder may submit bids for any or all of the works. Bidders are advised to note the minimum qualification criteria specified in Clause 4 of the Instructions to Bidders to qualify for the award of the contract.**

2.

S N	Name of Work	Estimated cost (Rs)	EMD (Rs)	Cost of Document (in Rs.)	Address of the Executing the work
1	2	3	4	5	6
1.	Construction of Integrated Command Control Centre Building in Agra Nagar Nigam/Agra Smart City Office Premises including five years of operation and maintenance.	2,18,22,100.00	8,17,595.00	Rs. 3400/- + 18% G.S.T	Agra.

3. **Time allowed for completion of Whole work is 02 Month excluding Monsoon Period.**
4. The bids shall remain valid for acceptance for a period of **THREE MONTHS** days from the last date of submission of Bids. Bids once submitted cannot be withdrawn.
5. Bids must be accompanied by non-refundable fee as indicated in Column 5 of the above table, in the form of **Demand Draft on any Schedule bank, for amount indicated in favour of "Chief Executive Officer, Agra Smart City Limited, Agra" payable at Agra. A set of bidding documents (T-2) will be available online on website <http://etender.up.nic.in>.**
6. Bids must be submitted online on or before **05:30 PM on dated 12.11.2018** and the technical bids will be opened online, dated **13-11-2018 at 04:00 PM**. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened online on the next working day, at the same time and validity of bid will be considered from the original date. The date and time of opening of the financial bid shall be notified on website. The Financial bids shall be accordingly opened online.
7. A pre-bid meeting shall be held in the **Agra Smart City Limited Agra, Conference Hall, Agra** for the work on date **03.11.2018 at 04.00 PM** corresponding to the respective package to clarify the issues and to answer questions on any matter that may be raised at that stage.
8. Bids must be accompanied with security of the amount specified for the work in the table. Bid security will have to be in any one of the forms as specified in the bidding document and shall be valid for 45 days beyond the validity of the bid. Bid security pledged in favour of **"Chief Executive Officer, Agra Smart City Limited, Agra"**.
9. No Engineer of Gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in an Engineering Department of the State / Central Government is

allowed to work as a Contractor for a period of two years after his retirement from Government service, without Government permission. 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 as aforesaid before submission of the tender or engagement in the Contractor's service.

10. Bid documents and other details consisting of qualification information and eligibility criterion of bidders, plans, specifications, drawings, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the Contractor can be seen in the office of the CEO, Agra Smart City Ltd., Agra between hours of 11.00 am and 04.00 PM on any working day between **25.10.2018 & 12.11.2018**.
11. Any bidder who is having criminal record is not allowed to participate in the bidding process.
12. Any bidder who is registered with the state Bar Council is not allowed to participate in the bidding process.
13. Each bidder is required to furnish an affidavit online on a non-judicial stamp paper of Rs. 100/-giving all information on prescribed Performa required for evaluation of the bidding capacity of the bidder.
14. Bidder must submit scan copy of original information/document on prescribed Performa i.e.,T4, T5, T6 with each bid original must be produced when asked for at the time of opening of the bid.
15. **Bidder's must comply with as per G.O. No. 3070/78-2-2018-42IT/2017 (22) date 03.01.2018 Non Compliance will be treated as failure. To the condition of the bid and as a valid reason to disqualify the bid's. And bid security should be submitted in the office of Chief Executive Officer, Agra Smart City Limited, Agra after opening Technical & Financial bid of participating work.**
16. 1% Labour Cess will be deducted from the Contractor Bill.
17. The Extra Security /Performance Guarantee will be accepted as per G.O. No. 622/23-12-202-2Audit/08TC-2Lucknow Dated 08.06.2012.
 - A. Up to 10 Percent below Rates on BOQ @ 0.50 % Per 1 % below Rate.
 - B. In case of Bidders Quote the Rate More Than 10% below on BOQ Then Bidder Has to Provide Extra Security @ 1% Per 1% Below Rate
18. GST Shall Be Applicable As Per G.O.No 1614/23-10-2017-12(Samanya)/2017 Date 09.11.2017

Section 2: Instructions to Bidders
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Instructions to Bidders (ITB)

A. General

1. Scope of Bid

- 1.1. The Employer as defined in the Appendix to ITB invites bids for the construction of Works as described in these documents and referred to as “the works”. The name and identification number of the works is provided in the Appendix to ITB. The bidders may submit bids for any or all of the works detailed in the table given in the Notice Inviting Tender. Bid for each work should be submitted separately.
- 1.2. The successful Bidder will be expected to complete the Works by the Intended Completion Date specified in the Part I General Conditions of Contract.
- 1.3. Throughout these documents, the terms “bid” and “tender” and their derivatives (bidder/ tendered, bid/ tender, bidding/ tendering, etc.) are synonymous.

2. Source of Funds

- 2.1. The Government of the State U.P. as defined in the Appendix to ITB has decided to undertake the works of construction of roads
- 2.2. The Government of the Central has decided to provide funds for the construction of the infrastructural work.

3. Eligible Bidders

- 3.1. This Invitation for Bids is open to all bidders as defined in the Appendix to ITB.
- 3.2. Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.
- 3.3. Any bidders having **criminal record** is not allowed to participate in the online bidding process. Any person who is having criminal cases against him or involved in the **organized crime or gangster activities or Mafia or Goonda or Anti social activity** are strictly prohibited to participate in the bidding process. If it is established that any bidder has **criminal record, his bid shall be automatically cancelled.**
- 3.4. The bidder has to produce attested true copies of the solvency & character certificates issued by the competent authority with the bid document along with an affidavit verifying that these two documents are valid. However, these original certificates should be produced by them at the time of opening the bids. If the competent authority is not satisfied after comparing attested copies with the originals, it may reject the bid as if the required documents were not produced all.
The bidder has also to produce self declaratory affidavit (on the attached prescribed proforma) in original with the bid documents.
- 3.5. Any bidder who is an Advocate and Registered with any State Bar Council Shall not be allowed to participate in the bidding. If it is established that the contractor is registered with the state bar council, **his bid shall be automatically cancelled.**

4. Qualification of the Bidder

- 4.1. All bidders shall provide in Section 3, Forms of Bid and Qualification information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary.
- 4.2. All bidders shall include the following information and documents with their bids in Section 3, Qualification Information unless otherwise stated in the Appendix to ITB:
 - (a) copies of original documents defining the constitution or legal status, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;

- (b) Total monetary value of civil construction works performed for each of the last five years;
- (c) Experience in works of a similar nature and size for each of the last five years, and details of works in progress or contractually committed with certificates from the concerned officer or equivalent;
- (d) Evidence of ownership of major items of construction equipment named in Clause 4.4 B (b) (i) of ITB or evidence of arrangement of possessing them on hire/lease/buying as defined therein.
- (e) Details of the technical personnel proposed to be employed for the Contract having the qualifications defined in Clause 4.4 (b) (ii) of ITB for the construction.
- (f) Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past three years;
- (g) an undertaking that the bidder will be able to invest a minimum of cash up to the percentage (defined in the Appendix to ITB) of the contract price of works, during the implementation of the works;
- (h) Evidence of access to line(s) of credit and availability of other financial resources/ facilities (10 percent of the contract value) certified by banker (the certificate being not more than 3 months old.)
- (i) Authority to seek references from the Bidder's bankers;
- (j) information regarding any litigation or arbitration during the last five years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;
- (k) Proposal for subcontracting the components of the works for construction/ Up gradation aggregating not more than 25% of the contract price: -and
- (l) The proposed methodology and program of construction, backed with equipment and material planning and deployment, duly supported with broad calculations and Quality Management Plan proposed to be adopted, justifying their capability of execution and completion of the work as per technical specifications and within the stipulated period of completion. .

4.3. **Bids from joint venture are not allowed.**

4.4. A To qualify for award of the Contract, each bidder should have in the last five years:

- a) Achieved in any one year a minimum financial turnover (in all cases of civil engineering construction works only) volume of construction work of at least the amount equal to the estimated cost of works(excluding maintenance cost for five years for which bid has been invited. The turnover will be indexed at the rate of 8 percent for a year.
- b) Satisfactorily completed, as prime Contractor, at least one similar work equal in value to one-third of the estimated cost of work (excluding maintenance cost for five years) for which the bid is invited, or such higher amount as may be specified in the Appendix to ITB.

4.4.B (a) Each bidder must attach:

- (i) The current income-tax clearance certificate;
- (ii) An affidavit that the information furnished with the bid documents is correct in all respects; and
- (iii) Such other certificates as defined in the Appendix to ITB. Failure to produce the certificates shall make the bid non-responsive.

(b) Each bidder must demonstrate:

- (i) Availability for construction work, of the owned, key equipment stated in the Appendix to ITB including equipment required for establishing field laboratory to perform mandatory tests, and those stated in the Appendix to ITB;
- (ii) Availability for construction work of technical personnel as stated in the Appendix to ITB.

(iii) Liquid assets and /or credit facilities, net of other contractual commitments and exclusive of any advance payments which may be made under the Contract, of not less than the amount specified in the Appendix to ITB;

(c) The bidder must not have in his employment:

(i) The near relations (defined as first blood relations, and their spouses, of the bidder or the bidder's spouse) of persons listed in the Appendix to ITB.

(ii) Without Government permission, any person who retired as gazetted officer within the last two years of the rank and from the departments listed in the Appendix to ITB.

4.4.C To qualify for a package of contracts made up of this and other contracts for which bids are invited in the Notice Inviting Tender, the bidder must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for the individual contracts.

4.5. Sub contractors experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria except to the extent stated in 4.4 A above

4.6. Bidders who meet the minimum qualification criteria will be qualified only if their available bid capacity for construction work is equal to or more than the total bid value. The available bid capacity will be calculated as under:

$$\text{Assessed Available Bid capacity} = (A * N * M - B)$$

Where

A = Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the last year at the rate of 8 percent a year) taking into account the completed as well as works in progress.

N = Number of years prescribed for completion of the works for which bids are invited (period up to 6 months to be taken as half-year and more than 6 months as one year).

M = M is taken 2.5

B = Value, at the current price level, of existing commitments and on-going works to be completed during the period of completion of the works for which bids are invited.

Note: The statements showing the value of existing commitments and on-going works as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer in charge, not below the rank of an Executive Engineer or equivalent.

4.7. Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:

(i) Made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or

(ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.

(iii) Participated in the previous bidding for the same work and had quoted unreasonably high or low bid prices and could not furnish rational justification for it to the Employer.

5. One Bid per Bidder

5.1. Each Bidder shall submit only one Bid for one work. A Bidder who submits more than one Bid will cause the proposals with the Bidder's participation to be disqualified.

6. Cost of Bidding

- 6.1. The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will, in no case, be responsible or liable for those costs.

7. Site Visit

- 7.1. The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarize himself with the Site of Works and its surroundings including source of earth, water, road aggregates etc. and obtain all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense. He may contact the person whose contact details are given in the Appendix to ITB.

B. Bidding Documents

8. Content of Bidding Documents

- 8.1. The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause 10 of ITB.

1. Notice Inviting Tender
2. Instructions to Bidders
3. Qualification Information
4. Conditions of Contract

(Part I General Conditions of Contract, and Contract Data; Part II Special Conditions of Contract)

5. Specifications
6. Drawings
7. Bill of Quantities
8. Form of Bid
9. Form of Acceptance, Form of Agreement, Issue of Notice to Proceed with the Work, form of Unconditional Bank Guarantee.

- 8.2. Bidding document will be available online on the website <http://etender.up.nic.in>.

- 8.3. The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms and specifications, bill of quantities, forms and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 25 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be rejected.

9. Clarification of Bidding Documents and Pre-bid Meeting

- 9.1. A prospective bidder requiring any clarification of the bidding document may notify the employer in writing or by cable ("cable" includes Telex and facsimile) at the employer address indicated in the Notice inviting tenders. The Employer will respond to any request for clarification received earlier than 10 Days prior to the dead line for submission of bid. Copies of the employer's response will be forwarded to all purchasers of the bidding documents, including a description of the enquiry, but without identifying its source
- 9.2. If a pre-bid meeting is to be held, the bidder or his authorized representative is invited to attend it. Its date, time and address are given in the Appendix to ITB.
 - 9.2.1. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
 - 9.2.2. The bidder is requested to submit any questions in writing or by cable so as to reach the Employer not later than one week before the meeting.
 - 9.2.3. Minutes of the meeting, including the text of the questions raised (without identifying the source of the enquiry) and the responses given will be transmitted online (or otherwise). Any modifications of the bidding documents listed in Clause 8.1 of ITB, which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively online through the issue of an Addendum pursuant to Clause 10 of ITB and not through the minutes of the pre-bid meeting.

- 9.2.4. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.
- 10. Amendment of Bidding Documents**
- 10.1. Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda online.
- 10.2. Any addendum thus issued shall be part of the bidding documents.
- 10.3. To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with Clause 20.2 of ITB.
- C. Preparation of Bids**
- 11. Language of Bid**
- 11.1. All documents relating to the Bid shall be in the language specified in the Appendix to ITB.
- 12. Documents Comprising the Bid**
- 12.1. The Bid submitted by the Bidder shall be in two separate parts:
- Part I** This shall be named Technical Bid and shall comprise of:
- I. Earnest Money;
 - II. Qualification information, supporting documents, affidavit and undertaking as specified in Clause 4 of ITB.
 - III. Undertaking that the bid shall remain valid for the period specified in clause 15.1 of ITB.
 - IV. Any other information / documents required to be completed and submitted by bidders, as specified in the appendix to ITB, and
 - V. An affidavit affirming that information he has furnished in the bidding document is correct to the best of his knowledge and belief.
- Part II.** It shall be named Financial Bid and shall comprise of:
- i) Form of Bid as specified in Section 6;
 - ii) Priced bill of quantities for items specified in Section 7;
- 12.2. The following documents, which are not submitted with the bid, will be deemed to be part of the bid. section particulars
1. Notice inviting Tender
 2. Instruction to the bidders
 3. Conditions of Contract
 4. Contract Data
 5. Specifications
 6. Drawings
- 13. Bid Prices**
- 13.1. The Contract shall be for the whole Works, as described in Clause 1. 1 of ITB, based on the priced Bill of Quantities submitted by the Bidder.
- 13.2. The Bidder shall adopt the Percentage Rate Method as specified in the Appendix to ITB; only the same option is allowed to all the Bidders. Percentage Rate Method requires the bidder to quote a percentage above / below/ at par of the schedule of rates specified in the Appendix to ITB.
- 13.3. All duties, taxes, royalties and other levies payable by the Contractor under the Contract, or for any other cause, shall be included in the rates, prices, and total Bid price submitted by the Bidder.
- 13.4. The rates and prices quoted by the Bidder shall be fixed for the duration of the Contract and shall not be subject to adjustment.
- 14. Currencies of Bid**
- 14.1. The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees.
- 15. Bid Validity**

- 15.1. Bids shall remain valid for a period of ninety days after the deadline date for bid submission specified in Clause 20 of ITB. A bid valid for a shorter period shall be rejected by the Employer as non-responsive.
- 15.2. In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by cable. A bidder may refuse the request without forfeiting his Earnest Money. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his earnest money for a period of the extension, and in compliance with Clause 16 of ITB in all respects.

16. Earnest Money

- 16.1. The Bidder shall furnish, as part of the Bid, Earnest Money, in the amount specified in the Appendix to ITB.
- 16.2. The Earnest Money shall, at the Bidder's option, be in the form of Fixed Deposit Receipt of a scheduled commercial bank, NSC, Post office saving Bank issued in favor of the name given in the Appendix to ITB. The Fixed Deposit Receipt shall be valid for six months or more after the last date of receipt of bids. Other forms of Earnest Money acceptable to the Employer are stated in the Appendix to ITB. Earnest money will be deposited, physically, with officer calling tender, before last date of submission of tender. A scanned copy of earnest money document will be submitted along with the tender
- 16.3. Any bid not accompanied by an acceptable Earnest Money, unless exempted in terms given in the Appendix to ITB, shall be rejected by the Employer as non-responsive.
- 16.4. The Earnest Money of unsuccessful bidders will be returned within 28 days of the end of the Bid validity period specified in Clause 15.1 of ITB.
- 16.5. The Earnest Money of the successful Bidder will be discharged when the Bidder has signed the Agreement and furnished the required Performance Security.
- 16.6. **The Earnest Money may be forfeited:**
 - a) If the Bidder withdraws the Bid after bid opening (technical bid) during the period of Bid validity;
 - b) In the case of a successful Bidder, if the Bidder fails within the specified time limit to
 - i. Sign the Agreement; and/or
 - ii. Furnish the required Performance Security.

17. Alternative Proposals by Bidders

- 17.1. Bidders shall submit offers that comply with the requirements of the bidding documents, including the Bill of Quantities and the basic technical design as indicated in the drawings and specifications. Alternative proposals will be rejected as non-responsive.

18. Format and Signing of Bid

- 18.1. The Bidder shall submit one set of the bid comprising of the documents as described in Clause 12 of ITB.
- 18.2. The Bid shall be submitted on line and shall be digitally signed by a person or persons duly authorized to sign on behalf of the Bidder, pursuant to Clause 4.3(a) of ITB. The person or persons signing the Bid shall sign all pages of the Bid.

D. Submission of Bids

19. Sealing and Marking of Bids

- 19.1. The Bidder shall have to bid on line separately for Technical and financial bid .
Technical Bid: To be opened on AS PER NIT (Date and time of Technical Bid opening as per clause 22.1 of ITB.) Financial Bid: Not to be opened except with the approval of the Employer.

20. Deadline for Submission of Bids

- 20.1. Complete Bids (including Technical and Financial) must be received by the Employer in the Appendix to ITB not later than the date and time indicated in the Appendix to ITB.
- 20.2. The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10.3 of ITB, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

21. Late Bids

- 21.1. No Provision/Consideration on Late Bid/Bids Submission

E. Bid Opening and Evaluation

22. Bid Opening

- 22.1. The Employer will open the bids received, on line in the presence of the bidders/bidders' representatives who choose to attend at the time, date and place specified in the Appendix to ITB. In the event of the specified date for the submission of bids being declared a holiday for the Employer, the Bids will be opened at the appointed time online on the next working day.
- 22.2. The technical bid shall be opened online.
- 22.3. The Employer will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 22.3 of ITB.
- 22.4. Evaluation of the technical bids with respect to bid security, qualification information and other information furnished in Part I of the bid in pursuant to Clause 12.1 of ITB, shall be taken up and completed within Ten working days of the date of bid opening, and a list will be drawn up of the responsive bids whose financial bids are eligible for consideration.
- 22.5. The Employer shall inform, by E-mail (or otherwise the bidders, whose technical bids are found responsive, date, time and place of opening as stated in the Appendix ITB. In the event of the specified date being declared a holiday for the Employer, the bids will be opened at the appointed time online on the next working day through they or their representative, may attend the meeting of opening of financial bids.
- 22.6. At the time of the opening of the „Financial Bid“, the names of the bidders whose bids were found responsive in accordance with clause 22.5 of ITB will be announced. The financial bids of only these bidders will be opened. The responsive bidders' names, the Bid prices, the total amount of each bid, and such other details as the Employer may consider appropriate will be announced by the Employer at the time of bid opening. Any Bid price, which is not read out and recorded, will not be taken into account in Bid Evaluation.
- 22.7. The Employer shall prepare the minutes of the opening of the Financial Bids.

23. Process to be Confidential

- 23.1. Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt by a Bidder to influence the Employer's processing of bids or award decisions may result in the rejection of his Bid

24. Clarification of Bids and Contacting the Employer

- 24.1. No Bidder shall contact the Employer on any matter relating to its bid from the time of the bid opening to the time the contract is awarded.
- 24.2. Any attempt by the bidder to influence the Employer's bid evaluation, bid comparison or contract award decision may result in the rejection of his bid.

- 25. Examination of Bids and Determination of Responsiveness**
- 25.1. During the detailed evaluation of “Technical Bids”, the Employer will determine whether each Bid (a) meets the eligibility criteria defined in Clauses 3 and 4; (b) has been properly signed; (c) is accompanied by the required securities; and (d) is substantially responsive to the requirements of the bidding documents. During the detailed evaluation of the “Financial Bids”, the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications and drawings.
- 25.2. A substantially responsive “Financial Bid” is one that conforms to all the terms, conditions, and specifications of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the bidding documents, the Employer’s rights or the Bidder’s obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive bids.
- 25.3. If a “Financial Bid” is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the nonconforming deviation or reservation
- 26. Correction of Errors**
- 26.1. Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:
- a) Where there is a discrepancy between the rates in figures and in words, the rate in words will govern; and
 - b) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern.
- 26.2. The amount stated in the Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Earnest money shall be forfeited in accordance with Clause 16.6(b) of ITB.
- 27. Evaluation and Comparison of Bids**
- 27.1. The Employer will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 25 of ITB.
- 27.2. In evaluating the bids, the Employer will determine for each Bid the evaluated Bid price by adjusting the Bid price by making correction, if any, for errors pursuant to Clause 26 of ITB
- 27.3. If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer’s estimate of the cost of work to be performed under the contract, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Bill of Quantities, to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 32 of ITB be increased at the expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.
- 27.4. If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer’s estimate of the cost of routine maintenance of works to be performed for five years under the contract, the Employer may require the Bidder to produce detailed price analyses for routine maintenance. After its evaluation, the Employer may require that the amount of the performance security set forth in Clause 32 be increased at the

expense of the successful Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract. The amount of the increased performance security shall be decided at the sole discretion of the Employer, which shall be final, binding and conclusive on the bidder.

28. Price Preference

28.1. There will be no price preference to any bidder.

F. Award of Contract

29. Award Criteria

29.1. Subject to Clause 31 of ITB, the Employer will award the Contract to the Bidder whose Bid has been determined:

- i. to be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price, provided that such Bidder has been determined to be (a) eligible in accordance with the provisions of Clause 3 of ITB, and (b) qualified in accordance with the provisions of Clause 4 of ITB; and
- ii. To be within the available bid capacity adjusted to account for his bid price which is evaluated the lowest in any of the packages opened earlier than the one under consideration.

30. Employer's Right to accept any Bid and to Reject any or all Bids

30.1. Notwithstanding Clause 29 above, the Employer reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Employer's action.

31. Notification of Award and Signing of Agreement.

31.1.1. The bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the Part I *General Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay to the Contractor in consideration of the execution, completion by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

31.2. The notification of award will constitute the formation of the Contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause 32.

31.3. The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and the successful Bidder after the performance security is furnished.

31.4. Upon the furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

32. Performance Security

32.1. Within 10 (ten) days after receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a Performance Security of five percent of the Contract Price, for the period of one years and the time for completion of works plus additional security for unbalanced Bids in accordance with Clauses 27.3 and 27.4 of ITB and Clause 46 Part I General Conditions of Contract and sign the contract.

32.2. The performance security shall be either in the form of a Bank Guarantee or fixed deposit Receipts, in favour of "Chief Executive Officer, Agra Smart City Limited Payable at Agra, U.P., from a Scheduled Commercial Bank.

32.3. Failure of the successful Bidder to comply with the requirements of Clause 32.1 shall constitutes sufficient grounds for cancellation of the award and forfeiture of the Earnest

Money. He will also be debarred from participating future bids under U.P. P.W.D. for one year.

33. Advances:

33.1. The employer will provide mobilization advances and advance against security of equipment as provided in Part I General Condition Of Contract.

34. Corrupt or Fraudulent Practices

The Employer requires the bidders/Contractors to strictly observe the laws against fraud and corruption in force in India, namely, Prevention of Corruption Act, 1988.

35. Return of Security Deposit & Retention Money:

Security Deposit shall be returned only after issuance of Virtual Completion Certificate by Engineer in charge / Project Management Consultant for the project. The schedule for returning the Security Deposit & Retention Money shall be as specified hereunder.

1. The return of SD shall start after 1 year of operation and maintenance (from date of issuance of Completion Certificate) of the road as specified in Detailed Tender Notice.
2. The SD shall be released on successful completion of operation and maintenance of the road during that period as specified in Detailed Tender Notice.
3. Starting from completion of year 1 of O&M, the SD shall be returned at the rate of 1% every year (Total 5 % in 5 years) after submission of equivalent Bank Guarantee by the contractor for balance period of operation and maintenance.

36. Completion Certificate:

It is obligatory for the contractor to obtain the completion certificate within 01 (one) months of completion of time period or valid extension period. Only 90 % payment for the work shall be released to the contractor upon 100 % physical work completion. Upon completion of 90 % physical work, the contractor shall apply for Completion Certificate and balance amount of 10 % shall be released along with Completion Certificate and Final Bill. It shall be mandatory on the contractor to receive completion certificate from ASCL / Consultant within 01 months of completion of Tender Period or Valid Extension Period failing which suitable amount shall be deducted from his Security Deposit as directed by the Engineer- in – Charge.

If during any period the contractor fails to complete the operation and maintenance of the work as specified in the Detailed Tender Notice, the cost of this work shall be deducted from the balance SD payable to the contractor.

Appendix to Invitation To Bidders (ITB)

Instructions to Bidders

Clause Reference

(1.1) The Employer is CEO, Agra Smart City Limited Represented by: **CEO, Agra Smart City Limited Agra.**

(1.1) The Works is Construction of allied works as shown below

FOR THE WORK: Construction of Integrated Command Control Centre Building in Agra Nagar Nigam/Agra Smart City Office Premises including five years of operation and maintenance.

(2.1) The State is Uttar Pradesh

(3.1) Eligible Bidders Are: contractors registered with Public Works Department in class A or any Uttar Pradesh Govt. department certificate.

(4.2) The information required from bidders in Clause 4.2 is modified as follows:
NONE

4.2 (g) The percentage is Ten

(4.4 A) (b) One Third of the estimated cost of works

(4.4 B) (a) (iii) Other certificates required with the bid are: As per ITB

(4.4. B) (b) (i) The key equipments for road works and field testing laboratory Road Works are: FOR BLDG WORKS.

SI	Name of Equipment	Cost Of Work Up To 2 Crores	Quantity /No Cost Of Work More Than 2 Crores
1	R.M.C. plant	-	1
2	Transport Miller	-	-
3	Tar Boiler	2	-
4	Mixture/Mixer	1	1
5	Concrete Mixture	1	1
6	Water Tanker	8	2
7	Diesel Road Roller (8-10 Ton Capacity)	4	-
8	Vibratory Roller	-	-
9	Tractor	-	-
10	Truck	-	-
11	Hot mix plant with sensor paver	-	-
12	Air compressor	1	-
13	Mechanical Broom	1	-
14	Bitumen Distributor/ mechanical sprayer	1	-
15	Tipper	-	1
16	J.C.B.	-	1
17	Pockland	-	-
18	Wet Mix Macadam Plant with paver	-	-

19	Pin vibrator	2	2
20	Generator 250 KVA	1	1
21	Grader	-	-
22	Soil Compactor	1	1
23	Concrete Vibrator with niddle	1	1
24	Field Laboratory	1	1
25	Hydra (CAPACITY 8 TON)	-	1
26	Mastic Cooker	-	-
27	Trolly	-	-
28	Barrier	-	-
29	Cone	-	-
30	Reflective Tape	-	-

For field testing Laboratory:

- Contractor will have to establish one Laboratories in between of stretch of working site fully equipped and consumable as per SP-20-2002 i. MORTH/up.p.w.d instructions
 - Contractor will have to provide 2 Jeeps in good condition with driver and POL etc. exclusively to departmental officers for checking and inspection execution of work free of cost.
- Note: (a) The bidder must produce the following documentary evidence in support of his owning the above equipment: Documents showing proof of ownership.

(4.4 B) (b)(ii) The Number of Technical personnel, Qualifications and Experience will be as follows:

A. The technical Personal are

Technical Personnel	Number	Experience in Bldg Works
A. Degree Holder in Civil Engineering	1	Minimum 10 years of Experience out of which five years of experience of having handled/executed independently large bldg work project.
B. Degree Holder in Civil Engineering	2	Minimum 5 years of Experience
C. Diploma holder in Civil Engineering	4	Minimum 2 years of Experience
D. Diploma holder in Mechanical Engineering	1	Minimum 2 years of Experience in Maintenance of plant & machinery
E. Surveyor	1	Minimum 2 years of Experience

To ensure employment of Technical Personnel, the contractor would require giving the proof of payment of their salaries/ Wages by Cheque/ Demand Draft.

- (4.4 B) (b)(iii) The minimum amount of liquid assets and/or credit facilities net of other contractual commitments of the successful Bidder shall be 10% of the contract value
- (4.4 B) (c) (i) The bidder must produce an affidavit stating that the near relations of the following departmental officers are not in his employment: J.E.'s, A.E.'s, E.E.'s, S.E.'s, and other staff of equivalent rank

- (4.4 B) (c) (ii) The bidder must produce an affidavit stating the names of retired gazetted officer (if any) in his employment who retired within the last two years with the following ranks from the departments listed below: U.P.P.W.D., R.E.S. and. U.P. Irrigation. (Assistant Engineer, Executive Engineer, Superintending Engineer, Chief Engineer, Director cum Chief Engineer, Engineer-in-Chief) In case there is no such person in his employment, his affidavit should clearly state this fact.
- (4.6) M = 2.5
- (7.1) The contact person is:
Designation: Chief Executive Officer,
Office of Agra Smart City Limited, Agra
Ph No-0562-2520615
- (9.2.1) Place, Time and Date for pre-bid meeting are:
As per NIT
- (11.1) Language of the bid is: *English*
- (12.1) Part I (v) the other documents required are: NONE
T-4,T-5,T6
- (13.2.) Bids may be submitted only in Percentage Rate Method
- (13.2) Schedule of Rate applicable for Percentage Rate Method is: As mentioned in the bill of quantities for percentage rate bids
- (16.1) **The amount of Earnest Money shall be as per NIT**
- (16.2) Fixed Deposit Receipt must be drawn in favour of:
Chief Executive Officer, Agra Smart City Limited, Agra.
- (16.2) Other acceptable forms of Bid Security pledged in favour of : **Chief Executive Officer, Agra Smart City Limited, Agra** National savings certificate issued by P&T Deptt., Post Office Saving account Pass book .
- (16.3) Exemption from Earnest Money is granted to: As per N.I.T/G.O.
- (20.1) The Employer's address for the purpose of Bid submission is online submission
- (20.1)1. The deadline for submission of bids shall be:
As per NIT
- (22.1) & (22.6) The date, and time for opening of the Technical Bids online are:
(A) Technical Bid
As per NIT
- (32.1) The amount and validity period of the performance guarantee is: Amount as BID SECURITY of the contract price Validity Period: -As per SBD
(i) Performance security shall be valid until a date 45 days after the expiry of Defect Liability Period of 1 years after intended completion date.
(ii) Additional Performance Security for unbalanced Bid shall be valid for 45 days plus intended completion period.

Signature of Employer/ Authorized Signatory

Date :

Section 3 Qualification Information

(Following information's shall be furnished by the contractor on a non-judicial stamp paper of Rs. 100/- only)

Notes on Form of Qualification Information

The information to be filled in by bidders in the following pages will be used for Purposed of post-qualification as provided for in clause 4 of the Instructions to Bidders. This Information will not be incorporated in the Contract. Attach additional pages as necessary

1. Individual Bidders

1.1	Constitution or legal status of Bidder Place of registration: Principal place of business Power of attorney of signatory of Bid	[Attach copy] <hr style="border: 0.5px solid black;"/> <hr style="border: 0.5px solid black;"/> [Attach]
1.2	Total annual volume of civil engineering construction work executed and payments received in the last five years preceding the year in which bids are invited. (Attach certificate from Chartered Accountant)	(Rs in Lacs)

1.3.1	Work performed as prime Contractor (in the same name and style) on construction works of a similar nature and volume over the last five years. Attach certificate from the Engineer-in-charge
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Project Name	Name of Employer	Description of work	Value of contract	Contract No.	Date of Issue of work order	Stipulated Date of Completion	Actual Date of Completion	Remarks explaining reasons for Delay, if any

1.3.2. Information on Bid capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this

(A) Existing commitments and on-going construction works:

Description of Work	Place & State	Contract No & Date	Name & Address of Employer	Value of Contract (Rs. In lakhs)	Stipulated period of completion	Value of works remaining to be completed (Rs. Lakhs) *	Anticipated Date of completion
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

* Enclose certificate(s) from Engineer(s)-in-charge for value of work remaining to be completed.

(B) Works for which bids already submitted:

Descripti on of Work	Place & State	Name & Address of Employer	Estimated Value of Works (Rs. Lakhs)	Stipulated period of completion	Date when decision is expected	Remarks, if any
(1)	(2)	(3)	(4)	(5)	(6)	(7)

1.4. Availability of Major items of Contractor's Equipment proposed for carrying out the Works. List all information requested below. Refer also to Clause 4.2(d) and Clause 4.4 b (b) of the Instructions to Bidders.

Item of Equipment	Description, make, and age (Years), and capacity	Condition (new, good, poor) and number available	Owned, leased (from whom?), or to be purchased

1.5. Qualifications of technical personnel proposed for the Contract. Refer also to Clause 4.2(e) of the Instructions to Bidders and Clause 9.1 of Part-1 General Conditions of Contract

Position	Name	Qualification	Years of experience		
			Road Works	Building Works	Other

1.6. Proposed sub-contractors and firms involved for construction. Refer to Clause 7 of Part I General Conditions of Contract.

Sections of the Works	Value of subcontract	Sub-contractor (name and address)	Experience in similar work

1.7. Note: The capability of the sub-Contractor will also be assessed (on the same lines as for the main Contractor) before according approval to him.

1.8. Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports, etc.
List below and attach copies.

1.9. Name, address, and telephone, telex, and facsimile numbers of banks that may provide references if contacted by the Employer.

1.10. a. -----Information on current litigation in which the Bidder is involved.

	Name of Other party(s)	Cause of dispute	Litigation where (Court/arbitration)	Amount involved
1.11.				
1.12.				
1.13.				
1.14.				

1.11. Proposed Program (work method and schedule). Descriptions, drawings, and charts as necessary, to comply with the requirements of the bidding documents.

SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR AVAILABILITY OF CREDIT
FACILITIES

BANK CERTIFICATE

This is to certify that M/S -----is a reputed company with a good financial standing.

If the contract for the work, namely, ____ _____ is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. ____ _____ to meet their working capital requirements for executing the above contract.

Signature of Senior Bank Manager
Name of the senior Bank Manager
Address of the
Bank.....

Stamp of the Bank

Note: Certificate should be on the letterhead of the bank.

Under Taking From bidders to Invest minimum 10% of the Value of the work.

FOR THE WORK: Construction of Integrated Command Control Centre Building in Agra Nagar Nigam/Agra Smart City Office Premises including five years of operation and maintenance.

It is to be certified that I have Rs. In Cash, Rs. in Bank and Rs..... By other sources with proceed with the proposed work.

Date :-

Place :-

Signature of Contractor.

Section 4: Conditions of Contract

Part – I General Conditions of Contract

These conditions are subject to the variations and additions set out in Part II Special Conditions of Contract

Notes on Conditions of Contract

The Conditions of Contract, read in conjunction with Part II Special Conditions of Contract and the Contract Data and other documents listed therein, should be a complete document expressing fairly the rights and obligations of both parties.

The form of Conditions of Contract that follows has been developed for smaller admeasurements contracts for construction on the basis of international practice and the practice of the Government of India, Ministry of Road Transport and Highways, and considerable experience in different States in India in the drafting and management of contracts, bearing in mind a trend in the construction industry towards simpler, more straightforward language.

The Conditions of Contract also incorporate the concept of performance-based payments for routine maintenance of roads

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Section 4

Part I General Conditions of Contract

A. General

1. Definitions

1.1. Terms, which are defined in the Contract Data, are not also defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid.

Compensation Events are those defined in Clause 40 hereunder.

The Completion Date is the date of completion of the Works as certified by the Engineer, in accordance with Clause 48.1.

The Contract is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in Clause 2.3.

The Contract Data defines the documents and other information, which comprise the Contract.

The Contractor is a person or corporate body whose Bid to carry out the Works, including routine maintenance, has been accepted by the Employer.

The Contractor's Bid is the completed bidding document submitted by the Contractor to the Employer.

The Contract Price is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

Days are calendar days; months are calendar months.

A Defect is any part of the Works not completed in accordance with the Contract.

The Defects Liability Certificate is the certificate issued by Engineer, after the Defect Liability Period has ended and upon correction of Defects by the Contractor.

The Defects Liability Period is Two years calculated from the Completion Date.

Drawings include calculations and other information provided or approved by the Engineer for the execution of the Contract.

The Employer is the party as defined in the Contract Data, who employs the Contractor to carry out the Works, including Routine maintenance,. The Employer may delegate any or all functions to a person or body nominated by him for specified Functions.

The Engineer is the person named in the Contract Data (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract.

Equipments is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

The Initial Contract Price is the Contract Price listed in the Employer's Letter of Acceptance.

The Intended Completion Date is the date on which it is intended that the Contractor shall complete the Works.

The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works.

Plant is any integral part of the Works that shall have a mechanical, electrical, electronic, chemical, or biological function.

The Site is the area defined as such in the Contract Data.

Site Investigation Reports are those that were included in the bidding documents and are reports about the surface and subsurface conditions at the Site.

Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Engineer.

The Start Date is given in the Contract Data. It is the date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

A Sub-Contractor is a person or corporate body who has a Contract with the Contractor to carry out a part of the construction work in the Contract, which includes work on the Site.

Temporary Works are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

A. Variation is an instruction given by the Engineer, which varies the Works.

The Works, as defined in the Contract Data, are what the Contract requires the Contractor to construct, install, maintain, and turn over to the Employer. Routine maintenance is defined separately.

2. Interpretation

In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.

If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

The documents forming the Contract shall be interpreted in the following order of priority:

- (1) Agreement,
- (2) Notice to Proceed with the Work,
- (3) Letter of Acceptance,
- (4) Contractor's Bid
- (5) Contract Data,
- (6) Special Conditions of Contract Part II,
- (7) General Conditions of Contract Part I,
- (8) Specifications,
- (9) Drawings,
- (10) Bill of Quantities, and
- (11) Any other document listed in the Contract Data.

3. Language and Law.

The language of the Contract and the law governing the Contract are stated in the Contract Data.

4. Engineer's Decisions

Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer. However, if the Engineer is required under the rules and regulations and orders of the Employer to obtain approval of some other authorities for specific actions, he will so obtain the approval.

Except as expressly stated in the Contract, the Engineer shall not have any authority to relieve the Contractor of any of his obligations under the contract.

5. Delegation

The Engineer, with the approval of the Employer, may delegate any of his duties and responsibilities to other people, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

6. Communications

All Certificate, notices or instructions to be given to the contractor by Employer / Engineer shall be sent on the address or contact details given by the contractor in Section 6- Form of Bid. The address and contact details for communication with the Employer/ Engineer shall be as per the details given Contract Data to GCC. Communications between parties that are referred to in the conditions shall be in writing. The Notice sent by Facsimile (fax) or other electronic means shall be effective on confirmation of the transmission. The Notice sent by Registered post or Speed post shall be effective on delivery or at the expiry of the normal delivery period as undertaken by the postal service.

7. Subcontracting

The contractor may subcontract part of the construction work with the approval of the Employer in writing, upto 25% of the contract price but will not assign the Contract. Subcontracting shall not alter the contractor's obligations.

Beyond what has been stated in clauses 7.1, if the contractor proposes subcontracting any part of the work during execution of the works, because of some unforeseen

circumstances to enable him to complete the work as per terms of the contract, the Employer will consider the following before according approval:

- a. The Contractor shall not sub-contract the whole of the works.
- b. The Contractor shall not sub-contract any part of the work without prior consent of the Employer. Any such consent shall not relieve the contractor from any liability or obligation under the contract and he shall be responsible for the acts, defaults and neglects of any his sub-contractor, his agents or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents and workmen.

The Engineer should satisfy himself before recommending to the Employer whether

- a. The circumstances warrant such sub-contracting: and
- b. The sub-contractor so proposed for the work possess the experience, qualification and equipment necessary for the job proposed to be entrusted to him in proportion of the Quantum of works to be sub-contracted.

8. Other Contractors

The contractor shall co-operate and share the site with other contractors. Public authority's utilities and the employer between the dates given in the schedule of other contractors, as referred to in the contract data. The contractor shall also provide facilities and services for them as described in the schedule. The employer may modify the schedule of other contractor, and shall notify the contractor of any such modification.

The contractor should take up the work in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow of traffic including movement of vehicles and equipment of other contractors till the completion of the works.

9. Personnel

The Contractor shall employ for the construction work and routine maintenance the technical personnel named in the Contract Data or other technical persons approved by the Engineer. The Engineer will approve any proposed replacement of technical personnel only if their relevant qualifications and abilities are substantially equal to or better than those of the personnel stated in the Contract Data.

If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the Works in the Contract.

The Contractor shall not employ any retired Gazetted officer who has worked in the Engineering Department of the State Government and has either not completed two years after the date of retirement or has not obtained State Government's permission to employment with the Contractor.

10. Employer's and Contractor's Risks

The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks that this Contract states are Contractor's risks

11. Employer's Risks

The Employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works in the Employer's country, the risks of war, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot commotion or disorder (unless restricted to the

Contractor's employees), natural calamities and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

12. Contractor's Risks

All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks, referred to in clause 11.1, are the responsibility of the Contractor.

13. Insurance

The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the date of completion, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

- a) loss of or damage to the Works, Plant and Materials;
- b) loss of or damage to equipment;
- c) loss of or damage to property (except the Works, Plant, Materials, and equipment) in connection with the Contract; and
- d) Personal injury or death.

Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the completion date/ Start Date. All such insurance shall provide for compensation to be payable in Indian Rupees to rectify the loss or damage incurred.

(a) The Contractor at his cost shall also provide, in the joint names of the Employer and the Contractor, insurance cover from the date of completion to the end of defect liability period, in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

(a) Personal injury or death.

(b) Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the completion date/ start date. All such insurance shall provide for compensation to be payable in Indian Rupees. Alterations to the terms of insurance shall not be made without the approval of the Engineer.

Both parties shall comply with any conditions of the insurance policies.

14. Site Investigation Reports

The Contractor, in preparing the Bid, may rely on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid.

15. Queries about the Contract Data

The Engineer will clarify queries on the Contract Data.

16. Contractor to Construct the Works

The Contractor shall construct, and install and maintain the Works in accordance with the Specifications and Drawings.

The contractor shall construct the works with intermediate technology, i.e., by manual means with medium input of machinery required to ensure the quality of works as per

specifications. The contractor shall deploy the equipment and machinery as given in Contract Data.

1. The Works to Be Completed by the Intended Completion Date

The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

2. Approval by the Engineer

The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Engineer, who is to approve them.

The Contractor shall be responsible for design of Temporary Works.

The Engineer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.

All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Engineer before their use.

3. Safety

The Contractor shall be responsible for the safety of all activities on the Site.

4. Discoveries

Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

21. Possession of the Site

The Employer shall handover complete or part possession of the site to the Contractor 7 days in advance of construction program. At the start of the work, the employer shall handover the possession of at-least 75% of the site.

22. Access to the Site

The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out to the engineer and any person/persons/agency authorized by:

- a. The Engineer
- b. The Employer
- c. The Ministry of Rural Development, Government of India.
- d. National Rural Roads Development Agency, New Delhi

23. Instructions

The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

24. Dispute Redressal System

If any dispute or difference of any kind what-so-ever shall arises in connection with or arising out of this Contract or the execution of Works or maintenance of the

Works there under, whether before its commencement or during the progress of Works or after the termination, abandonment or breach of the Contract, it shall, in the first instance, be referred for settlement to the competent authority, described along with their powers in the Contract Data, above the rank of the Engineer, The competent authority shall, within a period of forty-five days after being requested in writing by the Contractor to do so, convey his decision to the Contractor. Such decision in respect of every matter so referred shall, subject to review as hereinafter provided, be final and binding upon the Contractor. In case the Works is already in progress, the Contractor shall proceed with the execution of the Works, including maintenance thereof, pending receipt of the decision of the competent authority as aforesaid, with all due diligence.

Either party will have the right of appeal, against the decision of the competent authority, to the arbitration if the amount appealed exceeds rupees one lakh.

25. Procedure for Resolution of Disputes

- 25.0.1. The Competent Authority mentioned in clause 24.1 shall give a decision in writing within 45 days of receipt of a notification of a dispute.
- 25.0.2. Either party may refer a decision of the Competent Authority to Arbitration within 28 days of the Competent Authority's written decision. Arbitration shall be under the Arbitration and Conciliation Act 1996. If neither party refers the dispute to Arbitration within the above 28 days, the Competent Authority's decision will be final and binding.
- 25.0.3. The Arbitration shall be conducted in accordance with the following procedure, in case Initial Contract Price is more than Rs. 5 Crore or the Contractor is a Foreign Contractor, who has bid under ICB:-

- a) In case of a decision of the Competent Authority in a dispute or difference arising between the Employer and a Contractor relating to any matter arising out of or connected with this Agreement, the matter will be referred to an Arbitral Tribunal. The Arbitral Tribunal shall consist of three Arbitrators, one each to be appointed by the Employer and the contractor. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the parties and shall act as presiding Arbitrator. In case of failure of the two Arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the Arbitrator appointed subsequently, the presiding Arbitrator shall be appointed by the Chairman of the Executive Committee of the Indian Roads Congress.
- b) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) above within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the Chairman of the Executive Committee of the Indian Roads Congress shall appoint the arbitrator.

A certified copy of the order of the Chairman of the Executive Committee of the Indian Roads Congress, making such an appointment shall be furnished to each of the parties.

- c) The decision of the majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the Arbitral Tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself. Where the Initial Contract Price as mentioned in the Acceptance Letter is Rs. 5 Crore and below, disputes and differences in which an Adjudicator has given a decision shall be referred to a sole Arbitrator. The sole Arbitrator would be appointed by the agreement between the parties; failing such agreement within 15 days of the reference to arbitration, by the appointing authority, namely the Chairman of the Executive Committee of the Indian Road Congress.

Arbitration proceedings shall be held at Agra (U.P.) , India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.

Performance under the contract shall continue even after reference to the arbitration and payments due to the contractor by the Employer shall not be withheld, unless they are the subject matter of the arbitration proceedings.

B. TIME CONTROL

26. Programme

Within the time stated in the Contract Data, the Contractor shall submit to the Engineer for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works, along with monthly cash flow forecasts for the construction of works.

The Contractor shall submit the list of equipment and machinery being brought to site, the list of key personnel being deployed, the list of machinery/ equipments being placed in field laboratory and the location of field laboratory along with the Program. The Engineer shall cause these details to be verified at each appropriate stage of the program.

An update of the Program shall be a program showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

The Contractor shall submit to the Engineer for approval an updated Program at intervals of *60 Days* no longer than the period stated in the Contract Data. If the Contractor does not submit an updated Program within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Program has been submitted.

The Engineer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Engineer again at any time. A revised Program shall show the effect of Variations and Compensation Events.

27. Extension of the Intended Completion Date

The Engineer shall extend the Intended Completion Date if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining Works, which would cause the Contractor to incur additional cost

The Engineer shall decide whether and by how much time to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.

28. Delays Ordered by the Engineer

The Superintending Engineer may instruct the Contractor to delay the start or progress of any activity within the Works. Delay/delays totalling more than 30 days will require prior written approval of the Employer.

29. Management Meetings

The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans for the Works.

- 29.1.1. The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.

C. *Quality Control*

30. Identifying Defects

The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are found. Such checking shall not affect the Contractor's responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

31. Tests

For Carrying out mandatory tests as prescribed in the specification. The Contractor shall establish field laboratory at the location decided by Engineer. The field laboratory will have minimum equipment as specified in the Contract Data. The contractor shall be solely responsible for :

- a. Carrying out the mandatory tests prescribed in the Specifications, and
- b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.

If the Engineer instructs the Contractor to carry out a test not specified in the Specification/ Rural Roads Manual to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples.

32. Correction of Defects noticed during the Defect Liability Period for two year.

- 32.0.1. The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion of work. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 32.0.2. Every time notice of Defect/Defects is given, the Contractor shall correct the notified Defect/Defects within the duration of time specified by the Engineer's notice.

The RFI system will be followed for execution of work.

33. Uncorrected Defects

If the Contractor has not corrected a Defect pertaining to the Defect Liability Period under clause 32.1.1 and of these Conditions of Contract, to the satisfaction of the Engineer, within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount, on correction of the Defect.

D. *Cost Control*

34. *Bill of Quantities*

The Bill of Quantities shall contain items for the construction, installation, testing, and commissioning, maintaining works and lump sum figures for yearly routine maintenance for each of the five years separately, to be done by the Contractor. The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item for the construction of roads. The payment to the Contractor is performance based for routine maintenance of roads.

35. Variations

The Engineer shall, having regard to the scope of the Works and the sanctioned estimated cost, have power to order, in writing, Variations within the scope of the Works he considers necessary or advisable during the progress of the Works. Such Variations shall form part of the Contract and the Contractor shall carry them out and include them in updated Programs produced by the Contractor. Oral orders of the Engineer for Variations, unless followed by written confirmation, shall not be taken into account.

36. Payments for Variations

If rates for variation items are specified in Bill of Quantity, the contractor shall carry out such work at the same rate. This shall apply for variation only up to the limit prescribed in the contract data. If the variation exceeds this limit, the rates shall be derived under the provision of clause 36.3 for quantities (higher or lower) exceeding the deviation limit.

If the rates for Variation are not specified in the Bill of Quantities, the Engineer shall derive the rate from similar items in the Bill of Quantities.

If the rate for Variation item cannot be determined in the manner specified in Clause 36.1 or 36.2, the Contractor shall, within 14 days of the issue of order of variation work, inform the Engineer the rate which he proposes to claim, supported by analysis of the rates. The Engineer shall assess the quotation and determine the rate based on prevailing market rates within one month of the submission of the claim by the Contractor. As far as possible, the rate analysis shall be based on the standard data book and the current schedule of rates of the district public works division. The decision of the Engineer on the rate so determined shall be final and binding on the Contractor.

37. Cash Flow Forecasts

When the Program is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

38. Payment Certificates

The payment to the contractor will be as follows for construction work:

- a) The Contractor shall submit to the Engineer fortnightly/ monthly statements of the value of the work executed less the cumulative amount certified previously supported with detailed measurement of the items of work executed in measurement books authorized by UP. P.W.D.
- b) The Engineer shall check the Contractor's fortnightly/monthly statement within 14 days and certify the amount to be paid to the Contractor.
- c) The value of work executed shall be determined, based on measurements by the Engineer.
- d) The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- e) The value of work executed shall also include the valuation of Variations and Compensation Events.
- f) The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.
- g) The Payment of final bill shall be governed by the provisions of clause 50 of GCC.

39. Payments

Payments shall be adjusted for deductions for advance payments security deposit, other recoveries in terms of the Contract and taxes at source, as applicable under the law. The Engineer shall pay the Contractor the amounts he had certified within 15 days of the date of each certificate.

The Employer may appoint another authority, as specified in the Contract Data (or any other competent person appointed by the Employer and notified to the contractor) to make payment certified by the Engineer.

Items of the Works for which no rate or price has been entered in the Bill of Quantities, will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

40. Compensation Events

The following shall be Compensation Events unless they are caused by the Contractor

- a) The Engineer orders a delay or delays exceeding a total of 30 days.
- b) The effects on the Contractor of any of the Employer's Risks.

If a Compensation Event would prevent the Works being completed before the Intended Completion Date, the Intended Completion Date shall be extended. The Engineer shall decide whether and by how much the Intended Completion Date shall be extended.

41. Tax

The rates quoted by the Contractor shall be deemed to be inclusive of the sales and other levies, duties, royalties, cess, toll, taxes of Central and State Governments, local bodies and authorities that the Contractor will have to pay for the performance of this Contract. The Employer will perform such duties in regard to the deduction of such taxes at source as per applicable law.

42. Currencies

All payments will be made in Indian Rupees.

43. Security Deposit/ Retention and Release of Performance Security and Security Deposit/ Retention.

The Employer shall retain security deposit of 5% of the amount from each payment due to the Contractor until completion of the whole of the construction Work. No. security deposit/ retention shall be retained from the payments for Routine maintenance of Works.

On the completion of the whole of the construction Work half the total amount retained as Security Deposit is repaid to the contractor and half when the defect liability period has passed and the Engineer has certified that all defects notified by the Engineer to the contractor before the end of his period have been corrected.

The additional performance security for unbalanced bids as detailed in Clause 51 of Conditions of Contract is repaid to the contractor when the construction work is complete.

The performance security equal to the five percent of the contract price in Clause 51 of Conditions of contract is repaid to the contractor when the period of two years finished or defect liability period is over and the Engineer has certified that the contractor has satisfactorily carried out the Works.

If the contractor so desires then the Security Deposit can be converted into any interest bearing security of schedule commercial bank in the name of the Employer or National Saving Certificates duly pledged in favor of the Employer for Defect Liability Period.

44. Liquidated Damages

The Contractor shall pay liquidated damages to the Employer at the rate per week or part thereof stated in the Contract Data for the period that the Completion Date is later than the Intended Completion Date. Liquidated damages at the same rate shall be withheld if the Contractor fails to achieve the milestones prescribed in the Contract Data. However, in case the Contractor achieves next milestone the amount of the liquidated damages already withheld shall be restored to the Contractor by adjustment in the next payment certificate. The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's other liabilities.

If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate.

45. Advance Payment

The Employer will make the following advance payment to the contractor against provision by the Contractor of an Unconditional Bank Guarantee in a form and by a Commercial bank acceptable to the Employer in amounts equal to the advance payment:

- a) Mobilization advance up to 5 percent of the contract price.
- b) equipment advance up to ninety percent of the cost of the new equipment brought to the site, subjects to a maximum of 10 percent of the contract price.

The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest will not be charged on advance payment.

The Contractor is to use the advance payment only to pay for equipment, plant and mobilization expenses required specifically for execution of works. The Contractor shall demonstrate the advance payment as been used in this way by supplying copies of invoices or other documents to the Engineer.

The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor for the construction work, following the schedule of completed percentage of the work on payment basis. No account shall be taken of the advance payment or the repayment in assessing valuation of work done. Variations, price adjustments, Compensation events or liquidated damages.

46. Securities

The Performance Security equal to five percent of the contract price and additional security for unbalanced bids shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in the form given in the Contract Data and by a scheduled commercial bank. The Performance Security shall be valid until a date 45 days from the date of expiry of Defect Liability Period and the additional security for unbalanced bids shall be valid until a date 45 days from the date of issue of the certificate of completion.

47. Cost of Repairs

Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at his cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

48. Completion of Construction and Maintenance

The contractor shall request the Engineer to issue a certificate of completion of the construction of the works, and the Engineer will do so upon deciding that the works is completed.

49. Taking Over

The Employer shall take over the works within seven days of the Engineer issuing a certificate of completion of works.

50. Final Account

The contractor shall supply the Engineer with a detailed account of the total amount that the Contractor considers payable for works under the contract within 21 days of issue of certificate of completion of construction of works. The Engineer shall issue a defect liability certificate and certify any payment that is due to the correct and complete. If the account is not correct or complete, the engineer shall issue within 42 days a schedule that states the scope of the corrections or additions that are necessary. If the account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the contractor and issue a payment certificate with in 28 days of receiving the Contractor's revised account. The payment of final bill for construction of works will be made within 14 days thereafter.

In case the account is not received within 21 days of issue of Certificate of Completion as provided in clause 50. I above, the engineer shall proceed to finalize the account and issue a payment certificate within 28 days. The payment of final bill for construction of works will be made within 14 days thereafter.

51. Operating and Maintenance Manuals

If "as built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.

If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract Data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

52. Termination

The Employer may terminate the Contract if the Contractor causes a fundamental breach of the Contract.

Fundamental breaches of Contract shall include, but shall not be limited to, the following:

- a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Engineer;
- b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstruction or amalgamation;
- c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- d) the Contractor does not maintain a Security, which is required;
- e) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in clause 44.1;
- f) the Contractor fails to provide insurance cover as required under clause 13;
- g) if the Contractor, in the judgment of the Employer, has engaged in the corrupt or fraudulent practice in competing for

or in executing the Contract. For the purpose of this clause, “corrupt practice” means the offering, giving, receiving, or soliciting of any thing of value to influence the action of a public official in the procurement process or in Contract execution. “Fraudulent Practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid process at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.

- h) if the Contractor has not completed at least thirty percent of the value of construction Work required to be completed after half of the completion period has elapsed;
- i) if the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified in the Contract Data; and
- j) Any other fundamental breaches as specified in the Contract Data.
- k) if the Contractor fails to deploy machinery and equipment or personnel as specified in the contract Data at the Appropriate time.

Notwithstanding the above, the Employer may terminate the Contract for convenience.

If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible.

53. Payment upon Termination

If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done and Materials ordered less liquidated damages, if any less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be recovered from the security deposit, and performance security. If any amount is still left unrecovered it will be a debt payable to the Employer.

If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the Contract, and less taxes due to be deducted at source as per applicable law.

54. . Property

All Materials on the Site, Plant, equipment, Temporary Works, and Works shall be deemed to be the property of the Employer for use for completing balance construction work if the Contract is terminated because of the Contractor's default, till the Works is completed after which it will be transferred to the Contractor and credit, if any, given for its use.

55. Releases from Performance

If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

F. Other Conditions of Contract

56. Labor

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labor, local or other, and for their payment, housing, feeding and transport.

The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labor from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

57. COMPLIANCE WITH LABOUR REGULATIONS

During continuance of the Contract, the Contractor and his sub Contractors shall abide at all times by all existing labor enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labor law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labor law in future either by the State or the Central Government or the local authority. Salient features of some of the major labor laws that are applicable to construction industry are given in Appendix to Part I General Condition of Contract. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

58. Drawings and Photographs of the Works

The contractor shall do photography/video photography of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work and lastly after the completion of the work. No separate payment will be made to the contractor for this.

The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Engineer in writing. No photograph of the works or any part thereof or plant employed thereon, except those permitted under clause 58.1, shall be taken or permitted by the Contractor to be taken by any of his employees or any employees of his sub-Contractors without the prior approval of the Engineer in writing. No photographs/ Video photography shall be published or otherwise circulated without the approval of the Engineer in writing.

59. The Apprentices Act 1961

The Contractor shall duly comply with the provisions of the Apprentices Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so he shall be subject to all liabilities and penalties provided by the said Act and said Rules.

60. Criminals are prohibited from bidding

Any bidders having **criminal record** is not allowed to participate in the bidding process. Any person who is having criminal cases against him or involved in the **organized crime or gangster activities or Mafia or Goonda or Anti social activity** are strictly prohibited to participate in the bidding process. If it is established that any bidder has **criminal record, his bid shall be automatically cancelled.**

The bidder has to produced character certificate, Solvency certificate, self declared affidavit (on the prescribed Performa which is attached with the bid document) etc., issued by the competent authority in original with bid document.

61. Any bidder who is an Advocate and Registered with any State Bar Council Shall not be allowed to participate in the bidding. If it is established that the contractor is registered with the state bar council, **his bid shall be automatically cancelled.**

Contract Data to General Conditions of Contract

Except where otherwise indicated, the Employer prior to issuance of the bidding documents should fill in all Contract Data. Schedules and reports to be provided by the Employer should be annexed

Clause Reference

Items marked “N/A” do not apply in this Contract.

1. The Employer is: [Cl.1.1]
 Designation: **Chief Executive officer, ASCL Agra**
 E-mail ID :gm@agrasmartcity.in
2. The Intended Completion Date for the whole of the Works is **AS PER NIT** [Cl.1.1, 17&27] after start of work.
3. **The Site is located : Agra U.P.**
4. The Start Date shall be Same days after the date of issue of the Notice to [Cl.1.1] proceed with the work.
5. The works shall, inter-alia, include the following, as specified or as directed.

(A) Building Works

Site clearance; setting out, provision of foundations, brick work RCC work, flooring, doors, windows, plastering, colour washing and painting making of drains water supply and sanitary works etc. may be required to be carried out for completing the works in accordance with the Drawings and the provisions of the contract and to ensure safety.

6. Section completion is [Cl 2.2]
7. The following documents also form part of the Contract: [Cl.2.3(11)]
8. (a) The law which applies to the Contract is the law of Union of India. [Cl.3.1]
 (b) The language of the Contract documents is English. [Cl.3.1]
9. The Schedule of Other Contractors is attached. [Cl. 8.1]
10. A. The Technical Personnel for construction work are: [Cl. 9.1]

Technical Personnel	Number	Experience in Bldg Works
A. Degree Holder in Civil Engineering	1	Minimum 05 years of Experience out of which five years of experience of having handled/executed independently large road work project.
C. Diploma holder in Civil Engineering	2	Minimum 2 years of Experience
E. Surveyor	1	Minimum 2 years of Experience

B. For routine maintenance

Technical Personnel	Number	Experience in Bldg Works
A. Diploma holder in Civil Engineering (Supervisor)	1	At least 2 Years

13(a) Amount and deductible for insurance are:

[cl.13.1]

Item		Amount to be insured		Deductibles
A.	Loss of or damage to the works, Plants and materials	10 % of contract value		Deductibles for insurance shall be as per latest tariff of General Insurance Company of India plus 20% of premium amount for items A, B, C & D
B.	Loss of or damage to equipments	2.5 % of contract value		
C	Loss of or damage to property (except the works, plant, Materials, and Equipments) in Connection with the contract:	1 % of contract value		
D	Personal injury or death	Up to contract value Rs. 2 Crores	Rs. 2 lacs per occurrences for maximum three occurrences	
		For contract value more than Rs. 2 Crores	Rs. 2 lacs per occurrences for maximum three occurrences	

13(a) Amount and deductible for insurance are:

[cl.13.3 (a)]

Item		Amount to be insured	Deductibles
A.	Personal injury or death	Rs. 2 Lacs for one occurrence per year	Deductibles shall be as per latest tariff of General Insurance Company of India plus 20% of the premium amount

14. Site investigation report

[cl.14.1]

15. The key equipments/machinery for construction of works shall be:

Sl.	Name of the Equipments	Cost Of Work Up To 2 Crores	Quantity /No Cost Of Work More Than 2 Crores
1	R.M.C. plant	-	-
2	Transport Miller	-	-
3	Tar Boiler	2	2
4	Mixture/Mixol	1	1
5	Concrete Mixture	1	1
6	Water Tanker	8	8
7	Diesel Road Roller (8-10 Ton Capacity)	4	4
8	Vibratory Roller	-	-
9	Tractor	-	-
10	Truck	-	-
11	Hot mix plant with sensor paver	-	-
12	Air compressor	1	1
13	Mechanical Broom	1	1
14	Bitumen Distributor/ mechanical sprayer	1	1
15	Tipper	-	-

16	J.C.B.	-	-
17	Pockland	-	-
18	Wet Mix Macadam Plant with paver	-	-
19	Pin vibrator	2	2
20	Generator 250 KVA	1	1
21	Grader	-	-
22	Soil Compactor	1	1
23	Concrete Vibrator with niddle	1	1
24	Field Laboratoy	1	1
25	Hydra (CAPACITY 8 TON)	-	-
26	Mastic Cooker	-	-
27	Trolley	-	-
28	Barrier	-	-
29	Cone	-	-
30	Reflective Tape	-	-

[Cl 16.2]

16. Competent authorities are: [Cl. 24.1]

Chief Executive Officer

17. (a) The period for submission of the program for approval of Engineer shall be TEN days from the issue of Letter of Acceptance. [Cl.26.1]

(b) The updated program shall be submitted at interval of 60 days. [Cl. 26.3]

(c) The amount to be withheld for late submission of an updated program shall be Rs. 10,000=00 per day for contract value up to 2 Crore and Rs. 20,000=00 per day for contract value above Rs. 2 Crores. [Cl. 26.3]

18. The key equipment for field laboratory shall be :

S.No	Name Of Equipment	Quantity
	As Per IRC : SP : 20-2002	
	Appendix 10.1& 10.2 Or Morth	
	IRC :SP 72-2005	
	IRC :37 -2012	

19. *No increase in rates of any items specified in Bill Of Quantity is allowed due to variation in quantities* [Cl 36.1]

20. The authorized person to make payments is **CEO, Agra Smart City Limited, Agra.** [Cl 39.2]

21. (a) Milestone to be achieved during the contract period.

(1) 1/8th of the value of entire contract work up to 1/4th of the period allowed for completion of construction.

(2) 3/8th of the value of entire contract work up to 1/2nd of the period allowed for completion of construction.

(3) 3/4th of the value of entire contract work up to 3/4th of the period allowed for completion of construction.

(b)

Amount of liquidated damages for delay in completion of works	For whole of work 1 percent of the initial contract price, rounded off to the nearest thousand, per week
---	--

(c)

Maximum limit of liquidated damages for delay in completion of work.	10 percent of the initial contract price rounded off to the nearest thousand
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[CI 44.10]

22 The standard form of performance security acceptable to the employer shall be an unconditional Bank Guarantee of the type as presented in the Bidding Documents.

[CI 46.1]

23. (a) The Schedule of operating and maintenance manuals N.A [CI 51.1]

(b) The date by which “as-built” drawings (in scale as directed) in 2 sets are required is within 28 days of issue of certificate of completion of whole or section of the work, as the case may be (including L-section and cross section of the road) [CI 51.1]

24. The amount to be withheld for failing to supply “as-built” drawings by the date required is Rs. One Lac.

[CI 51.2]

25. (a) The Period for setting up a field laboratory with the prescribe equipment is 7 (Seven) days from the date of notice to start work [CI 51.2.(i)]

(b) The following events shall be fundamental breach of contract: “The Contractor has contravened Clause 7.1 and Clause 9 Of Part I General Condition Of Contract”

[CI 51.2.(j)]

26. The Percentage to apply to the value of the work not completed representing the Employer’s additional cost for the completing the works shall be 20%

[CI 53.1]

Appendix to Part I General Condition of Contract

SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTION WORK.

- a) Workmen Compensation Act 1923: - The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) Payment of Gratuity Act 1972: - Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days (say, 15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.
- c) Employees P.F. and Miscellaneous Provision Act 1952: The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%). The benefits payable under the Act are:
 - i. Pension or family pension on retirement or death as the case may be.
 - ii. Deposit linked insurance on the death in harness of the worker.
 - iii. Payment of P.F. accumulation on retirement/death etc.
- d) Maternity Benefit Act 1951: - The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) Contract Labor (Regulation & Abolition) Act 1970: - The Act provides for certain welfare measures to be provided by the Contractor to contract labor and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labor.
- f) Minimum Wages Act 1948: - The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Constructions of buildings, roads, runways are scheduled employment.
- g) Payment of Wages Act 1936: - It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- h) Equal Remuneration Act 1979: - The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.
- i) Payment of Bonus Act 1965: - The Act is applicable to all establishments employing prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.
- j) Industrial Disputes Act 1947: - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- k) Industrial Employment (Standing Orders) Act 1946: - It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get these certified by the designated Authority.

- l) Trade Unions Act 1926: - The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) Child Labor (Prohibition & Regulation) Act 1986: - The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labor is prohibited in building and construction industry.
- n) Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979: - The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Traveling expenses from home up to the establishment and back etc.
- o) The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996: - All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- p) Factories Act 1948: - The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons Or more with aid of power or another prescribed minimum (say, 20) or more persons without The aid of power engaged in manufacturing process.
- q) Arbitration and Conciliation Act, 1996: - The Act lays down the procedure for appointment of Arbitrator, Arbitration and conciliation, Jurisdiction of Arbitral Tribunals, Recourse against Arbitral award appeals.

Section 4.

Conditions of Contract

Part – II Special Conditions of Contract

1. Contractors are advised to inspect the site of work before tendering.
2. All the works shall be carried out as per MORTH specifications/PWD detailed specification and instruction of Engineer-in-charge.
3. The conditional tender shall be liable to rejected.
4. Hiding of any information by contractor will result in rejection of his tender.
5. The quantities are liable to vary on either side to any extent as per actual requirement of work for which no claim whatsoever by the contractor shall be entertained.
6. Job mix for all granular and bituminous works will have to be got prepared from reputed institute as directed by Engineer-in-charge and submitted for approval by competent authority. The entire ingredient required for job mix will be collected and sealed in presence of Engineer-in-charge and sent for preparation of job mix. If during execution of work there is change in grading of stone Aggregate, fresh job mix is to be got prepared.
7. Payment of all bituminous works- will be made on the basis of least quantity Arrived as by the following method:-
 - (I) Volume of bituminous work will be calculated by taking levels before and after the execution of particular activity at regular grids as prescribed by MORTH.
 - (II) Mix in each tipper will be taken at contractors cost and divided by the actual average field density of the stretch of each day of work and deemed volume will be arrived at. However, the contractor must note that density of any point should not be less than the permissible limit with respect to job mix.
8. Any recovery imposed by Technical Audit cell or by higher authority will be deducted from contractors running final bills during execution of works and will be adjusted from performance security if final bill is processed during defect liability period.
9. All the defects appeared' during execution of work will have to be rectified as directed by Engineer in charge within shortest possible time. During defect liability period contractor will be deploy sufficient technical staff as mention in contract document for, proper maintenance of work. If contractor fails to attend the defects. Within reasonable time period, the same will be attended by department and all expenses so incurred will be adjusted from performance security of contractors.
10. The contractor will adopt PERT to complete the project in time. A detailed program and weekly working program will have to be submitted by contractor regularly.
11. Contractor shall procure Bitumen from Indian Oil Corporation, Hindustan Petroleum and shall produce the original C.R.C. issued by the company at the time of claiming the payment for bitumen and get reconciled against consumption in each running 'bill. If bitumen brought by the contractor is less than the calculated quantity arrived at by the measured quantity of works, the difference in such quality will be deducted from contractor's bill.
12. For earth work, each borrow pit will have get to be approved from competent authority by furnishing all physical/chemical characteristic of earth of each borrow pit before start of work. The contractors are advised to survey the area to ascertain the availability of earth before tendering.

13. MAINTENANCE DURING DEFECT LIABILITY PERIOD

The Defect Liability for this work is 12 months. During this period, it shall be the responsibility of the contractor to clean the area and furniture, tree/shrub cutting, etc at an acceptable serviceability level as directed by the Engineer in charge.

During the operation and maintenance period 60 months contractor shall provide a supervisor level staff for attending to all the O&M activities during the O&M Period.

The monthly report on the Operation and Maintenance shall be submitted to the Engineer and Security deposit (Bank Guarantee) for O&M as per the BOQ shall be released to the contractor based on the work carried out by him and assessment by the Engineer in charge.

Scope of Work in Operation and Maintenance Period

For R O Plant:

The AMC is for preventive as well as for break down maintenance and includes repair and replacement of the following parts free of charge during the AMC Period:-

Sr. No	Particulars	Replacement schedule
i.	All kinds of Filters	Once in year
ii.	Pre-filter candle	Once in year
iii.	Compressor	Once in 02 year
iv.	Thermostat	Once in 02 year
v.	Transformer	Replaced whenever required.
vi.	Relay	Replaced whenever required.
vii.	Carbon	Replaced whenever required.
viii.	Worn out parts	Replaced whenever required.
ix.	All kind of pump	Once in 02 year
x.	All kind of plumbing items.	Once in 05 year
xi.	All kind of tanks	Once in 05 year
xii.	U.V.System	Once in 03 year

At least one replacement in a year for all Filters should be necessary.

f) It may be ensured that rates for parts of authorized brand only should be quoted and supplied for repair and AMC accordingly. In case if it is found at a later stage that sub- standard /inferior quality items supplied, necessary action will be taken against such supplier, including forfeiture of their Performance Security and debarring them for quoting future tenders.

g) If the tenderer fails to undertake the job satisfactorily at any period of time or withdraws his services permanently for more than three consecutive weeks.

The complaint is to be attended within 72 hrs, failing which following penalty shall be levied:

- i) Attending to complaint between 72 hours-96 hours of intimation- Rs. 500/-
- ii) Attending to complaint between 4 days to 7 days of intimation- Rs. 1000/-

iii) Attending to complaint beyond 7 days - Rs. 2000/-

For 6 Mtr Street Pole with light LED: LED Diodes, Drivers, Dia-cast Aluminum Housing has to be replaced if is not working. Routine Maintenance means cleaning as per serviceability level. The life of street light is 10 years.

Contractor shall rectify the faults within the time period specified below:

Description of fault	Time period for rectification of fault	Recovery per hour of default exceeding prescribed time period
Any kind of Electrical fittings etc.defective	Within 4 hours	@ 100/-per hour per fitting
Wiring defective /cable fault	Within 4 hours	@ 100/-per hour per circuit
Entire system defective /down	Within 4 hours	@500/-per day

Pota Cabin: Cleaning of poly carbonate sheets and pre-coated Galvalum sheet Roofing, 12 mm thick Walls cladding using Exterior grade solid acrylic surface. If the Shed and colour to be fade contractor has to replace at his own cost. The life of pota cabin is 10 years.

14. Project Management Consultancy:

OBJECTIVE The objective of this Consultancy (the “Objective”) is to assist the ASCL in implementation of the Project till the successful completion and handing over of all works to the ASCL and comprehensively supervise the works and activities carried out by the Bidder(s) as Engineer’s Representative” under the respective contract(s) in a manner that would ensure:

- a. Total compliance of technical specifications and various other requirements contained in the respective contracts by the Bidder(s);
- b. High standards of quality assurance system in the Consultancy as well as the works and activities of the Bidder(s);
- c. Comprehensive and documented reporting to the ASCL of Consultant’s own activities, progress of the Project(s) and compliances/ non-compliances by the Bidder(s);
- e. Proper verification of measurements and bills submitted by the Bidder(s) so that payments made by the ASCL against these bills truly reflect the actual work done at site complying with the requirements of the respective contract(s);
- f. proper interface and coordination among the ASCL, Bidder(s), other Bidders/ Bidders and local bodies/ state government; and
- g. Full documentation of the completed works including applications for various approvals.

The objectives of the PMC is not limited to the above, CEO of ASCL have discretion implement other objectives or the completion of the project.

Section 5

Specifications

All the works shall be carried out as per specification for building, Detailed PWD Specification & latest E-in-C circulars.

SPECIFICATION FOR HVAC

1-DUCTABLE SPLIT UNITS

1.1 SCOPE

The scope of this section comprises the supply, erection, testing and Commissioning double skin construction air handling units, confirming of these specifications and in accordance with Drawings and of the Schedule of Quantities.

1.2 SINGLE SKIN AHUs

The Ductable Split Unit shall be double skin construction, draw - thru type Comprising of various section such as mixing plenum, filter section. Coil Section, fan section, filters plenum as per details given in Drawings and Schedule of Quantity.

1.3 HOUSING / CASING

The Housing/casing of the Ductable Unit shall be of double skin Construction. The frame work shall be of extruded Aluminum hollow sections. The entire frame shall be assembled using pressure die cast nylon plastic joints to make a sturdy, strong and self supporting frame work for various sections.

1.3.1 43 mm & 25+/- mm thick double Skin panels shall be made of 0.64mm Pre-coated GI on outside and 0.8mm Plain GI sheet inside with CFC free Poly Urethane foam of density 36+/- kg/cm³. In-house injected in between. These panels shall be screwed from inside on to the frame with soft rubber gasket in between to make joints are tight.

1.3.2 Frame work for each section shall be joined together with soft rubber gasket. On between to make the joints air tight. Suitable air tight access doors/panels with Aluminum hinges and Nylon locks shall be provided for access to various sections for maintenance. The entire housing shall be mounted on heavy duty GSS channel.

1.3.3 Wherever return air is ducted & not surrounding the Ductable or AHUs are exposed to atmosphere, the Ductable shall have thermal break profile and panels with thermal barrier. Ductable exposed atmosphere shall have 43+-mm PUF with thermal break profile. The Thermal break & profiles shall be Arosio make or approved equivalent.

1.4 FANS

The fan shall be backward curved, single width type. The fan shall be of Improved origin, AMCA Certified for air and sound, factory tested and assembled by the original manufacturer. The Wheel & housing shall be fabricated from heavy gauge galvanized. The fan impeller shall be mounted on EN8 or C-40 carbon steel. The impeller & fan shaft shall be statically and dynamically trim balanced to ISO 1940 quality grade after assembly. A computer printout with vibration spectrum analysis shall be submitted. The fan outlet velocity shall not be more than 8 meters/Sec (1500 fpm). Fan housing with the motor shall be mounted on anti-vibration mounts. The fan outlet shall be connected to casing with the help of fire retardant neoprene impregnated fabric of imported origin, mounted on Aluminum extruded channels, acting as a flexible connection for anti-vibration. The same type of connection shall be provided at the Ductable outlet for the connection of Ductable to the duct.

1.5 COOLING / HEATING COILS

- 1.5.1 The multi rows deep cooling or heating coil shall be seamless imported copper tubes shall have 12.5 mm to 15 mm Dia. and 0.41 mm thickness. The coil shall have continues anti-corrosive hydrophilic blue coated 0.15 mm thick Aluminum plate fins. The fins shall be spaced by collars forming integral part of the fins and the fins should be firmly bonded to copper tubes assembled in 1mm thick stainless steel frame. The tubes shall be staggered in the Direction of airflow. Face and surface areas shall be such as to ensure rated Capacity from each unit and such that air velocity across coil shall not exceed 500 FPM (2.5 m/s). Fins spacing shall be 4 to 5 fins per cm (8 to 12 fins / in). Tubes shall be mechanically expanded for minimum thermal contact resistance with fins. The coil circuit should be sized for Adequate refrigerant.
- 1.5.2 Each coil shall be factory tested. The coil shall be pitched in the unit casing for proper drainage. The computerized selection and test certificates for the cooling coil shall be submitted by the manufacturer.
- 1.5.3 The condensate drain tray constructed out of 18/20 G. Stainless steel sheet (SS 304) and shall have multiple-slope towards drain connection. The tray shall be insulated with 13mm close cell nitrile insulation (Arm flex Class 'O'). The insulation shall be sandwiched between 2 sheets of SS 304.

2 Y – Joint/ Ref net Separation

Supply & installation of the Y-joint/ref.-net separation refrigeration pipe joints and headers in the appropriate orientation to enable correct distribution of refrigerant. The distribution joints should be factory insulated with pre-formed section of Expanded polystyrene/Equivalent.

3 -INVERTER TYPE FOUR DIRECTIONAL AIR FLOW CASSETTE AIR CONDITIONING

3.1. SCOPE

3.1.1 The scope of this section comprises supply, installation, testing and commissioning of window / Split Air conditioners.

3.2 CASSETTE AIR CONDITIONING

3.2.1 Inverter type four directional air flow Cassette Indoor Air Conditioning Units of following capacity for mounting inside false ceiling, each comprising of DX cooling coil, blower with multi speed motor, decorative grill panel with dirt repellent coating, filter. Condensate water drain pump with electronic level sensor, including remote controller. The individual PCB should be microprocessor based. Outdoor Condensing unit with Scroll compressor, condenser coils, propeller / axial fans pressure switches / cutouts etc. & insulated connection of refrigerant circuit, Necessary R-410A Refrigerant Gas and oil charge. With 25RMT Refrigerant piping & electrical cable between indoor & out door

Mode of Measurement:

Executed quantity shall be measured on number basis

4 - OUTDOOR AIR PROCESSING UNITS

4.1 SCOPE

The scope of this section, comprises the supply, erection, testing and commissioning of Ceiling Mounted Ductable Fan Coil Units, conforming to these specifications and in accordance with requirement of Drawings and of the schedule.

4.2 CAPACITY

The air moving and coil capacities shall be as shown in the Drawings and indicated in Schedule of Quantities.

4.3 UNIT

The Outdoor Unit shall be Ceiling Mounted type. The housing/casing of the Air Handling Unit shall be double skin construction. The Framework shall be of Extruded Aluminium Hollow Section. All the frame shall be assembled using pressure die cast aluminium joints to make a sturdy, strong & self supporting frame work for various sections.

25 MM thick Double Skin panels shall be made of 0.6 MM Pre-plastified GSS Sheet on outside and 0.6 MM Galvanized sheet inside with P.U. insulation in between. These panels shall be screwed on to the framework with soft rubber gasket on aluminium frame to make the joints air tight. Insulation material shall be of 38 Kg./Cu. Mt. Density minimum. Necessary outlet from the drain pan shall be provided. The unit shall be suitably insulated from inside avoid condensation on outer surface.

4.4 FAN

The fan shall be DIDW Centrifugal Forward Curved Fan having direct driven single phase/three phase motor as specified. The fan shall be in 100% galvanized construction and shall be statically and dynamically balanced. The fans shall carry AMCA Certification.

5 - REFRIGERANT PIPING

All refrigerant piping for the air conditioning system shall be constructed from soft seamless upto 19.1mm and hard drawn copper refrigerant pipes for above 19.1mm with copper fittings and silver-soldered joints. The refrigerant piping arrangements shall be in accordance with good practice within the air conditioning industry, and are to include charging connections, suction line insulation and all other items normally forming part of proper refrigerant circuits. all joints in copper piping shall be sweat joints using low temperature brazing and or silver solder. Before jointing any copper pipe or fittings, its interiors shall be thoroughly cleaned by passing a clean cloth via wire or cable through its entire length. The piping shall be continuously kept clean of dirt etc. while constructing the joints. Subsequently, it shall be thoroughly blown out using nitrogen. After the refrigerant piping installation has been completed, the refrigerant piping system shall be pressure tested using nitrogen at pressure of 38kg per sq.cm. Pressure shall be maintained in the system for 24 hours. The system shall then be evacuated to minimum vacuum if 700 mm Hg and held for 24 hours.

The air conditioning system supplier shall be design sizes and erect proper interconnections of the complete refrigerant circuit.

The thickness of copper piping shall not be less than mentioned below:

Pipe size in mm (OD)

pipe wall thickness in mm

a.)	41.3	1.4
b.)	38.1	1.3
c.)	34.9	1.2
d.)	31.8	1.1
e.)	28.6	1.0
f.)	25.4	1.0
g.)	22.2	1.0
h.)	19.1	1.0
i.)	15.9	1.0
j.)	12.7	0.8
k.)	9.5	0.8
l.)	6.4	0.8

The suction line pipe size and the liquid line pipe size shall be selected according to the manufactures specified outside diameter. All refrigerant pipes shall be properly supported and anchored to the building structure using steel hangers, anchors, brackets and supports which shall be fixed to the building structure by means of inserts or expansion shields of adequate size and number to support an the load imposed thereon.

To protect nitrile rubber insulation of exposed copper piping from degrading due ultra violet rays and atmospheric condition, it shall be covered polyshield coating with at least two coats of resin and hardener (make-poly Bond Company) above nitrile rubber insulation. Fiberglass tape shall be helically wound and coated with painted two coats of resin with hardener to give smooth and plain finish.

6 - PIPING INSTALLATION:

- 6.1 The drawings indicate schematically the size and location of pipe runs and size may, however, be changed to meet the size conditions. The contractor, upon award of the work, shall prepare detailed working drawings, showing the cross section, longitudinal sections, details of fittings, locations of isolating drain and air valves, etc. they must keep in view the specific openings in building and other structures through which the pipes are designed to pass.

- 6.2 Piping shall be properly supported on or suspended from stands, clamps, hangers, etc. as specified and as required. The tenderer shall adequately design all the brackets, saddles, clamps, hangers, etc. and be responsible for their structural integrity.
- 6.3 Pipe supports shall be of steel, adjustable for height and prime – coated with rust preventive paint and finish – coated black. Where pipe and clamp are of dissimilar material, a gasket shall be provided in between.

Spacing of pipe supports not exceeds the following:

Pipe (mm)	Spacing (Mtr.)
3 to 12	1.22
19 to 25	1.83
32 to 150	2.44
150 and above	3.05

Pipe hangers shall be fixed on walls on and ceilings by means of metallic raw plugs or approved shear fasteners.

- 6.4 Vertical risers shall be parallel to walls and column lines and be straight and plumb. Risers passing from floor to floor shall be supported at each floor by clamps or collars attached to pipe and with a 12 mm thick rubber pad or any resilient material. Where pipes pass through the terrace floor, suitable flashing shall be provided to prevent water leakage. Risers shall also have a suitable elbow or concrete pipe support at the lowest point.
- 6.5 Pipe sleeves of 50 mm larger diameter shall be provided wherever pipes pass through walls and the annular space filled with felt and finished with retaining rings.
- 6.6 Cut – outs required in the floor slab for taking the various pipes are indicated in the drawings. Tenderers shall carefully examine the cut-outs provided and clearly point out wherever the cut-outs shown on the drawing

7 - DRAIN PIPING

7.1 SCOPE:

7.1.1 Scope of this section comprises the supply and laying of all pipes required for this project. The engineer's drawing show the general layout of the piping and they are they are not meant as working drawings. On the award of the contract, the Tender shall prepare his own detailed working drawings.

7.2 CONDENSATE DRAIN WATER PIPING:

7.2.1 Condensate from the Indoor unit shall be drained through properly installed drain piping designed to prevent any accumulation of condensate in the drain pan.

7.2.2 Drain piping shall be made of rigid PVC pipe of 6 Kg./cm sq. pressure rating with water tight threaded connections.

7.2.3 Leading from the Indoor unit to a suitable drain points.

7.2.4 Complete drain piping shall be made leak proof and water tight by means of precise installation and the use of leak proof sealant / adhesives.

7.2.5 U trap shall be providing in the drain connection of each IDU.

SPECIFICATION FOR LIFT

Supplying, erecting and commissioning passenger lift with technical requirements of lift installation, its components, safety devices various types of controls and methods of operation. The selection of a particular type of control and method of operation will be guided by the requirements in individual case such as nature of building, usage, occupancy, traffic pattern, etc. and has to be decided in individual case considering quality and quantity analysis of service.

1.1 Recommended standards:

The following list is for Indian Standards which are acceptable as good practice and accepted standards;

IS 14665 part I : Guidelines for outline dimensions of passenger, goods Service and hospital lifts.

IS 14665 part II : Code of practice of installation, operation and Maintenance of lifts.

IS 14665 part III : Safety rules

IS 14665 part IV : Components

Development Control Rules: Of concerned Corporation or Local Authority National Building Code 2005

Bombay Lift Act 1939 Bombay Lift Rules 1958

I.E. Rules 1956 : Reprint as per 2005

1.2 Material:

1.2.1 Electricity Supply :

Three phases, 50 c/s, 415 V electric supplies shall be made available by owner. The entire lift equipments should be suitable for operation at +10% to – 20% of The rated supply voltage.

1.2.2 Gearless machine:

The gearless machine shall consist of a motor, traction sheave and break drum or brake disc completely aligned on a single shaft. Gearless machine shall be AC. Gearless with VVVF drive.

1.2.3 Electric motor:

Energy efficient Electric motor of suitable HP with class F insulation and S-4 duty cycle.

1.2.4 Car:

As per IS 14665 part IV with MS Girders, bracings of adequate size and strength at the bottom and top with angle iron frame and side panels of CRCA/MS of 16 gauge duly powder coated paint or SS sheet of 18 gauge with mirror or hairline finish with safety factor more than 5. Glass panels

1.2.5 Signals:

FPI in car and CPI at all landings are to be provided with up / down direction indicators with call registration facility.

1.2.6 Variable Voltage Variable Frequency:

Incoming mains AC power is first rectified to DC and then inverted to provide controlled AC current to the elevator drive. Precision monitoring is required for motor speed, car direction; position and load to enable the pulse width of the AC power supplied to the motor and to be adjusted to ensure that elevator speed is maintained very accurately to an ideal profile. Energy saving through reduced power consumption should be achieved.

1.2.7 Controls:

Microprocessor based Control panel duly wired with proper size and strength of copper wire.

1.2.8 Control panel box:

Control panel box of MS sheet of 16 gauge with duly power coated of MS sheet of 16 gauge

1.2.9 Driving /traction pulley:

Sheaves and pulleys shall be of hard alloy, cast iron, SG iron or steel and free from cracks, sand holes and others defects. They shall have machined rope grooves. The traction sheave shall be grooved to produce proper traction and shall be of sufficient dimension to provide for wear in the groove. The deflector sheave shall be grooved so as to provide a smooth bed for the rope.

1.2.10 Over speed governor:

The car safety shall be operated by speed governor located overhead and driven by governor rope suitably connected to the car and mounted on its own pulleys. Governor shall be provided for lifts with a travel of more than 5.5 meters. The governor rope shall be not less than 6mm in dia and shall be made of steel or phosphor bronze. These shall be in

1.2.11 Electromagnetic breaks:

The lift drive machinery shall be provided with an electro-magnetic brake or motor operated brake normally applied by means of springs in compression when the operating device is in off position. The brake shall be suitably curved over the brake drum or brake disc and provided with fire proof friction lining. The operation of brake shall be smooth, gradual and noiseless. The brake shall be designed to be of sufficient size and strength to stop and hold the car at rest with rated load. The brake should be capable of operation automatically by the various safety devices.

1.2.12 Automatic Rescue Devices (ARD)

ARD should monitor the normal power supply in the main controller and shall activate rescue operation within 10 seconds of normal power supply failure. It should bring the elevator to the nearest floor at a slower speed than the normal run. While proceeding to the nearest floor the elevator will detect the zone and stop. After the elevator has stopped, it automatically opens the doors and parks with door open. After the operation is completed by the ARD the elevator is automatically switched over to normal operation as soon as normal power supply resumes. In case the normal supply resumes during ARD in operation the elevator will continue to run in ARD mode until it reaches the nearest landing and the doors are fully opened. If normal power supply resumes when the elevator is at the landing, it will automatically be switched to normal power operation. All

the lift safeties shall remain active during the ARD mode of operation. The battery capacity should be adequate so as to operate the ARD for duration of atleast 30 minutes.

1.2.13 Suspension wire rope:

Round strand steel wires ropes made from steel wire ropes having a tensile strength not less than 12.5 tones / cm² and of good flexibility shall be used for lift. Lubrications between the strands shall be achieved by providing impregnated hemp core.

1.2.14 Guide rails:

The guide rails shall be continuous throughout the entire travel and shall withstand without any deformation by the action of safety gear with a fully loaded car. Generally the guide rails shall be supported by brackets secured to the hoist way frame at each floor. The rails shall be securely fastened to the brackets or other supports by approved heavy rail clamps. Guide rails shall extend from pit floor to the underside of concrete slabs or grouting at top of the lift well. They shall be erected in plumb and parallel with a maximum deviation of 3mm.

1.2.15 Buffers:

Buffers shall be suitable for installation in the space available. Buffer anchorage at pit floors shall be installed avoiding puncturing of water proofing. Oil buffers of the car and counter weight shall be of the spring return type or of gravity type. The contractor must indicate the name of buffer manufacturers, buffer stroke & certified maximum loads.

1.3 Method of Construction:

Bar chart shall be prepared as per tender condition and requirement. Lift hoist way measurement shall be done before finalizing the material quantity.

Drawing should be prepared according to tender specification considering hoist way size and permission from Lift Inspector for erection of lift should be taken prior to commencement of erection. White wash in lift well shall be carried out by the client.

Site in full readiness shall be handed over to the agency.

Minor civil work pertaining to front wall architraves internal / external plastering etc. shall be done by the lift agency. Prepare and install scaffolding and template by adjustment required.

List of components / finished items those are not manufactured by lift manufacturer shall be informed by the agency.

Brackets are to be erected and fixed in to plum line.

Put the fasteners (16 mm dia x 100 mm) if the brackets are to be fixed on RCC wall / beam / lintel or fix rig bolts if brick work found in RCC.

After fixing brackets and guides with adjustment fix the car and counterweight

Fix the landing door frame / door bottom with sill and suitable brackets to withstand the load of passenger / freight as per specification

Fix metal trunking / PVC pipe as per IS requirement

Complete civil work such as fixing up hoist way, push button, buffers, machine room I beams for resting machine, foundation for control panel, minor civil work, making holes in bottom slab of machine room to pass traction rope, speed governor rope / wiring and complete finishing according to sizes and specification.

Electrical wiring in lift shaft and supply cable shall be carried out from electrical agency as per requirement of lift rules.

Fix machine with complete gear box unit, suitable rubber pad / anti vibrating pad, diverter if required with alignment as per norms.

Fix the control panel at accessible height from floor level to inspect, connect, and Operate easily.

Put wires in accordance with the control panel connection diagram according to colour code in metal trunking with insulating paper on all bends, corners. Metal trunking shall be duly earthed from top to bottom according to IS specifications.

Mid way junction boxes are to be fixed according to size but it should be marked by every wire with nos. (Ferrules) Traveling cables should be fixed, with suitable hanger to take load of traveling cable and put extra wire of 20 % approximately

Fix the car and counterweight frame according to sizes, adjustment of safety block wedges shoes as per requirement.

1.4 Toe Guard Aprons:

The toe guard apron of gauge not less than 1.6mm sheet steel may be provided extending at least. 15mm beyond entrance jams at each side. The guards shall have a straight vertical face extending below the level of the finished car floor and not less than the depth of the leveling zone plus 7.5mm. It shall be seamed to car platform construction and be reinforced and braced.

1.5 Car Apron, Landing Thresholds and Sills:

An apron shall be fitted to the car platform such that no dangerous gap exist at any time when the landing door is opened, Thresholds and sill plates shall be provided at the landings also. The distance between landing sill and the sill on car platform shall not be more than 30mm.

1.6 ARD should be provided

Emergency Power Supply for lift car, fan and intercom system:

This shall include suitable secondary battery with trickle/Boost charge arrangement and inverter power pack with necessary contactors for supply to light fixtures in the lift car, fresh air fan in lift car. The same battery shall also feed the alarm bell and communication equipment.

1.7 Inter-communication system:

Intercom system shall be provided in car to have communication in case of an emergency and shall be connected to re-chargeable battery supply.

1.8 Ratings and Instructions:

Inside the lift car, the lift supplier shall also provide a stainless steel metallic plate indicating the rated load and detailed instructions for the passengers. This shall be mounted at a suitable place.

1.9 General:

- a) Put main traction ropes from car to counterweight with rope tension adjustment.
- b) Put counterweight i.e. of CI blocks in counter weight frame for suitable equilibrium.
- c) Put car platform and car with adjustment.
- d) Fix car door and panels / car push button/ fall ceiling light, fan.
- e) Fix landing panels and put in lock in circuit.
- f) Fix hoist way accessories like drum reels terminators, final limits, leveling
- g) Removing the scaffolding.
- h) Connect three phase supply from main switch along with earthing to controllers as per instruction given.
- i) Wiring from controller to motor along with earth wire is to be completed.
- j) Check motor/gear oil.
- k) Start lift in maintenance mode.
 - l) Check adjustment of hoist way switch/ safety doors and check ail parameters of shaft,
 - m) Put controller, on normal mode.

- n) Test run to be taken and & service inspection of lift with all safeties shall be done in presence of site in charge.
- o) Pre commissioning work such as cleaning of shaft, pit etc shall be done.
- p) After completion of work, NOC shall be obtained from lift inspector
- q) by the agency before putting LIFT in to operational use.

1.10 Testing of Lift Installation:

1.10.1 Tests at site:

(a) Leveling Test:

Accuracy of the floor leveling shall be tested with the lift empty, fully loaded. The lift shall be run to each floor while traveling both in upward and downward directions and the actual distance of car floor above, below landing floor shall be measured. In each case there shall not be any appreciable difference in these measurements for leveling at the floors when the car is empty and when it is fully loaded. The tolerances for leveling shall be as specified in para 8 of chapter IV, section I.

(b) Safety Gear Tests:

Instantaneous safety gear controlled by a governor should be tested with, contract load and a contract speed, the governor being operated by hand. Two tests should be made, however, with wedge clamp or flexible clamp safeties, one with contract load in the car and the other with 60 kg (equivalent to one person) in the car. The stopping distance obtained should be compared with the specified figures and the guides, car platform, and safety gear should be carefully examined afterwards for signs of permanent distortion. Counterweight safety gear should be tripped by the counter weight governor and the stopping distance noted. In this case, however the governor tripping speed may exceed that of the car safety governor but by not more than 10 percent. During the safety gear tests, car speed (from the governor or the main sheave) should be determined at the instant or tripping speed with that stated in IS. The governor jaws and rope should be examined for any undue wear.

(c) Contract speed:

This should be measured with contract load in the car, with half load, with no load, and should not vary from the contract speed by more than 10 percent. The convenient method is by counting the number of revolutions, made by the sheave or drum in a known time, Chalk mark on the sheave or drum and a stop switch will facilitate timing but care must be exercised to ensure that no acceleration or retardation periods are included. If the roping is 2 to 1 the sheave speed is twice the car speed. Alternatively, the speed can be measured by a tachometer applied directly to shaft immediately below the sheave.

(d) Lift balance:

After the above test, some of the weight shall be removed until the remaining weights represent the figures specified. With this condition at half way travel the effort required to move the lift car in either direction with the help of winding wheel shall be as nearly as can be judged by the same.

(e) Car and landing doors interlock:

The lift shall not move with any door open. The car door relay contact and the retiring release cam must be tested. The workings of the door operation and the safety edges and light equipment if any provided shall also be examined.

(f) Controllers:

The operation of the contactors and interlocks shall be examined and it shall be ascertained whether all the requirements laid down in the specifications have been met.

(g) Normal terminal stopping switches:

These shall be tested by letting the car run to each terminal landing in turn, first with no load and then with contract load and by taking measurements, top and bottom over travels can be ascertained.

(h) Final terminal stopping switches:

The normal terminal stopping switches shall be disconnected for this test. It shall be ensured that these switches operate before the buffers are engaged.

(i) Insulation Resistance:

This shall be measured (after removing the electronic PCB's and their connection) between power and control lines and earth and shall not be less than 5 mega-ohms when measured with D.C. voltage of 500 volts. The test shall be carried out with contactors so connected together as to ensure that all parts of every circuit are simultaneously tested.

(j) Earthing:

Earthing continuity of all conduits, switches, casing and similar metal work shall be tested.

(k) Ropes:

The size, number construction and fastenings of the ropes should be carefully examined and recorded.

(l) Buffers:

The car should be run on to its buffers at contract speed and with contract load in the car to test whether there is any permanent distortion of the car or buffers. The counter weight buffers should be tested similarly. Test report shall be intimated after testing at works.

1.11 Service Temperature Test:

A continuous run of one hour should be made with number of starts and stops to reproduce as nearly as practical the anticipate duty in service. (The standard duty cycle is for 180 starts per hour). It is very difficult in practice to carry out this test with alternate starts at full load and no load and it is necessary therefore to simulate these cycles. A suitable test for all motors except squirrel cage motors is to run the car up from the bottom landing with contract load and stop at each floor. From the top floor a non stop run is made to the lowest floor and the upward journey with stop is then

repeated. The time intervals between stops and starts at the floors should be uniform and such as to give about 150 starts in one hour. At the end of this run the temperatures of the armatures and fields of the motor and generator are recorded. The temperature rise should, not exceed 55 deg C or 75 deg C for class A or B insulation respectively.

1.12 Method of Construction: Executed quantity will be counted on number basis, (i.e. each)

Section 5 (Cont'd)

Drawings

List of Drawings: - May obtained from the ASCL office

1. Drawings to be followed for actual execution of work should bear the stamp “Good for construction”.
2. Any revision of working drawings should be indicated by pre-fixing R1, R2..... etc. after original reference number. Reasons for each revision should be clearly noted in the drawing.
3. Complete set of drawings should be issued along with other tender documents so as to form part of the agreement.
4. Drawings are not available with the bidding documents downloaded from the website and may be obtained from the office of the concerned PIU as indicated in the NIT

Section– 6.

Form of Bid

Notes on Form of Bid

The Bidder shall fill in and submit this Bid form with the Bid.

------(Date)

To The **CEO, Agra Smart City Limited, Agra.**

Description of the work: Upgradation of Municipal school in Tajganj, Agra –Civil Work

1. I/We offer to execute the works described above and remedy any defects their in conformity with the conditions of contract, specifications, drawings, bill of quantities and addenda for
 - (a.) For percentage rate **as quoted online in BOQ** percentage below/percentage above/at par with the rate entered in the Bill of quantity, as referred to in clause 13 of ITB.
2. We undertake to commence the works on receiving the notice to proceed with work in accordance with the contract documents.
3. This Bid your written acceptance of if shall constitute a binding contract between us. We understand that you are bound to accept the lowest or any Bid you receive.

We hereby confirm that this bid complies with the Bid validity and earnest money required by the bidding documents and specified in the Appendix to ITB.

Authorized Signature :- _____

Name and title of Signatory:- _____

Name of bidder :- _____

Authorized Address of Communication:- _____

Telephone No(s): (Office) :- _____

Mobile No :- _____

Facsimile (FAX) No :- _____

Electronic Mail Identification (E-mail ID) :- _____

Section 7

Bill of Quantities Preamble

1. The Bill of Quantities shall be read in conjunction with the Instructions to Bidders, Conditions of Contract Specifications and Drawings.
2. For the construction of works, the quantities given in the Bill of Quantities are estimated, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the Bill of Quantities in the case of item rate tenders.
3. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labor, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out in the Contract.
4. Arithmetic errors will be corrected by the Employer pursuant to Clause 27 of the instructions to Bidders.

Section 8
Letter of Acceptance and Other Forms
OFFICE OF THE CEO, AGRA SMART CITY LIMITED, AGRA

NO.....

DATED.....

LETTER OF ACCEPTANCE

To,

M/s.....

.....

.....

This is to notify you that on behalf of the Employer, **CEO, Agra Smart City Limited, Agra** has accepted your Bid dated for execution of the for the Contract Price of Rs..... Rs.....only) is hereby accepted by our Agency.

You are hereby requested to furnish Performance Security, in the form detailed in Cl.32 of ITB for an amount of Rs..... (Rs.....) Within 10 days of the receipt of this letter of acceptance valid up to 45 days from the date of expiry of Defects Liability Period (i.e. up to) and sign the contract, failing which action as stated in Cl. 32.3 of ITB will be taken.

Yours faithfully,

**CEO, Agra Smart City
Limited, Agra**

OFFICE OF THE CEO, AGRA SMART CITY LIMITED, AGRA

Issue of Notice to proceed with the work

LETTER NO.....

DATED.....

To,

.....
.....
.....

Dear Sirs:

Pursuant to your furnishing the requisite performance security as stipulated in ITB Clause 32.1 and signing of the contract for the construction offor Distt. Agra you are hereby instructed to proceed with the execution of the said works in accordance with the contract documents & complete it by

Yours faithfully,
**CEO, Agra Smart City
Limited, Agra**

(c) Standard Form of Agreement

Notes on Standard Form of Agreement
The Agreement should incorporate any corrections or modifications to the Bid resulting from corrections of errors
(Instructions to Bidders, Clause 26).

Standard Form: Agreement **Agreement**

This agreement, made the day of of Between **CEO, Agra Smart City Limited, Agra** (Hereinafter called “the Employer”) of the one part, and

.....
.....
.....

[Name and address of Contractor] (Hereinafter called “the Contractor”) of the other part). Whereas the Employer is desirous that the Contractor execute the Work of

.....
District- Amethi (Hereinafter called “the Works”) and the Employer has accepted the Bid by the Contractor for the Execution and completion of such Works and the remedying of any defects therein at a cost of Rupees.....
(Rs.....only)

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all aspects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying the defects wherein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
4. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz:
 - i) Letter of Acceptance:
 - ii) Notice to proceed with the works:
 - iii) Contractor’s Bid:
 - iv) Contract Data:
 - v) Special Conditions of contract and General Conditions of Contract:
 - vi) Specifications:
 - vii) Drawings:
 - viii) Bill of Quantities: and
 - ix) Any other document listed in the Contract Data as forming part of the contract.

In witness whereof the parties thereto have caused this Agreement to be executed the day and year first before written. was hereunto affixed in the presence of: Signed, Sealed and Delivered by the said To

Binding Signature of Contractor

Binding Signature of Employer authorized
representative

(d) Form of unconditional Bank guarantee for advance payment
BANK GUARANTEE FOR ADVANCE PAYMENT

To,
CEO, Agra Smart City Limited,
Agra Nagar Nigam,
Agra

Gentlemen:

In accordance with the provisions of the General Conditions of contract, clause 45 (“Advance Payment”) of the above-mentioned

Contract, *[Name and address of Contractor]*
(Hereinafter called “the Contractor”) shall deposit with
[Name of Employer] a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of *[Amount of guarantee]*1*[in words]*. We, the
.....*[bank or financial institution]*, as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to..... *[name of Employer]* on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding
.....*[amount of guarantee]*
..... We further agree that no change or addition to or other modification of the terms of the Contract or of Works to be performed there under or of any of the Contractor documents which may be release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.
This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until
_____ *[name of Employer]* receives full repayment of the same amount from the Contractor.

Yours truly,
Signature and seal: _____
Name of Bank/Financial Institution: _____
Address: _____
Date: _____

1. An amount shall be inserted by the bank or financial institution representing the amount of the Advance Payment, and Denominated in Indian Rupees.

(e) Form of unconditional Bank guarantee “Performance Bank Guarantee”).

PERFORMANCE BANK GUARANTEE

To,

**CEO, Agra Smart City Ltd.
Agra Nagar Nigam,
Agra**

WREREAS [Name and Address of Contractor] (Hereinafter called “the Contractor”) has undertaken, in pursuance of Contract No. Datedto execute[Name of Contract and brief description of Works] herein after called “The Contract”

AND WHEREAS it has been stipulated by you in the said contract that the contractor shall furnish you with a bank guarantee by a Nationalized Bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract,

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of[amount of guarantee][in words], such sum being payable in the types and proportions of currencies in which the Contract price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of [Amount of guarantee] as aforesaid without your needing to prove or to show grounds or reasons for a demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in anyway release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This Guarantee shall be valid until a date 45 days after the expiry of defect liability period of 5 years after intended completion date.

Signature and seal of the guarantor

Name of Bank

Address

Date

QUALIFICATION INFORMATION

The information to be filled in by the Bidder in the following pages will be used for Purposes of post qualification as provided for In Clause 4 of the Instructions to Bidders. This information will not be incorporated in the Contract.

1. For Individual bidders
 - 1.1 Constitution or legal status of bidder
[Attach Copy]

Place of registration:
 Principal place of business:
 Power of attorney of signatory of Bid
[Attach]

1.2

Total value of Civil Engineering Construction work executed and payments received in the last five years** (in Rs. millions)	Road Work
--	-----------

1.3.1. Work performed as prime contractor (in the same name) on works of a similar nature over the last five years **

Project Name	Name Of The Employer*	Description Of Work	Contact No.	Value Of Contract (Rs. Millions)	Date Of Issue Of Work Order	Stipulated Period Of Completion	Actual Date Of Completion*	Remarks Explaining Reasons For Delay And Work Completed

1.3.2 Quantities of work executed as prime contractor (in the same name and style) in the last five years:

Year	Name Of The Work	Name Of The Employer	Quantity Of Work performed @					Remarks* (Indicated contract ref.)
			Earthworks in both excavation and embankment (combined quantity)(cum)	Granular Sub Base and base (cum)	Plant Mix paver laid Bituminous Work (cum)	Pipe drain NP3/NP4	Sewer Line 300mm DWC Pipe	

** Attach certificate (s) from the Engineer - In - Charge*

@ The item of work for which data is requested should tally with specified in ITB clause 4.5A(c)

*** Immediately preceding the financial year in which bids are received Attach certificate from chartered Accountant*

1.4 Information on bid capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid

(a) Existing Commitments and on-going works:

Description Of Work	Place & State	Contract No. & Date	Name And Address Of Employer	Value Of Contract (Rs. In Million)	Stipulated Period Of Completion	Value Of Works* Remaining To Be Completed (Rs. In Million)	Anticipated Date Of Completion

(b) Works for which bids already submitted

Description Of Work	Place & State	Name And Address Of Employer	Estimated Value Of Works (Rs. In Million)	Stipulated Period Of Completion	Date When decision is expected	Remarks, If Any

** Attach certificate (s) from the Engineer - In – Charge*

- 1.5 The following items of Contractor's equipment are essential for carrying out the works. The bidder should list all the information requested below. Refer also to sub clause 4.3 (d) of the instructions to bidders.

Item Of Equipment	Requirement Nos.	Availability Proposal			Remarks (From Whom to be purchased)
		Owned/Released/ To be procured	Nos/Capacity	Year (Model)/Condition	

@ As Per Annex 1 of section 1 - Instruction to bidders

- 1.6 Qualification and experience of key personnel proposed for administration and execution of the contract attach biographical data. Refer also to sub clause 4.3 (e) and 4.5 (B) (b) of instructions to bidders and sub clause 9.1 of the conditions of contract

Position	Name	Qualification	Experience (years) in general	Experience In The Proposed Position
Project Manager				
Construction Engineer				
Material and Quality control Engineer				

- 1.7 Proposed subcontracts and firms involved. [Refer ITB Clause 4.3 (j)]

Sections Of The Works	Value of Sub Contract	Sub-Contractor (Name And Address)	Experience In Similar Work

- 1.8 Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports (in case of companies/corporation), etc. List them below and attach copies.
- 1.9 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit. etc. List them below and attach copies of support documents {sample format attached}.
- 1.10 Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.
- 1.11 Information on litigation history in which the bidder is involved.

Other Party (ies)	Employer	Cause of Dispute	Amount Involved	Remarks/Present Status

1.12 Statement of compliance under the requirement of Sub Clause 3.2 of the instruction to bidders.

.....
.....
.....
.....

1.13 Proposed work method and schedule. The bidder should attach description, drawings and charts as necessary to comply with the requirement of the bidding documents. [Refer ITB Clause 4.1 and 4.3 (k)].

2. Joint Ventures - Deleted

3. Additional Requirements

3.1 Bidders should provide any additional information required to fulfill the requirements of clause 4 of the instruction to bidders, if Applicable

.....
.....
.....
.....

Check List of Bidder.

Sl. No.	Document/Certificate	References	
		Chapter	Clause
1	2	3	4
1	T – 6	I T B A	3.2, 3.3, 3.5
2	T – 4	- do -	3.4
3	T – 5	- do -	3.4
4	Following information shall be furnished by the contractor on Non- Judicial Stamp paper with Bid.		
a.	Construction or legal status Bidder, Place of registration Principal place of business, Power of attorney.	Section - 3	1.1
b.	Total annual volume of civil Engineering constructions work executed and payments received in the last five years preceding the year in which bids are invited. (Attach certificate from chartered Accountant)	Section – 3	1.2
c.	Work performed as prime contractor (in the same name and style) on construction works of a similar nature and volume over the last five year. Attach certificate from the Engineer-In-Charge.	Section - 3	1.3.1
d.	Existing commitments and on-going constructions works.	Section – 3	1.3.2. A
e.	Works for which bids already submitted.	Section – 3	1.3.2. B.
f.	Availability of major items of contractor’s Equipment proposed for carrying out the works. List all information requested below, Refer also to Clause 4.2 (d) and Clause 4.4 b (b) of the instructions to Bidders.	Section – 3 I T B	1.4, 4.4 (b) (i)
g.	Qualifications of technical personnel proposed for the contract. Refer also to clause 4.2 (e) of the instructions to bidders and clause 9.1 of part-1 General Conditions of Contract.	Section – 3 I T B	1.5, 4.4.3 (b) (ii)
h.	Financial reports for the last five years: balance sheets, profit and loss statement, auditor, reports, etc. List below and attach copies.	Section – 3 I T B	1.6., 1.7
i.	Evidence of access to financial resources to meet the qualification: cash in hand, lines of credit, etc. list below and attach copies of support documents. (Sample format attached)	Section – 3	1.8
j.	Name, address and Telephone, telex, and facsimile numbers of banks that may provide reference if contacted by the Employer.	Section – 3	1.9
k.	Information on current litigation in which the bidders is involved.	Section – 3	1.9 A
5	Undertaking from bidder for minimum investment.	I T B	4.2 (g)
6	Authority to seek reference from the Bidders’s bankers	I T B	4.2 (i)
7	Each bidders must produce the current income-tax clearance certificate. An affidavit that the information furnished with the bid documents is correct in all respects and, Such other certificates as defined in the Appendix to ITB. Failure to produce the certificates shall make the bid non-responsive.	I T B	4.4 B (a)
8	Bid Security	I T B	16
9	The minimum amount of liquid assets and/or credit facilities net other contractual commitments of the successful bidder shall be 10% of the contract value.	Appendix to I T B	4.4.B (b) (iii)

10	The bidder must produce an affidavit stating the names of retired gazetted officer (if any) in his employment who retired within the last two years with the following ranks from the departments listed below.	- do -	4.4 B (c) (ii)
11	Calculation of Bid capacity of Bidder.	Appendix to I T B	4.6
12	The proposed methodology and programmed of construction, backed will equipment and material planning and deployment, duly supported with broad calculations and quality management PI an proposed to be adopted, justifying their capability of execution and completion of the work as per technical specific actions and within the stipulated period of completion.	I T B	4.2.L
13	Any documents which are not mentioned in any list shall be as per standard Bid of Document.	-	-