

उत्तर प्रदेश UTTAR PRADESH

21/2018-19

ET 861401

08.03.2019.

AGREEMENT

Today on this date 8<sup>th</sup> March 2019, this agreement is executed between

Part 1: Chief Executive Officer, Agra Smart City Ltd. (ASCL) (here in after called as CEO of ASCL)

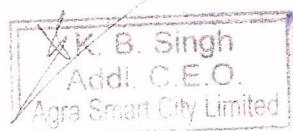
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And

Part 2: M/s. Aakanksha Enterprises, New Delhi (here in after called as contractor)

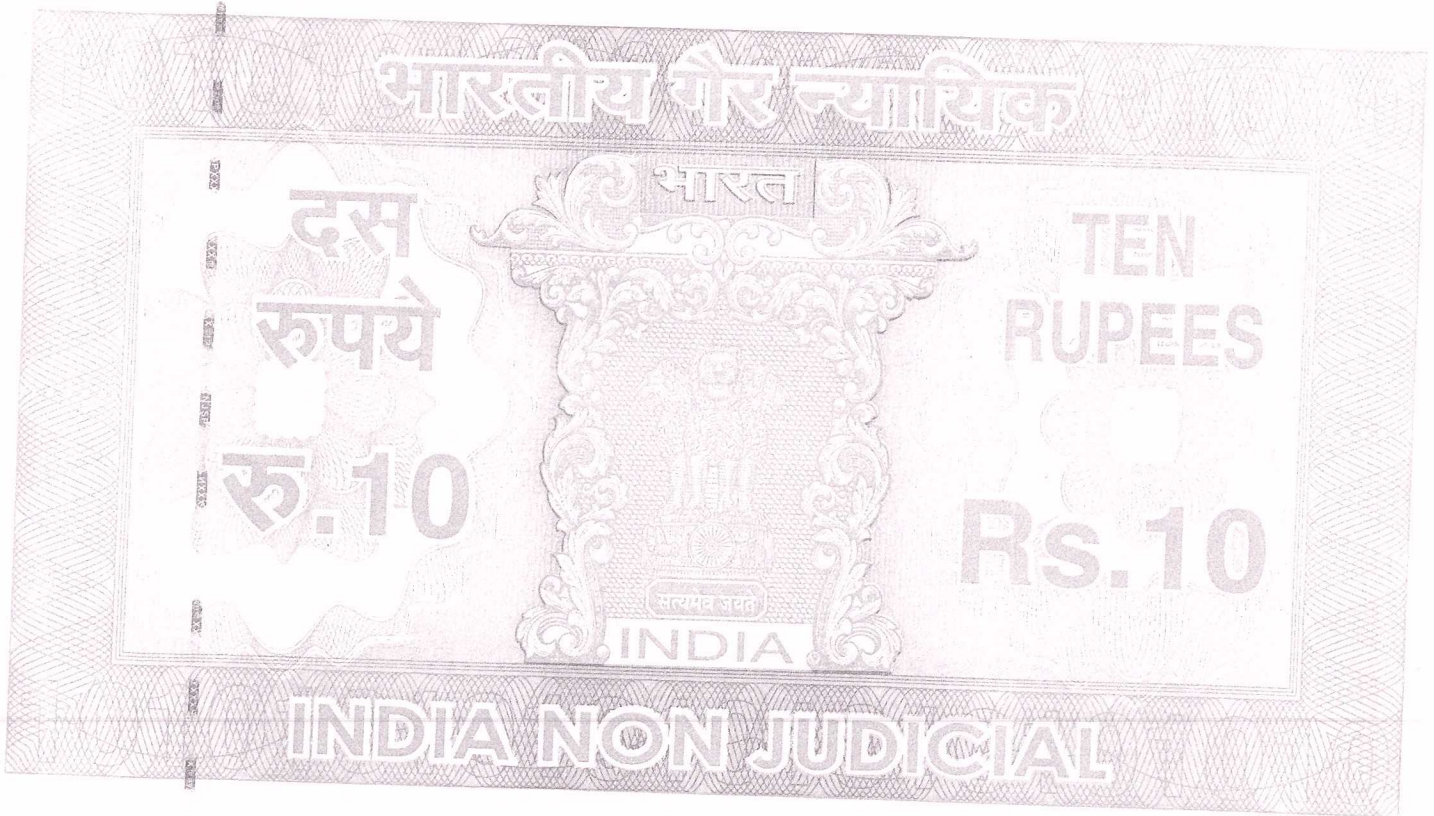
It is evident that the minimum quoted bid for the project, "Municipal Solid waste management system in tajganj area for Agra Under smart mission for ABD area" have been received from M/s. Aakanksha Enterprises, New Delhi, which is 0.08% below from estimated cost, amounting to Rs.3,39,62,919.59(Three crore Thirty nine lakhs Sixty two thousand Nine hundred Nineteen rupees and Fifty nine only) + 12% G.S.T Rs.40,75,550.00 (Fourty lakhs Seventy five thousand five hundred Fifty Rupees only)+ 1% labour cess Rs.3,39,629.20(Three lakhs thirty nine thousand six hundred twenty nine rupees twenty Paise only). Total amount of project including G.S.T. of Rs.3, 83, 79,000.00 (Three crores eighty three lakhs Seventy nine thousand rupees only) and that this has been approved by the Chairman, ASCL and intimated the contractor vide letter no. 866/ASCL/2018-19 dated 08.03.2019.

1. That the contractor, along with his representatives and successors have themselves bound through this agreement wherein, he has agreed and signed all the terms and conditions of Agra Smart City Ltd. , Engineering Department and that both parties have signed, is related to it and shall be treated a part of it.
2. All work shall be measured net by standard measure and according to the rules and customs of the Public Works Department and without reference to any local custom. Under no circumstances shall the contractor be entitled to claim enhanced rates for items in this contract.



Chief Executive Officer  
Agra Smart City Limited





उत्तर प्रदेश UTTAR PRADESH

**Undertaking**

71AD 581079

Letter of Oath / from undertaking M/s. Aakanksha Enterprises, New Delhi swearer, sworn to take following undertaking:

1. That the swearer had been awarded following work from Agra Smart City Limited:

Name of work: "Municipal Solid waste management system in tajganj area for Agra Under smart mission for ABD area"

2. That this agreement is being executed on Rs. 100 stamp paper in sequence of G.O. number वि०क०नि०-5-1712/ग्यारह-2006-500 (डक्यू-29)/2005, dated 2 May, 2006 and in reference to letter no. सं०-8538शा/41 स्टाम्प रजि. शुल्क/नि०से०/96-97 dated 30/11/2006 from Directorate, Local Bodies, 8<sup>th</sup> Floor, Indra Bhawan, Lucknow.
3. That till the final decision is not made in favour of State Government under the Special Leave Petition (SLP) filed by the State Government in Hon'ble Supreme Court, New Delhi in Stamp Case; above said contract is being signed on Rs. 100 stamp paper under Indian Stamp Act schedule 1(b), paragraph-57.
4. That I, swearer gives undertaking that in case the decision comes in favour of State Government under pending Special Leave Petition (SLP) in Hon'ble Supreme Court, New Delhi; then, I, Contractor / Swearer shall be liable for the payment of more than Rs. 100 stamp duty within two (02) months of the decision in above said S.L.P. in favour of Agra Smart City Limited, Agra.

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited

Chief Executive Officer  
Agra Smart City Limited

Contractor/Swearer





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विमान की विधि  
विमान का भार और बर्दी  
विमान की वनरति

8/31/21

Signature

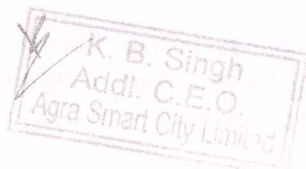
विमान की वनरति

विमान विज्ञान

खाना नं० 13 वनरति 31 मार्च 2019  
दीवानी परिसर, लाहौर



3. That the contractor has submitted FDR of Oriental bank of Commerce ,Branch-Connaught Place New Delhi of No: 1248675 dated on 23<sup>th</sup> October 2018 amounting to Rs. 17,35,000.00 as Security deposit to Agra Smart City Ltd. in order to regularize the work under this contract. The responsibility of validity of the same shall be that of the contractor.
4. That the detailed conditions of GCC (General Conditions of Contract) PWD Uttar Pradesh shall be a part of this agreement and any violation of any terms and conditions mentioned therein shall be treated as breach of this contract.
5. The start date will be 08.03.2019 and the date of completion shall be 08.06.2020.
6. Defect liability period and Operation & maintenance period will be calculated from date of completion.
7. Before signing the First and Final bill/Running Account bill/Final bill, the ASCL should see that:
  - a) The statutory deduction on account of Income tax wherever due has been made from the amount of the bill of Contractor. And
  - a) Deduction of Building and other Workers' Cess Act 1996 Cess Act is a there is a statutory provision for deduction of tax at source i.e. from contractor's bill.
  - b) Part or complete payment will be made only on satisfactory completion of work in full / part thereof and value of work executed shall be determined based on the measurements and check measurements by the Engineer in the Measurement Book.
  - c) For every Bill, 12% GST (extra) will be paid to the contractor based on the value of the work done for Construction by the ASCL. After the payments including 12% of GST, the Contractor should pay the GST amount to Government through his GST Registration No. and produce a copy to the ASCL.
    - i. First Bill Payment:  
At the time of payment for first running account bill, the contractor should produce the GST paid details on goods (Materials) to the ASCL for ITC (Input Tax Credit).
    - ii. Intermediate Bill Payment (Running Account Bill):  
At the time of payment of next running account bill, the contractor should produce the GST paid details of services up to previous bill payment (i.e. GST paid detail for the previous work bill) along with Input Tax Credit (ITC) availed at the time of payment of running account bill to the ASCL.
    - iii. Final Bill Payment:  
The contractor should produce the GST paid details for all the materials used for construction work and GST paid details of services for up to previous payment (i.e. GST paid detail for up to previous work bill) to the ASCL along with Input Tax Credit (ITC) availed at the time of payment of final bill to the ASCL.
    - iv. Submission of GST paid details of Final Bill  
The GST paid details for the final work bill payment of construction work has to be submitted by the contractor to ASCL within one month after getting payments.



  
Chief Executive Officer  
Agra Smart City Limited



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.

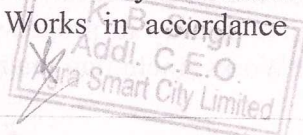
### 16. Contractor to Construct the Works

4 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:

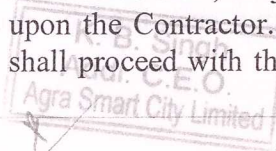
- a. The Engineer
- b. The Employer
- c. The Ministry of Rural Development, Government of India.
- d. National Rural Roads Development Agency, New Delhi

## **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**

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited



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 totaling more than 30 days will require prior written approval of the Employer.

#### **29. Management Meetings**

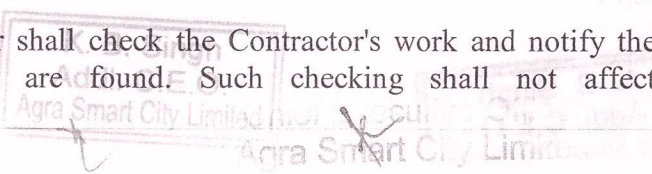
The Engineer may require the Contractor to attend a management meeting. The business of a management meeting shall be to review the plans for the Works.

29.1 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

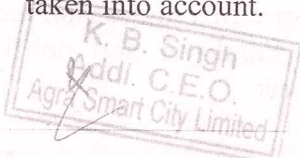
### 34. Bill of Quantities

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.



Appd. C.E.O.  
Agra Smart City

Agra Smart City Limits



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.

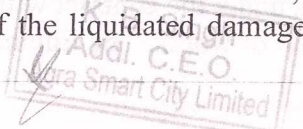
The additional performance security for unbalanced bids as detailed in Clause 51 of Conditions of Contract is repaid to the contractor when the construction work is complete.

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 anything 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 un-recovered 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. Labour**

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, 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 labour 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



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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

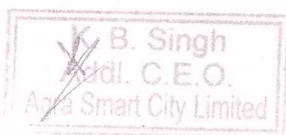
The Contractor shall duly comply with the provisions of the Apprentices Act 1961 (III of 1961), the rules made there under and the orders that may be issued from time to time under the said Act and the said Rules and on his failure or neglect to do so he shall be subject to all liabilities and penalties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





## Section- 4.

### Conditions of Contract

#### Part – II Special Conditions of Contract

1. All the works shall be carried out as per MORTH specifications/PWD detailed specification and instruction of Engineer-in-charge of ASCL.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. The contractor will adopt CNOON/PERT to complete the project in time. A detailed program and weekly working program will have to be submitted by contractor regularly.
8. 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.
9. 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.

#### **10. 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.

V. B. Singh  
Addl. C.E.O.

Chief Executive Officer  
Irra Smart City



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 for O&M as per the BOQ shall be released to the contractor based on appearance of defect year to year till entire of Operation and maintenance. and assessment made by Engineer in Charge of ASCL.

#### 11. 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 Contractors 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 Contractor
- b. High standards of quality assurance system in the Consultancy as well as the works and activities of the Contractor
- c. Comprehensive and documented reporting to the ASCL of Consultant's own activities, progress of the Project(s) and compliances/ non-compliances by the Contractor
- d. Proper verification of measurements and bills submitted by the contractor 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);
- e. proper interface and coordination among the ASCL, contractor other contractors and local bodies/ state government; and
- f. Full documentation of the completed works including applications for various approvals.

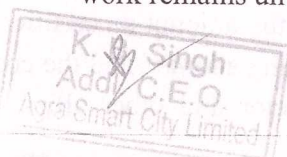
The objectives of the PMC is not limited to the above, CEO of ASCL have discretion implement other objectives or the completion of the project.

#### 12. Security Deposit

In the event of the contractor failing or neglecting to complete rectification work within the period up to which the contractor has agreed to maintain the work in good order, then, subject to provisions of clause 28 and 31 hereof the amount of security deposit retained by ASCL shall be forfeited without any notice.

#### 13. Compensation for delay

The time allowed to carry out the work as entered in the **Contract** shall be strictly observed by the contractor and shall be reckoned from the date on which the order to commence work is given to the Contractor. The work shall through the stipulated period of the contract be proceeded with, all due diligence (time being deemed to be of the essence of the contract on the part of the Contractor) and the Contractor shall pay as compensation and amount equal to one percent or such smaller amount as the Chief Executive Officer ASCL (whose decision in writing shall be final) may decide of the amount of estimated cost of the whole work as shown by the tenderer of everyday the work remains un commenced or unfinished after the proper dates.





And further to ensure good progress during execution of the work, the contractor shall be bound, in all cases in which the time allowed for any work exceeds one month to complete.

$\frac{1}{4}$  of the working 1/3 of the time

$\frac{1}{4}$  of the working  $\frac{1}{2}$  of the time

$\frac{1}{4}$   $\frac{3}{4}$  of the working

$\frac{1}{4}$   $\frac{3}{4}$  of the time

**and full work should be completed in 15 Calendar months.**

In the event of the Contractor failing to comply with these conditions he shall be liable to pay as compensation, an amount an equal to one percent or such smaller amounts as the Chief Executive Officer ASCL(whose decision in shall be final) may decide of the said estimated cost of the whole work for everyday that the due quantity of work remains incomplete provided always that the total amount of compensation to be paid under the provisions of this clause shall not exceed 10 percent of the estimated cost of the work as shown in the tender. Chief Executive Officer, ASCL, should be the final authority in the respect.

**14. Additional Action when whole of security Deposit is forfeited**

In any case in which under any clause of this contract the Contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit whether paid in one sum or deducted by the instalments or in the case of abandonment of the work owing to serious illness or death of the Contractor or any other cause the Project Engineer, on behalf of the Corporation, shall have the power to adopt any of the following courses, as he may deem best suited to the interest of the Corporation.

- (a) To rescind the contract (for which rescission notice in writing to the Contractor under the hand of Project Engineer shall be conclusive evidence) and in that case the security deposit of the Contractor shall stand forfeited and be absolutely at the disposal of the Corporation.
- (b) To carry out the work or any part of the work departmentally debiting the Contractor with the cost of the work, expenditure incurred on the tools and plant, and charges on additional supervisory staff including the cost of the work-charged establishment employed for getting the un-executed part of the work completed and crediting him with the value of the work done departmentally in all respect in the same manner and at the same rates as if it had been carried out by the Contractor under terms of his contract. The certificate of the Project Engineer as to the costs and other allied expense so incurred and as to the value of the work so done departmentally shall be final and conclusive against the Contractor
- (c) i) To order that the work of the Contractor be measured up and to take such part thereof as shall be un-executed out of his hands, and to give it to another Contractor to complete, in which case all expenses incurred on advertisement for fixing a new contracting agency ,additional supervisory staff including the cost of the work charged establishment and the cost of the work executed by the new Contractor agency will be debited to the Contractor and the value of the work done or executed through the new Contractor in all respects and in the same manner and at the same rates as if it had been carried out by the Contractor under the terms of his contract. The certificate of the Project Engineer as to the costs and other allied expense so incurred and as to the value of the work so done departmentally shall be final and conclusive against the contractor.  
ii) In case the contract shall be rescinded under clause (a) above the Contractor shall not be entitled to recover or be paid, any sum for any work thereof actually performed by him under this contract unless and until the Project Engineer shall have certified in writing the performance of the such work and the amount payable to him in respect thereof and he shall only be entitled to be paid the amount so certified. In the event of either of courses referred to clause (b) or (c) being adopted and the cost of the work executed departmentally or through new contractor and other allied expense



K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited

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exceeding the value of such work credited to the Contractor the amount of excess shall be deducted from any money due to the Contractor, by Corporation under the contractor or otherwise howsoever or from his security deposit or the sale proceeds thereof provided; however that Contractor shall have no claim against Corporation even if the certified value of the work done departmentally or through a new Contractor exceeds the certified cost of such work and allied expenses, provided always that whichever of the three courses mentioned in clause (a), (b) or (c) is adopted by the Chief Executive Officer ASCL, the Contractor shall have no claim to compensation for any loss sustained by him by reason of his having purchased or procured any materials, or entered into any engagements, or made any advance on account of or with a view to the execution of the work or the performance of the contract.

**15. Action when the progress of any particular portion of the work is unsatisfactory**

If the progress of any particular portion of the work is unsatisfactory, the Chief Executive Officer ASCL shall notwithstanding that the general progress of the work is in accordance with the conditions mentioned in clause 2 be entitled to take action under clause 3 (b) after giving the Contractor 10 days' notice in writing. The contractor will have no claim for compensation, for any loss sustained by him owing to such action.

**16. Contractor remains liable to pay compensation if action not taken under clause 14 and 15**

In any case in which any of the powers conferred upon the Project Engineer by clause 3 and 4 shall have become exercisable and the same shall not have been exercised the non-exercise thereof shall not constitute a waiving of any of the condition here of the such power shall notwithstanding be exercisable in the event of any future case of default by the Contractor for which under any clause hereof he is declared liable to pay compensation amounting to the whole of his security deposit and the liability of the Contractor for past and future compensation shall remain unaffected,. In the event of the Project Engineer taking action under sub-clause (a) or (c) of clause 3, he may, if he so desires, take possession of all or any tools and plant, materials and stores in or upon the work of the site thereof belonging to the Contractor, or procured by him and intended to be used for the execution of the work or any part thereof, paying or allowing for the same in account at the contract rates, or in the case of contract rates not being applicable at current market rates to be certified by the Project Engineer whose certificate thereof shall be final. In the alternative, the Project Engineer may, after giving notice in writing to the Contractor or his clerk of any work, foreman or other authorized agent required him to remove such tools and plant, materials, or stores from the premises within a time to be specified in such notice, and in the event of the Contractor failing to comply with any such requisition, the Project Engineer may remove them at the Contractor's expenses or sell them by auction or private sale on account of the Contractor and at his risk in all respects, and the certificate of Project Engineer as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the Contractor

**17. Extension of time limit**

If the Contractor shall desire an extension of the time for completion of work on the ground of his having been unavoidably hindered in its execution or on any other ground he shall apply in writing to the Project Engineer before the expiration of the period stipulated in the tender or before the expiration of 30 days from the date on which he was hindered as aforesaid or on which the clause for asking for extension occurred, whichever is earlier and the Project Engineer, or in the opinion of Project Engineer as the case may be if in his opinion, there were reasonable ground for



Asst. C.E.O.  
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granting an extension, grant such extension as he thinks necessary or proper, the decision of the Chief Executive Officer ASCL in this matter shall be final.

**18. Final Certificate**

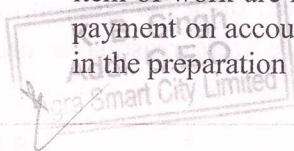
On the completion of the work the Contractor shall be furnished with a certificate by the Project Engineer (hereinafter called the Engineer-in- Charge) of such completion; but no such certificate shall be given nor shall the work be considered to be complete until the Contractor shall have removed from the premises on which the work shall have been executed, all scaffolding, surplus materials and rubbish, and shall have cleaned off, the dirt from all wood work, doors, windows, wall, floor or other parts of any building in or upon which the work has been executed, or of which he may have had possession for the purpose of executing the work, nor until the work shall have been measured by the Engineer-in -Charge or where the measurements have been taken by his subordinates until they have received approval of the Engineer-in-Change, the said measurements being binding and conclusive against Contractor. If the contractor shall fail to comply with the requirements of this clause as to the removal of scaffolding surplus materials and rubbish and cleaning of dirt on or before the date fixed for the completion of the work the Engineer-in- Charge may at the expense of the Contractor, removal such scaffolding, surplus material and rubbish, and dispose of the same as he thinks fit and clean off as such dirt as aforesaid and the Contractor shall from with pay the amount of the all expenses so incurred, but shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof

**19. Payment on intermediate certificate to be regarded as advances**

No payment shall be made for any work, estimated to cost less than rupees one thousand till after the whole of work shall have been completed and a certificate of completion given. But in the case of works estimated to cost more than rupees one thousand the Contractor shall on submitting a monthly bill therefore be entitled to receive payment proportionate to the part of the work than approved and passed by the Engineer-in - Change, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the Contractor. All such intermediate payments shall be regarded as payment by way of advance against the final payment only and not as payment for work actually done and completed and shall not preclude the Engineer-in-Charge from requiring any bad, unsound imperfect or unskillful work to be removed or taken away and reconstructed, or re-erected nor shall any such payment be considered as an admission of the due performance of the contract or any part thereof in any respect or the occurring of any claim nor shall it conclude, determine or effect in any other way powers of the Engineer-in-Charge as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or effect the contract. The final bill shall be submitted by the Contractor within one month of the date fixed for the completion of the work, otherwise the Engineer-in-Charge's certificate of the measurements and of the total amount payable for the work shall be final and binding on all parties

**20. Payment on reduced rates on account of items of work not accepted as completion discretion of Engineer-in- Charge**

The rates of several items of work estimated to cost more than Rs. 1000/- agreed to within, shall be valid only when the item concerned is accepted as having been completed fully in accordance with the sanctioned specifications. In case where the item of work are not accepted as so completed by the Engineer-in Charge may make payment on account of such item at such reduced rates as he may consider reasonable in the preparation of final or on account bills.





**21. Bill to be submitted**

A bill shall be submitted by the Contractor in each month on or before the date fixed by the Engineer-in-Charge for all work executed in the previous month and the Engineer-in-Charge shall take or cause to be taken the requisite measurement for the purpose of having the same verified and the claim, so far as it is admissible, shall be adjusted, if possible, within 10 days from the presentation of the bill. If the contractor does not submit the bill within the time fixed as aforesaid, the Engineer-in-Charge may depute a subordinate to measure up the said work in the presence of the contractor or his duly authorized agent whose counter signature to the measurement list shall be sufficient warrant, and the Engineer-in-Charge may prepare a bill from such a list which shall be binding on the contractor in all respects.

**22. Bill to be on printed forms**

The contractor shall submit all bills on the printed forms to be had in the application at the office of the Engineer-in-Charge. The charges to be made in the bill shall always be entered at the rates specified in the tender or in the case of any extra work ordered in pursuance of these conditions, and not mentioned or provided for in the tender at the rates hereinafter provided for such work.

**23. Stores supplied by ASCL**

If the specification or estimate of the work provides for the use of any special description of materials to be supplied from the store of the Engineering departmental store or if it is required that the contractor shall use certain stores to be provided by the Engineer in charge or General manager (such materials and stores and the prices to be charged therefore as hereinafter mentioned being so far as practicable for the convenience of the contractor but not so far as in any way to control the meaning or effect to this contract specified in the schedule or memorandum hereto annexed) the contractor shall be supplied with such materials and stored as may be required from time to time to be used only by him for the purpose of the contract only, and the value of the full quantity of the materials and stores so supplied shall be set off or deducted from any sums then due, or thereafter to become due to contractor under the contract, or otherwise, or from the security deposit or the proceeds of the sale thereof if the security deposit is held in pledged securities, the same or a sufficient portion thereof shall in that case be sold for the purpose. All materials supplied to the contractor shall remain the absolute property of Corporation and shall on no account be removed from the site of the work, and shall at all times be open for inspection by the engineer in charge. Any such materials unused and in perfectly good conditions at the time of completion or determination of the contract shall be returned by the engineering departmental store if the engineer in charge so requires by a notice in writing given under his hand but the contractor shall not be entitled to return any such materials except with consent of the Engineer in charge and shall have no claim for compensation on account of any such material supplied to him as aforesaid but remaining unused by him or any wastage in or damage to any such materials

All stores of controlled materials such as cement, steel etc., supplied to the contractor by the ASCL should be kept by the contractor under lock and key and will be accessible for inspection by the Project Engineer or his agents all the time

**24. Work to be executed in accordance to specifications, drawings, orders etc.**

The contractor shall execute whole and every part of the work in the most substantial and workman like manner, and both as regards materials and every other respect in strict accordance with specifications. The contractor shall also conform exactly, fully, and faithfully to the designs, drawings and instructions in writing relating to the work signed by the Engineer-in-Charge and lodged in his office and to which the contractor shall be entitled to have access for the purpose of inspection at such office, or at the site of the work during office hours. The contractor will be entitled to receive three sets of contract drawings and working drawing as well as one certified copy of the accepted tender along with work order free of cost. Further copies of the



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contract drawings and working drawings if required by him, shall be supplied at the rate of Rs.200/- per set of contract drawings and Rs.100/- per working drawing except where otherwise specified

**25. Alterations in specifications and designs not invalidate**

The Engineer-in-Charge shall have the power to make any alterations in or additions to original specifications, drawings, designs, and the instructions that may appear to him to be necessary or advisable during the progress of the work, and the contractor shall be bound to carry out the work in accordance with any instructions in this connection which may be given to him in the writing signed by the Engineer-in-Charge and such alterations shall not invalidate the contract, and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work, and if the additional and altered work includes any class of work for which no rate is specified in the contract, then such work or class shall be carried out at the rates entered in the Schedule of rates of the Government or the Corporation or at the rates mutually agreed upon between the Engineer-in-Charge or altered work for which no rate is entered in the rates agreed upon then the contractor shall within seven days of the date of receipt by him the order to carry out the work, inform the Engineer-in-Charge of the rate which it is his intention to charge for such class of work, and if the Engineer-in-Charge does not agree to this rate he shall by notice in writing be at liberty to cancel his order to carry out such class of work and arrange to carry out in such manner as he may consider advisable provided always that if the contractor shall commence work or incurred any expenditure in regard thereto before the rates shall have been determined as lastly herein before mentioned, then in such case he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-Charge in the event of a dispute, the decision of the Chief Engineer will be final.

Where, however, the work is to be executed according to the designs, drawings and specifications recommended by the contractor and accepted by the competent authority the alterations above referred to shall be within the scope of such designs, drawings and specifications appended to the tender.

The time limit for the completion of the work shall be extended in the proportion that the increase in its cost occasioned by alterations, or additions bears to the cost of the original contract work, and the certificate of the Engineer-in-Charge as to such proportion shall be conclusive

**26. Extension of time in consequence of additions or alterations**

- 1) If at any time after the execution of the contract documents the Engineer shall for any reason whatsoever (other than default on the part of the contractor for which the Corporation is entitled to rescind the contract) desires that the whole or the part of the work specified in the tender should be suspended for any period or that the whole or part of the work should not be carried out, at all he shall give to the contractor a notice in writing of such desire and upon the receipt of such notice the contractor shall forthwith suspend or stop the work wholly or in part as required, after having due regard to the appropriate stage at which the work should be stopped or suspended so as not to cause any damage or injury to the work already done or endanger the safety thereof provided that the design of the Engineer as to the stage at which the work or any part of it could be or could have been safely stopped or suspended shall be final and conclusive against the contractor. The contractor shall have no claim to any payment or compensation whatsoever by reason of or suspension, stoppage or curtailment except to the extent specified therein after.

**No claim to any payment or compensation for alteration in or restriction of work**

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- 2) Where the total suspension of work ordered as aforesaid continued for a continuous period exceeding 90 days the contractor shall be at liberty to withdraw from the contractual obligations under the contract so far as it pertains to the unexecuted part of the work by giving a 10 days prior notice in writing to the Engineer, within 30 days of the expiry of the said period of 90 days, of such intention and requiring the Engineer to record the final measurements of the work already done to pay the final bill. Upon giving such notice the contractor shall be deemed to have been discharged from his obligation to complete the remaining un-executed work under his contract. On receipt of such notice the Engineer shall proceed to complete the measurement and make such payment as may be finally due to the contractor within the period of 90 days from the receipt of such notice in respect of the work already done by the contractor. Such payment shall not in any manner prejudice the right of the contractor to any further compensation under the remaining provisions of this clause.

No claim to compensation on account of loss due to delay in supply of material by ASCL

- 3) Where the Engineer required the contractor to suspend the work for a period in excess of 30 days at any time or 60 days in the aggregate, the contractor shall be entitled to apply to the Engineer within 30 days of the resumption of the work after such suspension for payment of compensation to the extent of pecuniary loss suffered by him in respect of working machinery remained idle on the site or on the account of his having and to pay the salary or wages of labor engaged by him during the said period of suspension provided always that the contract shall be not entitled to any claim in respect of any working machinery, salary or wages for the first 30 days whether consecutive or in the aggregate or such suspension in respect of any suspension whatsoever occasioned by unsatisfactory work or any other default on his part. The decision of the Engineer in this regard shall be final and conclusive against the contractor.

(4) In the event of-

- (i) Any total stoppage of work on notice from the Engineer under Sub clause (1) in that behalf.
- (ii) Withdrawal from the contractor from the contractual obligation completes the remaining un-expected work under the sub-clause (2) on account of continued suspension of work for a period exceeding 90 days

No claim to compensation on account of loss due to delay in supply of material by Corporation Curtailment in the quantity of item or items originally tendered on account of any alteration, omission or substitution in the specification, drawings, designs, or instructions under clause 15(1) where such curtailment exceeds 25 % in quantity and the value of quantity curtailed beyond 25 % at the rates for the items specified in the tender is more than Rs.50000/-. It shall be open to the contractor, within 90 days from the service of (i) the notice of stoppage of work or (ii) the notice of withdrawal from the contractual obligations under the contract on account of continued suspension of work or (iii) notice under clause 15(1) resulting in such curtailment, to produce to the Engineer satisfactory documentary evidence that he had purchased or agreed to purchase material for use in the contracted work, before receipt by him of the notice of stoppage, suspension or curtailment and require the Corporation to take over on payment such material at the rates determined by the Engineer, provided, however such rates shall in no case exceed the rates at which the same was required by the contractor. The contractor shall thereafter take over the materials so offered, provided the quantities offered, are not in excess of the requirements of the unexecuted work as specified in the accepted tender and are of quality and specifications approved by the Engineer



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Addl. C.E.O.  
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The contractor shall not be entitled to claim any compensation from the Corporation for the loss suffered by him on account of delay by Corporation in the supply of materials entered in Schedule „A“ where such delay is caused by-

- (i) Difficulties related to the supply of railway wagons,
- (ii) Force Majeure,
- (iii) Act of God,
- (iv) Act of enemies of the State or any other reasonable cause beyond the control of Corporation.

In the case of such delay in the supply of materials, Corporation shall grant such extension of time for the completion of the works as shall appear to the Project Engineer to be reasonable in accordance with the circumstances of the case. The contractor shall accept the decision of the Project Engineer as to the extension of time as final

**27. Time limit for unforeseen claims**

Under no circumstances whatever shall the contractor be entitled to any compensation from the Corporation on any account unless the contractor shall have submitted a claim in writing to the Engineer- in- Charge within one month of the case of such claim occurring

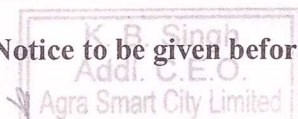
**28. Action and compensation payable in case of bad work**

If any time before the security deposit or any part thereof is refunded to the contractor, it shall appear to the Engineer-in- Charge or his subordinate in charge of work, that any work has been executed with unsound, imperfect or unskillful workmanship or with the materials of inferior quality, or that any materials or articles provided by him for the execution of the work are unsound, or of a quality inferior to that contracted for or are otherwise not in accordance with the contract it shall be lawful for the Engineer-in-Charge to intimate this fact in writing to the contractor and then notwithstanding the fact that the work, materials or articles complained of any have been inadvertently passed, certified and paid for the contractor shall be bound forthwith, to rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require, or if so required, shall remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost, and in the event of his failing to do so, within a period to be specified by the Engineer- in- Charge in the written intimation aforesaid, the contractor shall be liable to pay compensation at the rate of 1 % on the amount of the estimate for every day not exceeding 10 days during which the failure so continues and in the case of any such failure the Engineer- in-Charge may rectify and remove, and re-execute the work or remove and replace the material or articles complained of as the case may be at the risk and expense in all respects of the contractor. Should the Engineer- in- Charge consider that no such inferior work or materials as described above maybe accepted or made use of it shall be within his discretion to accept the same at such reduced rates as he may fix therefore

**29. Work to be open for Contractor or responsible agent to be present**

All work under or in course of execution or executed in pursuance of the contract shall at all times be open to the inspection and supervision of the Engineer- in-Charge and his subordinates, and the contractor shall at all times during the usual working hours, and at all other times at which his subordinates to visit the work shall have been given to the contractor, either himself be present to receive orders and instructions or have responsible agent duly authorized in writing present for that purpose. Orders given to the contractors duly authorized agent shall be considered to have the same force and affect as if they had been given to the contractor himself.

**30. Notice to be given before work is covered up**





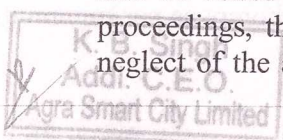
The Contractor shall give not less than 5 days' notice in writing to the Engineer-in-Charge or his subordinate in charge of the work before measurement any work in order that the same may be measured and correct dimensions thereof taken before the same is so covered up or place beyond the reach of measurement and shall not cover up or place beyond the reach of measurement any work without the consent in writing of Engineer-in-Charge or his subordinate in charge of the work and if any work shall be covered up or placed beyond the reach of measurement, without such notice having been given or consent obtained the same shall be uncovered at the contractors expense and in default thereof no payment or allowance shall be made for such work or for the materials with which the same was executed

**31. Contractor liable for damage done**

If during the period of 12 months from the date of completion as certified by the Engineer-in-Charge pursuant to Clause 7 of the contract for 12 months after commissioning the work, whichever is earlier in the opinion of the Project Engineer, said work is defective in any manner whatsoever, the contractor shall forthwith on receipt of notice in that behalf from the Project Engineer, duly commence execution and completely carry out at his cost in every respect or the work that may be necessary for rectifying and setting right the defects specified therein including dismantling and reconstruction of unsafe portion strictly in accordance with and in the manner prescribed and under the supervision of the Project Engineer. In the event of the contractor failing or neglecting to commence execution of the said rectification work within the period prescribed thereof in the said notice and/or to complete the same as aforesaid as required by the said notice, the Project Engineer shall get the same executed and carried out departmentally or by any other agency at the risk on account and at the cost of the contractor. The contractor shall forthwith on demand pay to the ASCL the amount of such cost, charges and expenses sustained or incurred by the ASCL of which the certificate of the Project Engineer shall be final and binding on the contractor. Such cost, charges and expenses shall be deemed to be arrears of land revenue and in the event of the contractor failing or neglecting to pay the same on demand as aforesaid without prejudice to any other rights and aforesaid remedies of the corporation the same maybe recovered from the contractor as arrears of land revenue. The ASCL shall also be entitled to deduct the same from any amount, which may then be payable or which may thereafter become payable by the ASCL to the contractor either in respect of the said work or any other work whatsoever or from the amount of security deposit retained by Corporation

**32. Contractor to supply, Plant, Ladder etc.**

The contractor shall supply at his own cost all materials (except such special material, if any as many in accordance with the contract, be supplied from the Engineering Departmental Stores), plant tools appliances implements, ladders, cordage, tackle scaffolding and temporary works requisite or proper for the proper execution of the work, whether, in the original, altered or substituted from and whether including in the specification or other documents forming part of the contract or referred to in these conditions or not and which may be necessary for the purpose of satisfying or complying with the requirement of the Engineer-in -Charge as to any matter as to which these conditions, he is entitled to be satisfied, or which he is entitled to require together with the carriage therefore to and from the work. The contractor shall also supply without charge the requisite number of persons with the means and materials necessary for the purpose of setting out works and counting, weighing and assisting in the measurement or examination at any time and from time to time of the work or the material, failing which the same may be provided by the Engineer-in-Charge at the expenses of the contractor and the expenses may be deducted from any money due to the contractor under the contract or from his security deposit or the proceeds of sale thereof, or of a sufficient portion thereof. The contractor shall provide all necessary fencing and lights required to protect the public from accidents, and shall also be bound to bare the expenses of defense of every suit, action or other legal proceedings, that may be brought by any person for injuries sustained obeying to neglect of the above precautions, and to pay any damages and costs which may be





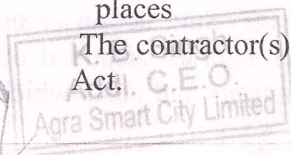
avoided in any such suit actions or proceedings to any such person, or which may with consent of the contractor to be paid for compromising any claim by any such person.

**33. List of machinery in contractor's possession and which they propose to use on the work should be submitted along with the tender**

The contractor shall provide suitable scaffolds and working platforms gangways and stairways and shall comply with the following regulations in connection therewith

- a) Suitable scaffolds shall be provided for workmen for all works that cannot be safely done from a ladder or by other means
- b) A scaffold shall not be constructed, taken down or substantially altered except-
  - i) Under the supervision of a competent and responsible person: and
  - ii) As far as possible by competent workers possessing adequate experience in this kind of work
- c) All scaffolds and appliances connected therewith and ladders shall
  - i) Be sound of material,
  - ii) Be of adequate strength having regards to the loads and strains to which they will be subjects, and
  - iii) Be maintained in proper condition
- d) Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use
- e) Scaffolds shall not be overloaded and so far as practicable the load shall be evenly distributed
- f) Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the Scaffolds
- g) Scaffolds shall be periodically inspected by a competent person
- h) Before allowing a scaffold to be used by his workmen the contractor shall, whether the scaffold has been erected by his workmen or not, take steps to ensure that it complies fully with the regulation herein in specified.
  - i) Working platform, gangways, stairways shall
  - ii) Be so constructed that no part of thereof can sag unduly or unequally.
  - iii) Be so constructed and maintained having regard to the prevailing conditions as to reduce as far as practicable risks of persons tripping or slipping, and
- i) Be kept free from any unnecessary obstruction
- j) In case of working platform, gangway, working places and stairways at a height exceeding three Members. Every working platform and every gangway shall be closely boarded unless other adequate measures are taken to ensure safety.
  - i) Every working platform and gangway shall have adequate width and
  - ii) Every working platform, gangway, working place and Stairway shall be suitable fenced.
- k) Every opening in the floor of a building or in a working platform shall accept for the time and to the extent required to allow the excess of persons for the transport for shifting of materials to be provided with suitable means to prevent the fall of persons or materials
- l) When persons are employed on roof where there is a danger of falling from a height exceeding 3 meters. Suitable precautions shall be taken to prevent the fall of persons or material
- m) Suitable precautions shall be taken to prevent persons being struck by articles, which might fall from scaffolds or other working places
- n) Safe means of access shall be provided to all working platforms and other working places

The contractor(s) will have to make payments to the laborers as per minimum wages Act.





The contractor shall comply with the following regulations as regards the hoisting appliances to be used by him.

- (a) Hoisting machine and tackle, including the attachments anchorages and supports shall,
  - (i) Be of good mechanical construction, sound material and adequate strength and free from patent defect and
  - (ii) Be kept in good repair and in working order.
- (b) Every rope used in hoisting or lowering materials or as a mean of suspension shall be of suitable quality and adequate strength and free from patent defect.
- (c) Hoisting machines and tackle shall be examined and adequately tested after erection on the site and before used and be re examined in position at intervals to be prescribed by the Corporation.
- (d) Every chain, ring, hook, shackle swivel and pulley block used in hoisting and lowering materials or as a mean of suspension shall be periodically examined.
- (e) Every crane driver or hoisting appliance operator shall be properly qualified.
- (f) No person who is below the age of 18 years shall be control of any hoisting machine, including any scaffold which, or give signals to the operator.
- (g) In case of every hoisting machine and of every chain, ring, hook, shackle, swivel pulley block used in hoisting or lowering or as a mean of suspension, the safe working load shall be as ascertained by adequate means.
- (h) Every hoisting machine and all gear referred to in preceding regulation shall be plainly marked with the safe working load.
- (i) In the case of a hoisting machine having a variable safe working load each safe working load and the condition under which it is applicable shall be clearly indicated.
- (j) No part of any hoisting machine or of any geared referred to in regulation (g) above shall be loaded beyond the safe working load except for the purpose of testing.
- (k) Motors, gearing transmissions, electric wiring and other dangerous part of hoisting appliances shall be provided with efficient safeguards.
- (l) Hoisting appliances shall be provided with such means as will reduce to minimum, and the risk of the accidental descent of a load  
Adequate precautions shall be taken to reduce to a minimum the risk of any part of a suspended load becoming accidentally displaced

#### 34. Measure for prevention of fire

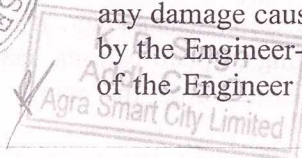
The contractor shall not set fire to any standing jungle, trees, bush woods or grass without a written permit from the Project Engineer.

When such permit is given, and also in all cases when destroying cut or dug up trees bush wood, grass etc. by fire; the contractor shall take necessary measure to prevent such fire spreading to or otherwise damaging surrounding property.

The contractor shall make his own arrangements for drinking water for the labors employed by him.

#### Liability of contractor for any damage done in or outside work

Compensation for all damages done intentionally or unintentionally by the contractor's labor whether in or beyond the limits of Corporation property including any damage caused by the spreading of fire mentioned in Clause 22 shall be estimated by the Engineer-in-Charge or such other officer as he may appoint and the estimate of the Engineer in charge subject to the decision of the Chief Executive Officer on





appeal shall be final and the contractor shall be bound to pay the amount of the assessed compensation on demand, failing which, the same will be recovered from the contractor as damages in the manner prescribed in Clause 1 or deducted by the Engineer- in -Charge from any sums that may be due or become due from Corporation to the contractor under this contract or otherwise. The contractor shall bear the expenses of defending any section or other legal proceedings that may be brought by any persons for injury sustained by him owing to neglect of precautions to prevent the spread of fire and he shall pay any damages and cause that may be awarded by the court in consequences

**36. Employment of female labor**

The employment of female labors on works in neighborhood of soldier's barracks should be avoided as far as possible. The contractor shall employ the labor with the nearest employment exchange

**37. Work of Sunday**

No work shall be done on a Sunday without the sanction in written of the Engineer - in-Charge

**38. Work not to sublet**

The contract shall not be assigned or sublet without the written approval of the Engineer- in- Charge and if the contractor shall assign or sublet his contract, or attempt to do so, or become insolvent or commence any proceeding to get himself adjudicated and insolvent or make any composition with his creditors, or attempt to do so or if bribe, gratuity, gift, loan, perquisites, reward or advantage pecuniary or otherwise, shall either directly or indirectly be given, promise or offered by the contractor or any of his servants or agents to any public officer or person in the employ of corporation in any way relating to his office or employment, or if in any such officer or person shall become in anyway directly or indirectly interested in the contract the Engineer-in - Charge may there upon by notice in written rescind the contract and the security deposit of the contractor shall thereupon stand forfeited and be absolutely at the disposal of Corporation and the same consequences shall ensure as if the contract had been rescinded under Clause 3 hereof and in addition the contractor shall not be entitled to recover or be paid for any work therefore actually performed under the contract

**39. Sum payable by way of compensation to be considered reasonable compensation without reference to actual loss**

All sums payable by contractor by way of compensation under any of these conditions shall be considered as a reasonable compensation to be applied to the use of Corporation without reference to the actual loss or damage sustained, and whether any damage has or has not been sustained

**40. Changes in constitution of firm to**

In case of tender by partners, any changes in the constitution of a firm shall be forthwith notified by the contractor to the Engineer- in- Charge for his information

**41. Direction and control of Chief Executive Officer ASCL**

All works to be executed under the contract shall be executed under the direction and subject to the approval in all respects of the Project Engineer for the time being, who shall be entitled to direct at what points and in what manner they are to be commenced and from time to time carried on

(1) Except where otherwise specified in the contract and subject to the powers delegated to him by Corporation the decision of the Project Engineer for the time being shall be final, conclusive, and binding all parties to the contract upon all questions relating to the meaning of all specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work, or as to any other question, claim, right matter, or thing whatsoever, if any way arising out of, or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions, or otherwise concerning the works or the



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execution, or failure to execute the same, whether arising during the progress of the work, or after the completion or abandonment thereof.

- (2) The contractor may within thirty days of receipt by him of any order passed by the Project Engineer as aforesaid appeal against it to the ASCL concerned with the contract,

work or Project provided that-

The accepted value of that contract exceeds Rs. 10.00 lakhs (Rs. Ten lakhs Amount of claim is not less than Rs. 1.00 lakh (Rs. One lakh)

If the contractor is not satisfied with the order passed by the Chief Executive Officer, ASCL as aforesaid, the contractor may within thirty days of receipt by him of any such order Appeal against it to the Commissioner, and the Decision given by the Commissioner will be final.

**42. Lump sums in estimates**

When the estimate on which a tender is made includes lump sums in respect of parts of the work the contractor shall be entitled to payment in respect of the items of work involved or the part of work in question at the same rates as are payable under this contract of each item, or if the part of work in question is not in the option of the engineer in charge capable of measurement, the Engineer- in-Charge may as his discretion pay the lump sum amount entered in the estimate and the certificate in writing of the Engineer- in-Charge shall be final and conclusive against the contractor with regard to any sum or sums payable to him under the provision of this clause

**43. Actions where no specifications**

In the case of any class of work for which there is no such specification as is mentioned in rule 1 such work shall be carried out in accordance with the standard specifications of Public Works Department, and in the event of there being no specification, then in case the work shall be carried out in all respects in accordance with all instructions and requirements of the Engineer- in-Charge

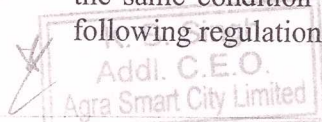
**44. Definition of work**

The expression "works" or "work" where used in these conditions, shall unless there by something in the subject or context repugnant to such construction be construct to mean the work or works contracted to be executed under or in virtue of the contract, whether temporary or permanent and whether original, altered substituted or additional

The percentage referred to in the tender shall be deducted from/ added to the gross of the bill before deducting the value of any stock issued

All quarry fees, royalties and ground rent for stacking materials if any should be paid by the contractor

The contractor shall be responsible for and shall pay any compensation to his workmen payable under the Workmen's Compensation Act 1923 (VIII of 1923) (hereinafter called the said Act) for injuries caused to the workmen. If such compensation is payable paid by corporation as principal under sub section (1) of section 12 of the said Act on behalf of the contractor under subsection (2) of the said section. Such compensation shall be recovered in the manner laid down in the Clause 1 above the contractor shall be responsible for and shall at the expenses of providing medical aid to any workmen who may suffer a bodily injury as a result of an accident. If Corporation the same shall be recoverable from the contractor forthwith and be incurs such expenses deducted without prejudice to any other remedy of Corporation from any amount due or that may be due to the contractor. The contractor shall provide all necessary personal safety equipment's and first aid apparatus available for use of persons employed on site and shall maintain the same condition suitable for immediate use at any time and shall comply with the following regulations in connection therewith.





- a) The workers shall be required to use the equipment so provide by the contractor shall take adequate steps to ensure proper use of the equipment by those concerned.
- b) When the work is carried in the proximity to any place where there is a risk or drawing all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.
- c) Adequate provisions shall be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

The contractor shall duly comply with the provision of "the Apprentices Act" (III of 1961) the rules made there under and the orders that may be issued from time to time under the Act the said Rules

**45. Claim for quantities entered in the tender**

(1) Quantities in respect of the several items shown in the tender rare approximate and no revision in the tendered rate shall be permitted in respect of any of the items so long as subject to any special provision contained in the specifications prescribing a different percentage of permissible variation the quantity of the item does not exceed the contract quantity by more than 50% and so long as the value of the excess quantity beyond this limit as the rate of the item specified in the tender is not more than Rs 5,00,000/- (Rs Five Lakh only).

(2) The contractor shall if ordered in writing by the Engineer to do so, also carry out any quantities in excess of the limit mentioned in sub-clause (1) hereof one the same conditions as in accordance with the specifications in the tender and at the rates as mentioned below:

- a) if tender rate is above, rate will be at par as per Current PWD SOR
- b) If tender rate is below, rate will be as per tender quoted rate on Current PWD SOR. For the purpose of operation of this clause, the total cost shall be taken as derived from the PWD SOR.
- (3) Claims arising out of reduction in the tendered quantity of any item beyond 50 % will be governed by the provision of clause 15 only when the amount of such reduction beyond 50 % at the rate of the item specified in the tender is more than Rs.5,00,000/- (Rs Five Lakh only). This reduction is exclusively of the reduction mentioned in clause No 2, 1, 4 of the work and site condition.

There is no change in the rate if excess is less than or equal to 50%. Also, there is no change in the rate if quantity of work done is more than 50 % of the tendered quantity or the value of the excess work at tendered rates does not exceed Rs. 5,00,000/- (Rs Five Lacks only)

**46. Employment of famine labor etc**

The contractor shall employ any famine, convict or other labor of a particular kind or class if ordered in writing to do so by the Engineer- in-Charge.

**47. Claim for compensation for delay in starting the**

No compensation shall be allowed for any delay caused in the starting of the work on account of acquisition of land or in the case of clearance works on account of any delay in according to sanction of estimates

**48. Claim for compensation for delay in execution**

No compensation shall be allowed for any delay in the execution of the work on account of water standing in borrow pits or compartments the rates are inclusive for hard or cracked soil Excavation in mud, sub soil, water standing in borrow pits and no claim for an extra rate shall be entertained, unless otherwise expressly specified

**49. Entering upon or commencing any portion of work**

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: The contractor shall not enter upon or commence any portion of work except with the written authority and instructions of the Engineer- in-Charge or of his subordinate in charge of the work. Failing such authority, the contractor shall have no claim to ask for measurements of or payment for work

**50. Minimum age of persons employed, the employment of donkeys and for other animals and payment of fair wages**

- (i) No contractor shall employ any person who is under age of 18 Years.
- (ii) No contractor shall employ donkeys or other animals with breeching of string or thin rope the breeching must be at least three inches wide and should be of tape (Nawar).
- (iii) No animals suffering from sores lameness or emaciation or which is immature shall be employed on the work.
- (iv) The Engineer-in-Charge or his agent is authorized to remove from the work any person or animal found working which does not satisfy these conditions and no responsibility shall be accepted by ASCL for any delay caused in the completion of work by such removal.
- (v) The contractor shall pay fair and reasonable wages to the workmen employed by him in the contract under taken by him. In the event of any dispute arising between the contractor and his workmen on the grounds that the wages paid are not fair and reasonable, the dispute shall be referred without delay to the Project Engineer who shall decide the same. The decision of the Project Engineer shall be conclusive and binding on the contractor but such decisions shall not in any way affect the conditions of contract regarding the payment to be made by corporation at the sanctioned tender rates.
- (vi) The contractor shall provide drinking water facilities to the workers similar amenities shall be provided to the workers engaged on large work in urban areas.
- (vii) Contractor to take precaution against accidents which take place on account of labor using loose garments while working near machinery

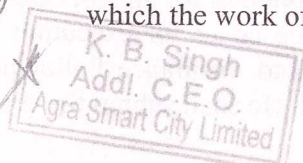
**51. Method of payment**

Payments to contractors shall be made by cheque drawn on any bank within the ASCL limits convenient not exceeding Rs 10 /- will be paid in cash.

**52. Employment of scarcity labor**

If ASCL declares a state of scarcity or famine to exit in any village situated within 10 miles of the work, the contractor shall employ upon such parts of work, as are suitable for unskilled labor, any person certified to him by the Project Engineer, or be any person to whom the Project Engineer may have delegated this duty in writing to be in need of relief and shall be bound to pay to such person wages not below the minimum which government may have fixed in this behalf. Any disputes which may arise in connection with the implementation of this clause shall be decided by the Project Engineer whose decision shall be final and binding on the contractor.

The contractor shall employ at least 80 percent of the total number of unskilled labor to be employed by him on the said work from out of the persons ordinarily residing in the district in which site of the said work is located. Provided, however; that if the required number of unskilled labor from that district is not available, the contractor shall in the first instance employ such number of persons as in available and thereafter may with previous permission in writing of the Project Engineer-in-charge of the said work, obtain the rest of the requirement of unskilled labor from outside district Wages to be paid to the skilled and unskilled laborers engaged by the Contractor. The contractor shall pay the laborer's skilled and unskilled according to the wages prescribed by the Minimum Wages Act of 1948 applicable to the area in which the work of the contract is located.





The contractor shall comply with the provisions of the Apprentices Act 1961 and the rules and Orders issued there under from time to time, if he fails to do so, his failure will be a breach of the contract and the Project Engineer, may in his discretion, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provision of Act. The contractor shall pay the laborer's skilled and unskilled according to wages prescribed by Minimum Wages Act applicable to the area in which the work lies

The contractor shall duly comply with all the provisions of the Contract Labor (Regulation and Abolition) Act, 1970 (37 of 1970) as amended from time to time and all other relevant status and statutory provision concerning payment of wages particularly to workmen employed by the contractor and working on the site of the work. In particular, the contractor shall pay wages to each worker employed by him on the site of the work. If the contractor fails or neglect to pay wages at the said rates or makes short payment and the ASCL makes such payment of wages in full or part thereof less paid by the contractor, as the case may be, the amount so paid by the contractor to such workers shall be deemed to be arrears of land revenue and the corporation shall be entitled to recover the same as such from the contractor or deduct same from the amount payable by the corporation to the contractor hereunder or from any other amount payable by the ASCL to the contractor hereunder or from any other amounts Payable to him by the Corporation.

If the project is shelved by the Corporation before commencement, the contractor will have no right to claim any loses or compensation due to the same and for whatsoever reasons.

All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the work (whether during progress of the works or after their completion and whether before or after the determination, abandonment or breach of the contract) shall be referred to and settled by Project Engineer. But if the contractor be dissatisfied with the decision of the Chief Executive Officer ASCL or as to withholding by the Project Engineer of any certificate of the Project Engineer or as to withholding by the Project Engineer of any certificate to which the contractor may within 60 days after receiving notice of such decision give a return notice to the other party requiring that / may claim to entitled them and in any such case the contractor such matters in disputes be referred to in an appeal before a Committee as mentioned below. Such return notice shall specify the manner which are in disputes and such disputes or difference of which such notice has been given and no other shall be and is hereby referred to Committee consisting of the Chief Executive Officer ASCL, the decision taken by the committee will be final and binding on both the parties Such reference except as to the withholding of any certificate to which the contractor to be entitled shall not be opened or entered upon until after the completion or alleged completion of the works or until after the practical cessation of the works arising from any cause unless with the written consent of the Project Engineer. Provided always that the Corporation shall not withhold the payment of an interim certificate nor the contractor in any way delay the carrying out of the works by reason of any such matters, question or dispute being referred to the Committee but shall, proceed with the work with all the diligence and shall, until the decision of the Committee abide by the decision of the Project Engineer and no award of the Committee shall relievier the contractor of his obligations to adhere strictly to Project Engineer's instructions with regard to the actual carrying out of the works. The Owner and the contractor hereby also agree that the said reference to the Committee under this clause shall be a condition precedent to any right of action under the Contract.

Contractor shall take out necessary Insurance Policy / policies for all workmen, labor employed on site so as to provide adequate Insurance cover for execution of the awarded contract work from National Insurance Co Ltd. Insurance Policy/policies taken out from any other company will not be accepted. He shall submit the receipt of premium to ASCL before work commencement





## ADDITIONAL GENERAL CONDITIONS AND SPECIFICATIONS

NOTE: These are to apply as additional specifications and conditions, unless otherwise already provided for contradictorily else-where in this contract.

### CONTRACTOR TO INFORM HIM SELFFULLY:

The Contractor shall be deemed to have carefully examined the work and site conditions including labor, the general and the special conditions, specifications, schedules and drawings and shall be deemed to have visited the site of the work and to have fully informed himself regarding the local conditions and carried out his own investigations to arrive at rates quoted in the tender. In this regard, he will be given necessary information to the best of knowledge of Department but without any guarantee about it.

### ERRORS, OMISSION AND DISCREPANCIES:

- a) In case of errors, omissions and /or disagreements between written and scaled dimensions on the drawing or between drawing and specifications etc. the following order of preference shall apply.
- (i) Between actual scaled and written dimensions or descriptions on a drawing the latter shall be adopted.
  - (ii) Between the written or shown description of dimensions in the drawing and corresponding one in the specifications, the latter shall apply.
  - (iii) Between the quantities shown in schedule of quantities and those arrived at from the drawings, the latter shall apply.
  - (iv) Between the written description of the item in the schedule of quantities and the detailed description in the specifications of the same items, the latter shall apply.
- b) In case of difference between the rates written in figures and words, the rate adopted by the contractor for working out the total amount of the item will be taken as correct. In order cases correct rates would be that, which is lower.

In all cases of omissions and / or doubts or discrepancies in the dimensions or descriptions of any item or specifications, a reference shall be made to the Project Engineer, ASCL whose elucidation, elaboration or decision shall be considered as authentic. The contractor shall be held responsible for any errors that may occur in the work through lack of such reference and precaution.

### WORKING METHODS AND PROGRESS SCHEDULES:

- (a) Contractor shall submit within times stipulated by the Engineer, in writing the details of actual methods that would be adopted by the contractor for the execution of any items as required by Engineer , at each of the location, supported by necessary detailed drawings and sketches including those of the Plant and Machinery that would be used ,their locations, arrangement for conveying and handling materials etc. and obtain prior approval of the Engineer-in-charge well in advance of starting of such item of work. The Engineer-in-charge reserves the right to suggest modifications or make complete changes in the method proposed

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by the contractor, whether accepted previously or not, at any stage of work, to obtain the desired accuracy, quantity and progress of the work which shall be binding on the contractor, and no claim on account of such change in method of execution will be entertained by corporation so long as specifications of the item remain unaltered.

### **PROGRESS SCHEDULE**

(b) The Contractor shall furnish within the period stipulated in writing by the Engineer-in-charge, of the order to start the work, a progress schedule in quadruplicate indicating the date of actual start, the monthly progress expected to be achieved and the anticipated completion date of each major item of work to be done by him, also indicating dates of procurement and setting up the materials, plant and machinery. The Schedule is to be such as is practicable of achievement towards the completion of the whole work in the time limit, the particular items, if any on the due dates specified in the contract and shall have the approval of the Engineer-in-Charge. No revised schedule shall be operative without such acceptance in writing. The Engineer is further empowered to ask for more detailed schedule or schedules say; week by week for any item or items, in case of urgency of work as will be directed by him and the contractor shall supply the same as and when asked for.

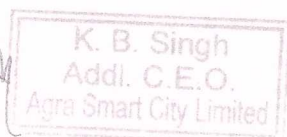
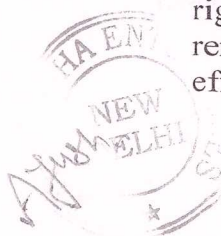
(c) The contractor shall furnish sufficient plant, equipment and labor as may be necessary to maintain the progress of schedule. The working and shift hours restricted to one shift a day for operations to be done under the corporation supervision shall be such as may be approved by the Engineer-in-charge. They shall not be varied without the prior approval of the Engineer. Night work which requires supervision shall not be permitted except when specifically allowed by Engineer each time, if requested by the contractor. The contractor shall provide necessary lighting arrangements etc. for night work as directed by Engineers without extra cost.

(d) Further, the contractor shall submit the progress report of work in prescribed forms charts etc. at periodical intervals, as may be specified by the Engineer-in-charge. Schedule shall be in forms of progress charts, forms, progress statement and /or reports as may be approved by the Engineer.

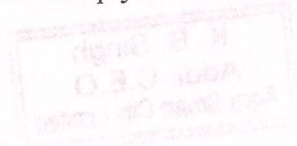
(e) The contractor shall maintain Performa, charts, details regarding machinery equipment, labor, materials, personnel etc. as may be specified by the Engineer and submit periodical returns thereof as may be specified by the Engineer-in-charge.

### **AGENT AND WORK ORDER BOOK**

The Contractor shall himself manage the work or engage an authorized all-time agent on the work capable of managing and guiding the work and understanding the specifications and contract condition. A qualified and experienced, Engineer shall be provided by the contractor as his agent for technical matters in case the Engineer-in-charge considers this as essential for the work and so directs contracts. He will take orders as will be given by the Project Engineer or his representatives and shall be responsible for carrying them out. This agent shall not be changed without prior intimation to the Project Engineer and his representatives on the work site. The contractor shall supply to the Engineer the details of all supervisory and other staff employed by the contractor and notify changes when made, and satisfy the unquestionable right to ask for change in the quality and numbers of contractor's supervisory staff and to order removal from work of any of such staff. The contractor shall comply with such orders and effect replacements to the satisfaction of the Engineer.



Chief Executive  
Agra Smart City Limited





A work order book shall be maintained on site and it shall be the property of corporation and the Contractor shall promptly sign orders given therein by Project Engineer or his representative and his superior offices, and comply with them. The compliance shall be reported by the contractor to the Engineer in good time so that it can be checked. The blank work order book with machine numbered pages will be provided by the corporation free of charge for this purpose. The contractor will be allowed to copy out instructions therein from time to time.

#### **INITIAL MEASUREMENTS FOR RECORD:**

Where, for proper measurement of the work, it is necessary to have an initial set of levels or other measurement taken, the same as recorded in the authorized field book or measurement book of corporation by the Engineer or his authorized representative will be signed by the contractor who will be entitled to have a true copy of the same made at his cost. Any failure on the part of the contractor to get such levels etc. recorded before starting the work will render him liable to accept the decision of the Engineer as to the basis of taking measurement. Likewise the contractor will not cover any work which will render its subsequent measurements difficult or impossible without first getting the same jointly measured by himself and the authorized representative of the Project Engineer. The record of such measurements on the corporation side will be signed by the contractor and he will be entitled to have a true copy of the same made at his cost.

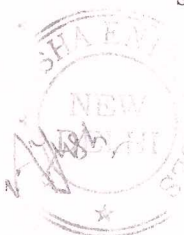
#### **HANDLING OVER THE WORK**

All the work and materials before finally taken over by Corporation will be entire liability of the Contractor for guarding, maintaining and making good any damages of any magnitude. Interim payments made for such work will not alter this position. The handling over by the contractor and taking over by the Project Engineer or his authorized representative will be always in writing, copies of which will go to the Project Engineer or his authorized representative and the contractor. It is, however understood that before taking over such work, Corporation will not put it into regular use as distinct from causal or incidental one, except as specifically mentioned elsewhere in this contract, or as mutually agreed to.

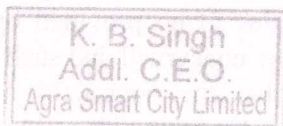
#### **ASSISTANCE IN PROCURING PRIORITIES, PERMITSETC**

The Engineer, on a written request by the contractor, will if in his opinion, the request is reasonable and in the interest of work and its progress, assist the contractor in securing, the priorities for deliveries, transport permits for controlled materials etc. where such are needed. The Corporation, will not, however be responsible for the non-availability of such facilities or delay in this behalf and no claims on account of such failures or delays shall be allowed by the Corporation.

The Contractor shall have to make his own arrangement for machinery required for the work. However, such machinery conveniently available with the Corporation may be spared as the ruled in force on recovery of necessary Security Deposit and rent agreement in the prescribed form. Such an agreement shall be independent of this contract and the supply of machinery shall not form a ground for any claim or extension of time limit for this work.



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Chief Executive Officer  
Agra Smart City Limited



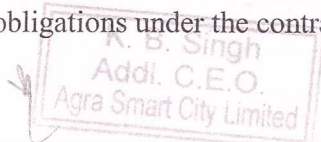
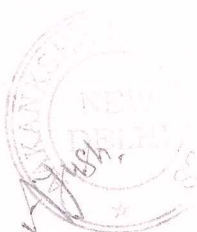
## SAMPLES AND TESTING OF MATERIALS

- (i) All materials to be used on work shall be got approved in advance from the Engineer-in-charge and shall pass the test and or analysis required by him, which will be (a) as specified in the specification for the item concerned and or as specified by the Indian Road Congress Standard Specification (b) Code of Practice for Road and Bridges or (c) I.S.I. Specifications (Whichever and wherever applicable) or (d) such recognized Specifications accepted to Engineer-in-Charge as equivalent thereto or in absence of such recognized Specifications (e) such requirement test and or analysis as may be specified by the Engineer-in-Charge in order of precedence given above.
- (ii) The contractor shall at his risk and cost make all arrangements and /or shall provide for all such facilities as the Engineer-in-charge may require for collecting preparing required number of samples for tests or for analysis at such item and to such places may be directed by the Engineer and bear all charges and cost of testing. Such samples shall also be deposited with the Engineer-in-Charge.
- (iii) The contractor shall if and when required submit at his cost the samples of materials to be tested or analysis and if, so directed, shall not make use of or incorporate in the work any materials represented by the samples until the required tests or analysis have been made and the materials, finally accepted by the Engineer-in-charge.
- (iv) The contractor shall not be eligible for any claim or compensation either arising out of any delay in the work or due to any corrective measures required to be taken on account of and as a result of testing of the materials.
- (v) The contractor or his authorized representative will be allowed to remain present in the departmental authorised laboratory while testing samples furnished by him. However, the results of all tests carried out in the such laboratory in the presence or absence of the contractor or his authorized representative will be binding on the contractor.
- (vi) Cost of routine day to day quality control testing charges for tests required as per specifications will be borne by contractor by sending the same to the concerned laboratories or by establishing laboratory at site.

## CO-ORDINATION:

When several agencies for different sub work of the Project are to work simultaneously on the timely completion of the whole Project smoothly, the scheduled dated for completion specified in each contract shall therefore be strictly adhered to. Each contractor may make his independent arrangement for water, power, housing etc. if they so desired. On the other hand, the contractor is at liberty to mutual agreement in this behalf and makes joint arrangements with the approval of the Engineer. No single contractor shall take or cause to be taken any steps or action that may cause disruption discontent, or disturbance of work labor or arrangement etc. of other contractor in the Project localities. Any action by any contractor which the Engineer in his unquestioned discretion may consider as infringement of the above code would be considered as a breach of the contract conditions and shall be dealt with as such.

In case of any dispute, disagreement between the contractor, the Engineer's decision regarding the co-ordination, co-operation and facilities to be provided by any of the contractors shall be final and binding on the contractors concerned and such a decision or decisions shall not vitiate any contract nor absolve the contractor(s) of his/their obligations under the contract nor consider for the grant for any claim or compensation.





## **PAYMENT:**

The Contractor must understand that the rates quoted are for completed work and include all costs due to labor, scaffolding, machinery, power, royalties, taxes etc. and should also include all expenses to cover the of night work if and when required and no claim for additional payment beyond the prices or rates quoted will be entertained. The mode of measurements has been indicated in the specifications, if there is any ambiguity or doubt in this respect the decision of Project Engineer will be final.

## **PATENTED DEVICE**

Whenever the contractor desires to use any designed devices, materials or process covered by the letter of patent or copy right, the right for such use shall be secured by suitable legal arrangement and agreement with patent owner and the copy of their agreement shall be filled with the Engineer-in-charge if so desired by the letter.

## **TEMPORARY QUARTERS:**

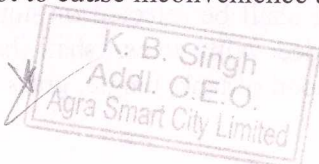
(i) The contractor shall at his own expense maintain sufficient experienced supervisory staff etc. required for the work and shall make his own arrangement, provide housing for them with all necessary arrangements, including fire preventive measures etc. as directed by the Engineer-in-charge.

## **SAFETY MEASURES AND AMENITIES:**

### **SAFETY MEASURES:**

The contractor shall take all necessary precautions for the safety of the workers and preserving their health while working in such job as require special protection and precautions. The following are some of the requirements listed, though not exhaustive. The contractor shall also comply with the directions issued by the Engineer in this behalf from time to time and at all times.

- (1) Providing protective foot wear to workers, in situations like mixing and placing of mortar of concrete in quarries and places where the work is under too much of wet conditions as also for movements over surfaces infected with oyster growth etc.
- (2) Providing protective head gear to workers, working in quarries etc. to protect them against accidental fall of materials from above. To provide Reflective Jackets, Helmets to site staff.
- (3) Taking necessary steps towards training the workers concerned in the use of machinery before, they are allowed to handle it independently and taking all necessary precautions in and around the areas where machines, hoists, and similar units are working.
- (4) Avoiding bare lives-wires etc. as would electrocute workers.
- (5) Making all platforms, staging and temporary structures sufficiently strong so as not to cause inconvenience and risk to the workmen and supervisory staff.





- (6) Providing sufficient first aid trained staff and equipment to be available quickly at the work site to render immediate first aid treatment in case of accidents due to suffocation, drowning and other injuries.
- (7) Where the workers are required to work near machine and are liable to accident they should not be allowed to wear loose cloths like dhoti, zabba, etc.

#### **DAMAGE BY FLOODS OR ACCIDENTS:**

The contractor shall take all precautions against damage by floods or like or from accident etc. no compensation will be allowed to the contractor on this account or for correcting and repairing ant such damage to the work during construction. The contractor shall be liable to make good at his cost any plant or material belonging to the Corporation, lost or damaged by floods or from any other cause which is in his charge.

#### **RELATION WITH PUBLIC AUTHORITIES:**

The Contractor shall comply with all rules, regulations, bye-laws and direction given from time to time also by any local public authority in connection with this work and shall himself pay fees or charges which are leviable on him without any extra cost to the Department.

#### **POLICE PROTECTION:**

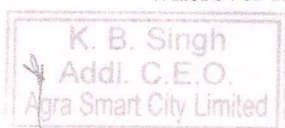
For the Special Protection of camp, the contractor's works, the Department will help the contractor as far as possible to arrange for such protections with the concerned authorities if so required by the Contractor in writing. The full cost of such protection shall be borne by the Contractor.

#### **INDEMNITY:**

The Contractor shall indemnify the ASCL against all actions, suits, claims and demands brought or made against him in respect of anything done or committed to be done by the Contractor on execution of or in connection with this contract and against any loss or damage to the corporation in consequence of any action or suit being brought against the Contractor for anything done or committed to be done in the execution of this contract.

#### **MEDICAL AND SANITARY ARRANGEMENTS TO BE PROVIDED FOR LABOUR EMPLOYED IN THE CONSTRUCTION BY THE CONTRACTOR**

- a) The Contractor shall provide an adequate supply of potable water for use of laborers on work and in Camps.
- b) The contractor shall construct trench or semi-permanent latrines for the use of the laborers. Separate latrines shall be provided for men and women.
- c) The Contractor shall build sufficient number of huts on a suitable plot of land for use of the laborers according to the following specifications.
  - i. Huts of bamboo and tin sheets may be constructed.
  - ii. A good site not liable to submergence shall be selected on high ground remote from jungle but well provided with trees, shall be chosen wherever it is available. The neighborhood of tank, jungle, grass or woods





should be particularly avoided. Camps should not be established close to large cuttings of earthwork.

- iii. The lines of huts shall have open spaces of at least ten meters between rows. When a good natural site cannot be procured, particular attention should be given to the drainage.
  - iv. There should be no overcrowding. Floor space at the rate of 30 sq.ft.per head shall be provided. Care should be taken to see that the huts are kept clean and in good order.
  - v. The contractor must find his own land and if he wants Corporation Land, he should apply for it and pay assessment for it, if made available by Corporation.
  - vi. The Contractor shall construct a sufficient number of bathing places. Washing places should also be provided for the purpose of washing clothes.
2. The Contractor shall make sufficient arrangements for draining away the surface and salvage water as well as water from the bathing and washing places and shall dispose off the wastewater in such a way as not to cause any nuisance.
- d) The Contractor shall engage a medical officer with a traveling dispensary for a camp containing 500 or more persons if there is no government or other private dispensary situated within 8kms from the camp. In case of emergency the contractor shall arrange at his cost for transport for quick medical help to his sick worker.
  - e) The Contractor shall provide the necessary staff for effecting a satisfactory drainage system and cleanliness of the camp to the satisfaction of the Engineer. At least one sweeper per 200 persons should be engaged.
  - f) The Assistant Director of Public Health shall be consulted before opening a labor camp and his instruction on matters such as water supply, sanitary conveniences, the camp site accommodation and food supply shall be followed the Contractor.
  - g) The Contractor shall make arrangements for all anti-malaria measures to be provided for the labor employed on the work. The anti-malaria measure shall be provided as directed by the Assistant Director of Public Health.

### 3. QUARRIES:

The quarrying operations if required and permitted by the Engineer-in-charge shall be carried out by the contractor with proper equipment such as Compressors, jack hammers, Drill bits, Explosives etc. and sufficient number of workmen shall be employed so as to get the required out-turn.

The Contractor shall carry out the works in quarries conformity with all the rules and regulations already laid down or may be laid down from time to time by Corporation due to non-compliance of any rules or regulations or due to damages by the contractor shall be the responsibility of the contractor. The Engineer-in-charge or his representative shall be given full facilities by the contractor for inspection at all times of the working of the quarry, records maintained, the stocks of the explosives and detonators etc., so as to enable him to check that the working records and storage are all in accordance with the relevant rule. The Engineer-in-charge or his representative shall at any time be allowed to inspect the works, buildings and equipment at the quarters.

The Contractor shall maintain at his own cost, the books, registers etc., required to be maintained under the relevant rules and regulations and as directed by the Engineer-in-charge. These books shall be open for inspection at times by the Engineer-in-charge or his

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representative and the contractor shall furnish the copies or extracts of books or register as and when required.

All quarrying operations shall be carried out by the contractor in organized and expeditious manner, systematically and with proper planning. The contractor shall engage licensed blaster and adopt electric blasting and/or any other approved method which would ensure complete safety to all men engaged in the quarry and its surroundings. The contractor shall himself provide suitable magazines and arrange to procure and store explosives, etc. as required under the rules at his own cost the designs and the locations of the magazine shall be got approved in advance from the Chief Inspector of Explosives and the rules and regulations in this connection as laid down by the Chief Inspector of Explosives from time to time shall be strictly adhered to by the Contractor. It is generally experienced that it takes time to obtain the necessary license for blasting storage of material from the concerned authorities. The contractor must therefore take timely advance action for procuring all such licenses so that the work progress may not be hampered.

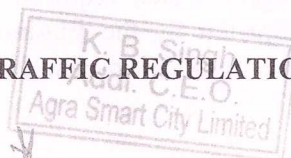
The approaches to the quarrying place from the existing public roads shall have to be arranged by the contractor at his own cost, and the approaches shall be maintained by the contractor at his own cost till the work is over.

The quarrying operations shall be carried out by the contractor to the entire satisfaction of the Engineer-in-charge and the development of the quarry shall be made efficiently so as to avoid wastage of stones. Only such stones as are of the required quality shall be used on the work. Any store which is in the opinion of the Engineer-in-Charge, not in accordance with the specifications or of required quality will be rejected at any time, at the quarry or at the site of work. The rejected stones shall not be used on the work and such rejected materials shall be removed to the place shown at the contractor's cost.

Since all stones quarried from Government quarry (if made available) by the contractor including the excavated overburden are the property of the government, no stones or earth shall be supplied by the contractor to any other agencies or works, and are not allowed to be taken away for any other works all such surplus quarried materials not required for work under this contract shall be the property of the Government and shall be handed over by the contractor to Government free of cost at quarry site duly heaped at the spots indicated by the engineer-in-charge. The contractor will be entitled to the refund of the royalty if any paid by him for such quantity handed over to Government for which necessary certificate will be issued by Project Engineer as per usual procedure. If, however, the Government does not require such surplus material, the contractor may be allowed to dispose of or use material elsewhere with prior written permission of Engineer-in-Charge. Leaving off a quarry face or opening of a new quarry face shall be done only on the approval of the Engineer-in-charge. Quarrying permission will have to be directly obtained by the contractor, from the Collector of the district concerned for which purpose the Corporation will render necessary assistance. All quarry fees, Royalty charges, ground rent for staking material, etc. if any two be paid, shall be paid directly by the contractor as per rules in force. The contractor will be permitted to erect at his own risk and cost at the quarry site if suitable vacant space in government area is available for the purpose, his own structures for stores, offices, etc. at place approved by the Engineer-in-charge. On completion of the work, the contractor shall remove all the structures erected by him and restore the site to its original condition.

The contractor shall not use any land in the quarry either for cultivation or for any other purpose except that required for breaking or stacking or transporting stones.

**TRAFFIC REGULATION**



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Unless separately provided for in the contract, the contractor shall have to make all necessary arrangement for regulating traffic, day to night during the period of construction to the entire satisfaction of the Engineer. This includes the construction and maintenance of diversions if necessary. The contractor shall have to provide necessary caution boards, barricades, flags, lights and watchmen etc. so as to comply with the latest Motor Vehicles rules and regulations and for traffic safety and he shall be responsible for all claims from accidents which may arise due to his negligence whether in regulating the traffic or in stacking material on the roads or due to any other reasons.

### MISCELLANEOUS

Rate shall be exclusive of G.S.T. as applicable.

For providing electric wiring or water lines etc. shall be provided if necessary through walls, slabs, beams etc. and later on refilled up with bricks or stone chippings, cement mortar without any extra cost.

In case it becomes necessary for the due fulfillment of Contract for the Contractor to occupy land outside the Department limits, the Contractor will have to make his own arrangement with the land owners and to pay such rents if any are payable as mutually agreed between them. The Department will afford the Contractor all the reasonable assistance to enable him to obtain ASCL land for such purpose on usual terms and conditions as per the rules of the ASCL

Special provision in detailed specifications or wording of any item shall gain precedence over corresponding contradictory provision (if any) in the Standard Specifications or PWD Hand Book, where reference to such specifications is given without reproducing the details in Contract.

Suitable separating barricades and enclosures shall be provided to separate material brought by the Contractor and material issued by ASCL to the Contractor. Same applies for the material obtained from different sources of supply.

It is presumed that the Contractor has gone carefully through the Standard Specifications of PWD Hand Books and the Schedule of Rate of the Division and studied the site conditions before arriving at rates quoted by him. Decision of the Engineer-in-charge shall be final as regards interpretation of specifications.

The stacking and storage of construction material at site shall be in such a manner as to prevent deterioration or intrusion of foreign matter and to ensure the preservation of their quality, properties and fitness for the work. Suitable precautions shall be taken by the Contractor to protect the material against atmospheric action, fire and other hazards. The materials likely to be carried away by wind shall be stored in suitable stores or with suitable barricades and where there is likelihood of subsidence of soil, such heavy material shall be stored on approved platforms.

The Contractor shall be responsible for making good the damages done to the existing Property during construction by his men.

If it is found necessary from safety point of view to test any part of the structure, the test shall be carried out by the Contractor with the help of the Department at this worn cost.

The Contractor shall provide, maintain, furnish and remove on completion temporary shed for office on work site for the use of Project Engineer's representative.

R. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited



Defective work is liable to be rejected at any stage. The Contractor, on no account can refuse to rectify the defects merely on reasons that further work has been carried out. No extra payment shall be made for rectification.

General directions or detailed description of work, materials and items coverage of rates given in the specification are not necessarily repeated in the Bill of Quantities. Reference is, however, drawn to the appropriate section clause (s) of the General Specifications in accordance with which the work is to be carried out.

In the absence of specific directions to the contrary, the rates and prices inserted in the items are to be considered as the full inclusive rates and prices for the finished work described there under and are to cover all labor, materials, wastage, temporary work, plant overhead charges and profits, as well as the general liabilities, obligations and risk arising out of the General Conditions of the Contract.

The quantities set down against the items in the Schedule B are only estimated quantities of each kind of work included in the Contract and are not to be taken as a guarantee that the quantities scheduled will be carried out or required or that they will not be exceeded.

All measurements will be made in accordance with the methods indicated in the specifications and read in conjunction with the General Conditions of Contract.

The details shown on drawings and all other information pertaining to the work shall be treated as indicative and provisional only and are liable to variation as found necessary while preparing working drawing which will be supplied by the ASCL during execution. The Contractor shall not, on account of such variation be entitled to any increase over the ones mentioned in the contract which are on quantity basis.



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Addl. C.E.O.  
Agra Smart City Limited

Chief Executive Officer  
Agra Smart City Limited





## 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.1.1.1]  
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.1.1.1, 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

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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 Equipment) in Connection with the contract:	1 % of contract value	
D. Personal injury or death	Up to contract value Rs. 2 Crores	
	For contract value more than Rs. 2 Crores	

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:

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Sl.	Name of the Equipments	Cost Of Work Up To 2 Crores	Quantity /No Cost Of Work More Then 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	-	-
13	Mechanical Broom	-	-
14	Bitumen Distributor/ mechanical sprayer	-	-
15	Tipper	-	-
16	J.C.B.	-	-
17	Pockland	-	-
18	Wet Mix Macadam Plant with paver	-	-
19	Pin vibrator	-	-
20	Generator 250 KVA	-	-
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	Trolly	-	-
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]

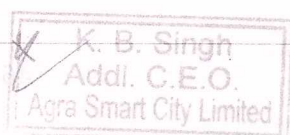
(b) The updated program shall be submitted at interval of 60 days.

[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
	Sieve Analysis	
	CTM	

19. No increase in rates of any items specified in Bill Of Quantity is allowed due to variation in quantities

[CI 36.1]

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

[CI 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
--	--

[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.

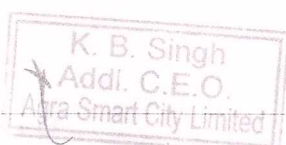
[CI 46.1]

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]



Chief Executive Officer  
Agra Smart City Limited



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)]

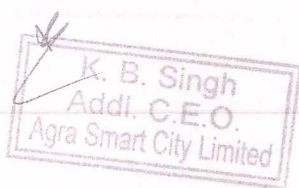
(b) The following events shall be fundamental breach of contract: "The Contractor has contravened Clause 7.1 and Clause 9 Of Part I General Condition Of Contract"

[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]



  
Chief Executive Officer  
Agra Smart City Limited



# AAKANKSHA ENTERPRISES

ISO 9001 : 2015

C-108, Mahavir Vihar, Sector-1, Dwarka, New Delhi-110045

Tel. : 011-49041424 Mob. 9212126877

E-mail : aakankshaenterprises77@gmail.com Website : www.airfreshindia.com

Ref No: AAK/165/2018-19

Date:-11/March/2019


To,  
Chief Executive Officer,  
Agra Smart City Ltd, Agra.

Subject: - Authorization Letter

Dear Sir,

I Geeta, Partner in M/s. Aakanksha Enterprises hereby authorize Mr. Ayush Ranjan S/o Mr. Himanshu Chaubey as representative on behalf of our Firm for signing the agreement and all other correspondence work.


Regards

  
Mrs. Geeta

Partner





  
K. B. Singh  
Modul

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited



# AAKANKSHA ENTERPRISES

ISO 9001 : 2015

C-108, Mahavir Vihar, Sector-1, Dwarka, New Delhi-110045

Tel. : 011-49041424 Mob. 9212126877

E-mail : aakankshaenterprises77@gmail.com Website : www.airfreshindia.com

Ref No: AAK/163/2018-19

Date:-02/March/2019

To,

Chief Executive Officer,  
Agra Smart City Ltd, Agra

Sub: Rate justification and negotiated rates for bid invited for Municipal Solid Waste Management system in Tajganj area for Agra under smart city mission for the ABD area.

Ref: RFP No: 845/ASCL/2018-19 dated 25.02.2019

Dear Sir,

With reference to the price negotiation meeting held on 27<sup>th</sup> February 2019, we have submitted the rate analysis for item no.25 which was discussed in the negotiation meeting and based on the discussions we are happy to reduce the rates of Item no.25 from Rs. 81,644 per day to Rs. 27,000 per day as the work involves supervision only and cost of labour is not in bidders scope as per the RFP.

Hence our total quote after reducing the rates of Item no.25 is Rs. 3,39,62,919.59 exclusive of GST ( Rupees three crore thirty nine lakhs sixty two thousand nine hundred nineteen and fifty nine paise only)

We are requesting accept our negotiated price and kindly issue us the LOI.

Thanks & Regards,

Authorised Signatory



K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited



## 4. Section 3: Terms of Reference (TOR)

### 4.1. Objective of Project

The main objective to introduce this system has been the implementation of SWM rules-2016. The other objective to create awareness towards overall conditions of health of the resident and hygiene of the city. It also aims at improving environmental by timely collection of waste from every residence/shop/institution on daily basis. Reduction in the no of placing big contenders at certain spot will eventually help in less number of stray animals moving around contemptors spot and will also reduce air and water pollution due to filthy and overflowing of semi liquid waste.

### 4.2. Scope of Work

#### a) Collection

This includes gathering the solid wastes and recyclable materials and transport of these materials to either the processing facility, transfer facility or the disposal site.

##### Types of Collection

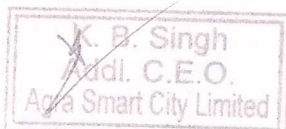
- i. Community bins - they are placed in convenient locations, where the community members carry the waste and throw it in. This method is comparatively cheaper to other methods. This is the most widely adopted method in western countries. For this method to be adopted it is important that the Bins are covered, they are aesthetic, they are attended to regularly, kept clean, easy to handle and separate bins are provided for recyclable, mixed, paper and biodegradable waste.
- ii. Block collection - the collection vehicles arrive at a particular place or a set day and time to collect waste from the households. Households bring their waste containers and empty directly into the vehicle. This method requires a higher homeowner cooperation and scheduled service for homeowner cooperation.
- iii. Curbside collection –the homeowner is responsible for placing the containers to be emptied at the curb on the collection day and for returning the empty containers to their storage location until the next collection (Tchobanolous, G et al 1993). Street cleansing is another type of collection method mainly for collection of street litter.

#### b) Sorting, processing and transformation of Solid Waste

This functional unit encompasses the recovery of the sorted materials, processing of solid waste and transformation of solid waste that occurs primarily in locations away from the source of waste generation.

Sorting of the mixed waste usually occurs at a material recovery facility, transfer stations, combustion facilities and disposal sites. Sorting includes separation of bulky items, separation of waste components by size using screens, manual separation of waste components, and separation of ferrous and non-ferrous metals.

Waste processing and transformation solid waste processing reduces the amount of material requiring disposal and, in some cases produces a useful product. Examples of solid waste processing technologies include material recovery facilities, where recyclable materials are removed and/or sorted; composting facilities where organics in solid waste undergo controlled decomposition; and waste-to-energy facilities where waste becomes energy for electricity.





c) Transfer and transport

This involves two steps :

The transfer of wastes from smaller collection vehicle to larger transport vehicle  
Subsequent transport of the wastes usually over long distances, to a processing or disposal site. The transfer usually takes place at a transfer station.

d) Disposal of Waste at Dump site, Kuberpur,

There was one scientific disposal site. It exists for disposal of inert/composting residue/non- biodegradable/non-recyclable material. Scientific Landfill Site is totally closed. Presently waste is being thrown in Kuberpur, near Yamuna Express. The total area is 71.7 acres.

e) *Area of Involvement*

Solid waste for a project area shall be done in integrated manner i.e. from Door-to-Door collection to final and safe disposal. The private entrepreneur getting contract shall be awarded through an integrated package for solid waste management which scope of work shall include:

- Door-to-Door collection
- Transportation of waste from primary storage depot to processing plant
- Processing of waste
- Final disposal of waste

However, local body may also encourage NGOs/RWA to involve into this sector and organize the segregated waste collectors in doorstep collection of waste and provide them an opportunity to earn their living. The local body can give incentive in cash or kind to these organizations in their effort of organizing waste collectors in primary collection of recyclable and/or organic waste. The involvement of these group ensure collection of source segregated waste which play an important role to make the entire practices effective and successful.

f) All the activity to be integrated GPS tracking with Command Control Center monitoring system for Garbage collection and transportation

S.No	Item	Quantity in numbers
1	No. of Households in ABD area	12924
2	Restaurant, Dhaba Hotel	692
3	Whole sale & Retailer shop	5450
4	Vegetable & Fruit shop	446
5	Meat & Fish shop	66
6	Institutions	223
7	Total waste generation Tones per day	93.0
	Per capita generation for Domestic waste ( Kg/Day)	0.496

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#### 4.3. Suggested Team Composition & Qualification Requirements

Project Manager having graduate in MSW having experience of 15 years and minimum 3 years similar experience in Solid waste management system organization. Supervisor having graduate in any discipline.

#### 4.4. Time Schedule

The project duration is for 24 months from the date of contract. If the work is not completed within the stipulated period as per approved proposal, Agra Smart City Ltd. will not give any extra payment during the extended time period.

S No	Activity	Time Schedule
1.	Door to Door Collection a) Housing Area b) Commercial and institutional area	06:00 AM to 10:00 AM 10:30 AM to 11:30 AM
2.	Market ( Two Shift)	07:30 AM to 12:30 AM 04:00 PM to 08:00 PM
3.	Park and other the Specified	Daily
4.	Cleaning of Nali/ Nalas and removal of Sludge/Silt	Daily

#### 4.5. Payment Schedule

Payment will be made against achieving milestones of the project as stated in the contract as submitted by the invoice within 15 days after verification of the work.

#### 4.6. Penalty clause

- In case of delay in delivery of material, the purchaser may at his option, impose a penalty calculated at the rate of 0.1% per each day of the delayed goods and up to a maximum deduction of 5% of the delayed supply or services as per tender conditions of such portion only of the quantity as have not been delivered on the specified date ( three month from the date of agreement). Such reduction shall be in full satisfaction of the supplier's liability for the delay but shall not in any case exceed five per cent of the value. Once the maximum is reached the department may consider termination of contract.
- Agency worker will work in proper dress with duly attested ID card. In case of Worker found without dress and ID card then agency will be fined for Rs 500.00 ( five Hundred) per day per worker.
- In case of worker strike last for more than a day then agency will be fined for Rs. 10,0000.00 ( Ten thousand) per Day. If agency worker don't perform their duty continuously for 10 days then ASCL right to cancel the agreement.

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited



# TECHNICAL SPECIFICATIONS

## TECHNICAL SPECIFICATIONS FOR THE SUPPLY OF HANDCARTS AND TRICYCLES

### Tricycle:

1. Tricycle should have 8 Nos detachable plastic containers capacity of 50 litres made from Roto Moldings/ Injection Moulding with lockable chain arrangement and as per GTR.
2. The tricycle shall have 3 Nos wheels out of which 2 Nos back wheels shall be puncher-less rubberized of 16 Nos spokes 20 mm x 1.6 mm thick or better, M S pipe welded on the rim & one front wheel of standard type with puncher-less rubberized and double sealed bearing to support rickshaw. It should have a locking arrangement and have suitable arrangement for placing 8 Nos. containers in 8 Nos. slots made of MS angle of size 25x25x3 mm. It should have a standard bell, cycle lock, reflectors, hooks, toolkit, locker, first aid box, seat with cover, hangers for broom, wiper etc.
3. Platform of tricycle will have 3mm MS sheet fixed with 12 mm dia holes in 200 mm square matrix.
4. Special standard Control Point rounded rubber grip should be provided in the handle.
5. A name plate of size 310x205 mm and 0.7 mm thick should be welded at the front side of the tricycle.
6. Frame, fork with fitting should be made from mild steel heavy duty tubular frame with 5 tubes, made from tube of size 28.6 X 1.63 mm.
7. It should have heavy duty pedal.
8. Handle bar shall be of heavy duty Nickel and chrome plated and the size shall not be less than 410 mm between the two grips. The front fork supported by flat steel anvil shall conform to IS 2061/1995 (reaffirmed 2010) with amendment no. 1.
9. Chain wheel & crank should be heavy duty Nickel and chrome plated conforming to IS 1281/2014.
10. Chain should be 212- links- heavy duty extra strong chain conforming to designation 083-1 of IS 2403/1991.
11. It should have a Quarter Chain Cover with black colour of thickness 1.2 mm and 90 mm wide Mud guard of thickness 1.2 mm with steel stays should be fitted with red reflectors on each mud guard rear and front
12. Cotter pin should be 9.5 mm zinc plated
13. Front rim should be 700 mm x 38 mm heavy 3.2 mm, 1.6 Kg
14. Rear rim should be bullet rim-400 mm dia x 80 mmx 1.6 mm thickness and hub fitted with bearing 2204/2205 and with MS round spokes of heavy duty.
15. Bell should be 100 mm round heavy duty and lock should be 7 levers.

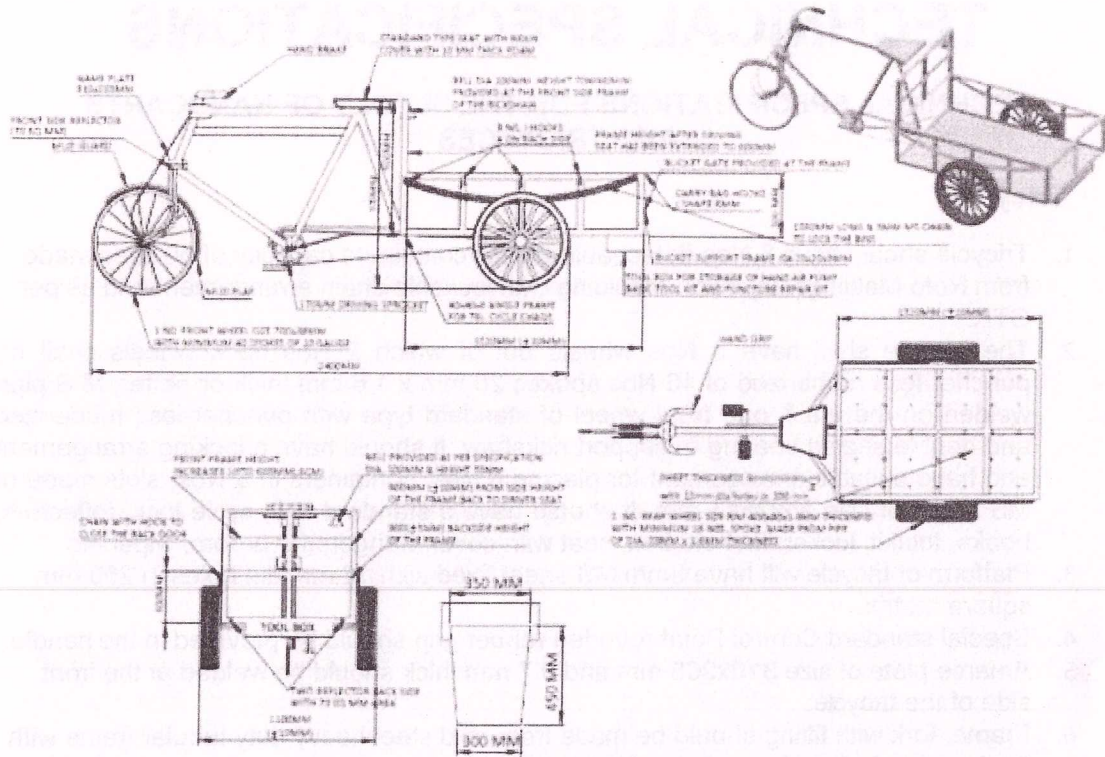
*[Signature]*  
K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited





Request for Proposal for selection of agency Establishing Municipal Solid Waste Management in Taj Ganj  
area for Agra  
under smart city mission for the ABD area.-Third Call



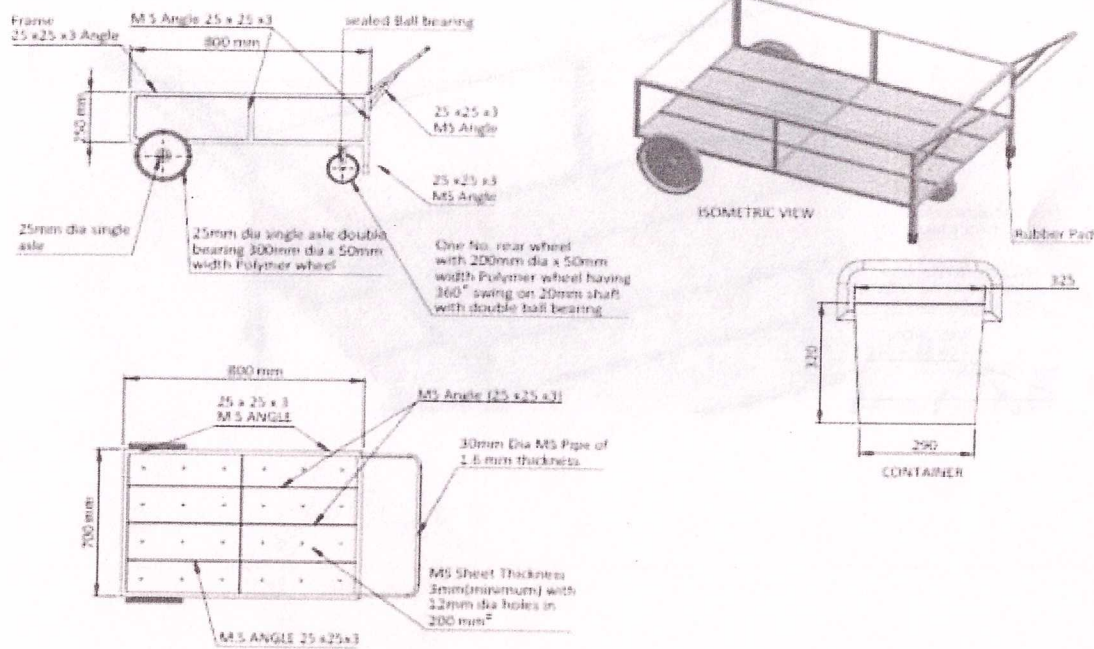
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Agra Smart City Limited





### Hand Cart:

1. Handcart should have 4 detachable plastic containers of 25 litres capacity made from Roto Moulding/Injection Moulding with lockable chain arrangement.
2. It should have two nos wheels of polymer on front side on a 25 mm dia axle with double bearing in wheel size 300 mm dia and 50 mm width and one no wheel of polymer on the rear of 200 mm dia and 50 mm width with double sealed ball bearing.
3. Frame should be made of MS angle of size 25x25x3 mm of size 800 mm(L), 700 mm(W) and 250 mm (H).
4. The handcart handle should be made of MS pipe of dia 30 mm of thickness 1.6 mm
5. Bottom and side stiffener with 25x25x3 mm M S Angle as per drawing.
6. Platform of handcart will have 3mm thickness MS plate fixed with 12 mm dia holes in 200 mm square matrix.



K. B. Singh  
Mod.  
Smart City Limited

K. B. Singh  
Addl. C.E.O.  
Smart City Limited

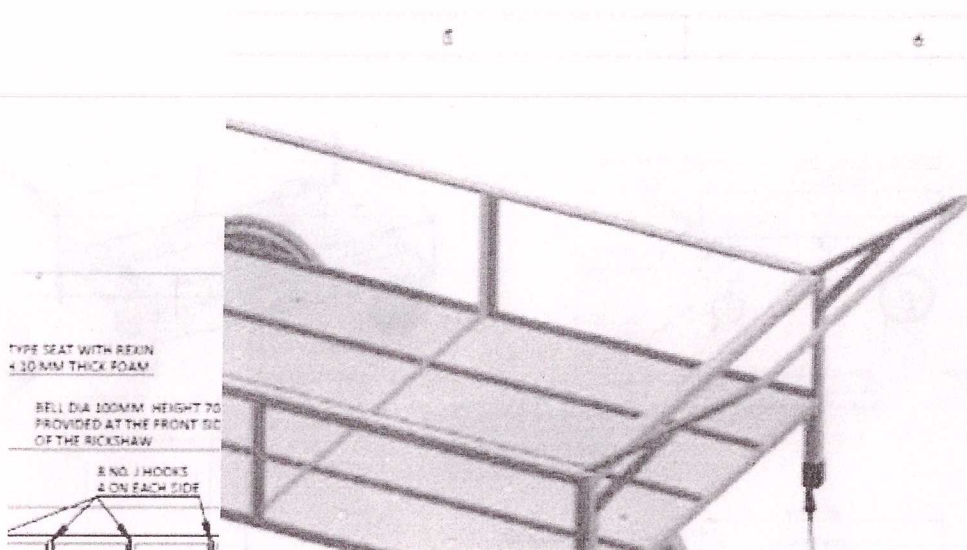


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DELHI



### Plastic Container: 50 litre capacity and 25 litre capacity

1. Plastic Containers (Injection/Roto Moulding) made of HDPE/ PP material should be of size 350x350 mm at the top, 300x300 mm at the bottom and its internal height should be 450 mm. The minimum wall thickness of the plastic container should be 4 mm. The colour of the container should be yellow, green and blue.
2. Ash content of the HDPE container shall not be more than 1% when tested as per method as described in Annex D of IS 14887/2014 - 1 No. sample size from each lot of 500 nos. containers.
3. The plastic container should have at least 0.25 % UV additive and pass the UV Resistance Test as per requirement of SI No (ix) of table 1 when tested as per Annex C of IS 14887/2014.



K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited



## SPECIFICATIONS OF THE CNG LOAD AUTO RICKSHAW

Single Seated CNG load Auto Rickshaw with a maximum loading capacity of 500 kg, maximum speed of 30 to 40 kmph, minimum range of 70 km with full load.

1. Engine: Four Stroke: Oil Cooled, Twin Spark Engine
2. No. of Cylinders: One
3. Max. Net Power: Not less than 7.5 kw at 6000 rpm
4. Pedal Assistance: Not required
5. Reverse Gear: Required
6. Maximum Speed: 20 to 25 kmph (To be tested with full load)
7. Loading Capacity: 500 kg
8. Range: 70 km or more
9. Ground Clearance: 120 mm or more (To be tested as per IS:9435)
10. Overall size of the Auto Rickshaw: Length < 3 m  
Width < 1.5  
m Height < 1.8 m
11. Front Windshield & Wiper: Windshield shall be made out of laminated safety glass. Wiper shall be electric motor operated. Front windshield shall conform to IS:2553
12. Brakes: Parking & service brakes, safe & efficient.
13. Instrument Panel: Speedometer and Fuel indicator
14. Roof: Made out of good quality metal for driver cabin
15. Carrier Platform: Made out of 3 mm good quality M.S sheet with proper support from the vehicle body
16. Controls: Start/Stop switch and indicators
17. Tyres: 3 -12" minimum

### Overall Rickshaw Design:

The overall CNG Auto rickshaw design shall meet all the requirements of safety, reliability, repeatability, efficiency, strength, smoothness in riding, driver comfort in climbing/entering the rickshaw, sitting at steady state and during the ride, getting down from the rickshaw, loading and unloading the luggage, etc. The rickshaw shall not be noisy and should have the proper control and instrument panel to indicate the speed, state of fuel, km, etc. It should have sufficient braking system, suspension system, start and stop buttons, key, front and back lights with parking lights too, power supply system for these auxiliaries. The rickshaw has to be fabricated with good quality steel properly plated/painted to avoid rusting for more than five years. The body shall be of good quality metal, and the roof shall be metal of good quality. It shall have sufficient height and the vehicle integration, packaging of electrical and electronic wires and devices shall be such that the rickshaw can run even in rainy season/during the rain without any problems.

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited





### Supplier/Manufacturer Conditions:

The supplier of the CNG Auto Rickshaw shall be an original manufacturer of such vehicles. The supplier shall not be a trader/importer or simply an assembler for various components. The supplier shall have the facility and capability for the design, fabrication, assembly and testing of the offered Rickshaws. The supplier can use the motors, controllers, batteries and battery charges procured preferably from various reliable and quality sources. All these components have to be tested at the supplier's site independently before assembling into the Rickshaws. The supplier shall be capable of providing reliable and economical after-sales service including provision of spares for all components used. It will be the responsibility of the supplier of the CNG Auto Rickshaws to get all the components used in the rickshaw and also the CNG Auto Rickshaw as a whole to be tested by the Government of India approved testing centers.



A handwritten signature in black ink, consisting of a stylized 'V' shape followed by a vertical line and a small flourish.

A red rectangular stamp with text inside, likely an official seal or approval mark. The text is partially legible and appears to be in Hindi or English, possibly indicating a date or official status.



**TECHNICAL SPECIFICATION FOR 8 CUM CAPACITY VEHICLE  
CHASSIS MOUNTED, REAR END MANUAL LOADING AND AUTO  
LOADING MOVABLE REFUSE COMPACTOR WITH TIP CART  
MECHANISM.**

**GENERAL DESCRIPTION**

Manufacture & supply of a Truck Chassis mounted, Rear End Auto Loading, Refuse Compactor, capable of collecting garbage/organic waste, compacting the same and transporting it to dumping ground. Truck mounted equipment should be of versatile capabilities and to be effective & economical to operate for disposing mixed waste which will include garden waste, market waste, domestic waste, commercial waste and others as generated in Municipal area.

The Compactor to be designed to allow loading of refuses:

1. Manually,
  2. By an independent refuse collection, hopper vehicle
  3. By hydraulically lifting and emptying of all Bins of capacities up to 500 liters into the hopper of compactor.
  4. The loose waste should be compacted up to 800-900 kg./cum  
(approx.) The compactor should be with the following main components:
1. Container should be 8 m<sup>3</sup> capacity.
  2. The container body shall be made of anti corrosive steel.
  3. An ejector plate driven by double acting hydraulic cylinder
  4. A tailgate body with two numbers double acting cylinders to facilitate it's opening/closing operations.
  5. A set of carrier and packer plates, each operated by a pair of hydraulic cylinders
  6. A universal hydraulic bin lifter at the rear end, with two numbers of double acting hydraulic cylinders.
  7. A suitably rated, vehicle's PTO driven, Hydraulic pump unit. The equipment shall have a loading height of maximum 1000 mm from the ground. System with lower height for easy loading will be preferred. The equipment to be designed for at least continuous 8 hours operations under average conditions without any ill effects on its components.

**VEHICLE CHASSIS**

The complete equipment to be mounted on a vehicle chassis. The Chassis to be supplied by the supplier with a factory fitted auxiliary PTO and Hydraulic Jack.

**Technical Data**

Manufacturer & Model: Reputed manufacturer with standard design make BS-IV compliant chassis as per the Govt. notification Applicable within the Municipal jurisdiction. Details of Make / Model / Specification must be Mentioned by the bidder without which the tender may not be considered.

1. GVW : Min 11 MT
2. HP : Min 90 HP
3. Wheel Base: Min 3600 mm.
4. Engine: 4 or 6 cylinder and water cooled.
5. Tyre size: 8.25 x 20-16PR.





6. Fuel Tank: 100 ltr. (Min.)

### **CABIN**

The Cabin should be sleeper type having Driver seat and Co-Driver seat of 3 (three) accommodation provided with single / two part front view wind shield glass & window with proper ventilation. There should be two emergency lights on both side of the top of the cabin.

### **MOUNTING**

The Refuse Collection Body to be welded to a skid / sub-frame and to be directly bolted on to the long-bearers of the chassis frame with shear plates. The front end of the collector body to be supported on each side using springs / special rubber mountings.

### **REFUSE COLLECTION BODY**

The skid mounted Refuse Collection Body to be of a min 8 m<sup>3</sup> volumetric capacity and of rectangular cross section. The body shall be fabricated from high tensile steel. The container to be of an all electrically welded and construction will be conformed to IS 2825. A hydraulically operated ejector plate should be located at the forward end of the container body. At the rear end should be fitted a hinged tailgate assembly, consisting of a hopper, a slider and packer plate assembly which constitutes the compacting unit. The top, bottom and sidewalls, as also the tailgate, should be reinforced with steel rectangular hollow sections & an automatic tailgate locking arrangement to be incorporated in the system.

Material: High tensile steel one piece rolled side sheets & braced by front and rear hooks with pressed integral channels & keel type floor.

Volumetric Capacity: Min 8

m<sup>3</sup> Side Plates: Min 4 mm

thick Floor: Min 5 mm thick

Emergency light: Two emergency lights to be fitted on the top of the body of the back side. The Compactor should have the following.

#### **TAILGATE:**

Tailgate with double lip type rubber seal cord for leak-proof and Automatic Gate locking arrangement to be provided mode of 7 mm plate side panel.

#### **HOPPER:**

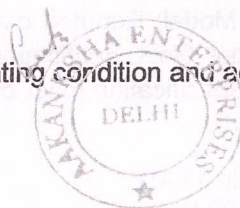
Min 1 m<sup>3</sup> capacity steel hopper with maximum loading height of 1000 mm to be welded between the sides of the Tailgate hopper bottom & side of 7 mm plates.

#### **SLIDER PLATE:**

The plate to be of robust design to withstand harsh operating condition and actuated by hydraulic cylinder.

#### **PACKER PLATE:**

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The plate to be of robust design with strong reinforced bearing arms with hydraulic cylinder to be provided. Proven two plate fabrication packer of high tensile abrasion steel. slides within hooper channels on low friction self lubricating bearing.

#### UNIVERSAL BIN LIFTER:

Hydraulically operated Universal Bin Lifter unit capable to lift 240 liter & 1100 litre EN/ DIN standard Bin to be provided along with fittings

#### BIN/TIP CART LIFTER:

Bin cart should be 3 to 4 times the size of traditional hand cart. Bin cart should be fitted on the body properly to prevent unwanted noise during transportation of municipal solid waste. Tip cart should be detachable and not to be bolted but connected with the compactor in such a way that tip cart can be easily detached within few minutes.

#### HYDRAULIC SYSTEM & DRIVE

1. Hydraulic Pump & Drive WIPRO or equivalent makes hydraulic Pump of adequate capacity to meet the operational requirements of the complete system to be provided with the equipment. The hydraulic pump should be axial piston type/ gear Type with min. flow rate 64 lpm & speed 1500 rpm. The hydraulic pump to be driven by the auxiliary PTO supplied with the chassis. Engaging & disengaging of the PTO should be from the driver's cabin.
2. Hydraulic Cylinders Hydraulic cylinders to be provided to carry out the functions of following component of the refuse collector unit:
  - Double acting cylinder for Slider Plate
  - Double acting cylinder for Packer Plate
  - Double acting cylinder for Tailgate lifting and Auto-locking arrangement
  - Double acting cylinder for Universal Bin Lifting arrangement
  - Double acting, 3-stage cushioned cylinder for Ejector Panel Block The cylinders to be manufactured by an ISO-9001/9002 certified company. All cylinders to be double acting and cushioned, manufactured from ST-52 Grade steel and seals of reputed ISO-9000 manufacturer to be used. All cylinders to be provided with lubricated bearings and should be of a standard reputed make.
3. Mobile Control Valves 1 no 2-bank direction control valve block to be provided to facilitate lifting & lowering the Tailgate and movement of the Refuse Ejector Plate. 1 no 2-bank direction control valve block to be provided to facilitate movement of the Carrier Plate, Packer Plate for compaction. 1 no 2-bank direction control valve block to be provided to facilitate Stabilizer unit. The valves to be designed so as to allow operations by two hands only to avoid risks of accidents. The mobile Control valves to be of a standard reputed make such as that of Valvo oil of Italy or Bucher of Germany or equivalent.
4. Tank & Filters: The hydraulic oil storage tank should have a volumetric capacity of a minimum 100 litres and should come equipped with a suction strainer of 125 microns, steel cartridge type return line filter of 25 microns, filler/filter/breather for the tank and a level indicator. Tank to be made of min. 3 mm steel as per IS: 2062 grade A/ IS: 1079.

#### SURFACE PREPARATION AND FINISH

Both the exterior and interior surfaces of the compactor to be thoroughly sanded prior to spray painting. The container exterior should be spray-painted with two coats of superior quality, anti- corrosive primer and two coats of enamel metal paint of a reputed make. The colour shade to be

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Request for Proposal for selection of agency Establishing Municipal Solid Waste Management in Taj Ganj  
area for Agra  
under smart city mission for the ABD area.-Third Call

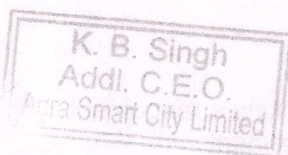
that of the customer's choice. To resist corrosion due to weak acids, the interior will be coated with 2 coats of anti-corrosive gray epoxy paint.

Compactor Material Thickness:

1. Main container body: Side plate : Min. 4 mm : Floor plate : Min 5 mm  
: Roof plate : Min 3 mm
2. Refuse Ejection Barrier: Min. 3 mm plate
3. Hopper: Min 3 mm plate
4. Packer: Min 5 mm

plate Safety features & Instructions:

- Repairs / Adjustments if any to be carried only when the vehicle is stationary and if the tailgate is lifted it has to be supported by 'hopper props' that should be provided by the manufacturer.
- The vehicle with compactor body to be fixed securely while moving from place to place.
- Hopper lift rams should be fitted with integral pilot operated load holding valves so that even if a hose fails, or is removed, the hopper cannot descend unless positively powered downwards.
- An emergency push button should be provided for stopping the compaction operation in the event of any emergency.





## SPECIFICATION OF T RUCK MOUNTED GARBAGE COMPACTOR

### GENERAL

Vehicle mounted rear loading garbage compactors shall be robust in construction and shall be able to collect of garbage and refuse from different spots and then transport it to dumping ground. The volume of the compactor shall be around 15 m<sup>3</sup>. The unit shall be operated by hydraulic systems. The positive compaction against the ejector plate shall be used to enable desired compaction to be achieved at all times for even loading. Proper distribution of load on front & rear axles should be achieved without overloading the axles in any circumstances. The refuse shall be pressed into the compactor by a pressing plate & the mechanism shall enable the full body volume to be filled with compacted refuse. The refuse shall be unloaded by an ejector plate.

The operations of this unit shall be such that one driver assisted by two helpers shall be adequate.

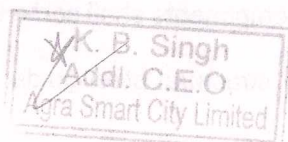
### COLLECTION & DISPOSAL OF GARBAGE

Collection of garbage shall be done by emptying/unloading the garbage into the hopper of the compactor from the bins. These bins shall be emptied hydraulically by the bin lifter or even emptied manually as the hopper is easily accessible. The compacting process shall be carried out in stages as described below.

- The packer plate, which initially is at a closed position parallel to the floor of the body, shall open hydraulically.
- Due to the actuation of the carrier plate hydraulic cylinders, the carrier shall come down and the hopper shall shut by the packer plate.
- The garbage from the hopper shall be swept by the packer plate and pulled into the container body by the reverse actuation of the carrier plate cylinder.
- The garbage shall be compacted against the ejector plate as the carrier ascends.
- The tailgate shall be unlocked from the self locking/unlocking arrangement and the entire assembly shall be hydraulically lifted using the two cylinders.
- The compressed garbage within the container body shall be unloaded by the ejector plate by pushing the garbage out of the body with its double acting multi stage hydraulic cylinder.
- This system shall facilitate easy and quick unloading with assured machine stability during discharge.

The skid-mounted unit shall consist of;

- Suitable power takes off arrangement from the truck chassis which shall be used for driving various components of the unit.
- Body
- Tail gate
- Packer plate
- Carrier plate
- Ejector Plate
- Bin lifter
- Controls





- Hydraulic system
- High Pressure Washing System (Optional)
- Safety Features
- Standard Accessories
- Painting

The above equipment shall be mounted on client supplied chassis with cabin & PTO like TATA / ASHOK Leyland or equivalent of 30T GVW and 4200 mm wheelbase. Bidder shall furnish full details of vehicle chassis. The Client will make direct payment to the Chassis manufacturer/ their dealer against their Proforma Invoice to avail special Govt. rates. The standard tools accessories and spares supplied with the chassis shall be handed over to the client at the time of delivery of the unit.

The Bidder shall make arrangements for mounting equipment on the chassis according to the rules laid down by the Regional transport Office, and loads recommended by the chassis manufacturer on the front and rear axles. The Client shall make arrangements for registration of the complete unit with the Regional Transport Office. The Government fees required for registration & insurance of the units shall be paid by the client directly to the concerned authorities.

#### **REAR LOADER: -**

The skid mounted rear loader unit and its hydraulically assisted packer body shall be designed to perform the assigned work. Unit shall conform to the best practice known to the body fabrication trade in design, quality of material and workmanship. Assemblies, subassemblies, components and accessories shall be standard and interchangeable. Accessories not specifically mentioned herein but necessary to furnish complete unit ready for use shall be included.

Unit shall be rear-loading type with loading height approx 1 meter from ground level. The operation of compacting, ejecting the refuse shall be hydraulic system. The system shall include the hydraulic pump driven by the chassis engine overheating, necessary filter, adjustable relief valves, DOCV's directional control valves, restriction valves and associated pipelines.

The hydraulic cylinders, hydraulic pump and control valves shall be of reputed make, manufactured by the firm having vast experience in the same field.

Hydraulic seamless pipes, hoses, couplings should be of high quality and standard to withstand high pressures. The pipe ends should be flared to ensure perfect seal and prevent leakage even at high pressure.

#### **a) PRIME MOVER:-**

The unit shall be run on the power transmitted from vehicle engine through P.T.O. (Power Take Off Unit). The P.T.O. shall be of sturdy design of reputed make and should be able to provide sufficient power to run the system.

#### **b) BODY**

- Body shall be fabricated from IS 2062 Steel sheets (5 mm thick floor, 3 mm side wall and top plate) having Hexagonal shape for better aesthetic and reinforced by front and rear stiffeners so as to withstand continuous operation at maximum imposed loads & without harmful deformation or excessive wear.
- The body interior shall have a smooth floor, sides and roof in order to prevent damages. No cylinders, valves and other hydraulic components shall come in contact with refuse into the body.
- The body sides shall be equipped with extra heavy structural steel guide rails so that will



guide and support the ejector panel having UHMWPE / PTFE slider blocks provided on both side of ejector.

- To prevent the corrosion from leachate, the body floor is provided with Stainless Steel grade 304 having Keel shape plate and ensure proper collection of leachate in the floor sump at the front of the body.

**c) TAIL GATE**

- Tailgate side shall be fabricated from high strength mild steel IS 2062 (3mm thick).
- Hopper floor shall be fabricated from Stainless steel Grade 304 (5mm thick).
- Loading height shall not be higher than the top of the chassis frame rails or 1m .
- The tailgate shall have self locking / unlocking arrangement and raise to permit ejection of the refuse when hydraulic valve is manually actuated.
- Tailgate shall be provided with sturdy arrangement for raising and controlling of descent.
- The valve that operates the tailgate lift action shall be located at the front end of the body (far away from the tailgate) to prevent any harm to the operator when the refuse is being ejected from the body.
- The valve operating the tailgate shall be of the spring centered (dead man) type so that the operator must stand at side of tailgate (away from moving packing blades) and physically hold the handle that activates the valve all of this for safety purposes.
- The hydraulic system shall include relief valves to prevent excess pressure that may damage hoses, tubes and other hydraulic components.
- A hydraulic fluid velocity fuse restrictor (Pilot Check valve) shall be installed at the base of the tailgate cylinder to prevent rapid and dangerous fall of tailgate in case of a hydraulic hose or tube rupture.

**d) PACKER PLATE:**

- Packer plate shall be heavily reinforced & fabricated from high strength IS 2062 mild steel 3mm thickness.
- Packing cycle complete shall be around 20 seconds.
- The truck's engine shall be accelerated to sufficient speed (rpm) when the packing plate valves are actuated to packing sequence at the rated speed and pressures to compact the refuse.
- Press Compaction: - Each hopper full of material shall be compressed between the packing blade and ejector panel.
- The heavy duty packer shall be fitted with sturdy mountings for rams.

**e) CARRIER PLATE:**

The carrier plate shall be fabricated from high strength mild steel sheets IS 2062 (3mm) and shall be made strong enough to withstand all the abuse imposed upon it by the refuse.

The carrier plate shall slide on integrated side channels provided with low friction, self lubricating UHMWPE / PTFE guides.

**f) DISCHARGE OF LOAD: (EJECTOR PLATE)**

- Discharge shall be by means of positive ejection.
- The ejector panel shall be fabricated from high strength IS 2062 6mm thick mild steel plate. The ejector panel should be angled and smooth to ensure clean discharge and eliminate risk of waste adhering to the plate. The ejector plate should be suitably reinforced.
- The hydraulic telescopic cylinder shall extend and retract ejector over full length of the body

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and shall be double acting.

- Ejector plate shall be supported as well as glide on heavy duty UHMWPE / PTFE self lubricating slider blocks to move smoothly along the side rails provided within the body.
- A large access opening at the front of the body shall be provided to attend to the front of the ejection mechanism.

**g) BIN LIFTING:**

A hydraulically operated bin lifter should be provided at the rear end along with the equipment, and should be capable of lifting the EN standard containers of various sizes of bins. Two double acting hydraulic cylinders one on each side to be provided. Control lever for operation to be installed at a convenient position such that the working of hydraulic cylinders can be controlled safely. The bin arms shall have self locking arrangement to prevent bins sliding over during unloading operation. The arms shall be locked in folded position during vehicle movement on road.

**h) CONTROLS:**

- Power take-off controls mounted in the cabin shall be conveniently located by chassis manufacturer.
- The position of Ejector and tailgate controls by two-spool directional control valve shall be outside the body on the left side at the front part of the body.
- The position of carrier plate, packer plate and bin lifter controls by three spools. Directional control valve shall be outside the body on the left side near the rear part of the body.
- A Pneumatic acceleration device to raise engine speed to required R.P.M. during packing cycle shall be provided.

**i) HYDRAULIC SYSTEM:**

- A heavy duty, single speed power take-off shall be provided by chassis manufacturer and shall be compatible with that of chassis transmission.
- The power take-off must run quietly. Gearing shall be selected for minimum engine R.P.M. compatible with recommended R.P.M. for correct operating pressure and flow per minute.
- The hydraulic pump shall be designed to operate continuously with peak loading at frequent and short interval. The pump displacement at 1500 rpm should be 75 L/min. It shall be driven by the PTO via propeller shaft.
- All hydraulic hoses shall be as per relevant standards for designed pressure. Hoses shall have adequate safety factor over maximum relief valve pressure setting. The hoses shall be rigidly mounted on the body, wherever possible.
- The hydraulic system shall incorporate relief valves to protect all components from excessive pressure and overloads.
- A replaceable, 10 micron filter should be provided in return line of hydraulic system.
- All hydraulic components should be easily accessible for inspection.

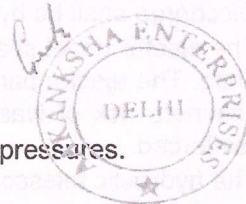
**HYDRAULIC VALVES:**

All the valves provided shall be of reputed make and of international standard. The valves shall be rated  $140 \text{ kg/cm}^2$  pressure.

**HYDRAULIC CYLINDERS:**

- All cylinders must be tested at 1.5 time the rated working pressures.
- There must be a minimum of 9 cylinders as follows :
  - a) 1 No.: Heavy duty Multi stage telescopic, double acting hydraulic cylinder for

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Ejection plate.

- b) 2 Nos.: Heavy duty double acting Hydraulic cylinder with spherical bearings at one end, for tailgate.
- c) 2 Nos.: Heavy duty double acting hydraulic cylinder with spherical bearings at one end, for carrier plate.
- d) 2 Nos.: Heavy duty double acting hydraulic cylinder with spherical bearings at one end, for packer plate.
- e) 2 Nos.: Heavy duty double acting hydraulic cylinder with spherical bearings at one end, for Bin lifter.
- Cylinder rods of all cylinders shall be constructed of high strength, hardened steel rods, centreless ground to an RMS smoothness rating of 8 and shall be hard chrome plate to a minimum thickness of 0.13 mm.
- Pin mounting connections of packer and compaction cylinders shall incorporate hardened spherical bushings on hardened pins where necessary.
- The cylinders should be of reputed make.

#### **HYDRAULIC RESERVOIR TANK AND FILTERS:**

The reservoir tank shall be minimum 200 liters capacity and includes a sight fluid level indicator, spin on return filter of 10 micron rating, suction line shut-off cock, and filter cap with chain to prevent loss.

#### **j) HIGH PRESSURE WASHING SYSTEM: (OPTIONAL)**

Stainless steel water storage tank of 750 Ltrs. and hydraulic motor driven Jetting Pump is provided for washing the internal walls of Compactor after dumping the garbage at garbage station. The pump operated by hydraulic direction control valve.

#### **k) SAFETY FEATURES:**

- Hose burst valve shall be fitted to the system to prevent the tailgate descending in the event of the hydraulic failure. Emergency stop switch shall be provided to stop all the operations instantaneously in case of emergency. The switch shall be provided on either side of the vehicle.
- There shall be a 'body prop' provided on the tailgate to hold the tailgate in the open position for safety of workshop personnel when entering the body for maintenance or repair.

#### **l) STANDARD ACCESSORIES**

- Following accessories as a part of the machine shall be provided alongwith each model to enhance the performance and safety features of the machines.
  - (i) Mud flaps - 2 nos.
  - (ii) Mud guard – 2 Nos.
  - (iii) Aluminium chequered plate lockable tool box – 1 No.

#### **m) PAINTING**

The entire unit shall be painted with two coats of superior quality anti-corrosive primer with two coats of approved quality paint. The bidder shall get the paints and shades approved from the

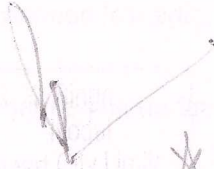
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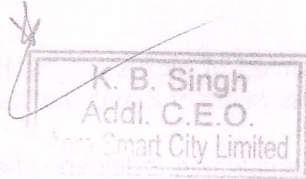




client.

## SPECIFICATION OF CHASSIS TIPPER TRUCK







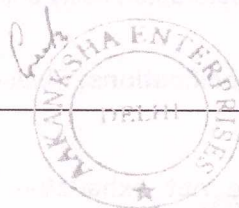
### SPECIFICATION OF CNG AUTO RICKSHAW

Name of the item/Equipment: - Two Stroke CNG Auto Rickshaw 145 CC Engine or Less

Chassis Only Quantity Required: - 25 No. Technical Specifications: -

<ul style="list-style-type: none"> <li>2 Displacement</li> <li>2 Max. Power, kW @</li> <li>2 rpm Max. Torque, Nm</li> <li>2 @ rpm Air cleaner</li> <li>2 type</li> <li>2 Clutch Type</li> </ul>	<ul style="list-style-type: none"> <li>. 145.45 cc or less</li> <li>. 4.9 kW or less @ 5000 rpm</li> <li>. 10.8 N.m or less @ 3500 rpm</li> <li>. Foam element</li> <li>. Wet multidisc type</li> </ul>
• Transmission	• 4 Forward + 1 Reverse
• Chassis Type	• Monocoque
Suspension: 1. Type / Description 2. Spring 3. Shock absorbers	1. Front – Swing arm with Antidive Link, Rear – Swing arm. 2. Front - Helical coil compression spring, Rear - Helical coil compression spring 3. Front - Hydraulic, double acting, Rear – Hydraulic, double acting.
Brake: 3. Service brake (Brief description) 4. Wheel rim size 5. Tyre size Front & Rear	1. Single control, right foot operated hydraulic brakes with TMC 2. Front-3.00 x8,Rear-3.00 x8 3. Front & Rear - 4.00-8, 4PR
Electrical: 8. System voltage, V 9. Battery rating, Ah 10. Wiper motor 11. Wiping system (Brief description)	1. 12V,AC+ DC 2. 12 V, 9 A.h 3. Electrical 4. Single speed electrical wiper motor with wiper arm and blade
Dimensions: 1. Wheel base, mm 2. Overall width, mm 3. Overall length, mm 4. Overall height, mm 5. Rear track, mm 6. Min. ground clearance, mm	4. 2000 5. 1300 6. 2625 7. 1710 8. 1150 9. 200
Weights: 1. Maximum GVW, kg 2. Kerb weight ,kg	. 665 or less . 335 or less

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## Technical Proposal for Transfer Station

### 1. Essential Details of Items / Services required

#### 1.1. Scope of Project/ Objective of the Project:

Construction and Installation of Solid Waste Transfer Stations at two locations in the Agra City with Defect Liability Period of 1 Year. The Civil Structure to be constructed shall be constructed using First Class materials as per the state Schedule of Rates.

The Scope of work also includes the following works:

Site filling/ Levelling	The detail is attached in the Annexure-1
Earth Compacting	
Filling of Aggregate / PCC bed	
CC & RCC Work as per drawing	
Brickwork as per drawing	
Finishing Work including Plastering, Painting & Tile work	
MS Truss work on hollow pipe for roofing	
ACP Cladding as per drawing wherever applicable	
Aluminum Roofing	
MS Rolling shutter	

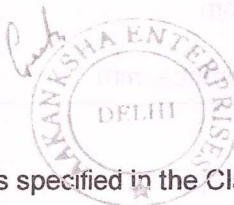
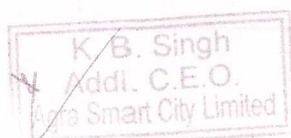
The successful bidder may also carry out the following works:

- Detailed topographical survey and preparation of contour plan of the site
- Site clearance and preparatory works
- Excavation, as per requirement
- Greenbelt development/ compensatory greenbelt development
- Washing area and water storage
- Vehicle minor repair/ maintenance area
- Office/ admin room/ Toilet/ washroom
- Control boundary wall along the periphery
- Wastewater disposal mechanism
- Water pump and other electro-mechanical items, as applicable
- Site restoration, utility shifting work, if any

**Design & Specifications:** Please refer ANNEXURE-1.

#### 1.2. Scope not exhaustive

The Scope of Services specified in the Clause above are not





exhaustive and the Successful Bidder shall undertake such other tasks as may be necessary to appraise the project feasibility technically and financially.

### 1.3. Completion Time Schedule

The work covered under this Bidding Document and, in particular, in the Technical Specifications of the Bidding Document shall be commissioned at the Site within the completion period i.e, 6 months specified in the Technical Specifications from the effective date of Contract.

- 1.4. In case the Successful Bidder fails to achieve the completion of the commissioning and establishing agreed guaranteed technical parameters within the period specified in the Technical Specification from the effective date of Contract, the Authority, without prejudice to its other remedies under the contract, shall levy a penalty on the Bidder at the rate of one percent of the Contract Price per week of delay or part thereof subject to maximum of ten percent of the Contract Price. Once the maximum is reached, ASCL may consider termination of the contract.

### 1.5. Special conditions of contract:

- 1.5.1. The contractor shall ensure presence of at least one site in charge/supervisor in the construction area all the time for better control.
- 1.5.2. The contractor shall deploy adequate resources, tools and tackles etc. so as to suit the smooth functioning of works and shall submit the list of the equipment he proposes to deploy with standardization.
- 1.5.3. There must be 1-year comprehensive Defect Liability Period (DLP) from the date of completion of work/handing over to Agra Smart City Limited, Agra.
- 1.5.4. During DLP, in case of any written report from Agra Smart City Limited about any manufacturing defect, if not rectified within Seven Days from the day of written report, ASCL will impose penalty of Rs 500.00 per day.
- 1.5.5. Under the definition of warranty, the manufacturing defects/faults liability shall be covered with all the items in the executed work including all parts of civil works/on site construction.
- 1.5.6. During the one years of Operation & Maintenance, entire project will be maintained by the successful Bidder. Machines, Materials, Equipment and labours are to be arranged by the successful bidder.
- 1.5.7. If there is some damage to the structure made, the repair work shall be executed by the tenderer immediately

- 1.6. **Advance Payments.** No advance payment (s) will be made.

- 1.7. **Transfer and Sub-letting:** The bidder has no right to give, bargain, sell, assign or sublet or otherwise dispose off the contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present contract or any part thereof.

- 1.8. **Warranty.** The following Warranty will form part of the contract placed on successful bidder.

- a) The bidder warrants that the goods supplied under the contract conform to technical specifications prescribed and shall perform according to the said technical specifications.
- b) The Bidder commits for a period of 1year from the date of acceptance of stores by joint receipt inspection or date of installation and commissioning, whichever is later, that the goods/stores supplied under the contract and each component used in the manufacture thereof shall be free from all types of defects/failures.
- c) If within the period of warranty, the goods are reported by the authority to have failed to perform as per the specifications, the bidder shall either replace or rectify the same free of charge, within a maximum period of 10 days of notification of such defect received by the bidder. Warranty of the equipment would be extended by

K. B. Singh  
Addl. C.E.O.  
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such duration of downtime. Record of the down time would be maintained by the user in the logbook. Spares required for warranty repairs or defect liability period shall be provided free of cost by the bidder. The bidder also undertakes to diagnose, test, adjust, calibrate and repair/replace the goods/equipment arising due to accidents by neglect or misuse by the operator or damage due to transportation of the goods during the warranty period, at the cost mutually agreed to between the authority and the bidder. Spares required for post defect liability period shall be chargeable.

**1.9. Fall clause.** The following fall clause will form part of the contract placed on successful bidder.

- a) The price charged for the stores supplied under the contract by the bidder shall in no event exceed the lowest prices at which the bidder sells the stores or offer to sell stores of identical description to any persons/Organization including the purchaser or any department of the Central Government or any Department of State Government or any statutory undertaking the Central or State Government as the case may be during the period till performance of all Supply Orders placed during the currency of the rate contract is completed.
- b) If at any time, during the said period the Bidder reduces the sale price, sells or offer to sell such stores to any person/ organization including the Authority or any Dept. of central Govt. or any Department of the State Government or any Statutory undertaking of the Central or state Government as the case may be at a price lower than the price chargeable under the contract, he shall forthwith notify such reduction or sale or offer of sale to the Director General of Supplies & Disposals and the price payable under the contract for the stores of such reduction of sale or offer of the sale shall stand correspondingly reduced.
- c) The bidder shall furnish the following certificate to the Authority along with each bill for payment for supplies made against the Rate contract – *"We certify that there has been no reduction in sale price of the stores of description identical to the stores supplied to the Government under the contract herein and such stores have not been offered/sold by me/us to any person/organization including the purchaser or any department of Central Government or any Department of a state Government or any Statutory Undertaking of the Central or State Government as the case may be up to the date of bill/the date of completion of supplies against all supply orders placed during the currency of the Rate Contract at price lower than the price charged to the Government under the contract"*.

**1.10. Franking clause.** The following Franking clause will form part of the contract placed on successful bidder.

- a) **Franking Clause in the case of Acceptance of Goods** - "The fact that the goods have been inspected after the delivery period and passed by the Inspecting Officer will not have the effect of keeping the contract alive. The goods are being passed without prejudice to the rights of the authority under the terms and conditions of the contract".
- b) **Franking Clause in the case of Rejection of Goods** - "The fact that the goods have been inspected after the delivery period and rejected by the Inspecting Officer will not bind the Authority in any manner. The goods are being rejected without prejudice to the rights of the authority under the terms and conditions of the contract."

K. B. Singh  
Asst. C.E.O.  
Agra Smart City Limited





- 2. Specification.** The following Specification Clause will form part of the contract placed on successful bidder. The bidder guarantees to meet the specifications as per RFP and design proposal submitted and to incorporate the modifications to the existing design configuration to meet the specific requirement of the Authority as per modifications/requirements recommended. All technical literature and drawings shall be amended as the modifications by the bidder before execution to the Authority. The Bidder, in consultation with the Authority, may carry out technical up-gradation/alterations in the design, drawings and specifications due to change in manufacturing procedures, indigenization or obsolescence. This will, however, not in any way, adversely affect the end specifications of the equipment. Changes in technical details, drawings, and repair and maintenance techniques along with necessary tools as a result of up-gradation / alterations will be provided to the authority free of cost within 60 days of affecting such up-gradation/alterations.
- 2.1. Quality Assurance.** Bidder would provide the Standard Acceptance Test Procedure (ATP) within 1 month of the date of contract. Authority reserves the right to modify the ATP. Bidder would be required to provide all test facilities at his premises for acceptance and inspection by Authority. The details in this regard will be coordinated during the negotiation of the contract. The item should be of the latest manufacture, conforming to the current production standard and having 100% defined life at the time of delivery.
- 2.2. Inspection agency:** Item should meet ISO/ISI standard specification. Inspection will be carried out by ASCL.
- 2.3. Inspection Authority.** The Inspection will be carried out by an Officer / Agency / Institution detailed by the Chief Executive Officer, Agra Smart City Limited. The mode of Inspection will be User Inspection. The items will be subjected to detailed Acceptance Testing Procedure (ATP) to test individual components and successful integration of all components. The vendor and the user will work out the details of the procedure jointly. The specifications of the equipment should be in conformity with the details provided by the vendor and as per the given specifications. The user would issue an Acceptance Certificate on successful completion of acceptance testing after delivery. The date of issuing the Acceptance Certificate would be deemed to be the date on which the warranty will commence.

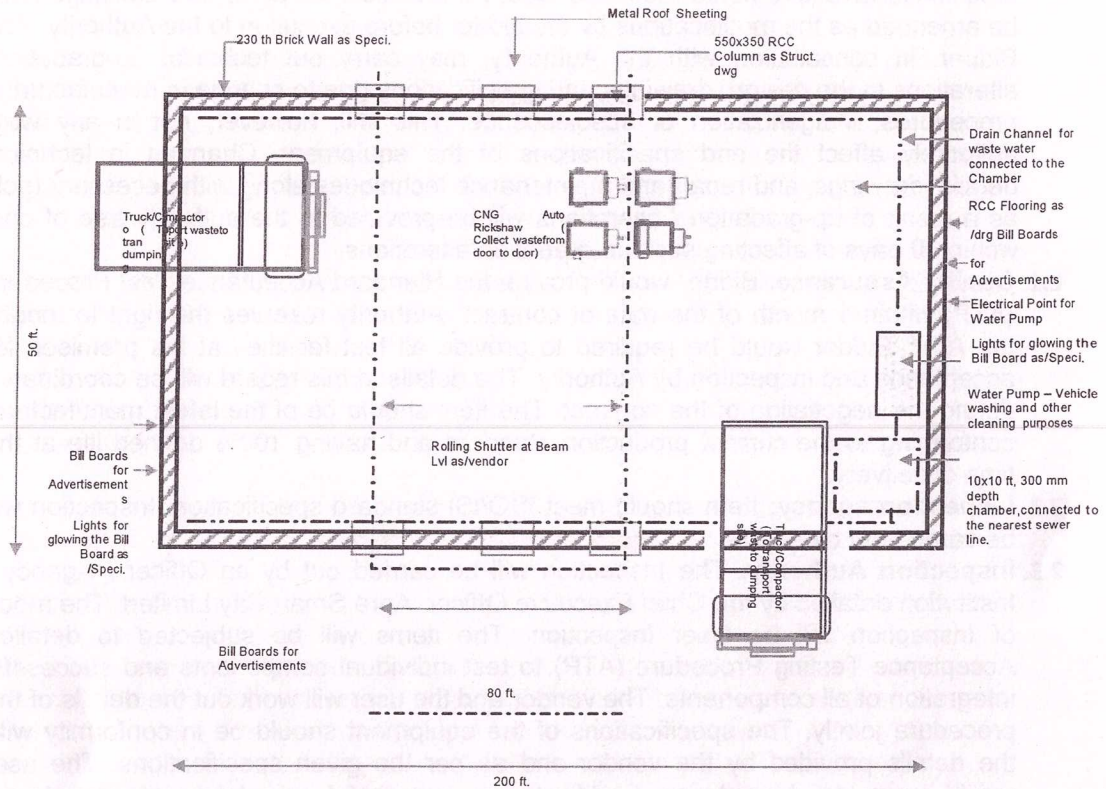
K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited





Request for Proposal for selection of agency Establishing Municipal Solid Waste Management in Taj Ganj  
area for Agra  
under smart city mission for the ABD area.-Third Call

**ANNEXURE – 1 DESIGNS, DRAWINGS & SPECIFICATIONS OF TRANSFER STATION**



**Project: Proposed Transfer Station for Municipal Solid Waste**

**Drawing Title: Layout Plan**

**Client: Agra Smart City Limited, Agra**

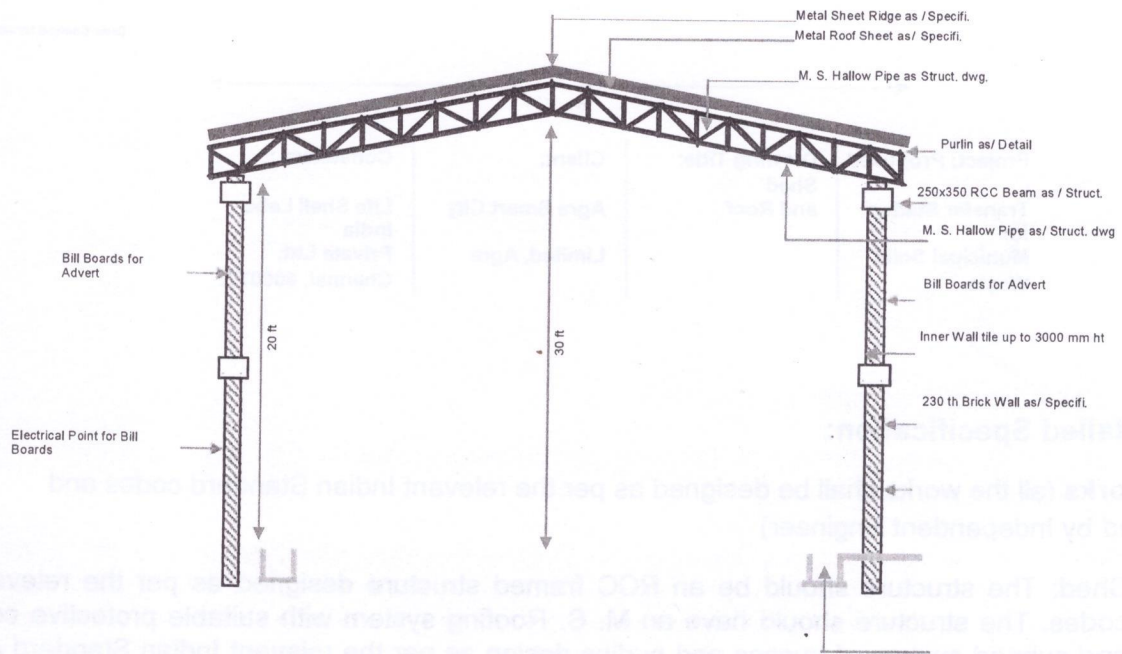
**Consultant : Life Shell Labs India Private Ltd, Chennai, 600077.**

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited





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Electrical Point for Bill Boards

Drain Channel for waste water

50 ft			
Project: Proposed	Drawing Title:	Client:	Consultant :
Transfer Station for Municipal Solid Waste	Shed and Roof	Agra Smart City Limited, Agra	Life Shell Labs India Private Ltd, Chennai, 600077.

### Detailed Specification:

**Civil Works** (all the works shall be designed as per the relevant Indian Standard codes and approved by Independent Engineer)

- **Shed:** The structure should be an RCC framed structure designed as per the relevant IS codes. The structure should have an M. S. Roofing system with suitable protective coating and support system of trusses and purlins design as per the relevant Indian Standard codes and attached design and drawings. The structure should be covered by brick masonry walls from all sides and have openings with ventilators and rolling shutters large enough for the movement of vehicles for the project.
- **Concrete flooring:** The flooring should be impermeable and designed to withstand the load impacts from the vehicles used for collection and transportation of waste. The floor should further be able to withstand the load from the portable compactors.
- **Drainage system:** The leachate generated from the compaction of waste should be collected from the drains and connected to the nearest ETP/STP.

K. B. Singh  
Addl. C.E.O.  
Agra Smart City Limited

