TENDER
FOR REFURBISHMENT OF INFRASTRUCTURE AT NSIC TECHNICAL SERVICES CENTRE, BHAV NAGAR ROAD, AJI INDUSTRIAL ESTATE, RAJKOT

ISO 9001:2008

THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.

(A Government of India Enterprise)

NSIC TECHNICAL SERVICES CENTRE,
BHAV NAGAR ROAD,
AJI INDUSTRIAL ESTATE,
RAJKOT-360003

Tel: 0281-2387613, 2387397/98 Fax: 0281-2387729

Email- Email: ntscraj@nsic.co.in **Website:** http://www.nsic.co.in

THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.
(A GOVERNMENT OF INDIA ENTERPRISES)
NSIC Technical Services Centre,
Bhav Nagar Road, Aji Industrial Estate, Rajkot-360003.

Ref: - NTSC/RAJ/P&A/CIVILWORKS/16-17/01 **Date:** 24.11.2016

M/s. ----------

Sub: Tender for refurbishment of sheet metal shop, auditorium building and 1st floor of Admn. Building at NSIC Technical Services Centre (NTSC), Rajkot.

Sir,

Tender document in respect of the above mentioned works containing 56 pages as detailed on page 4 (Index) are forwarded herewith. **Please note that tender is to be delivered in the office of the Deputy General Manager, NSIC Technical Services Centre, Bhav Nagar Road, Aji Industrial Estate, Rajkot 360003 on 15.12.2016 up to 3.00 P.M.**

The Tender should be signed on each page, dated and witnessed in all places provided for in the documents; all other papers should be initialed.

The tender should be accompanied by Earnest Money Deposit in the form of demand draft as mentioned in Appendix. Tenders without earnest money deposit shall be summarily rejected. The tenders will be opened at **3.30 P.M**. on **15.12.2016.**

The person, signing the tender on behalf of company/firm or on behalf of another person shall attach with tender a certified copy of proper authority/power of attorney on a non-judicial stamp paper of requisite value duly executed in his favour by such person, company/firm and must state specifically that he has authority to sign such tenders for and on behalf of such person or company/firm as the case may be, and in all matters pertaining to the contract including arbitration clause.

This letter shall form part of the **"CONTRACT"** and must be signed and returned along with the tender documents.

Yours faithfully

Deputy General Manager,
NTSC, Rajkot

Encl. **56** Pages

Signature of the bidder

Tender Notice for refurbishment of sheet metal shop, auditorium building and 1st floor of Admn. Building at NSIC Technical Services Centre (NTSC), Rajkot

Ref: - NTSC/RAJ/P&A/CIVILWORKS/16-17/01 **Date: 24.11.2016**

Sealed item rate tenders are hereby invited on behalf of NSIC Ltd. from Experienced Contractors for following.

Name of the work	Estimated cost (Rs)	EMD (Rs)	Completion Time	Issue of Blank Tender Document	Last Date of Tender submission
Refurbishment of sheet metal shop, auditorium building and 1st floor of Admn. Building at NSIC Technical Services Centre (NTSC), Rajkot	143.52 lacs	2.87 lacs	90 days	From 24.11.2016 to 14.12.2016	15.12.2016 up to 3.00 PM

1. Blank tender documents (non-transferable) for above work shall be issued from 24.11.2016 to 14.12.2016 on working days from the address given below on payment of required tender fee of Rs. 1000/- (Rupees Two thousand five hundred only) (non-refundable) in the form of DD/pay order/bankers cheque in favour of "The National Small Industries Corporation Ltd.". The intending tenderers can also download the complete tender document available on the web site: www.nsic.co.in and submit the same along with requisite tender fee, earnest money deposit and supporting documents on or before the due date and time of submission. Tenderers registered with National Small Industries Corporation under Single Point Registration Scheme shall be exempted from cost of tender. However, they have to submit valid certificate issued by NSIC.

2. Intending tenderers should have valid registration with Service tax/Sales tax/Works Contract tax authorities.

3. **The intending tenderers should have satisfactorily completed at least one similar nature work of 80% of the estimated cost put to tender or two similar nature works each of 60% of the estimated cost put to tender or three works each of 40% of the estimated cost put to tender during last five years. Similar nature work means building/shed construction/refurbishing work only.**

4. Tender documents can be purchased from the office of the Deputy General Manager, NSIC-Technical Service Centre, Bhav Nagar Road, Aji Industrial Estate, Rajkot- 360003 on all working days between 10.00 am to 5.00 pm except on holidays and Saturdays Sundays, after payment of requisite tender cost as mentioned above.

5. The tender documents duly completed along with EMD in form of demand draft/pay order in favour of the "The National Small Industries Corporation Ltd." payable at Rajkot from any Nationalized Bank/scheduled bank will be submitted at the office of the DGM,,NSIC-Technical Services Centre, Bhav Nagar Road, Aji Industrial Estate, Rajkot – 360003 upto 3.00 P M on 15.12.2016. Technical bid of the parties shall be opened on the same day (i.e due date of submission) at 3.30 PM. The tender without EMD shall be summarily rejected.

6. NSIC reserves the right to reject any or all the tenders without assigning any reason thereof and also not bound to accept lowest tender. Tenders in whom any of the prescribed conditions are not fulfilled or found incomplete in any respect are liable to be rejected.

7. Canvassing, whether directly or indirectly in connection with tender is strictly prohibited and the tender submitted by the contractors who resort canvassing will be liable to be summarily rejected.

8. The technical bid submitted by the parties shall be opened on the same day i.e. last date of submission at 3.30 pm in the presence of tenderers who wish to be present. The price bids of technically qualified parties shall be opened at a later date and the technically qualified parties shall be informed in advance about the opening of their price bid.

Deputy General Manager,
NTSC, Rajkot

THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.
(A GOVERNMENT OF INDIA ENTERPRISES)
NSIC Technical Services Centre,
Bhav Nagar Road, Aji Industrial Estate, Rajkot-360003.

Ref: - NTSC/RAJ/P&A/CIVILWORKS/16-17/01 **Date: 24.11.2016**

INDEX OF TENDER DOCUMENTS

INSTRUCTIONS TO TENDERERS

1.0 GENERAL

Tenderers are advised to acquaint themselves fully with the description of work, scope of services, time schedule and terms and conditions including all the provisions of the tender document before framing up their tender.

2.0 SITE PARTICULARS

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to nature of work, site conditions, means of access to the site etc. Non-familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the work in strict conformity with the specifications. For site visit and any clarification / information/Assistance, the intending tenderers may contact ***DGM, NSIC-Technical Service Centre, Bhav Nagar Road, Aji Industrial Estate, Rajkot – 360003.***

3.0 SUBMISSION OF TENDER

a) The expression "Tender Notice" referred to in the Tender Documents shall be deemed to include any Notice / Letter Inviting Tender with respect to the work forming the subject matter of the documents and vice-versa.

b) The tender complete in all respects shall be submitted along with Earnest Money as stipulated in the Notice / Letter Inviting Tender ONLY. Tenders without Earnest Money Deposit will be out rightly rejected.

Tenders shall be submitted in two separate sealed envelopes Super scribing as following: -

ENVELOPE – I (TECHNICAL BID)

Name of work	**:**Refurbishment of sheet metal shop, auditorium building and 1st floor of Admn. Building at NTSC, Rajkot
Tender no.	: NTSC/RAJ/P&A/CIVILWORKS/16-17/01
Due date & time of opening	: 15.12.2016 at 3:30 PM
Addressed to	: Deputy General Manager, NSIC-Technical Service Centre, Bhav Nagar Road, Aji Industrial Estate, Rajkot – 360003**.**

From:
Name & Address of the tenderer
This envelope shall contain the following: -

- EMD should be in the form of Demand Draft drawn on a scheduled/nationalized bank in favour of ‘‘NSIC Ltd.” payable at Rajkot. Cheque will not be accepted.

- Details of one work of 80% tender value or two works each 60% tender value or three works each of 40% of the estimated cost put to tender executed by the bidder during last five years, on the basis of which bidder wishes to get qualified and copies of supporting work orders and completion certificate should be enclosed. **In case of completion certificate issued by the private institutes, TDS certificate should also be enclosed**.

- Valid service tax number.

- Partnership Deed in case of partnership firm and Articles of Association in case of limited Company.

- Power of Attorney in favour of person who has signed the tender documents. In case of company, the authority to sign the tender is to be given under Board resolution.

- Copies of PAN/TAN card

ENVELOPE – II **(PRICE BID)**

Name of work	: Refurbishment of sheet metal shop, auditorium building and 1st floor of Admn. Building at NTSC, Rajkot
Tender no.	: NTSC/RAJ/P&A/CIVILWORKS/16-17/01
Addressed to	: Deputy General Manager, NSIC-Technical Service Centre, Bhav Nagar Road, Aji Industrial Estate, Rajkot – 360003

From: Name & address of the tenderer

NOTE: This part shall contain the tender document, total price to be charged by the tenderers for executing the work, complete in all respect. It is to be noted that the sealed envelope containing this part shall contain only **PRICES** and no conditions i.e. deviations / assumptions / stipulations / clarifications / comments / any other request whatsoever and the conditional offers will be rejected.

4.0 QUALIFYING CRITERIA

`Tenderers having following valid documents will be technically qualified and considered for opening of their price bid. Technically qualified parties have no right to claim for award of the work. Corporation reserves the right to cancel or award the work to any party/tenderers.

i) Details of one work of 80% tender value or two works each 60% tender value or three works each of 40% of the estimated cost put to tender executed by the bidder during last five years.
ii) Valid service tax, PAN, TAN card registration number.

5. ABNORMAL RATES

The tenderer is expected to quote rate for each item after careful analysis of costs involved for the performance of the complete item considering technical specifications and conditions of contract. This will avoid a loss of profit or gain in case of curtailment or change of specifications for any item. If it is noticed that the unit rates quoted by the Tenderer for any items are usually high or unusually low, it will be sufficient cause for rejection of the tender unless the Corporation is convinced about the reasonableness of the unit rates on scrutiny of the analysis for such unit rate to be furnished by the tenderer on demand. Not withstanding anything there in stated, the rates once accepted by the Corporation shall be final and shall not be subject to any change either on account of un-workability of unit rates or on any other ground whatsoever.

6. DEVIATIONS TO TENDER CLAUSES

Tenderers are advised to submit the tender strictly based on the terms and conditions and specification contained in the Tender Documents and not to stipulate any deviations. Conditional tenders are liable to be rejected.

7. VALIDITY OF OFFER

Tender submitted by tenderers shall remain valid for acceptance for a minimum period of 120 days from the date of opening of the tenders. The tenderers shall not be entitled during the said period of 120 days, to revoke or cancel their Tender or to vary the Tender given or any term thereof, without the consent in writing of the Owner. In case of tenderers revoking or canceling their tenders or varying any terms in regard thereof without the consent of owner in writing, Corporation shall forfeit Earnest money paid by them along with their tender without giving any notice.

8. AWARD OF WORK

Corporation reserves the right to split the job into two or more parts and to award the work to separate agencies/contractors. Work shall be awarded to the lowest bidder, subject to the work experience and fulfillment of other terms & conditions and specifications

9. ACCEPTANCE / REJECTION OF TENDER

i). Corporation does not bind itself to accept the lowest tender.
ii). Corporation also reserves the right to accept or reject any tender in part or full without assigning any reason whatsoever.
iii). Corporation also reserves the absolute right to reject any or all the tenders at any time solely based on the past unsatisfactory performance by the bidder(s) the opinion/decision of NSIC regarding the same shall be final and conclusive.

10. CORRECTIONS;

No corrections or overwriting will be entertained in schedule of rates by using correcting fluid. All correction in the schedule of rate should be initialed.

11. FIRM RATES

The rates quoted by bidder shall remain firm till completion of all works even during the extended period, if any, on any account whatsoever. It may be noted that no deviation on this account will be acceptable and offer not containing firm price shall not be considered.

12. It will be obligatory on the part of the tenderer to sign the tender documents for all the components & parts. After the work is awarded, he will have to enter into an agreement on proforma to be provided by the Corporation for work awarded, on a non-judicial stamp paper of requisite value at his own cost within ten days from date of receipt of acceptance order or before the work is undertaken.

13. Any addendum/ corrigendum issued shall form a part of the tender document. There will not be any press notification on amendment/ corrigendum. The purchasers of the tender document/ the prospective tenderers are required to visit NSIC website and CPP Portal for all such amendments/ corrigenda to NIT as well as the tender document.

Deputy General Manager,
NTSC, Rajkot

GENERAL CONDITIONS OF CONTRACT

1. Where the context so requires, words importing the singular only also include the plural and vice versa.

2. Corporation shall mean 'The National Small Industries Corporation Ltd. (A Government of India Enterprise) "NSIC Bhawan, Okhla Industrial Estate, New Delhi – 110020 and shall include their legal representatives, successors and permitted assigns.

3. Definition

a) The 'Contract' means and includes the documents forming the tender and acceptance thereof together with the documents referred to therein including the conditions, the specifications, designs, drawing and instructions issued from time to time by the 'Engineer-in-charge' the formal agreement executed between the Corporation and the Contractor, and all these documents taken together shall be complementary to one another.

b) The 'Site' shall mean the land and / or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.

c) The 'Contractor' shall mean the individual or firm or company, whether corporate or not, undertaking the works and shall include the legal personal representative or such individual or the persons composing such firm or company and the permitted assignee of such individual or firm or company.

d) The 'Competent Authority' means the Chairman cum Managing Director of the Corporation and his successors.

e) The Engineer-in-charge means the Technical Officer of the Corporation, as the case may be who shall supervise and be the In-charge of the works.

f) The DGM, means the officer who holds the charge of that post in the Corporation at NTSC, Rajkot during the currency of this agreement, to act on behalf of the Chairman of the NSIC Ltd.

g) 'IS Specification' means the Specification of latest edition with amendments, if any, up to time of receipt of tender by Corporation issued by the Bureau of Indian Standards as referred to in the specifications and / or work orders.

h) The 'Contract Sum' means the sum agreed, or the sum calculated in accordance with the prices accepted by the NSIC in the tender and / or the contract / negotiated rates payable on completion of the works.

i) The 'Final Sum' means the amount payable under the Contract by the Corporation to the Contractor for the full and entire execution and completion of works, in time.

j) The 'Date of Completion' is the date / date(s) for completion of the whole works, set out in the tender documents, or any subsequently amended by the Corporation.

k) A 'Week' means seven days without regard to the number of hours worked or not worked in any day in a week.

l) 'Excepted Risks' are risks due to riots (otherwise than among contractor's employees) and civil commotion (in so far as both these are uninsurable) war (whether declared or not), invasion act of foreign enemies, hostilities civil war, rebellion, revolution, insurrection military or usurped power, Acts of God, such as earthquake, lightening, unprecedented floods and other causes over which the contractor has no control and accepted as such by the Chief Competent Authority or causes solely due to use or occupation by the 'Corporation' of the part of works in respect of which a certificate of completion has been issued.

m) 'Urgent works' shall mean any urgent measures which in the opinion of the Engineer-in-charge, become necessary during the progress of the work to obviate any risk or accident or failure or which become necessary for security.

n) The 'Works' shall mean the works to be executed in accordance with the contract or part(s) thereof as the case may be and shall include all extra or additional, altered or instituted works or temporary and urgent works as required for performance of the contract.

4. Works to be carried out:

The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plant, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities shall, unless otherwise stated, be held, to include wastage on materials, carriage and cartage, carrying in return of empties hoisting, setting, fitting and fixing in position and all other labour necessary in and for the full and entire execution and completion as aforesaid in accordance with good practice and recognized principles.

5. Inspection of Site:

The Contractor shall inspect and examine the Site and its surrounding and shall satisfy himself before submitting his tender as to the nature of the ground and

subsoil (so far as is practicable), the form and nature of the Site, the quantities and nature of works and material necessary for the completion of the Works and the means of access to the Site, the accommodation he may require and in general shall himself obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect this tender. No extra charges consequent on any misunderstanding or otherwise shall be allowed.

6. Sufficiency of Tender:

The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which except as otherwise provided, cover all his obligations under the contract and all matters and things necessary for the proper completion and maintenance of the Works.

7. Discrepancies and Adjustment of Errors:

The several documents forming the contract are to be taken as mutually explanatory of one another:

7.1(A) In the case of discrepancy between Schedules of quantities, Specifications and / or the Drawings, the following order of preference shall be observed.

a) Description in Schedule of Quantities.

b) Particular Specification and Special Conditions, if any.

c) General Specifications.

7.1(B) If there are varying or conflicting provisions made in any one documents forming part of the Contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document.

7.2 Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the Works comprised therein according to drawings and specifications or from any of his obligations under the Contract.

7.3.1 Inconsistencies/ Ambiguities in the price bid (schedule of quantities) shall be dealt with in accordance with the following rules: -

a) Since this is an Item Rate Tender, only rates quoted shall be considered. Any tender containing percentage below/ above the rates is liable to be rejected.
b) Rates quoted by the tenderer in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words.

However, if a discrepancy is found, the rates which correspond with the amount worked out by the tenderer shall be taken as correct.

c) Where the rates quoted by the tenderer in figures and words tally, but the amount is not worked out correctly, the rates quoted by the tenderer shall be taken as correct and not the amount.

d) Where rate(s) of item(s) has been quoted in figures leaving the words blank or vice versa, but the amount is not worked out as per the rate(s) quoted, the rates quoted by the tenderer (either in figures or words) shall be taken as correct and not the amount.

e) In the event no rate has been quoted for any item(s), leaving space both in figure(s), word(s) , and amount blank, it will be presumed that the contractor has included the cost of this/ these item(s) in other items and rate for such item(s) shall be considered as zero and work will be required to be executed accordingly.

8. Security Deposit:

Total security deposit shall be 10% of the accepted tender cost and shall be deposited/deducted by/from the contractor as following: -

a) Initial Security Deposit:

Contractor will deposit initially a five percent (5%) of the accepted tender cost as an initial security deposit within ten (10) days of receipt of the letter of intent/notification of acceptance of the tender by him. The earnest money deposited shall be converted into initial security deposit.

b) Balance Security Deposit

Balance five per cent (5 %) will be deducted @ 10% from each running bill till the overall deducted security deposit (Including initial security deposit) reaches to 10% of value of tender. However, if the value of tender i.e. actual execution exceeds the accepted value of tender, further deduction shall be effected @ 10% (Ten percent) of the value in excess of the accepted value of the Tender from running bills and final bill. Similarly, if the value as per actual execution is less than the tender value, the excess deducted amount shall be refunded to the CONTRACTOR along with final bill.

8.1 **Refund of Security deposit**: One half of the Security deposit refundable to the Contractor worked out on the basis of the value of work completed shall be refunded to the Contractor on the Engineer-In-Charge certifying in writing that the work has been completed satisfactorily subject to furnishing bank/ performance guarantee of equivalent amount.

8.2 On expiry of the Defects Liability Period Engineer-In-Charge shall, on demand from the Contractor, refund to him the remaining portion of the security deposit provided the Engineer-in-Charge is satisfied that there is no demand outstanding against the Contractor.

8.3 No interest shall be payable to the contractor against the Security Deposit furnished / recovered from the contractor, by the Corporation.

9. Deviations/Variations Extent & Pricing:

9.1 The Engineer-in-Charge shall have power (i) to make alteration in, omissions; from additions to, or substitutions for the original specification, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work, and (ii) to omit a part of the works in case of non-availability of a portion of the Site or for any other reasons, and the Contractor shall be bound to carry out the Works in accordance with any instructions given to him in writing signed by The Engineer-in-Charge and such alterations, omissions, additions or substitutions shall form part of the Contract as if originally provided therein and any altered, additional or substituted work which the contractor may be carried out on the same conditions in all respects including price on which he agreed to do the main work. Any alterations, omissions additions or substitutions ordered by the Engineer-In-Charge which in the opinion of the contractor changes the original nature of the Contract, he shall carry it out and the rates for such additional, altered or substituted work shall be determined by the Engineer-in-Charge as per clause 10 (i) to (iii) of the tender document.

9.2.1 The time of completion of the works shall in the event of any deviations resulting in additional cost over the Contract Sum being ordered be extended as follows if requested by the Contractor.

a) In the proportion which the additional cost of the altered additional or substituted work, bears to the original Contract sum; plus.

b) 25% of the time calculated in (a) above or such further additional time as may be considered reasonable by the Engineer-in-Charge.

10. Rates for Extra/Additional Items

i) If the rate for additional, altered or substituted item of work is specified in the Schedule of Quantities the Contractor shall carry out the additional, altered or substituted item at the same rate.

ii) If the rate for any altered, additional or substituted item of work is not specified in the schedule of Quantities the rate for that item shall be derived from the rate for the nearest similar item specified therein.

iii) If the rate for any altered, additional or substituted item of work cannot be determined in the manner specified in sub-paras (i) and (iii) above, the contractor shall within 7 days of the receipt of the order to carry out the said work, inform the Engineer-in-Charge under advice to the Accepting Authority of the rate which he proposes to claim for such item of work, supported by analysis of the rate claimed, and the Engineer-in-Charge shall, within One month thereafter, after give due consideration to the rate claimed by the Contractor determine the rate on the basis of market rate(s). In the event of the contractor failing to inform the Engineer-in-Charge within the stipulated period of time, the rate which he proposes to claim, the rate for such item shall be determined by the Engineer-in Charge on the basis of market rate(s) and shall be final.

11. Suspension of Works:

a) The contractor shall, on receipt of the order in writing of the Engineer-in-Charge, suspend the progress of the works or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary for any of the following reasons:

i) On account of any default on part of the Contractor; or

ii) For proper execution of the Works or part thereof for reasons other than the default of the Contractor; or

iii) For safety of the works or part thereof. The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the Engineer-in-Charge.

b) If the suspension is ordered for reasons (ii) and (iii) in sub-para (a) above. The Contractor shall be entitled to an extension of the time equal to the period of every such suspension plus 25%.

12. Time and Extension for Delay:

The time allowed for execution of the works as specified in the Appendix or the extended time as approved by NSIC in accordance with these conditions shall be the essence of the Contract. The execution of the works shall commence from the 10^{th} day after the date on which the Corporation issues written orders to commence the work or from the date of handing over of the site, which ever is earlier. If the Contractor commits default in commencing the execution of the work as aforesaid, Corporation shall without prejudice to any other right or remedy be at liberty to forfeit the earnest money absolutely.

12.1 As soon as possible after the Contract is concluded the Engineer-in-Charge and the Contractor shall agree upon a Time and Progress Chart. The Chart shall be

prepared in direct relation to the time stated in the Contract documents for completion of items of the works. It shall indicate the forecast of the dates of commencement and completion of various trades or sections of the work and may be amended as necessary by agreement between the Engineer-in-Charge and the Contractor within the limitations of time imposed in the Contract Documents.

12.2 If the work be delayed by

(a) Force majeure or

(b) Abnormally bad weather or

(c) Serious loss or damage by fire, or

(d) Civil commotion, local combination of workmen strike or lockout, affecting any of the trades employed on the work, or

(e) Delay on the part of other contractors or tradesmen engaged by Corporation in executing work not forming part of the contract, or

(f) Any other cause which, in the absolute discretion of the authority mentioned in Appendix is beyond the Contractor's control;

Then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-Charge but shall nevertheless use constantly his best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Engineer-in-Charge to proceed with the Works.

12.3 Request for extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay. The Contractor may also if practicable, indicate in such as request the period for which extension is desired.

12.4 If any such case the competent authority may give a fair and reasonable extension of time for completion of the work. Such extension shall be communicated to the contractor by the Engineer-in-Charge and no compensation whatsoever for the extended period, if any shall be applicable/ payable.

14. The Contractor shall arrange, at his own expense, all tools, plant and equipment hereafter referred to as (T & P) labour, P.O.L. & electricity required for execution of the work.

14. FORCE MAJEURE

Any delays in or failure of the performance of either party herein shall not constitute default hereunder or give rise to any claim for damages, if any, to the extent such delays or failure of performance is caused by occurrences such as Act of god or the public enemy; expropriation or confiscation of facilities by Government authorities, or in compliance with any order or request of any Governmental authorities or due acts of war,
rebellion or sabotage or fires, floods, explosions, riots or illegal joint strikes of all the workers of all the contractors.

15. MATERIALS

1. All materials to be provided by the Contractor shall be in conformity with the specifications laid down in the contract and the Contractor shall, if requested by the Engineer-in-Charge, furnish proof to the satisfaction of Engineer-in-Charge in this regard.

2. The contractor shall indemnify the Corporation, its representatives or employees against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties or other charges which may be payable in respect of any article or material or part thereof included in the Contract. In the event of any claim being made or action being brought against the Corporation or any agent, servant or employee of the Corporation in respect of any such matters as aforesaid, the Contractor shall immediately be notified thereof.

3. All charges on account of octroi, terminal or sales tax and other duties on material obtained for the Works from any source shall be borne by the Contractor.

4. The Engineer-in-Charge shall be entitled to have tests carried out as specified as per relevant standard code of practice for any materials supplied by the Contractor even for those for which, as stated above, satisfactory proof has already been furnished, at the cost of the Contractor and the Contractor shall provide at his expense all facilities which the Engineer-in-Charge may require for the purpose. The cost of materials consumed in tests shall be borne by the Contractor.

5. Stores and Materials required for the works, brought by the Contractor, shall be stored by the Contractor only at places approved by the Engineer-in-Charge. Storage and safe custody of material shall be the responsibility of the contractor.

i. Corporation's officials concerned with the Contract shall be entitled at any time to inspect and examine any materials intended to be used in or on the works, either on the Site or at factory or workshop or other place(s) where such materials are assembled, fabricated or at any place(s) where these are lying or from where these are being procured and the contractor shall give such facilities as may be required for such inspection and examination.

ii All materials brought to the Site shall become and remain the property of the Corporation and shall not be removed off the Site without the prior written approval of Engineer-in-Charge of the Corporation. But whenever the works are finally completed the Contractor shall, at his own expense forthwith, but with the prior approval form the Corporation, remove from the Site all surplus materials originally supplied by him and upon such removal the same shall revert in and become the property of the contractor. However before given any approval as aforesaid the corporation shall be entitled to recover or adjust any amount given as advance to the Contractor.

16. Labour laws and payment of wages to be complied:

The contractor shall comply the labour laws in force. No labour below the age of eighteen years shall be employed on the works. The tenderer should make their own arrangement for the assign of all labour trained in the particular field of work preferably local.

The contractor shall obtain a valid license under the Contract Labour (R&A) Act,1970 and the Contract Labour (R&A) Central Rules, 1971, before the commencement of the work, and continue to have a valid license till completion of work. The contractor shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986. The contractor shall comply with the provisions of the Payments of wages act, 1936, Minimum wages Act, 1948, Employment liability Act, 1938, Workmen's compensation act 1923, Industrial dispute Act, 1947, the factories act 1948, mate benefit act 1961 and any statutory amendments or re-amendments thereof for the time being in force.

In respect of all laborers directly or indirectly employed in the work for the performance of the contractor's part of this contract, the contractor shall his own expense arrange the safety provision as per safety code framed from time to time by statutory authorities and shall his own expense provide for all facilities in connection therewith. Incase, the contractor fails to make arrangement and provide necessary facilities as aforesaid he shall be responsible for any compensation for each default and in addition the Engineer-In-Charge shall be at liberty to make arrangement and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

The contractor shall be fully liable for compliance of EPF or ESI of the labours/workmen deployed by them for carrying out the work as per prevailing Central or State government norms and the Corporation has nothing to do with the same. Corporation shall not be responsible for any liability/claims whatsoever in this regard. Further as and when demanded by the Corporation, the contractor shall submit the proof of deductions/ deposits of such liabilities of their labors/ workmen engaged in the work to the Corporation. In case of default, the Corporation may deduct the payments against these liabilities from the bills of the contractor or may stop the payment of the bill till such time until the compliance is proved y the contractor.

17. Liquidated Damages for Delay

17.1 Time is essence of the contract. In case the CONTRACTOR fails to complete the whole work within the stipulated period, and clear the site, he shall be liable to pay liquidated damages @ 0.5% (One Half of one percent only) of the value of contract per week and or part thereof of the delay subject to a maximum of 10% (ten percent only) of the value of the contract. The parties agree that this is a genuine pre-estimate loss / damage which will be suffered on account of delay on the part of the Contractor and the said amount will be payable on demand without there being any proof of the actual loss of damages caused by such delay.

17.2 The amount of Compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the Corporation.

18. Defects Liability Period :

The Contractor shall be responsible to make good and remedy at his own expense within defect liability period of one year from the date of completion of the work in all respect.

19. Contractor's Liability and Insurance

From commencement to completion of the works, the Contractor shall take full responsibility, care of and precautions to prevent loss or damage and to minimize loss or damage to the greatest extent possible and shall be liable for any damage or loss that may happen to the Works or any part thereof from any cause whatsoever (save and except the Excepted Risks) and shall at his own cost repair and make good the same so that, at completion, the works shall be in good order and conditions and in conformity in every respect with the requirements of the Contract and instructions of the Engineer-in-Charge.

19.1. In the event of any loss or damage to the Works or any part thereof or to any material or articles at the Site from any of the Excepted Risks the following provisions shall have effect:

a. The Contractor shall, as may be directed in writing by the Engineer-in-Charge, remove from the site any debris and so much of the works as shall have been damaged.

b. The Contractor shall, as may be directed in writing by the Engineer-in-Charge, proceed with the completion of the works under and in accordance with the provisions and Conditions of the Contract, and

19.2 Provided always that the Contractor shall not be entitled to payment under the above provisions in respect of so much loss or damage as has been occasioned by any failure on his part to perform his obligations under the Contract or not taking precautions to prevent loss or damage or minimize the amount of such loss or damage.

19.3 The Contractor shall indemnify and keep indemnified the Corporation against all losses and claims for injuries or damage to any persons or any property whatsoever which may arise out of or in consequence of the construction and maintenance of works and against all claims, demands proceedings, damages costs, charges and expenses whatsoever in respect of or in relation thereto. Provided always that nothing herein contained shall be deemed to render the Contractor liable for or in respect of or to indemnify the Corporation against any compensation or damage caused by the Excepted Risks.

19.4 Before commencing execution of the work, the Contractor shall, without in any way limiting his obligations and responsibilities under this condition, obtain and deposit with the Corporation-Contractors "All Risk Policy" and "Third Party" Insurance policy.

19.5 The Contractor shall at all times indemnify the Corporation against all claims, damages or compensation under the provisions of Payment of Wages Act, 1936, Minimum Wages Act. 1948, Employer's Liability Act, 1938 the Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947 and the Maternity Benefit Act. 1961 or any modifications thereof or any other law relating thereto and rules made thereunder from time to time.

19.6 The Contractor shall prove to the Engineer-in-Charge from time to time that he has taken all the insurance polices referred to above and has paid the necessary premiums for keeping the policies alive till completion of the work.

19.7. All statutory deductions as applicable like TDS, sales tax/VAT shall be made from the due payment of the contractor.

19.8 No claim for interest will be entertained by the corporation in respect of any balance payments or any deposits which may be held up with the corporation due to any dispute between the corporation and contractor or in respect of any delay on the part of the corporation in making final payment or otherwise.

19.9 The contractor shall ensure that no materials/wastes/plant , equipments etc. are dumped at the site. In case any of the above items are dumped the contractor shall clear the same from the site by or before completion of the work at his own cost or otherwise NSIC will carry out the work at the contractor's risk and cost after 7 days notice.

19.10 The contractor will have to make their own arrangement for facilitating movement of labour to work site and back. Facilities are to be provided to labourers as per statutory provision and the same shall not entail or attract any extra cost to NSIC.

20. Safety Code:

20.1 The Contractor shall at his own expense arrange for the safety provisions as appended to these conditions or as required by the Engineer-in-Charge, in respect of all labour directly or indirectly employed for performance of the works and shall provide all facilities in connection therewith. In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid the Engineer-in-Charge shall be entitled to do so and recover cost thereof from the Contractor.

20.2 The contractor shall provide and maintain at his own expenses guards, fencing and matching when and where necessary or required by the Engineer-in-Charge for the protection of the works or for the safety and convenience of those employed on the works or the public.

20.3 The corporation shall not be liable for any accident, injury or for any other mishap caused to him/them/their employees/agents and labour employed by the contractor and for any kind of damage during the execution of the contract or work done. For any kind of such injury or loss caused to any person/persons mentioned herein above, the contractor shall be exclusively liable.

21. Cancellation of Contract in Full or in Part:

21.1 If the Contractor:

a. At any time makes defaults in proceeding with the Works with due negligence and continues to do so even after a notice in writing of 7 days from the Engineer-in-Charge; or

b. Commits default in complying with any of the terms and conditions of Contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Engineer-in-Charge; or

c. Fails to complete the works or items of work on or before the date(s) of completion, and does not complete them within the period specified in a notice given in writing in that behalf by the Engineer-in-Charge; or

d. Enters into a contract with the Corporation in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and the term of payment there have previously

been disclosed in writing to the Accepting Authority/Engineer-in-Charge; or

e. Offers or gives or agrees to give to any person in Corporation's service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or for bearing to do or having done any act in relation to the abstention or execution of this or any other Contract for the Corporation or

f. Obtains a Contract with the Corporation as a result of ring tendering or other non-bonafide methods of competitive tendering; or

g. Being an individual or any of its partner (in case of the Contractor is a partnership firm)at any time is adjudged insolvent or have a receiving order or order for administration of his estate made against him or shall take any proceedings for liquidation or composition (other than a voluntary liquidation for the purpose of amalgamation or reconstruction) under any insolvency Act for the time being in force or make any conveyance or assignment of his affective or composition or arrangement of the benefit of his creditors or purport so to do, or if any application be make under any insolvency Act for the time being in force for the sequestration of his estate or if a trust deed be executed by him for benefit of his creditors; or

h. Being a company, passes a resolution or the Court makes an order for liquidation of its affairs, or a receiver or manager on behalf of the debenture holders is appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or manager; or

i. Assigns, transfers sublets (engagement of labour on a piece-work basis or of labour with materials not be incorporated in the work shall not be deemed to be subletting) or attempts or assign, transfer or sublet the entire works or any portion thereof without the prior written approval of the Accepting Authority.

21.2 The Competent Authority may, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to the Corporation by written notice cancel the contract as a whole or in part as it may deem appropriate.

21.3 The Competent Authority shall on such cancellation, be entitled to:

a. Take possession of the site and any materials, construction plant, implements, stores, etc., thereon; and/or
b. Carry out the incomplete work by any means at the risk and cost of the Contractor.

21.4 On cancellation of the Contract, in full or in part, the Accepting Authority shall determine the quantum of amount, if any, recoverable from the Contractor for completion of Works or part of the works or in case the works or part of the works is not completed, the loss or damage suffered by the Corporation. In determining the amount credit shall be given to the Contractor for the value of the work, if any, executed by him up to the time of cancellation, the value of contractors material taken over and incorporated in the work and use of tackle and machinery

belonging to the Contractor.

21.5 Any excess expenditure incurred or to be incurred by the Corporation in completing the Works or part of the Works or the excess loss or damages suffered or may be suffered by the Corporation as aforesaid after allowing such credit shall be recovered from any money due to the Contractor or any account, and if such money is not sufficient the Contractor shall be called upon in writing to pay the same within 30 days.

21.6 If the Contractor shall fail to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the Contractor's unused materials, constructional plant, implements, temporary buildings, etc. and apply the proceeds of sale thereof towards the satisfaction of any sums due form the Contractor under the contract and if thereafter there be any balance outstanding from the Contractor, it shall be recovered in accordance with the provisions of the Contract.

21.7 Any sums in excess of the amounts due to the Corporation an unsold materials, constructional plant, etc. shall be returned to the Contractor, provided always that if cost or anticipated cost of the completion by the Corporation of the works or part of the works is less than the amount which the Contractor would have been paid had he completed the works on part of the works such benefit shall not accrue to the Contractor.

22. Liability for Damage, Defects or Imperfections and Rectification thereof:

22.1 If the Contractor or his workmen or employees shall injure or destroy any part of the building in which they may be working or any building, road, fence etc, continuous to the premises on which the work or any part of it is being executed, or if any damage shall happen to the work while in progress the Contractor shall upon receipt of a notice in writing in that behalf make the same good at his own expense. If it shall appear to the Engineer-in-Charge or his Representative at any time during construction or re-construction or prior to the expiration of Defects Liability Period, that any work has been executed with unsound, imperfect or unskilled workmanship or that any materials or articles provided by the Contractor shall, upon receipt of a notice in writing in that behalf from the Engineer-in-Charge, forthwith rectify or remove and re-instruct the work so specified in whole or in part, as the case may require or as the case may be, and/or remove the materials or articles at his own expense, notwithstanding that same may have been inadvertently passed, certified and paid for and in the event of his notice aforesaid, the Engineer-in-Charge may rectify or remove and re-execute the work and/or remove and replace with others the materials or articles complained of as the case may be, by other means at the risk and expense of the Contractor.

22.2 In case of repairs and maintenance works, splashes and dropping from white washing, painting, etc. shall be removed and surfaces cleaned simultaneously with completion of these items of work in individual rooms, quarters or premises, etc.

where the work is done, without waiting for completion of all other items of work in the contract. In case the Contractor fails to comply with the requirements of this condition, the Engineer-in-Charge shall have the right to get the work done by other means at the cost of the Contractor. Before taking such action, however, the Engineer-in-Charge shall give three days notice in writing to the Contractor.

23. Urgent Works:

If any Urgent work (in respect whereof the decision of the Engineer-in-Charge shall be final and binding) becomes necessary and Contractor is unable or unwilling at once to carry it out, the Engineer-in-Charge may by his own or other workpeople carry it out, as he may consider necessary. If the urgent work shall be such as the Contractor is liable under the contract to carry out at his expenses incurred on it by the Corporation shall be recoverable from the Contractor and be adjusted or set off against any sum payable to him.

24. PAYMENTS:

24.1 Payment shall be released as per the quantum of work executed in accordance to the instruction and drawings issued to the contractor. Any work executed by the contractor in violation to the tender specifications, drawings and direction of Engineer in charge shall constitute breach of agreement and shall not qualify for the measurement. The measurement shall be jointly recorded by the contractor and representative of NSIC. If Contractor intends to submit interim **R.A Bills, these should not be less than Rs 25.00 Lacs value of work executed.** All other statutory deductions and Security deposit as applicable shall be effected from each running bills.

24.2 No escalation will be paid even in extended period, if any.

24.3 All statutory deductions as applicable like TDS, sales tax/VAT, labour cess etc. shall be made from the due payment of the contractor.

25. **MOBILISATION ADVANCE**:

No mobilization advance whatsoever shall be paid for carrying out this work.

26. ARBITRATION:-

26.1 All questions and disputes relating to the meaning of the words, terms, specifications, operations, and instructions, mentioned in this contract and as to the quality of workmanship or performance of the contractor any other question, claim, right, matter, or thing whatsoever in any way arising out of or relating to the contract, specifications, operating instructions, orders or these conditions; or otherwise concerning the performance of the contract, the execution or failure to execute the same whether arising during the existence of the contract or after the termination of the contract, the same shall be

referred to the sole arbitrator appointed by the Chairman-Cum-Managing Director oftheCorporation.

26.2 The Arbitrator shall have power to call for such evidence by way of affidavits or otherwise as he thinks proper and it shall be the duty of the parties hereto to do or cause to be done, all such things as may be necessary to enable the Arbitrator to make the award without any delay. The Arbitrator shall give a separate award in respect of each dispute or difference referred to him. The venue of arbitration shall be at Rajkot. The Award of the Arbitrator shall be final, conclusive and binding on all parties to the contract.

26.3 The law under the Arbitration and Conciliation Act, 1996 as amended by Arbitration and Conciliation (Amendment) Act 2015 shall be applicable to such proceedings.

The cost of arbitration shall be borne by the parties to the dispute, as may be decided by the arbitrator(s).

Deputy General Manager
NTSC, Rajkot

SIGNATURE OF THE CONTRACTOR

FORM OF TENDER

To
The DGM,,
NSIC-TSC, Aji Industrial Estate,
Rajkot 360003

I/We have read and examined the following documents relating to……
……

(Name of the Work)

(a) Notice inviting tender.
(b) Instructions to Tenderers
(c) Technical Specifications
(d) General Conditions of Contract including Contractors, Labour Regulations, Model Rules for Labour Welfare and Safety Code appended to these conditions together with the amendments thereto if any.
(e) Special Conditions of contracts if any.
(f) Bill of Quantities

I/We hereby tender for execution of the works referred to in the aforesaid documents upon the terms and conditions contained or referred to therein and in accordance in all respects with the specifications, designs, drawings and other relevant details at the rates contained in Schedule and within the period(s) of completion as stipulated in Appendix.

In consideration of I/We being invited to tender, I/We agree to keep the tender open for acceptance for 120 days from the due date of submission thereof and not to make any modifications in its terms and conditions which are not acceptable to the Corporation.
A sum of Rs 2,87,000/- is hereby forwarded as Earnest Money Deposit in the form of Demand Draft in favour of "NSIC Ltd. ", payable at Rajkot.

If I/We fail to keep the tender open as aforesaid of make any modifications in the terms and conditions of the tender which are not acceptable to the Corporation, I/We agree that the Corporation shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Should this tender be accepted, I /We agree to abide by & fulfill all the terms conditions of aforesaid document.

If after the tender is accepted, I/we fail to commence the execution of the work as provided in the conditions. I/We agree that Corporation shall without prejudice to any other right or remedy is at liberty to forfeit the said earnest money absolutely.

Signature of bidder……

Duly authorized to sign the tender

Dated……

Witness……

Date…….

Address……

APPENDIX

1.	Competent Authority :	C.M.D. NSIC or his Authorized executives
2.	Earnest money/Security deposit	
	a) Estimated cost of the Works;	Rs. 143.52 Lacs
	b) Earnest money:	Rs 2,87,000/- in the form of DD /Pay order in favour of "The National Small Industries Corporation Ltd.", payable at Rajkot.
	c) Security Deposit	10%
3.	Time allowed for execution of work	90 days
4.	Authority competent to decide if "any other cause" of delay is beyond contractors control	CMD, NSIC or his authorised representative
5.	Liquidated Damaged	0.5% (one half of one percent) per week subject to a Maximum 10% value of the contract
6.	Defect Liability Period	12 months from the date of Completion of work in all respect
7.	Authority competent to reduce compensation	CMD NSIC or his authorized executive.

SPECIAL CONDITIONS

1. During working at site, some restrictions may be imposed by Engineer-in-Charge/Security staff of Corporation or Local Authorities regarding safety and security etc., the contractor shall be bound to follow all such restrictions/instruction & nothing extra shall be payable on this account.

2. No compensation shall be payable to the contractor for any damage caused by rains lightening, wind, storm, floods Tornado, earth quakes or other natural calamities during the execution of work. He shall make good all such damages at his own cost; and no claim on this account will be entertained.

3. No labour hutment shall be allowed in the premises. All labourers should leave the site after day's work. The security & Watch ward of site contractor materials/work etc. shall be at his cost only.

4. All rates quoted by the bidders shall remain firm for the contract period/extended contract period.

5. If the contractor fails to proceed with the work within the stipulated time as specified from the date of issue of letter of intent/letter to proceed with the work, the Corporation shall forfeit the earnest money deposited by him along with the tender.

6. **Execution of Work At Risk & Cost of Contractor**:

   The balance work, if any, left to be completed after the determination/ cancellation of the contract as per clause no. 21 of the 'General Conditions of Contract' shall be got executed by the Corporation as stipulated in the said clause at the risk and cost of the contractor and the additional expenditure, if any, incurred by the Corporation in getting the work executed in the manner stated above, the same shall be recovered from the dues of contractor. In case the dues of the contractor are not sufficient, the contractor shall be liable to deposit the excess amount incurred by the Corporation as communicated by the Engineer-in-charge within 30 days of written notice.

7. The work has to be executed in accordance with the latest CPWD specification mentioned in the Schedule of quantity and in case of any discrepancy the CPWD specifications with latest amendments if any, shall be followed. However, the decision of the Engineer-In-Charge in this regard shall be final and binding upon the contractor.

8. The materials used for carrying out the work shall be of best available quality and the contractor has to carry out the necessary testing of the material as ordered by the Engineer-In-Charge for its conformity and all testing charges shall be borne by the contractor.

9. All the civil works, if required, like fixing of load hooks, making chases in the wall, drilling of holes, fixing of doors and finishing of jambs, providing scaffolding for carrying out complete works shall be arranged by the contractor and making good the same. Nothing extra on theses account shall be considered or paid.

10. The contractor shall be fully responsible for the any injury or damage caused to the workmen deployed by him at site for carrying out the work and Corporation has nothing to do with such happenings and in no way shall be held responsible for the same.

11. Any statuary clearance pertaining to electrical work, if required shall be the responsibility of the contractor. Nothing shall extra will be payable on this account.

12. The preparation of working drawing and as built drawing related to electrical works shall be the responsibility of the contractor.

13. **The tenderer shall quote his rates exclusive of service tax. Service tax, as applicable shall be reimbursed on production of deposit challan of service tax in time for the project. The contractor must have valid service tax registration number commensurate with service to be provided and will provide copy of the same before release of any payment by NSIC.**

14. **All communication should be addressed *to Deputy General Manager, NSIC-Technical Service Centre, Bhav Nagar Road, Aji Industrial Estate, Rajkot 360003.***

Signature of bidder

List of Approved make

A. For Civil Works

Specification/brands names of materials (Refer materials, whichever are applicable for the scope of work) and finishes to be used for the work are listed below. However approved equivalent materials and finishes of any other specialized firms may be used, in case it is established that the brands specified below are not available in the market and subject to approval of the alternate brand by the Engineer-in-Charge,

Sl.No	Materials	Approved make
1	Cement (PPC, OPC)	ACC, ULTRATECH,VIKRAM, SHREE CEMENT, AMBUJA, JYPEE CEMENT, AND J.K. CEMENT
2	WHITE CEMENT	J.K. WHITE, BIRLA WHITE,TRAVANCORE
3	REIN FORCEMENT STEEL	SAIL, TATA STEEL Ltd., RINL,
4	STRUCTURAL STEEL SECTIONS	SAIL, TATA STEEL Ltd., RINL, JINDAL STEEL & POWER Ltd AND JSW STEEL Ltd.
5	SUPERPLASTICIZERS	MC BAUCHEMIE/FOSROC/SIKA/MBT/
6	WATER PROOFING COMPOUND(LIQUID)	PIDILITE/ FOSROC/ SNOWCEM/CICO/LATICRETE
7	STAINLESS STEEL	JINDAL STEEL, 'N' STYLE/D-LINE/ FABRINOX/SALEM STEEL
8	CERAMIC TILES	JOHNSON, KAJARIA/H
9	VITRIFIED TILES	H & R JOHNSON/KAJARIA/,RAK CERAMICS
10	HARDENDERS	IRONITE/FEROK/HARDONATE/FOSROC
11	FLUSH DOORS	GREEN/DURO/MARINO/MAYUR KANARA WOOD AND PLY INDUSTRIES/ ARCHID
12	WOODEN FRD SHUTTERS	NAVIER/SUKRI/PROMAT/KUTTY,
13	NATURAL WOOD VENEERS	SONEAR/GREEN PLY/TRUWOOD/MAYUR/ ARCHID
14	WATER BASED MELAMINE POLISH	ASIAN PAINTS / PIDILITE INDUSTRIES/ ICI DULUX
15	ANTI STATIC HIGH PRESSURE LAMINATE	FORMICA/BAKELITE HYLAM/DECOLAM MERINO
16	POLYSULPHIDE SEALANT	FOSROC/PIDILITE/TUFFSEAL/SIKKA
17	DASH FASTENERS	HILTI/FISCHER/BOSCH
18	ALUMINIUM EXTRUSIONS	HINDALCO/NALCO/JINDAL

19	HINGES & BRASSWARE	SHALIMAR/ INDO-BRASS/AMARBHOY DOSSAJI/EARL BIHAR/MAGNUM
20	ALL TYPES OF GLASS	ST. GOBAIN/ MODIGUARD/PILKINGTON/ AIS
21	FIRE-RATED GLASS (TWO HOUR FIRE RATING) TRANSPARENT CLEAR GLASS	ST. GOBAIN /PILKINGTON /SCHOTT
22	GYPSUM BOARD	ST. GOBAIN GYPROC GYPSUM
23	G I PIPE	TATA/JINDAL HISSAR/SURYA
24	GI FITTINGS (Malleable Cast iron)	ZOLOTO/UNIK,ICS
25	CPVC PIPES & FITTINGS	ASTRAL/ AJAY FLOWGUARD/ASHIRWAD/ PRINCE/SUPREME
26	CALCIUM SILICATE BOARD FOR FRD SHUTTERS	PROMATECT-H OF PROMAT/ PROMINA/ SUPALUX/ MASTER BOARD/STARPAN
27	ALL HARDWARE AND FITTINGS FOR ALL TYPES OF GLAZING, DOORS, WINDOWS ETC.	DORMA /HAFELE /GEZEI/KICH/GODREJ
28	STEEL FRD SHUTTER	SUKRI /SHAKTI/GODREJ/NAVAIR
29	STUD ANCHORS	HILTI/FISCHER/BOSCH
30	ANCHOR FASTENERS	HILTI/FISCHER/BOSCH
31	CLAMP SYSTEM FOR DRY STONE CLADDING	HILTI/FISCHER/BOSCH
32	MDF BOARD	NUWOOD/DURATUFF/BAZAZ
33	ADHESIVES	FEVICOL/ANCHOR/DUNLOP/PIDILITE
34	ADHESIVE FOR FLOOR VITRIFIED TILES, MARBLE STONE, GRANITE STONE ETC.I	LATICRETE/FERROUSCRETE/BALLENDURA
35	LACQUERED GLASS, MIRROR	SAINT GOBAIN/GLAVERBEL/MODIGUARD
36	WEATHER SILICON SEALANT	WACKER/DOW CORNING/McCOY/ SOUDAL
37	EPDM GASKET	HANU/ANAND
38	FIRE RETARDANT PAINTS	ASIAN PAINTS/BERGER PAINTS/SHALIMAR
39	PU FOAM	MM FOAM/SHIELA FOAM
40	EUROPEAN WC	JAQUAR/TOTO/KOHLER/PARRYWARE/ HINDWARE

41	WASHBASIN	JAQUAR/TOTO/KOHLER/PARRYWARE/ HINDWARE
42	URINAL	JAQUAR/HINDWARE/KOHLER
43	RCC PIPES	PRAGATI/LAKSHMI/SOOD & SOOD/JAIN & CO USHA
44	UPVC PIPES & FITTINGS	SUPREME/PRINCE/ASTRAL/KISAN/ FINOLEX
45	CEMENTOUS GROUT	XYPEX /FOSROC/KRYTONE
46	CRYSTALINE CEMENTIOUS WATERPROOFING COMPOUND	XYPEX/CONSRUCTION CHEMICALS/ KRYTONE
47	STAINLESS STEEL SINKS	NEELKANTH/NIRALI/CERA
48	SPUN CAST IRON PIPES & FITTINGS (IS:3989)	JAISWAL NECO/RIF/SKF
49	C.I. S/S PIPES & FITTINGS	JAISWAL NECO/SAINT GOBAIN/SKF/RIF
50	G.I. PIPE JOINTING MATERIAL	LOCTITE 55/DR.FIXIT
51	SS HINGED GRATING	GMGR/NEER/CHILLY
52	STONEWARE PIPES AND GULLY TRAPS	PERFECT/BURN/ANAND/PARRY
53	GUNMETAL VALVES (FULL WAY VALVE) CLASS-I	ZOLOTO/CASTLE/KARTAR
54	CI DOUBLE FLANGED SLUICE VALVE	KIRLOSKAR/IVC/SONDHI/KEJRIWAL
55	CI MANHOLE FRAME & COVERS AND GI GRATING	NECO/RIF/SKF
56	SANITARY ACCESSORIES	JAQUAR/KIMBERLY CLARKE/DLINE/ EURONICS/ CARL-F/KOHLER/ SHEARLING SKINS/ GROHE
57	SANITARY FITTINGS	JAQUAR /KOHLER/GROHE/TOTO/ PARRYWARE
58	STAINLESS STEEL DOOR HANDELS, LOCKS AND FITTINGS	DORMA/HAFELE/GEZE
59	FLOOR SRINGS, DOOR CLOSERS, PANIC BARS	DORMA/HAFELE/GEZE/
60	CALSIUM SILICATE BOARD FOR FALSE CEILING	GYPROC/BORAL/HILUX
61	ALUMINIUM SKIRTING	ALLOY/BOTTOMLINE/JEB
62	ALUMINIUM CHANNELS	ALLOY/BOTTOMLINE/JEB

63	MOISTURE RESISTANT BOARDS	ST. GOBAIN GYPROC/BORAL
64	FLOOR TRAPS	JAYNA/CHILLY/NIRALI
65	GRASS PAVERS	OVILITE/VICTORIA/VIRENDRA TEXTILES /UNISTONE
66	APP WATERPROOFING MEMBRANE	STP LTD/ TEXSA/ BITUMAT CO. LTD/TIKITAR/ DERMABIT

B- Electrical Items

S.No.	Item	Makes
1	Wire / cables	Havells, Finolex, KEI, Grandley, Polycab, National, Nicco.
2	Modular Boxes, Plates and switches	Legrand, North West, Havells, Siemens, L&T
3	DB's	Legrand, Havells, L&T, Siemens, Hager, ABB
4	PVC Conduits	BEC, AKG
5	Industrial Sockets & Plugs / AC Box	L&T, Siemens, Havells, C&S
6	Lights fittings	Phillips, Bajaj, GE, Wipro, Crompton, SYSKA
7	Cable Glands	Commet, Stepwell, Braco, Dopwells
8	UPS	Microtek, Exide, Sukam, Luminous, APC.
9	MCCB / MCB	Schneider, Siemens, Havells, L&T, ABB, Legrand, G.E.
10	LT Cables	Gloster, KEI, Polycab, Grandley, National, Gemsccab.
11	Ceiling Fans / Exhaust Fans / Fresh Air Fan	Crompton Greaves, Havells, Khaitan
12	LT Pannel	CPRI Approved Make vendor.

Note: The items not covered in list of approved make shall only be installed at site after taking prior approval of Engineer – In – Charge.

Bill of Quantities

Sr. No.	CPWD DSR Item No.	Decription	Unit	Quantity	Rate (Rs)		Amount (Rs)
					In Figures	In Words	
		EARTH WORK					
1	2.35.3.1	Diluting and injecting chemical emulsion for POSTCONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	210.4			
2	2.28.1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m. All kinds of soil.	100sqm	631.2			
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	18.5			
4	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.	cum	54.6			
5	2.7.1	Earth work in excavation by mechancal means (Hydraulic excavation) /manual means over areas (exceeding 30 cm in depth, 1.50 mtr in width as well as 10 Sqmtr on plan) including disposal of excavated earth -ordinary rock	Cum	11.395			

6	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.					
a	2.26.1	All kinds of soil	Cum	22.79			
b	2.26.2	Ordinary or hard rock	Cum	11.395			
7	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :					
a	2.10.1	All kinds of soil					
b	2.10.1.2	Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	meter	40			
		DISMANTLING AND DEMOLISHING					
8	15.7.4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	Cum	14.3796			
9	15.12	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead					
a	15.12.1	Of area 3 sq. metres and below	each	276			
b	15.12.2	Of area beyond 3 sq. metres	each	24			

10	15.28.2	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of : Asbestos sheet	sqm	105			
		BRICK WORK					
11	6.1.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:Cement mortar 1:4 (1 cement : 4 coarse sand)		17.0959			
12	6.4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	8.33635			
13	6.12.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in : Cement mortar 1:3 (1 cement : 3 coarse sand)	Cum	3.54			
14	6.13.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:3 (1 cement :3 coarse sand)	Sqm	27			
15	6.1.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in Cement mortar 6.1.2 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	2.16			
16	5.1.2	P/l in position specified grade of reinforcement cement concrete excluding the cost of centering and shuttering and finishing and reinforcement - all works up to plinth level in 1:1.5 :3 (1 Cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal	Cum	3.1348			

17	5.2.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size	cum	0.3			
18	5.22A.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars	kg	50			
19	5.9.3	Centering and shuttering propping etc. and removal of form for roofs	Sqm	23.2068			
20	5.9.5	Centering and shuttering including strutting, propping etc. and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	79.46			
21	5.22.6	Steel reinforcement for RCC work including straightening , cutting bending and placing in position and binding all complete upto plinth level for mild steel and medium tensile steel bars.	kg	450			
		FINISHING WORK					
22	13.1.1	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand	Sqm	96.7134			
23	13.2.1	15 mm cement plaster on the rough side of single or half brick wall of mix :1:4 (1 cement: 4 fine sand)	Sqm	39.525			
24	13.3.1	20 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand	Sqm	20.34			

25	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete	sqm	4788.815			
26	13.41.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water tinnable priming coat with cement primer (For inner side works)	sqm	7264.865			
27	14.64.1	Finishing walls with water proofing cement paint of required shade :Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litrs/10 sqm complete including cost of Priming coat (For outer works)	sqm	1975.65			
28	13.62.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	sqm	500.21			
29	13.50.3	Applying priming coat With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	sqm	2265			
30	14.54.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work	sqm	2265			
		REPAIRS TO BUILDING					

31	14.1.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground within 50 metres lead : With cement mortar 1:4 (1 cement : 4 fine sand)	sqm	215			
32	14.43	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	sqm	6704.64			
33	14.5.1	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of thickness 4 mm	sqm	114			
34	14.9	Renewal of old putty of glass panes (length)	metre	500			
		FLOORING					
35	11.3.1	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stoneaggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete.40 mm thick with 20 mm nominal size stone aggregate	sqm	16.0716			

36	11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete	sqm	2215.19			
37	11.13.1	Providing and fixing glass strips in joints of terrazo/ cement concrete floors. 40 mm wide and 4 mm thick	metre	2265			
38	11.41.2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	sqm	49.81			
39	11.42	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles	sqm	-49.81			
40	11.43	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness	sqm	49.81			
41	11.23.1	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with Makrana white second quality	sqm	3.6			

42	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigment etc, complete.	sqm	17.6			
43	11.36	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	sqm	151.41			
44	8.2.2.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Granite of any colour and shade Area of slab over 0.50 sq	sqm	3.375			

45	8.3.2	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Granite work	metre	12.5			
46	8.5	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	each	6			
47	12.20	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound, laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete (For ramp of shutter gate)	sqm	28			
		SANITARY INSTALLATIONS					
48	17.1.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each				

49	17.2.1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	each	3			
50	17.5.1	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	each	3			
51	17.7.4	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	each	6			
52	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete	each	8			
53	17.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	each	1			

54	17.28.2.1	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete Flexible pipe 32 mm dia .	each	9			
		WATER SUPPLY					
55	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank (Fitting and connecction charges are seperate.)	per litre	6000			
56	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc.					
a	18.8.1	15 mm nominal outer dia Pipes	metre	30			
b	18.8.2	20 mm nominal outer dia Pipes	metre	30			
c	18.8.3	25 mm nominal outer dia Pipes	metre	30			
d	18.8.4	32 mm nominal outer dia Pipes	metre	30			

57	18.9.5	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.	meter	20			
58	18.12.4	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. 32 mm dia nominal bore	meter	30			
59	18.12.5	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc- 40 mm dia nominal bore	metre	30			
60	18.21.1.1	Providing and fixing uplasticised PVC connection pipe with brass unions - 30 cm length- 15 mm nominal bore	each	15			
61	18.17.2	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 32 mm nominal bore.	each	2			
62	18.17.3	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 40 mm nominal bore	each	1			
63	18.49.1	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	each	8			
64	18.16.2	Providing and fixing brass stop cock of approved quality 20 mm nominal bore	each	2			
		STEEL WORK					

65	10.3	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer	sqm	22.4			
66	10.6.2	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 part 1 and M.S. top cover of required thickness for rolling shutters.80x1.20 mm M.S. laths with 1.20 mm thick top cover	sqm	22.275			
67	10.7	Providing and fixing ball bearing for rolling shutters	each	6			
68	10.2	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	kg	150			
		WOOD & PVC WORK					
69	9.48.2	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete .:Fixed to openings /wooden frames with rawl plugs screws etc	kg	7048			

70	9.123	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement , including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.	metre	39.6			
71	9.124.1	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mmx 1 mm, painted with primer , all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications and direction of Engineer-in-charge Non decorative finish	sqm	12.6			

72	9.1.2	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Sal wood	cum	0.0351			
73	9.21.2	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters 30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	15.54			
74	9.96.2	Providing and fixing aluminium sliding door bolts, ISI marked anodised anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete 250x16 mm	each	13			
75	9.97.2	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 250x10 mm	each	39			
76	9.100.1	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 125 mm	each	84			

77	9.101.2	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Twin rubber stopper	each	19			
		ROOFING					
78	12.47.1	Providing & fixing UV stabilised fiberglass reinforced plastic sheet roofing up to any pitch, including fixing with polymer coated 'J' or 'L' hooks, bolts & nuts 8mm dia. G.I plain/bitumen washers complete but excluding the cost of purlins, rafters, trusses etc. The sheets shall be manufactured out of 2400 TEX panel rovigs incorporating minimum 0.3% ultra-violet stabiliser in resin system under approximately 2400 psi and hot cured. They shall be of uniform pigmentation and thickness without air pockets and shall conform to IS 10192 and IS 12866.The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as specified. 2 mm thick corrugated (2.5" or 4.2" or 6") or step-down (2" or 3" or 6") as specified	sqm	39			
79	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.					
a	12.41.1	75 mm diameter	metre	30			
b	12.41.2	110 mm diameter	metre	30			

80	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.					
	12.42.1	Coupler					
a	12.42.1.1	75 mm	each	5			
b	12.42.1.2	110 m	each	10			
	12.42.3	Single tee with door					
c	12.42.3.2	110x110x110 mm	each	5			
	12.42.5	Bend 87.5°					
d	12.42.5.1	75 mm bend	each	3			
e	12.42.5.2	110 mm bend	each	5			
	12.42.6	Shoe (Plain)					
f	12.42.6.2	110 mm Shoe	each	5			

81	12.52	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main “T” runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross “T” of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main “T” at 600 mm center to center to form a grid of 1200x600 mm and secondary cross “T” of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main “T” runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge					

82	12.52.3	9 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	sqm				
		(Note- as per DSR item No. 12.5mm thick is not available)	sqm	728.16			
		ALUMINIUM WORK					
83	9.84	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	each	4			
84	21.4.1	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg, for doors, including cost of cutting floors, embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge With stainless steel cover plate minimum 1.25 mm thickness	each	4			

85	21.3.2	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge.(Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.50 mm thickness	sqm	457.92			
86	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately)					
	21.1.1	For fixed portion					
a	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron	kg	820			
b	21.1.2.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	kg	2900			

		DRAINAGE					
87	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :					
a	19.1.2	150 mm diameter	meter	20			
b	19.1.3	200 mm diameter	meter	20			
88	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :					
a	19.2.2	150 mm diameter S.W. pipe metre 724.70	meter	20			
b	19.2.3	200 mm diameter S.W. pipe	meter	20			
89	19.9	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :					

	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :					
	19.9.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	2			
90	19.19	Providing and fixing in position precast R.C.C. manhole cover and frame.					
	19.19.2	M D - 10					
	19.19.2.2	Circular shape 500mm internal diameter	each	2			
91	17.35	Providing and fixing soil, waste and vent pipes :					
	17.35.2	75mm diameter :					
	17.35.2.2	Centrifugally cast (spun) iron socketed pipe as per IS: 3989	meter	3			
92	19.32.1	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	1			
93	19.18.1	Supplying and fixing C.I. cover without frame for manholes : 455 x 610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	8			

94	19.4.1.1	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame o f 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: -100x100 mm size P type - With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	4			
		WATER PROOFING					
95	22.20.1	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscocity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :3 mm thick	sqm	539.44			

96	22.14.1	Grading roof for water proofing treatment with Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	cum	19.652			
97	15.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineerin-charge.	cum	19.652			
98	22.21	Extra for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	sqm	539.44			
99	12.21.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :In 75x75 mm deep chase	metre	167.2			

100	22.18.1	Providing and fixing APP (Atactic Polypropylene Polymer) modified prefabricated five layer 2 mm thick water proofing membrance, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrance manufacture of density at 25°C, 0.87 - 0.89 kg/ litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using Butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/ 5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacture of membrane. 2mm (for corrugated roof sheets)	sqm	2137			
		CONCRETE WORK					
101	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	Sqm	238.4			
102	4.1.8	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size	cum	6.15			

103	4.2.2	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor,etc., up to floor five level, excluding the cost of centering, shuttering and finishing 1:1½:3 (1 cement:1½ coarse sand:3 graded stone aggregate 20 mm nominal size)	cum	6.75			
104	13.7.1	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand	Sqm	180			
105	13.21	Extra for providing and mixing water proofing material in cement of plaster work in proportion recommended by the manufacturers	per bag of 50 kg cement used in the mix	35			
		STONE WORK					
106	7.1.1	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	4.5			
		NON SCHEDULED ITEMS					
107	A	Dismantling old electric appliances (fans, tube-lights etc) and conduct pipe wire etc and stacking as per direction of Engineer-in-charge (For each Building)	LOT	3			

108	B	Column repairing : Making Stagiging, Providing reinforcement where required and all repairing works by applying SBR chemical and rich Cement morter and make in proper line and level (total 20 columns to be repaired)(For Sheet Metal Shop)	each	20			
109	C	Repairing of RCC Chhajas(Of doors and windows) and platforms etc by applying SBR chemical and rich Cement morter and make in proper line and level including removal of damaged portion of cement concrete, cleaning of reinforcement bars all complete as per direction	each	98			
110	D	Providing and fixing asbetos sheet (where ever required)(For Sheet Metal Shop)	sqm	50			
111	E	Providing and fixing turbo ventilatores (where ever required) As per direction of engineer-in-charge (For Sheet Metal Shop)	each	16			
112	F	Providing and fixing health fasset of approved quality for EWC toilet incluiding flexible arm of standard length. (For Sheet Metal Shop)	each	3			
113	G	Dismantling old false ceiling and including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead as per direction of Engineer-in-charge (For Auditorium)	sqm	222.04			
114	H	Repairing and maintenance of old door locks and making all workable And provide new attached locks as per direction of engineer-in -charge (For Admin Building)	each	8			
115	I	Cleaning and repairing of washroom area, checking all connection and making workable as per direction of engineer-in-charge. (For Admin Building)	lot	2			
Schedule items (Electrical)							

116	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.					
(i)	1.10.1	Group A	Point	337.00			
(ii)	1.10.2	Group B	Point	40.00			
117	1.11	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc. as required.	Point	4.00			
118	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.					
(i)	1.14.1	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Metre	210.00			
(ii)	1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	1370.00			
(vi)	1.14.10	4 X 10 sq. mm + 2 X 10 sq. mm earth wire.	Metre	290.00			
(vii)	1.14.11	4 X 16 sq. mm + 2 X 16 sq. mm earth wire.	Metre	300.00			
119	1.12	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Metre	2410.00			

120	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
(i)	1.24.1	5/6 amps switch	Each	51.00			
(ii)	1.24.4	3 pin 5/6 Amp Socket Outlet.	Each	51.00			
121	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	26.00			
122	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	Each	90.00			
123	1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc.as required.					
(i)	1.27.6	12 Module (200mmX150mm)	Each	6.00			
(ii)	1.27.5	8 Module (125 mmx125 mm)	Each	6.00			
(iii)	1.27.4	6 Module (200mmx75mm)	Each	6.00			

124	2.8	Supplying and fixing following way prewired TP&N MCB distribution board of steel sheet for 415 volts on surface/ recess complete with loose wire box, terminal connectors for all incoming and outgoing circuits, duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper bus bar, neutral link, earth bar, din bar, detachable gland plate, interconnections, powder painted including earthing etc. as required.(But without MCB/ RCCB/ Isolator)					
(i)	2.8.8	12 way (4 + 36), Single doors	Each	8.00			
(ii)	2.8.7	8 way (4+24), Double door	Each	2.00			
125	2.10	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, “C” curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
(i)	2.10.1	Single Pole	Each	216.00			
126	1.25	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	160.00			
127	7.8	Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size on cable tray as required.					
(i)	7.8.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Metre	280.00			

128	9.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					
(i)	9.1.24	3.5 C X 95 sq. mm (45mm)	Each	10.00			
(ii)	9.1.31	3.5 C X 400 sq. mm (82mm)	Each	2.00			
129	5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	2.00			
130	7.7	Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size on wall surface as required.					
(i)	7.7.2	Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	Meter	90.00			
131	5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	24.00			
132	5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required	Meter	300.00			
133	5.16	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Meter	300.00			

134	7.1	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.					
(i)	7.1.2	Above 35 sq. mm and upto 95 sq. mm	Meter	100.00			
(ii)	7.1.4	Above 185 sq. mm and upto 400 sq. mm	Meter	40.00			
135	7.6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.					
(iii)	7.6.4	Above 185 sq. mm and upto 400 sq. mm	Meter	10.00			
136	4.1	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.					
(i)	4.1.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Meter	200.00			
137	4.2	Supplying and installing following size of perforated pre-painted M.S. cable trays bends with perforation not more than 17.5%,, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.					
(i)	4.2.10	450 mm width X 62.5 mm depth X 2.0 mm thickness	Each	4.00			
Non Schedule items (Electrical Items)							

138		Supply, Installation, Testing & Commissioning of 40 Amp. TP MCB in the the Existing DB including connections in all respect.	Each	16.00			
139		Supply, Installation, Testing & Commissioning of 63 Amp. TP MCB in the the Existing DB including connections in all respect.	Each	16.00			
140		Supply, Installation, Testing & Commissioning of 63 Amp. TPN MCB in the the Existing DB including connections in all respect.	Each	4.00			
141		Supply, Installation, Testing & Commissioning of 100 Amp. TP MCB in the the Existing DB including connections in all respect.	Each	2.00			
142		Supply, Installation, Testing & Commissioning of 160 Amps TPN MCCB in Existing DB.	Each	4.00			
143		Supply, Installation, Testing & Commissioning of T5 LED Tube light 22 watt syska cat. No. SSK -T5-22W or equivalent of make bajaj, Havells, Surya, Philips.	Nos.	47.00			
144		Supply, Installation, Testing & Commissioning of 1400 mm sweep Ceiling fan of make: Havells, CG, Khaitan. Including connection, Anchor fastner / holding clamp if required etc.	Nos.	60.00			
145		Supply, Installation, Testing & Commissioning of 1200 mm sweep Ceiling fan of make: Havells, CG, Khaitan. Including connection, Anchor fastner / holding clamp if required etc.	Each	100.00			
146		Supply, Installation, Testing & Commissioning of Fans down rod up to 3 meter including painting.	Each	60.00			
147		Supply, Installation, Testing & Commissioning of LED Bulb 15 watt of make syska/ philips/ bajaj/ havells along with holder.	Each	12.00			

148		Supply, Installation, Testing & Commissioning of 12 inches, fresh air fan with louvers including connections, civil work etc. in all respect.	Each	14.00			
149		Supply, Installation, Testing & Commissioning of 32 Amp DP MCB along with sheet metal enclosure in all respect for AC.	Each	35.00			
150		Supply, Installation, Testing & Commissioning of 450 mm sweep / 18 inches exhaust fan including necessary civil work to make hole etc in all respect.	Each	10.00			
151		Supply, Installation, Testing & Commissioning of Industrial socket along with 63 Amp TPN MCB along with enclosure including all.	Each	16.00			
152		Supply, Installation, Testing & Commissioning of Industrial socket along with 40 Amp TPN MCB along with enclosure including all.	Each	16.00			
153		Supply, Installation, Testing & Commissioning of Ceiling light Cat. No. BY400 LED 72 SCW PSU WH of make philips or equivalent in bajaj, Havells, Surya, Syska etc.	Each	60.00			
154		Supply, Installation, Testing & Commissioning of Ceiling light Cat. No. BVP120 LED 107 CW NB FGS1PSU GR of make philips or equivalent in bajaj, Havells, Surya, Syska etc.	Each	4.00			
155		Supply, Installation, Testing & Commissioning of 2x2 ft. LED light ranging from 34 Watt to 39 watts celing type of make philips, syska, osram, bajaj.	Each	116.00			
156		Supply, Installation, Testing & Commissioning of Hume pipe 200 mm for cables in all respect.	Meter	20.00			

157		Supply, Installation, Testing & Commissioning of Heat Shrinkable outdoor LT cable jointing Kit of size 3.5 Cx95 Sq.mm along with connection of cable to LT overhead line in all respect.	Each	2.00			
158		Supply of following sizes Armoured XLPE cable of reputed make like KEI, Havells, Polycab as approved by Engineer In charge.					
(i)		3.5 core x400 Sq. mm. (1100 V)	Meter	30.00			
(iii)		3.5 core x95 Sq. mm. (1100 V)	Meter	460.00			
159		**LT Pannel:** Supply, Installation, testing and commissioning of cubical type, extensible, bolted construction LT pannel suitable for 415 V, 3 phase, 4 wire 50 Hz AC supply system of suitable size fabricated in compartmentalized design from CRCA sheet steel of 2 mm thick for frame work and covers & doors of 4.6 mm thick sheet, 3 mm thick for gland plates, i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having extensible type TPN copper bus bars of high conductivity of suitable rating, DMC/SMC bus bar support, with short circuit withstand capacity of 31 MVA for 1 sec, bottom base channel of MS section not less than 100mmx50mmx3mm thic, fabriction shall bedone in transportable sections, entire pannel shall have a common copper earyh bus bar of size 25mmx5mm at the rear with 02 NOs. earth stud, solid connections from main bus bar to switchgears with required size of copper bus bar and control wiring with 1.5 sq.mm. & 2.5 sq.mm. PVC insulated copper conductor S/C cable for voltage and Current respectively, cable alleys, cable gland plates in two half, i/c providing following switchgears. (Approx. Size :2000mm (W)x16 mm (H)x500 mm (D)					

		(I) Incoming: 1 No - 500 Amps, 50 kA, TPN microprocessor release MCCB (Ics=Icu at 415 V) with O/L, S/C & built in earth fault protection, **(II) Outgoing:** 5Nos - 160 AMps, 50 KA, TPN, microprocessor release, MCCB (Ics=Icu at 415 V), 08 Nos - 100 Amps, 50 KA,TPN, microprocessor release, MCCB (Ics=Icu at 415 Volt)	Each	1.00			
		Note: Necessary foundation if required deemed to be the part of the LT pannel & shall be done by the contractor. Noting shall extra payable on this account.					
Total Amount (Rs.)							
Total Amount in words							