OULGARET MUNICIPALITY
PUDUCHERRY -5

Name of work: **Development and Improvement of Community Infrastructures at Low Income Settlements in Oulgaret Municipality, Puducherry.**

NOTICE INVITING TENDER

(Through e-tender mode)

FORM – 6

Certified that this NIT contains 171 items serially numbered from 1 to 171 contains 137 pages and approved for an amount of **Rs.12,15,04,600/- (inclusive of GST) (Rupees twelve crores fifteen lakhs four thousand and six hundred only)**

NOTICE INVITING TENDER

Tender for the work of	:	**Development and Improvement of Community Infrastructures at Low Income Settlements in Oulgaret Municipality, Puducherry.**
Approximate cost put to Tender	:	**Rs.12,15,04,600/-** (inclusive of GST)
Earnest Money Deposit (To be returned after receiving PG)	:	**Rs.22,15,046/-**
Pre-bid meeting	:	**10-06-2022 @ 4.00 P.M**
Date and time of Tender opening (Technical Bid)	:	**17-06-2022**
This tender contains	:	**137 pages**
Time allowed for the work	:	**12 (Twelve) Months** including monsoon period

COMMISSIONER
OULGARET MUNICIPALITY
PUDUCHERRY

OULGARET MUNICIPALITY

NOTICE INVITING TENDER for e-Tendering

1. Item rate tenders are invited on behalf of the Oulgaret Municipal Council from eligible contractors/ firms registered with Public Works Department, Puducherry for the work of **"Development and Improvement of Community Infrastructures at Low Income Settlements in Oulgaret Municipality, Puducherry"** through e-Tender in online.This work comprise of eight sub-works

A. Providing cement concrete road with drainage facilities to the main roads and internal cross streets of Jeevananthapuram area in Lawpset Constituency.
B. Providing and laying cement concrete pavement with L drain at Nesavalar nagar, Lawspet, Puducherry.
C. Improvements to the roads and drains at Pavanar nagar in Oulgaret Consituency
D. Improvements to the link road to Lambert Saravana nagar EWS housing project area from Villianur Main road (NH) and 1st to 4th cross road at Sudhagar nagar, Reddiyarpalayam, Puducherry
E. Improvement to the Internal roads and Development of Park, Play ground & Compound wall of Slum Board EWS Housing Project site at Jawahar Nagar Boomianpet, Puducherry.
F. Upgradation of the cremation and Burial ground at Mettupalayam, Puducherry
G. Provision of LPG crematorium in the Burial ground at Shanmugapuram, Kathirkamam Constituency, Puducherry.
H. Provision of LPG crematorium in the Burial ground at Pavazhakaranchavady, Puducherry.

1.1 The work is estimated to a cost of **Rs.12,15,04,600/- (inclusive of GST).**This estimate, however, is given merely as a rough guide.

1.2 Tender can be downloaded from e-Tender website **www.pudutenders.gov.in** by the eligible contractors/firms who are having wide experience in road and building works registered in Railways/MES/BSNL/CPWD/ PWD of any state and Union Territory. Contractors other than those registered in PWD, Puduchery should produce definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority of having satisfactorily completed similar works of magnitude specified below during the last ***7 years*** **ending previous day of last date of submission of tenders**.

For the purpose of this clause "Similar works" means Civil Construction works.

1.2.1 Conditions for contractors eligibility

Three similar completed works costing not less than 40% of the estimated cost put to tender

(OR)

Two similar completed works costing not less than 60% of the estimated cost put to tender

(OR)

One similar completed work costing not less than 80% of the estimated cost put to tender

Financial Eligibility

a) Average annual turnover during last 3 years ending 31st March of the previous financial year (2021) should be at least 30% of the cost put to tender.

b) The Bidders shall produce audited balance sheets for the last three years shall be submitted.

c) The Bidders should enclose the latest GST, ESI, EPF and Group insurance registration certificates.

The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum; calculated from the date of completion to last date of submission of tenders.

Bid Capacity:

Available bid capacity:

The bidder should possess the bidding capacity as calculated by the specified formula. The formula generally used is:

Available bid capacity = A x M x N – B, where

A = Maximum value of works executed in any one year during the last five years (updated at the current price level), taking into account the completed as well as works in progress.

M = Multiplier factor (usually 1.5)

N = Number of years prescribed for completion of the work in question i.e., One year.

B = Value (updated at the current price level) of the existing commitments and ongoing works to be completed in the next 'N' years i.e one year.

Particulars of completed works for fulfilling the eligibility criteria duly authenticated / certified by an officer not below the rank of Executive Engineer or equivalent in Government Organisation be furnished separately for each completed work.

1.2.2 To become eligible for issue of tender, the tenderers shall have to furnish an affidavit as under:

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Oulgaret Municipality, then I/we shall be debarred for tendering in Oulgaret Municipality in future forever. Also, if such a violation comes to the notice of Oulgaret Municipality before date of start of work, the Municipal Council shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee. (Scanned copy to be uploaded at the time of submission of tender)

1.2.3 When tenders are invited from contractors not registered with PWD, Puducherry, as per provisions of Clause 1.2.1 above it will be mandatory for those contractors to upload the work experience certificate(s) and the affidavit as per the provisions of clause**.**

1.2.4. But for such tenders, registered contractors of Public Works Department in Puducherry are eligible to submit the tenders without submission of work experience certificate and affidavit. Therefore, Puducherry Public Works Department registered contractors shall upload two separate letters for experience certificate and affidavit that these documents are not required to be submitted by them. Uploading of these two letters is mandatory otherwise system will not clear mandatory fields.

2. Agreement shall be drawn with the successful tenderer on prescribed Form No.8 which is available with Oulgaret Municipality, Puducherry. Tenderer shall quote his rates as per various terms and conditions of the said form and submit on line to **www.pudutenders.gov.in** which will form part of the agreement.

3. The time allowed for carrying out the work will be **12 (Twelve)** Months including monsoon period from the tenth day after the date of written orders to commence the work or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.

4(i). The site for the work is available.

OR

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

---

4(ii) The architectural and structural drawings shall be made available.

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

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

6. After submission of the tender the contractor can re-submit revised tender any number of times but before last time and date of submission of tender as notified.

7. While submitting the revised tender, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.

8. When tenders are invited in three stage system and if it is desired to submit revised financial tender then it shall be mandatory to submit revised financial tender. If not submitted then the tender submitted earlier shall become invalid.

9. Contractors can download and submit the tenders only through on line from the web site. The contractors shall not approach the office of the Executive Engineer for receiving the Tender Schedule. The Tender Schedules can not be sold in the office of the Executive Engineer.

10. The tender submitted shall become invalid and e-tender processing fee shall not be refunded if:

(i) The tenderer is found ineligible.

(ii) The tenderer does not upload all the documents (including GST registration) as stipulated in the tender document including the undertaking about deposition of physical EMD of the scanned copy of EMD uploaded.

(iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of tender and hard copies as submitted *physically by the lowest tenderer* in the office of tender opening authority.

(iv) The lowest tenderer does not deposit physical EMD within a week of opening of tender.

11. The contractor whose tender is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the tender amount within the period specified in Schedule F. This guarantee shall be in the form of Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/ Term Deposit receipt/ Pay order of any Scheduled Bank or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. The earnest money deposited alongwith tender shall be returned after receiving the aforesaid performance guarantee.

(a) On evaluation of tender and if the tender is found that the overall amount quoted is below 15.00% and less, then the contractor shall be asked to pay an additional performance guarantee amounting to 50% of the difference between the quoted amount and estimate cost put to tender. Failure to furnish the additional performance guarantee over and above the normal performance

guarantee of 5% within the specified period from the date of receipt of acceptance letter, shall entitle cancellation of award and forefeiture of EMD furnished.

(b) This period can be further extended at the written request of the contractor by the Engineer-in-charge for a maximum period ranging from 1 to 15 days with late fee @ 0.1% per day, of performance guarantee amount.

In case the contractor fails to deposit the said performance guarantee and additional performance guarantee, if any, within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

12. Tenders shall be accompanied with Earnest money of **Rs.22,15,046/-** in cash (upto ₹ 10,000/-) through DIRECT DEBIT / NEFT / RTGS mode only through online in favour of the COMMISSIONER, OUGARET MUNICIPALITY, PUDUCHERRY for which necessary challan will be available in the website.

A part of earnest money is acceptable in the form of bank guarantee also, when the amount of Earnest money is more than ₹ 5.00 Lakhs.

In such case minimum 50% of EMD or ₹ 20.00 Lakhs whichever is less will have to be deposited in shape prescribed above and balance amount of earnest money can be accepted in the form of Bank Guarantee issued by the scheduled bank having validity for 6 months or more from the last date of receipt of tenders which is to be scanned and uploaded by the intending tenderers

The physical EMD of the scanned copy of EMD uploaded shall be deposited by the lowest tenderer within a week after opening of financial tender failing which the tender shall be rejected and enlistment of the agency shall be withdrawn by the enlisting authority. The agency shall be debarred from tendering in PWD.

The following undertaking in this regard shall also be uploaded by the intending tenderers:-

The Physical EMD shall be deposited by me/us with the EE calling the tender in case I/we become the lowest tenderer within a week of the opening of financial tender otherwise department may reject the tender and also take action to withdraw my/our enlistment/debar me/us from tendering in PWD."

Interested contractor who wish to participate in the tender has also to make following payments within the period of tender submission: e-tender processing fee - **Rs. 1500/- + GST @ 5% (non refundable)** shall be payable using payment e-gateway of ICICI Bank through internet banking or RGTS/NEFT facility drawn in favour of the Commissioner, Oulgaret Municpality, Puducherry.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the press notice including GST Registration Certificate shall be scanned and uploaded to the e-

Tendering website within the period of tender submission. However, certified copy of all the scanned and uploaded documents as specified in press notice shall have to be submitted by the lowest tenderer only along with physical EMD of the scanned copy of EMD uploaded within a week physically in the office of tender opening authority.

Online tender documents submitted by intending tenderers shall be opened only of those tenderers, who has deposited e-Tender Processing Fee with ICICI Bank and Earnest Money Deposit and other documents scanned and uploaded are found in order.

13. The tender submitted shall become invalid and e-tender processing fee shall not be refunded if:

(i) The tenderer is found ineligible.

(ii) The tenderer does not upload all the documents (including GST registration) as stipulated in the tender document including the undertaking about deposition of physical EMD of the scanned copy of EMD uploaded.

(iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of tender and hard copies as submitted *physically by the lowest tenderer* in the office of tender opening authority.

(iv) The lowest tenderer does not deposit physical EMD within a week of opening of tender.

14. The contractor whose tender is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the tender amount within the period specified in Schedule F. This guarantee shall be in the form of Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/ Term Deposit receipt/ Pay order of any Scheduled Bank or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. The earnest money deposited alongwith tender shall be returned after receiving the aforesaid performance guarantee.

(a) On evaluation of tender and if the tender is found that the overall amount quoted is below 15.00% and less, then the contractor shall be asked to pay an additional performance guarantee amounting to 50% of the difference between the quoted amount and estimate cost put to tender. Failure to furnish the additional performance guarantee over and above the normal performance guarantee of 5% within the specified period from the date of receipt of acceptance letter, shall entitle cancellation of award and forefeiture of EMD furnished.

(b) This period can be further extended by the Engineer-in-charge at the written request of the contractor for a maximum period ranging from 1 to 15 days with late fee @ 0.1% per day, of performance guarantee amount.

In case the contractor fails to deposit the said performance guarantee and additional performance guarantee, if any, within the period as indicated in Schedule 'F', including the extended period if

any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

15. The description of the work is as follows :-

"Development and Improvement of Community Infrastructures at Low Income Settlements in Oulgaret Municipality, Puducherry"

Copies of other drawings and documents pertaining to the works can be down loaded by the tenderers.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools and plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender on line by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc., will be issued to him by the Oulgaret Municipality and local conditions and other factors having a bearing on the execution of the work.

16. The competent authority on behalf of the Oulgaret Municipal Council does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of a reason. All tenders, in which any of the prescribed conditions are not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected.

17. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.

18. The competent authority on behalf of the Oulgaret Municipal Council reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.

19. The contractor shall not be permitted to tender for works in the Oulgaret Municipality, Puducherry (responsible for award and execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity, between the grades of Superintending Engineer and Assistant Engineer (both inclusive). He shall, also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Oulgaret Municipality, Puducherry. Any breach of his

condition by the contractor would render him liable to be removed from the approved list of contractors of this Municipality.

20. No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in this Municipality is allowed to work as a contractor for a period of two years after his retirement from Municipal service, without the previous permission of the Oulgaret Municipal Council in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Oulgaret Municipal Council as aforesaid before submission of the tender or engagement in the contractor's service.

21. The tender for the works shall remain open for acceptance for a period of **ninety (90) days** from the **date of opening of financial bid**. If any tenderer withdraws his tender before the said period or issue of letter of acceptance whichever is earlier or make any modifications in the terms and conditions of the tender which are not acceptable to the Oulgaret Municipaity, then the Oulgaret Municipal Council without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid.

22. This notice inviting tender shall form a part of the contract document. The successful tenderer / contractor, on acceptance of his tender by the Accepting Authority, shall within 10 days from the stipulated date of start of the work sign the contract, consisting of ---

(a) The notice inviting tender, all the documents including additional conditions, specifications and drawings, if any,forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

(b) Standard Form 8 or other standard Public Works Department Form as applicable.

Signature of the Commissioner,

Oulgaret Municipality

……

For and on behalf of the Oulgaret Municipal Council

OULGARET MUNICIPALITY

ITEM RATE TENDER AND CONTRACT FOR WORKS

(A)Tender for the work of **"Development and Improvement of Community Infrastructures at Low Income Settlements in Oulgaret Municipality, Puducherry"**

(i) To be submitted online by **3.30 p.m.** on **17-06-2022** in **www.pudutenders.gov.in**

(ii) To be opened in online at **4:00 p.m**. **on 17-06-2022** in through the website.

TENDER

I/We have read and examined the notice inviting tender, Schedules A, B, C, D, E and F. Specifications applicable, drawings and designs, general rules and directions, conditions of contract, clauses of contract, special conditions, schedule of rates and other documents and rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Oulgaret Municipal Council within the time specified in Schedule 'F', viz., schedule of quantities and in accordance in all respects with the specifications, designs, drawings, and instructions in writing referred to in Rule – 1 General Rules and Directions and in Clause 11 of the Conditions of Contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

We agree to keep the tender open for **Ninety (90) days** from the **date of opening of financial bid** thereof and not make any modifications in its terms and conditions.

A sum of **Rs.22,15,046/-** has been deposited as earnest money through **online mode**. If I / We fail to furnish the prescribed Performance guarantee, I/We agree that the said Commissioner,Oulgaret Municipality**,** Puducherry, or his successors in the office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to maximum of the percentage mentioned in Scheduled in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clauses 12.2 and 12.3 of the tender form.

Further, I/We agree that in case of forfeiture of Earnest Money or Performance Guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/We shall be debarred for tendering in PWD in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

I/We hereby declare that I/We shall treat the tender documents, drawings and other records connected with the work as secret/confidential documents and shall not communicate information/ derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to be safety of the State.

I/We agree that should I/We fail to commence that work specified in the above memorandum, and amount equal to the amount of the earnest money mentioned in the form of invitation of tender and the performance guarantee shall be absolutely forfeited to the Oulgaret Municipal Council or his successors in office and the same may at the option of competent authority on behalf of the Oulgaret Municipal Council be recovered without prejudice to any other right or remedy available in law out of the deposit in so far as the same may extend in terms of the said bond and in the event of deficiency out of any other money due to me/us under this contract or otherwise.

Dated…… Signature of Contractor

Postal address :

Witness :

Address :

Occupation :

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Oulgaret Municipal Council for a sum of **Rs.**..…… (Rupees……
……..……)

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

(a)

(b)

(c)

For and on behalf of Oulgaret Municipal Council

Signature…….

Dated…… Designation……..

OULGARET MUNICIPAL COUNCIL

OULGARET MUNICIPAITY

GENERAL RULES AND DIRECTIONS

1. All works proposed for execution by contract will be notified in a form of invitation to tender pasted in public places and signed by the officer inviting tender or by publication in newspapers and in the e-Tender website as the case may be.

This form will state the work to be carried out, as well as the date for submitting and opening tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited with the tender and the amount of the security deposit to be deposited by the successful tenderer and the percentage, if any, to be deducted from the bills. Copies of the specification, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.

2. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof or, in the event of the absence of any partner, it must be signed on his behalf by a person holding a power-of-attorney authorizing him to do so, such power - of - attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.

3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where the contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having authority to give effectual receipts for the firm.

4. Any person who submits a tender shall fill up the usual printed form, stating at what rate he is willing to undertake each item of the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tender for each. Tender shall have the name and number of the works to which they refer, written on the envelopes. The rate(s) must be quoted in decimal coinage. Amounts must be quoted in full rupees by ignoring fifty paisa and considering more than fifty paisa as rupee one. In case the lowest tendered amount (worked out on the basis of quoted rate of Individual items) of two or more contractors is same, then such lowest contractors may be asked to submit sealed revised offer quoting rate of each item of the schedule of quantity for all sub sections/sub heads as the case may be, but the revised quoted rate of each item of schedule of quantity for all sub sections/sub heads should not be higher than their respective original rate quoted already at the time of submission of tender. The lowest tender shall be decided on the basis of revised offer.

If the revised tendered amount (worked out on the basis of quoted rate of individual items) of two or more contractors received in revised offer is again found to be equal, then the lowest tender, among such contractors, shall be decided by draw of lots in the presence of SE of the circle, EE(s) in-charge, AE(P) of the circle and the lowest contractors those who have quoted equal amount of their tenders.

In case all the lowest contractors those who have same tendered amount (as a result of their quoted rate of individual items), refuse to submit revised offers, then tenders are to be recalled after forfeiting 50% of EMD of each lowest contractors.

Contractor, whose earnest money is forfeited because of non-submission of revised offer, or quoting higher revised rate(s) of any item(s) than their respective original rate quoted already at the time of submission of his tender shall not be allowed to participate in the retendering process of the work.

5. In the case of Item Rate Tenders, only rates quoted shall be considered. Any tender containing percentage below/above the rates quoted is liable to be rejected. Rates quoted by the contractor in item rate tender 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 contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In 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) will be considered as zero and work will be required to be executed accordingly.

6. In the case of any tender where unit rate of any item/items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.

7. All rates shall be quoted on the tender form in online.

8(i). The contractor whose tender is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the tender amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/ Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. The earnest money deposited alongwith tender shall be returned after receiving the aforesaid performance guarantee.

(a) On evaluation of tender and if the tender is found that the overall amount quoted is below 15.00% and less, then the contractor shall be asked to pay an additional performance guarantee amounting to 50% of the difference between the quoted amount and estimate cost put to tender. Failure to furnish the additional performance guarantee over and above the normal performance guarantee of 5% within the specified period from the date of receipt of acceptance letter, shall entitle cancellation of award and forefeiture of EMD furnished.

(b) This period can be further extended at the written request of thecontractor by the Engineer-in-charge for a maximum period ranging from 1 to 15 days with late fee @ 0.1% per day, of performance guarantee amount.

In case the contractor fails to deposit the said performance guarantee and additional performance guarantee, if any, within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

(ii) The contractor whose tender is accepted will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 2.5% of the tendered value of the work. The Security deposit will be collected by deductions from the running bills as well as final bill of the contractor at the rates mentioned above. The Security amount will also be accepted in cash or in the shape of Government Securities. Fixed Deposit Receipt of a Scheduled Bank or State Bank of India will also be accepted for this purpose provided confirmatory advice is enclosed.

9. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in- Charge shall be communicated in writing to the Engineer-in-Charge.

10. “This work is covered under puducherry Goods and Services Tax Act 2017 and hence the contractors are requested to quote the rates including the effect of GST. Additional/Separate claim for GST will NOT be entertained on any account after the award of work. The payment is also laible for TDS as instructed by the Commercial Tax Department based on GST”.

11. The contractor shall give a list of both Gazetted and Non-Gazetted Oulgaret Municipality employees related to him.

12. The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered or who; may and has/have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to be summarily rejected.

13. The tender for composite work includes in addition to building work, all other works such as sanitary and water supply installations drainage installation, electrical work horticulture work, roads and paths etc. The tenderer must associate himself with agencies of tender for sanitary and water supply drainage, electrical and horticulture works, if any, in the composite tender.

14. The contractor shall submit list of works, which are in hand (progress) in the following form:

Name of Work	Name and particulars of Division where is being executed	Value of work	Position of works in progress	Remarks
(1)	(2)	(3)	(4)	(5)

15. The contractor shall comply with the provisions of the Apprentices Act, 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be breach of the contract and the Oulgaret Municipal Council may in his discretion without prejudice to any other right or remedy available in law cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

16. The contractor/firm must obtain necessary prior permit from ***Pondicherry Ground Water Authority,*** for the water requirement of the of the proposed construction/road works which will be meet out either from tube well or transportation through tanker lorries before commencement of the construction work.

17. Inviting guidelines prescribed by the Central Vigilance Commission "No post tender negotiation" shall be conducted with the tenderers. The tenderers are expected to quote their rates with permissible limit of variation.

18. The contractor must study the plans appended with the tender and quote the rate accordingly.

19. Additional conditions to the Arbitration Clause is incorporated in the contract agreement as per Finance Department O.M.No.4571/FD/US (FIN)-I/2022, dt.21.04.2022 and also the authority to appoint Sole Arbitrator is modified as Secretary to Government (Local Administration), Puducherry.

20. Document to be submitted after acceptance:

Licenses / Registrations or proof of applying for labour liecenses, registration with EPFO, ESIC.

21. The contractor shall comply the Environmental and Social Management plan as per the Annexure enclosed.

For any clarification, the contractors are free to contact the EXECUTIVE ENGINEER, OULGARET MUNICIPALITY, PUDUCHERRY.

SCHEDULES

SCHEDULE 'A'

SCHEDULE OF QUANTITIES

NAME OF WORK: Development and Improvement of Community Infrastructures at Low Income Settlements in Oulgaret Municipality, Puducherry.

Item No.	Description of Items	Quantity		Rate in Figures Rs.	Rate in Words Rs.	Unit	Amount Rs.
1.	Code No. 2.8.1 Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50m - all kinds of soil	1417.50	Cum			1 Cum (One Cubic Metre)	
2.	Code No. 2.24.1 Extra rates for quantities of works, executed - in or underwater and /or liquidmud,including pumping out water as required	708.00	Metre depth			Metre depth	
3.	Code No. 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 upto 50m and lift upto 1.5m	441.00	Cum			1 Cum (One Cubic Metre)	
4.	Code No. 2.27 Supplying and filling in plinth with river sand under floors, including watering, ramming consolidating and dressing complete	481.50	Cum			1 Cum (One Cubic Metre)	
5.	Code No. 2.27A.1 Supplying and filling with gravel (excluding rock) in trenches, plinth, sides of foundations etc. In layers not exceeding 20 cm in depth consolidating each deposited layers by ramming and watering etc. complete including all lead and lift	2113.00	Cum			1 Cum (One Cubic Metre)	

6.	Code No. 2.27B Supplying and filling with red earth (excluding rock) including cost and conveyance to the work site and stacking to the departmental gauge, spreading in layers not exceeding 20cm in depth, watering and consolidation using 0.5 tonne roller, or wooden or steel rammers etc. complete for making play fields, running tracks and court yards.	555.00	Cum			1 Cum (One Cubic Metre)	
7.	Code No. 2.27C.1 Supplying and filling with gravel (excluding rock) in layers not exceeding 20cm in depth, breaking clods, watering, rolling each layer with 1/2 tonne roller, or wooden or steel rammers and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes capacity including all leads and lift (Payment will be made based on level measurement)	1109.50	Cum			1 Cum (One Cubic Metre)	
8.	Code No. 4.1.2 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	1302.00	Cum			1 Cum (One Cubic Metre)	
9.	Code No. 4.1.3 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	1531.50	Cum			1 Cum (One Cubic Metre)	
10.	Code No. 4.1.8 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size)	484.00	Cum			1 Cum (One Cubic Metre)	
11.	Code No. 4.1.10 Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - all work upto plith level - 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	1881.50	Cum			1 Cum (One Cubic Metre)	

12.	Code No. 4.2.3 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. upto floor five level, excluding the cost of centering ,shuttering and finishing - 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	916.00	Cum			1 Cum (One Cubic Metre)	
13.	Code No. 4.2.5 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. upto floor five level, excluding the cost of centering, shuttering and finishing - 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	217.50	Cum			1 Cum (One Cubic Metre)	
14.	Code No. 4.3.1 Centring and shuttering including strutting, propping etc. and removal of form work for - foundations, footings, bases for columns	7514.00	Sqm			1 Sqm (One Square Metre)	
15.	Code No. 4.3.2 Centring and shuttering including strutting, propping etc. and removal of form work for - retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, plinth and string courses fillets, kerbs and steps etc.	7937.00	Sqm			1 Sqm (One Square Metre)	
16.	Code No. 4.17 Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm 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.	27.00	Cum			1 Cum (One Cubic Metre)	

17.	Code No. 5.1.2 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finsishing and reinforcement - All work upto plinth level 1:1.5:3 (1cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	103.50	Cum			1 Cum (One Cubic Metre)	
18.	Code No. 5.1.3 Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finsishing and reinforcement - All work upto plinth level 1:2:4 (1cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	33.00	Cum			1 Cum (One Cubic Metre)	
19.	Code No. 5.2.2 Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and sting courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto 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 20mm nominal size)	74.00	Cum			1 Cum (One Cubic Metre)	
20.	Code No. 5.2.3 Reinforced cement concrete work in walls (any thickness) , including attached pilasters, buttresses , plinth and sting courses , fillets , columns , pillars , piers , abutments , posts and struts etc. upto floor five level excluding cost of centering , shuttering , finishing and reinforcement - 1:2:4 (1 cement : 2coarse sand : 4 graded stone aggregate 20mm nominal size)	17.50	Cum			1 Cum (One Cubic Metre)	
21.	Code No. 5.3 Reinforced cement concrete work in beams, suspended floors , roofs having slope up to 15degree landings , balconies , shelves , chajjas , lintels , bands , plain window sills , staircases and spiral stair cases upto floor five level excluing the cost of centering ,shuttering, finishing and reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	109.50	Cum			1 Cum (One Cubic Metre)	

22.	Code No. 5.8 Reinforced cement concrete work in vertical and horizontal fins individually or forming box louvers , facias and eaves boards upto floor five level excluding the cost of centering , shuttering , finishing and reinforcement , with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	182.50	Cum			1 Cum (One Cubic Metre)	
23.	Code No. 5.9.1 Centering and shuttering including strutting , propping etc and removal of form for - foundations, footings, bases of columns etc for mass concrete	164.00	Sqm			1 Sqm (One Square Metre)	
24.	Code No. 5.9.2 Centering and shuttering including strutting , propping etc and removal of form for - Walls (any thickness) including attached pilasters , butteresses , plinth and string courses etc.	73.00	Sqm			1 Sqm (One Square Metre)	
25.	Code No. 5.9.3 Centering and shuttering including strutting , propping etc and removal of form for - Suspended floors , roofs , landings , balconies and access platform.	452.00	Sqm			1 Sqm (One Square Metre)	
26.	Code No. 5.9.5 Centering and shuttering including strutting , propping etc and removal of form for - Lintels , beams , plinth beams , girders , bressumers and catilevers	1076.50	Sqm			1 Sqm (One Square Metre)	
27.	Code No. 5.9.6 Centering and shuttering including strutting , propping etc and removal of form for - Columns , Pillars , Piers , Abutments , Posts and Struts	1053.00	Sqm			1 Sqm (One Square Metre)	
28.	Code No. 5.11.1 Extra for additional height in centering, shuttering where ever required width adequate bracing , propping etc. including cost of de - shuttering and decentering at all levels , over a height of 3.5m, for every additional height of 1metre or part thereof (plan area to be measured) - Suspended floors, roofs, landing , beams and balconies (Plan area to be measured)	751.00	Sqm			1 Sqm (One Square Metre)	

29.	Code No. 5.12 Providing , hoisting and fixing upto floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but excluding cost of reinforcement , with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)	0.05	Cum			1 Cum (One Cubic Metre)	
30.	Code No. 5.22.6 Steel reinforcement for R.C.C.work including straightening , cutting , bending , placing in position and binding all complete upto plinth level - Thermo -Mechanically treated bars (TISCON / VIZAG / IISCO / SAIL / JSW) Fe - 415 or more	54193.50	Kg			1 Kg (One Kilogram)	
31.	Code No. 5.27 Providing and filling in position bitumen mix filler of proportion 80 kg of hot bitumen , 1 kg of cement and 0.25 cubic metre of coarse sand for expansion joints	51.00	Cm depth per cm width per 100m length			cm depth per cm width per 100m length	
32.	Code No. 5.28 Providing and fixing in position 12 mm thick bitumen impregnated fibre board conforming to IS : 1838 , including cost of primer , sealing compound in expansion joints	261.50	cm depth per 100 m length			cm depth per 100 m length	
33.	Code No. 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)	57.00	Cum			1 Cum (One Cubic Metre)	
34.	Code No. 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 1:6 (1 cement : 6 coarse sand)	391.00	Cum			1 Cum (One Cubic Metre)	
35.	Code No. 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 upto floor five level in all shapes and sizes in - cement mortar 1:4 (1 cement : 4 coarse sand)	271.00	Cum			1 Cum (One Cubic Metre)	

36.	Code No. 6.4.2 Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor five level in all shapes and sizes in - cement mortar 1:6 (1 cement : 6 coarse sand)	176.00	Cum			1 Cum (One Cubic Metre)	
37.	Code No. 6.44 Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand)	64.00	Metre			1 Mtr (One Metre)	
38.	Code No. 9.1.2P 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) - Padak wood	0.05	Cum			1 Cum (One Cubic Metre)	
39.	Code No. 9.6.1 Providing and fixing 35mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15 : 2001 (Part B) , including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws, all complete and panelling with panels of -12mm thick plain grade -1 , medium density flat pressed three layer particle board FPT - I or graded wood particle board FPT -I, IS :3087 marked , bonded with BWP type synthetic resin adhesive as per IS : 848	2.50	Sqm			1 Sqm (One Square Metre)	
40.	Code No. 9.62.1 Providing and fixing ISI marked oxidised M.S.sliding door bolts with nuts and screws etc.complte - 300 X 16 mm	3.00	Each			1 Each (One Each)	
41.	Code No. 9.68.3R Providing and fixing powder coating casement stays (straight peg type) with necessary screws etc. complete - 200 mm weighing not less than 120 gms	1.00	Each			1 Each (One Each)	
42.	Code No. 9.72.2 Providing and fixing bright finished brass butt hinges with necessary screws etc complete - 125 X 70 X 4 mm (ordinary type)	3.00	Each			1 Each (One Each)	

43.	Code No. 9.81.1 Providing and fixing bright finished brass handles with screws etc complete - 125 mm	2.00	Each			1 Each (One Each)	
44.	Code No. 9.96.1 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 - 300 X 16 mm	2.00	Each			1 Each (One Each)	
45.	Code No. 9.117.2 Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance +_ 1mm), with wall thickness 2.0 mm (+- 0.2mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws , joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S.tube of size 19 x 19 mm and 1mm (+-0.1mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification - Extruded section profile size 42 x 50 mm	9.50	Metre			1 Mtr. (One Metre)	
46.	Code No. 9.118.1 Providing and fixing to existing door frames - 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59 x 24 mm and wall thickness 2 mm (+- 0.2 mm) with inbuilt edging on both sides . The styles and rails mitred and joint at the corners by means of M.S. galvanised / plastic brackets of size 75 x 220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S.tube of size 20x20 mm and 1mm (+- 0.1mm) wall thickness.	3.00	Sqm			1 Sqm (One Square Metre)	
47.	Code No. 9.165.1A Providing and fixing of 65mm Godrej Navatal lock of 6 levers etc complete	6.00	Each			1 Each (One Each)	

48.	Code No. 10.5.2 Providing and fixing 1mm thick M.S.sheet door with frame of 40x40x6 mm angle iron and 3mm M.S.gusset plates at the junctions and corners , all necessary fittings complete, including applying a priming coat of approved steel primer - Using flats 30x6 mm for diagonal braces and central cross piece	4.50	Sqm			1 Sqm (One Square Metre)	
49.	Code No. 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 ISS :4454 -part1 and M.S.top cover of required thickness for rolling shutters - 80 x 1.20mm M.S.laths with 1.25 mm thick top cover	37.50	Sqm			1 Sqm (One Square Metre)	
50.	Code No. 10.8.1 Extra for providing mechanical device chain and crank operation for operating rolling shutters - exceeding 10.00 sqm and upto 16.80 sqm in the area	30.00	Sqm			1 Sqm (One Square Metre)	
51.	Code No. 10.18 Providing and fixing circular / hexagonal cast iron or M.S. sheet box for ceiling fan clamp , of internal dia 140mm ,73mm height, top lid of 1.5 mm thick M.S.sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron / M.S.sheet box by means of 3.3 mm dia round headed screws, one lock at the corners, clamp shall be made of 12 mm dia M.S bar bent to shape as per standard drawing	19.00	Each			1 Each (One Each)	

52.	Code No. 10.25.1 Steel work welded in built up sections / framed work , including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required all complete	54592.00	Kgs			1 Kg (One Kilogram)	
53.	Code No. 10.25.2 Steel work welded in built up sections / framed work , including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required - in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	7924.50	Kgs			1 Kg (One Kilogram)	
54.	Code No. 11.3.1 Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc . complete - 40mm thick with 20mm nominal size stone aggregate	1135.00	Sqm			1 Sqm (One Square Metre)	
55.	Code No. 11.26.1 Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1:4 (1 cement : 4 coarse sand) - 25 mm thick	99.50	Sqm			1 Sqm (One Square Metre)	
56.	Code No. 11.36B Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) , of approved make (Jhonson / Asian / Somany / Nitco) in all colours , shades of size 300 x 450 mm as approved in skirting , risers of steps and dados, over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement with pigment of matching shade complete - size 300x450 mm	313.00	Sqm			1 Sqm (One Square Metre)	

57.	Code No. 11.40.4 Providing and laying rectified ceramic rustic / matt finish floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer) of commercial quality conforming to IS:15622 of approved make (Somany / Nitco) in all colours shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including pointing the joints with white cement and matching pigments etc., complete	50.00	Sqm			1 Sqm (One Square Metre)	
58.	Code No. 11.61 Providing and laying 22 mm thick factory made pre-polished cement concrete flooring tiles of required colour and design over 20 mm thick cement mortar 1:4 (1 cement : 4 sand) and jointed with cement slurry mixed with an admixture of pigment to match the shade of the tile - (Endura \ Ultra \ Dazzle \ Technic)	211.00	Sqm			1 Sqm (One Square Metre)	
59.	Code No. 12.20 Providing and laying pressed clay tiles (as per approved pattern 18mm 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 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete	448.00	Sqm			1 Sqm (One Square Metre)	
60.	Code No. 12.20L Lime concrete terracing on roofs of required thickness laid to fall with 25mm nominal size brick aggregate and 50% lime mortar 1:2 (1 lime putty : 2 surkhi) rammed and finished with gur and belgiri treatment complete including rounding of junctions with Parapet wall complete	49.50	Cum			1 Cum (One Cubic Metre)	
61.	Code No. 12.41.2 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 10mm gap for thermal expansion, (i) Single socketed pipes - 110 mm diametre	79.00	Metre			1 Mtr (One Metre)	

62.	Code No. 12.42.5.2 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 10mm gap for thermal expansion - bend 87.5 degree - 110 mm bend	17.00	Each			1 Each (One Each)	
63.	Code No. 12.42.6.2 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 10mm gap for thermal expansion - shoe (plain) - 110mm shoe	17.00	Each			1 Each (One Each)	
64.	Code No. 12.43.2 Providing and fixing unplasticised - PVC pipe clips of approved design to unplasticised- PVC rain water pipes by means of 50x50x50mm hard wood plugs , screwed with M.S. screws of required length, including cutting brickwork and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc., complete - 110mm	15.00	Each			1 Each (One Each)	
65.	Code No. 13.1.1 12mm cement plaster of mix -1:4 (1 cement : 4 fine sand)	343.50	Sqm			1 Sqm (One Square Metre)	
66.	Code No. 13.2.1 15mm cement plaster on the rough side of single or half brick wall of mix - 1:4 (1cement : 4 fine sand)	971.50	Sqm			1 Sqm (One Square Metre)	
67.	Code No. 13.8.3 12 mm cement plaster of mix 1:5 (1 cement : 5 fine sand)	3196.50	Sqm			1 Sqm (One Square Metre)	
68.	Code No. 13.9.1 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 12mm cement plaster	12.00	Sqm			1 Sqm (One Square Metre)	
69.	Code No. 13.9.2 Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement - 20mm cement plaster	24.50	Sqm			Sqm (One Square Metre)	

70.	Code No. 13.9.2A 15 mm cement plaster on the rough side of single or half brick wall of mix 1:5 (1 cement : 5 fine sand)	1639.00	Sqm			1 Sqm (One Square Metre)	
71.	Code No. 13.16.1 6mm cement plaster of mix 1:3 (1 cement : 3 fine sand)	13594.00	Sqm			1 Sqm (One Square Metre)	
72.	Code No. 13.28.1 12mm thick plain cement mortar bands in cement mortar 1:4 (1cement : 4 fine sand) - flush band	7557.50	cm per metre			1 cm per metre (One cm per metre)	
73.	Code No. 13.28.3 12mm thick plain cement mortar bands in cement mortar 1:4 (1cement : 4 fine sand) - raised band	14061.00	cm per metre			1 cm per metre (One cm per metre)	
74.	Code No. 13.43.1 Applying one coat of water thinnable cement primer of approved brand and manufacturer on wall surface - water thinnable cement primer	4624.50	Sqm			1 Sqm (One Square Metre)	
75.	Code No. 13.45.1 Finishing walls with textured exterior paint of required shade - New work (Two or more coats applied @ 3.28 ltr / 10 sqm) over and including priming coat of exterior primer applied @ 2.20 kg / 10 sqm	4624.50	Sqm			1 Sqm (One Square Metre)	
76.	Code No. 13.46.1 Finishing walls with acrylic smooth exterior paint of required shade - New work (two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg / 10 sqm	3475.00	Sqm			1 Sqm (One Square Metre)	
77.	Code No. 13.50.1 Applying priming coat - with ready mixed pink or grey primer of approved brand and manufacture on wood work (hard and soft wood)	2.50	Sqm			1 Sqm (One Square Metre)	
78.	Code No. 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	39.00	Sqm			1 Sqm (One Square Metre)	

79.	Code No. 13.50.4 Applying priming coat - with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel work (second coat)	105.00	Sqm			1 Sqm (One Square Metre)	
80.	Code No. 13.61.1 Painting with synthetic enamel paint of approved brand and manufacutre to give an even shade - Two or more coats on new work	1063.50	Sqm			1 Sqm (One Square Metre)	
81.	Code No. 13.71 Lettering with black japan paint of approved brand and manufacture	2400.00	Letter per cm height			1 Letter per cm height (One Letter per cm height)	
82.	Code No. 14.1.1 Repairs to plaster of thickness 12mm to 20mm in patches of area 2.5 sq.metres 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)	684.00	Sqm			1 Sqm (One Square Metre)	
83.	Code No. 14.43 Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scrarches etc. complete	4881.00	Sqm			1 Sqm (One Square Metre)	
84.	Code No. 14.46 Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc complete	145.50	Sqm			1 Sqm (One Square Metre)	
85.	Code No. 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	222.50	Sqm			1 Sqm (One Square Metre)	
86.	Code No. 14.66.1 Finishing walls with acrylic smooth exterior paint of required shade - old work (two or more coats applied @1.67 ltr / 10 sqm) on existing cement paint surface	4881.00	Sqm			1 Sqm (One Square Metre)	

87.	Code No. 15.2.1 Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead - nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	887.50	Cum			1 Cum (One Cubic Metre)	
88.	Code No. 15.2.2 Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead - Nominal concrete 1:4:8 or leaner mix (including equivalent design mix)	576.00	Cum			1 Cum (One Cubic Metre)	
89.	Code No. 15.3 Demolishing R.C.C work manually / by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead	47.50	Cum			1 Cum (One Cubic Metre)	
90.	Code No. 15.7.4 Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead - in cement mortar	265.00	Cum			1 Cum (One Cubic Metre)	
91.	Code No. 15.18 Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets , welding etc.including dismembering and stacking within 50 metres lead	3167.00	Kgs			1 Kg (One Kilogarm)	
92.	Code No. 16.68 Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design / shape laid in required colour and pattern over and including 50mm thick compacted bed of course sand , filling the joints with coarse sand etc. all complete	3103.00	Sqm			1 Sqm (One Square Metre)	
93.	Code No. 16.95 Supplying fixing and commisioning of Suguna / Texmo / Sharp 1 HP monoblock pumpset slow speed single phase motor. The rate include the cost of pumpset , pumpset fixing in position and test run etc.complete	3.00	Each			1 Each (One Each)	

94.	Code No. 16.98 Providing and fixing 20mm thick, PVC shutter for doors , windows , cupboard etc., made of rigid PVC extruted multi chamber section of size 20mm x 200mm and outer edges of shutter framed with PVC channel section of size 24 mm x 59 mm , having interlocking facilities . The door frame of extruded PVC section of size 40mm x 48mm , having a maximum wall thickness 2.80mm +/-0.30mm . The corners and joints shall be mitrecut and welded. The rate shall include the cost of necessary hinges, handles and locking facilities wherever necessary	1.50	Sqm			1 Sqm (One Square Metre)	
95.	Code No. 16.100 Acid cleaning for the existing Mosaic floors, glazed tiles work and removing the stains and decays to give a glassy look etc complte (The Acid used shall be 32% concentrated hydrochloric acid after taking on the precautionary measures)	62.00	Sqm			1 Sqm (One Square Metre)	
96.	Code No. 17.13.2 Providing and fixing white vitreous china water closet squatting pan (Indian type) - Orissa pattern W.C.pan of size 580x440mm	1.00	Each			1 Each (One Each)	
97.	Code No. 17.14.1 Extra for using coloured W.C.pan instead of white W.C.pan - Orissa pattern W.C.pan 580x440mm	1.00	Each			1 Each (One Each)	
98.	Code No. 18.9.21 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and the cost of cutting chases and making good the same including testing of joints complete (Concealed work including cutting chases and making good the walls etc.) - 20 mm nominal outer dia pipes	297.00	Metre			1 mtr. (One Metre)	

99.	Code No. 18.9.22 Providing and fixing ASTM pipes including all ASTM plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing . This includes jointing of pipes & fitting with one step ASTM solvent cement and the cost of cutting chases and making good the same including testing of joints complete (Concealed work including cutting chases and making good the walls etc.) - 25 mm nominal outer dia pipes	214.00	Metre			1 mtr. (One Metre)	
100.	Code No. 18.15.1 Providing and fixing brass bib cock of approved quality - 15mm nominal bore	12.00	Each			1 Each (One Each)	
101.	Code No. 18.15.2 Providing and fixing brass bib cock of approved quality - 20 mm nominal bore	8.00	Each			1 Each (One Each)	
102.	Code No. 18.17.1 Providing and fixing gun metal gate valve with C.I.wheel of approved quality (Screwed end) - 25mm nominal bore	11.00	Each			1 Each (One Each)	
103.	Code No. 18.17.1A Providing and fixing gun metal gate valve with C.I.wheel of approved quality (screwed end) - 20 mm nominal bore	12.00	Each			1 Each (One Each)	
104.	Code No. 18.18.3 Providing and fixing ball valve (brass) of approved quality , high or low pressure , with plastic floats complete - 25mm nominal bore	1.00	Each			1 Each (One Each)	
105.	Code No. 18.48A 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 - Circular Tank	5000.00	Liters			1 Lit (One Liters)	
106.	Code No. 19.26.2 Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damages as required (raising depth of manhole to be paid separately) - rectangular manhole 120x90 cm with circular cover 500 mm dia of grade MD -10	75.00	Each			1 Each (One Each)	

107.	Code No. 19.32.1A Making soak pit 2.5 m diametre 3 m deep with 45 x 45 cm dry brick honeycomb shaft with bricks of class designation 75 and 110mm dia UPVC pipe (type B) 1.8 m long complete as per stadard design with F.P.S.bricks	1.00	No.			1 No. (One Number)	
108.	Code No. 20.1.1 Providing, driving and installing driven cast -in-situ reinforced cement concrete piles of grade M-25 of specified diametre and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) - 400 mm dia piles	160.00	Metre			1 mtr. (One Metre)	
109.	Code No. 20.1.2 Providing, driving and installing driven cast -in-situ reinforced cement concrete piles of grade M-25 of specified diametre and length below the pile cap, to carry safe working load not less than specified , excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) - 450 mm dia piles	310.00	Metre			1 mtr. (One Metre)	
110.	Code No. 23.27 Providing and fixing M.S.tree guard 50 cm square inplan, height 1.40 metre above ground level and 0.50 metre below ground level. The vertical members shall consist of four nos.angle iron of size 25x25x5mm, 1.9 m long, one at each corner and 8 nos flat iron of size 25x5 mm , 1.4 m long. The vertical members shall be welded to 4 nos 25x6 mm M.S. flats placed horizontally around the vertical member of the cage. One name plate of 1mm thick M.S. sheet of size 250x100 mm shall be welded to the tree guard near the middle height and lettered CPWD / PWD / any other approved name. The tree guard shall be fixed to the ground by making suitable holes and by embedding four corners leg in the ground, including refilling the earth, compaction etc, complete. The tree guard shall be painted with two	75.00	Each			1 Each (One Each)	

	coats of paint of approved brand and manufacture over a coat of primer, complete in all respect						
111.	Code No. 30.7 Supply of Quarry rubbish including stacking to department gauge for premeasurement and spreading required thickness	685.50	Cum			1 Cum (One Cubic Metre)	
112.	Code No. 31.280.1A Supplying of 3 phase, 415 volts, 50 cycles, 0.8 power factor for electric starting diesel generator comprising the following units:- (Kirloskar/ Leyland/ Ruston/ Greaves Cotton/ Cummins make) air cooled and shall be of multi stroke, multi cylinders, cold starting, developing not less than 43 BHP under normal temperature and pressure. The engine shall conform to I.S. 10002 with latest amendments. It shall be capable of taking 10% over load for one hour in every 12 hours of continous operation including 6 Nos. of anti vibration pads.The engine shall be complete with the following accessories: Electrical starting provision, engine cooling fan, fuel and lubricating oil filters, oil bath, air filter, lub oil pressure gauge 90 litres capacity fuel tank mounted with engine, hour metre with exhaust manifold, flexible pipe, 12/ 24 volts electric starting equipment complete with starter, alternator and one 12 volts with 19 plates battery of make AMCO/ STANDARD/ EXIDE/ DAGANITE (with Guarantee cards) of adequate capacity and low lubricating oil pressure/high temperature varying engine shut down devices. The Acoustic enclosure shall have the following: Acoustic enclosure shall be powder coated and fabricated out of 16 SWG CRCA MS sheet. The silent canopy shall be of nut bolt type construction. Powder coating is done after seven tank surface preparation process of sheet metal. Canopy panel and doors shall have inside lining of FIRE-RETARDANT foam/Rock Wool as acoustic material. Four hinged doors shall be provided to canopy, one door shall have glass window for control panel.Base frame is fabricated either in ISMC channel or in sheet metal. The base frame is rugged in construction and designed for mounting engine and alternator, with cross members mounted on AVM. The base frame shall have provision for	3.00	Nos.			1 No. (One Number)	

	mounting of acoustic enclosure and it is having provision of lifting hook for convenient lifting of complete set, i.e. along with canopy, engine and alternator.Fuel tank shall be fabricated out of 14 SWG CRCA MS sheet and is part of base frame. It is duly painted and fitted with inlet and outlet connections of suitable capacity.The Acoustic enclosure shall be Type test approved as per CPCB norms. The average sound level, when measure in green field condition (ISO m3744 OR 8528 PT 10) at 1-metre distance from all four sides shall be less than 75-dBA average or as per CPCB norms. The average stabilized hot air temperature rise with in the canopy is maintained with in 10 C over and above ambient temperature.Acoustic enclosure is suitable for Outdoor / Indoor installation. Lockable doors shall be provided. Lockable fuel filling arrangement to be provided external to the canopy. Residential Silencer is housed in the canopy. The exhaust gasses shall be taken out through a suitable flexible pipe to prevent any back pressure on the engine.Base frame sturdy, fabricated welded construction, channel iron / sheet metal base frame for mounting the above engine and alternator.Standard Tools and Spares:Double ended spanners complete set (small and big size sets) - 12 Nos. (TAPARIA/GEDORGE/EVEREST make) Screw driver (30cm long) Taparia make Screw driver (45cm long) Taparia make. Cutting player.Diesel filter with elements - 2 Nos.Oil filter with elements - 1 No.All the above accessories with complete set. AlternatorThe alternator shall be of Crompton/Kirloskar/ Stamford/ELGI make, self excited, self regulated, screen protected, drip proof alternator with static excitation system capable of developing 30 KVA at 0.8 power factor 415 volts, 3 phase, 50 cycles, generally conforming to I.S.4722 under normal condition, the voltage regulation will be plus or minus 5% of rated voltage. It shall be with end shield/ball roller bearings complete.Control PanelA wall/pedestal mounting (cubical type) fabricated sheet steel construction suitable for manual operation, rated for system output incorporating the following devices/instruments. The panel is made of 1.6mm sheet with one/two hinged front door, bolted back totally enclosed and vermine proof. It shall be with all electrical						

	connections and internal copper wiring with proper color codings for internal wiring. All control equipments and indicating instruments shall be mounted on the control panel. The control panel shall have the following equipments: 1 No. Amps /Volt /Frequency metre (96mm x 96 mm) 3 Nos. of suitable current transformers2 Nos. of suitable selector switches for voltmetre and ammetre main switch rotary type on/off pilot lamp (Standard make).1 No. input terminal board.1 No. out put terminal board1 No. Kilowatt hour metre (62.5 KVA and above)1 No. MCCB of suitable capacity (L&T/CROMPTON make) -30 KVA / 24 KW Generator set (Air cooled)						
113.	Code No. 33.27.11 Supplying transportation and packing of 8mm size down gauge graded pebbles including filling the annular space gradually complete.The pebbles disintegrated pieces. should be free from any disintegrated pieces.	5.00	Cum			1 Cum (One Cubic Metre)	
114.	Code No. 7.6D.MO Steel reinforcement for R.C.C. works including bending, binding and placing in position - Thermo Mechanical Treated Bars (TISCON / VIZAG / IISCO / SAIL/JSW) Fe - 415 or more	37.27	Tonne			1 T (Tonne)	
115.	Code No. 2.5.1B Dismantling of flexible pavements and disposal of dismantled materials upto a lead of 1000 metres, stacking serviceable and unserviceable materials separately - by manual means - Granular courses	3128.00	Cum			1 Cum (One Cubic Metre)	
116.	Code No. 3.15 Scarifying the existing bituminous surfaceto a depth of 50mm and disposal of scarified material within all lifts and lead upto 1000 metres - by mechanical means.	27557.50	Sqm			1 Sqm (One Square Metre)	
117.	Code No. 8.31 Fabrication , supply and fixing of informatory board of high intensity grade reflection sheeting encapsulated on aluminium sheets of not less than 2mm thick suitably supported and framed by M.S angles of size 40mm x40mmx6mm. (not less than 25.2kg) The informatory lettering and the symbols will be provided by high intensity white graded white sheeting . The board is supported by a	35.00	Nos.			1 No. (One Number)	

	post pipe or channel whichever required for the required height. The board frames shall be painted with enamel paint two coats on rear side and fixed in the ground pit of required size. Rate includes all materials , labour charges, conveyance, painting except the cost of post and fixing with P.C.C.works						
118.	Code No. 11.1 Spreading of sludge farm yard manure or/ and good earth in required thickness (cost of sludge, farm-yard manure or/and good earth to be paid for separately)	299.00	Cum			1 Cum (One Cubic Metre)	
119.	Code No. 11.4 Maintenance of lawns or Turfing of slopes (rough grassing) for a period of one year including watering, etc.	731.00	Sqm			1 Sqm (One Square Metre)	
120.	Code No. 11.7A Planting permanent hedges including digging of trenches, 60 cm wide and 45 cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.65 cum per 100 metre and supplying and planting two rows of hedge plants at 30 cm apart.	457.50	Rmt			1 Rmt (One Running Metre)	
121.	Code No. 11.7B Maintenance of hedge for one year	457.50	Rmt			1 Rmt (One Running Metre)	
122.	Code No. 11.8A Planting flowering plants and shrubs in central verge - 200 plants and 800 shrubs in two rows in one km length of road where width of verge is 3m and above.	269.00	Rmt			1 Rmt (One Running Metre)	
123.	Code No. 11.8B Maintenance of flowering plants and shrubs in central verge for one year - 200 plants and 800 shrubs in two rows in one km length of road where width of verge is 3m and above.	0.30	Km			1 KM (One Kilometre)	
124.	Code No. 11.9 Planting of trees by the roadside (Avenue trees) in 0.60 m dia holes, 1 m deep dug in the ground, mixing the soil with decayed farmyard/ sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and maintaining the plants for one year.	127.00	Each			1 Each (One Each)	

125.	Code No. 11.11 Supply at site of work well decayed farm yard manure, from any available source, approved , screening and stacking.	13.50	Cum			1 Cum (One Cubic Metre)	
126.	Code No. 11.17 Maing tree guard 53 cm dia 2 metre high as per design from empty bitumen drums, slit suitably to permit sun and air, (supplied by the department at stock issue rate) including providing and fixing four legs 40 cm long of 30 x 3 mm MS riveted to tree guard and providing and fixing 2 nos. MS sheet rings 50 x 0.5 mm with rivets complete in all respects.	20.00	Each			1 Each (One Each)	
127.	Code No. 11.30 Providing and laying soft Korean grass turfing including supplying red earth, manure, river sand, labour charges for ground preparation spreading earth and manure transportation of all and maintaining the lawn for initial three months etc. complete.	731.00	Sqm			1 Sqm (One Square Metre)	
128.	Code No. 4.1A.1 Construction of granular sub-base by providing close graded material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layer with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per clause 401of MoRTH specification, 4th Revision - by plant mix method for grading I material.	2457.50	Cum			1 Cum (One Cubic Metre)	
129.	Code No. 5.1 Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means. (As per MoRTH specification, 4th Revision)	49833.00	Sqm			1 Sqm (One Square Metre)	
130.	Code No. 5.3B Providing and laying bituminous macadam with hot mix plant of capacity not less than 40 - 60 TPH using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over a previously prepared surface with paver finisher to the required grade, level and alignment and rolled as per clauses 501.6 and 507.7 of	851.50	Cum			1 Cum (One Cubic Metre)	

	MoRTH specification, 4th Revision, to achieve the desired compaction - using grade II metal and bitumen 60/70 grade.						
131.	Code No. 5.5 Providing, laying and rolling of built-up spray grout layer over prepared base consisting of a two layer composite construction of compacted crushed coarse aggregates using motor grader for aggregates. Key stone chips spreader maymbe used with application of bituminous binder after each layer and with key maggregates placed on top of the second layer to serve as a base conforming to the line, grades and cross-section specified ,the compacted layer thickness being 75mm. (As per MoRTH specification, 4th Revision)	10727.00	Sqm			1 Sqm (One Square Metre)	
132.	Code No. 5.7B Providing and laying semi-dense bituminous concrete with HMP of capacity not less than 40 - 60 TPH using crushed aggregates of specified grading, premixed with bituminous binder @ 4.5 to 5 percent of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per clause 508 of MoRTH specification, 4th Revision, complete in all respects - Using grade-II material and using bitumen 60/70 grade.	1403.50	Cum			1 Cum (One Cubic Metre)	
133.	Code No. 6.2.MO Cleaning of the existing black topped surfaces with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment. As per clause no 503.3.1 of MOST specification.	10727.00	Sqm			1 Sqm (One Square Metre)	
134.	Code No. 6.5E.1.MO Providing and applying tackcoat on the prepared surface, heating bitumen in boiler and spraying the bitumen with sprayset fitted on bitumen boiler - on black topped surface bitumen @ 5kg/10sqm.	10727.00	Sqm			1 Sqm (One Square Metre)	

135.	Code No. 1.17.1 Supplying and drawing following sizes of FRLS PVC insulated copper conductor single core cable in the existing surface / recessed steel / PVC conduit as required - 1 X 1.5 sqmm	800.00	Metre			1 Mtr (One Metre)	
136.	Code No. 1.17.2 Supplying and drawing following sizes of FRLS PVC insulated copper conductor single core cable in the existing surface / recessed steel / PVC conduit as required - 2 X 1.5 sqmm	1360.00	Metre			1 Mtr (One Metre)	
137.	Code No. 1.17.11 Supplying and drawing following sizes of FRLS PVC insulated copper conductor single core cable in the existing surface / recessed steel / PVC conduit as required - 2 X 2.5 sqmm	200.00	Metre			1 Mtr (One Metre)	
138.	Code No. 1.17.20 Supplying and drawing following sizes of FRLS PVC insulated copper conductor single core cable in the existing surface / recessed steel / PVC conduit as required - 2 X 4sqmm	975.00	Metre			1 Mtr (One Metre)	
139.	Code No. 1.21.1 Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required - 20mm	237.00	Metre			1 Mtr (One Metre)	
140.	Code No. 1.21.2 Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required - 25mm	248.00	Metre			1 Mtr (One Metre)	
141.	Code No. 1.22.15 Supplying and fixing metal box of following sizes (nominal per size) on surface or inrecess with suitable size of phenolic laminated sheet cover in front including painting etc.as required - 250mm x 300 mm x 600 mm	15.00	Nos.			1 No. (One Number)	
142.	Code No. 1.23.1 Supplying and fixing following piano type switch / socket on the existing switch box / cover including connections etc.as required - 5/6 A switch	96.00	Nos.			1 No. (One Number)	

143.	Code No. 1.23.3 Supplying and fixing following piano type switch / socket on the existing switch box / cover including connections etc.as required - 2 way 15/16 A switch	40.00	Nos.			1 No. (One Number)	
144.	Code No. 1.23.4 Supplying and fixing following piano type switch / socket on the existing switch box / cover including connections etc.as required - 3 pin 5/6 A socket outlet, piano type ISI marked	11.00	Nos.			1 No. (One Number)	
145.	Code No. 1.23.5 Supplying and fixing following piano type switch / socket on the existing switch box / cover including connections etc.as required - 6 pin 15/16 A socket outlet	16.00	Nos.			1 No. (One Number)	
146.	Code No. 2.3.2 Supplying and fixing following way , single pole and neutral, sheet steel , MCB disribution board , 240 V, on surface / recess , complete with tinned copper bus bar , neutral bus bar , earth bar , din bar , interconnections , powder painted including earthing etc. as required (But without MCB / RCCB / Isolator) - 8 way ,double door	4.00	Nos.			1 No. (One Number)	
147.	Code No. 2.10.1 Supplying and fixing 5 A to 32 A rating , 240/415 V, 10 kA, p "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. - Single Pole	28.00	Nos.			1 No. (One Number)	
148.	Code No. 5.1 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. (but without charcoal / coke and salt) as required	1.00	Set			1 Set (One Set)	
149.	Sl.No.1101 CODE No.3132-O Providing and fixing 600mm-1400rpm heavy dut exhaust fan (900rpm-AI) make - Almonard/usha	6.00	Nos.			1 No. (One Number)	
150.	Sl.No.1096 Code No.3127-O Providing and fixing 1200 mm sweep double ball bearing ceiling fan - make almonard and usha	15.00	Nos.			1 No. (One Number)	
151.	Sl.No.1211 Providing and fixing 60W LED street light fitting (orbit)	40.00	Nos.			1 No. (One Number)	

152.	Sl. No.77 Code No. 1240 Supplying 20mm PVC junction box, two way	85.00	Nos.			1 No. (One Number)	
153.	Non PSR Providing and fixing LED tube light fitting make:philips	61.00	Nos.			1 No. (One Number)	
154.	Non PSR Providing and laying factory made chamfered edge 60mm thick cement concrete paver block of M-35 grade with approved color and designed in footpath, parks, lawns, driveways or light traffic parking etc., of required strength, thickness & size/shape, made by table vibratory method using PU mold, laid in required color and pattern over 50mm thick compacted bed of sand, compacting and proper embedding / laying of interlocking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, complete all as per direction of Engineer-in-Charge	1458.00	Sqm			1 Sqm (One Square Metre)	
155.	Non PSR Making carnice on wall edges to 10cm thick to 15cm wide using brick bats/ flat bricks in cement mortar 1:2(1 cement :2 2 fine sand) as per detailed drawing and trowel finish in two layers at ana verage thickness of 25mm with cement mortor 1:4 (1 cement : 4 fine sand) including moulding of arch surface all labour charges scaffolding cost of materials etc., complete.	204.00	Rm			1 Rmt (One Running Metre)	
156.	Non PSR Moulding pedestal with decorative capital to 60cm wide as per drawing to 3 m hieght with brick work in cm 1:3 (1cement:3sand) and moulding capital with brick bats/ brick tiles with reinforecemnt and trowel finish in two laers with moulded bottom to 20cm height including cost of material, Labour charges scaffoldings etc,. complete.	7.00	Nos.			1 No. (One Number)	
157.	Non PSR Providing and fixing decorative roofing sheet shingles from saint gobin including cost sheet and fixing charges	106.00	Sqm.			1 Sqm (One Square Metre)	

158.	Non PSR Supply and Fixng of Mini Ski: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.40 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. The Standing Bars 991 mm and Dia 60 mm fabricated from 40 O.D. galvanized steel pipes Upper part of Support Handrails of size 1.04 m highand Dia 38 mm fabricated from 40mm O.D. and 32 mm O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diametre. An Internal limiter prevents the equipment from moving uncontrollably.Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 1.07 m x 0.78 m x 1.40 m with following standards1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly	3.00	Nos.			1 No. (One Number)	

	displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
159.	Non PSR Supply and Fixng of Arm and Pedal Bike: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Horizontal Structural post of length 1.10 m supporting Upright	3.00	Nos.			1 No. (One Number)	

	structural posts of height 1.23 m and Dia 60mm is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Pedals of size 108 mm & Bars of size 197 mm. The poles are welded on to a base plate made from steel with 60mm inner diametre. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 1.43 m x 0.65 m x 1.23 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover						

	shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
160.	Non PSR Supply and Fixng of Waist Twister: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.35 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Circular Handrail Dia 42 mm fabricated from 42 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diametre. An Internal limiter prevents the equipment from moving uncontrollably.Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules.Maintenance : Maintain according to EN16630 and the maintenance guide. Equipment Dimensions: 1.44 m x 1.29 m x 1.35 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark	2.00	Nos.			1 No. (One Number)	

	EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
161.	Non PSR Supply and Fixng of Leg Stretch: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid.All	3.00	Nos.			1 No. (One Number)	

	products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.10 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Handrail rails of Dia 32 m. The poles are welded on to a base plate made from steel with 114mm inner diametre. Welded. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limliters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 0.93 m x 0.81 m x 1.13 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and						

	prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
162.	Non PSR Supply and Fixng of Rider: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 0.5 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. A single seat of size 330 mm x 250 mm fixed to the top of the vertical post and two Pedals & Bars of size 145 mm x 50 mm and Dia 38 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diametre. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 0.91 m x 0.65 m x 1.27 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates	2.00	Nos.			1 No. (One Number)	

	must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
163.	Non PSR Supply and Fixng of Seated Chest Press: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must	2.00	Nos.			1 No. (One Number)	

	reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.88 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Two pair of U-Shaped Bars of 1.02 m and Dia 40 mm while the handles are placed at a spacing of 698 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diametre. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 1.82 m x 0.69 m x 1.88 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be						

	tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
164.	Non PSR Supply and Fixng of Health Walker: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.25 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Two numbers of Foot Rest of size 361 mm x 161 mm are attached to the Standing Bars 957mm x 60 mm fabricated from 60 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diametre. An Internal limiter prevents the equipment from moving uncontrollably. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules.	2.00	Nos.			1 No. (One Number)	

	Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 1.18 m x 0.553 m x 1.25 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						

165.	Non PSR Supply and Fixng of Self Weighted Rower: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Horizontal bars of length 1.26 m is to be schedule HOT DIP Galvanized steel with a 60mm O.D. and 2.2mm (wall) thickness of the tubing. Handle Bars of 0.74 m and Dia 38 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diametre. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 1.26 m x 0.80 m x 1.59 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are	2.00	Nos.			1 No. (One Number)	

	powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
166.	Non PSR Supply and Fixng of Elliptical Cross Trainer: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Upright structural posts of height 1.25 m is to be schedule HOT DIP Galvanized steel with a 114mm O.D. and 2.2mm (wall) thickness of the tubing. Two numbers of Foot rest of size 320 mm x 132 mm are attached to the Standing Bars 998 mm x 40 mm fabricated from 40 O.D. galvanized steel	2.00	Nos.			1 No. (One Number)	

	pipes. Lower part of Support Handrails of size 0.8 m high and Dia 47 mm and Upper part of Support Handrails of size 0.51 m high and Dia 32 mm fabricated from 47 mm O.D. and 32 mm O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diametre. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 1.02 m x 0.53 m x 1.52 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover						

	shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
167.	Non PSR Supply and Fixng of Bicycle: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of the supplier by themselves or through their authorised dealers or contractors. The EN16630 & GS Mark certificates must be submitted during the technical bid and the same must reflect clearly on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has beenissued in the EN16630 safety certificates. Upright structural posts of height 1.31 m is to be schedule HOT DIP Galvanized steel with a 60 mm O.D. and 2.2mm (wall) thickness of the tubing. Two numbers of Pedal of size 113mm x 40mm & Rotating Disc of Dia 380 mm fabricated from 40 O.D. galvanized steel pipes. The poles are welded on to a base plate made from steel with 114mm inner diametre. Welded. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. The limiters must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre- assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. EQUIPMENT DIMENSIONS: 1.11m x 0.51 m x 1.31 m with following standards 1. All products must be tested and certified to meet EN16630 safety standards with GS test marks. 2. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. 3. The GS mark EN16630 certificates must be	4.00	Nos.			1 No. (One Number)	

	in the name of supplier by themselves or through their authorized dealers or contractors. 4. These EN16630certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. 5. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped 6. All Joints should be Robotic Welded. 7. All metal parts are powder coated using – Great Wall Powder (or equivalent) to the thickness of 80-120 microns. 8. Equipment which have sway and moving parts, must have built in safety limiters that prevent unwanted and excessive movement, which can cause injuries. 9. The limiters must be in accordance with EN16630 safety norms. 10. Seat(s) and footrest, if any – Shall be made of LDPE material and fixed to the main frame 11. Bolts, nuts, screws, washers and etc used for assembly shall be stainless steel 304 grade and shall be tamper resistant stainless steel. 12. Exposed hardware shall be covered with ultra violet stabilized plastic safety caps as a safety feature against protruding hardware, aesthetic pleasing against ugly exposed hardware and prevention against vandalism as well. 13. All open ends of pipe to be closed with GI/LLDPE caps, base plate cover shall be made of virgin LLDPE plastic by rotational molding with minimum 8mm thickness, UV resistant and colour as approved by Engineer-in-Charge. 14. High quality grip rubber should be used on handles. 15. Foothold shall be fixed on ground with concrete 1:2:4 and J shaped welded bolts and installed as per manufacturer specifications.						
168.	Non PSR Supplying and fixing of M20 reinforced cement concrete bench 1.83 metres length, bottom slab 0.40m width with 0.065 thickness, back slab 0.28m depth and 0.05m thickness, side support handle of 0.070m thickness. Overall height of backside 1.04mts. Front side 0.64mts, including foundation concrete etc. complete as per the direction of Engineer-in-charge.	20.00	Each			1 Each (One Each)	

169.	Non PSR Supplying anf fixing of Solar Photo voltaic modules, multicrystalline PV Panels, array consisting of 36 cells, with 12 watt LED Doom inbuilt automatic dusk automatic dusk to dawn controller, 40AA lead acid battery Solar panel mounting structure battery box, 15feet street light pole Installation, commissioning and packing, cables and wires and applicable taxes.	65.00	Each			1 Each (One Each)	
170.	Non PSR Disposal of dismantled materials beyond 50mts and upto 2 Kms lead.	50.50	Cum			1 Cum (One Cubic Metre)	
171.	Non PSR Disposal of scarified road materials and debries rate including that of transporation of 2Km lead, loading and unloading etc. complete as directed by Engineer-in-charge	326.00	Cum			1 Cum (One Cubic Metre)	

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.

Sl. No.	Description of Item	Quantity	Rates in figures and words at which the materials will be charged to the contractor	Place of issue
(1)	(2)	(3)	(4)	(5)
1	-------- Contractor's own arrangements ----------			

SCHEDULE 'C'

Tools and plants to be hired to the contractor.

Sl. No.	Description	Hire charges per day	Place of Issue
(1)	(2)	(3)	(4)
1	--------- NIL ----------		

SCHEDULE 'D'

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

SCHEDULE 'E'

Reference to General conditions of contract.

Name of work: **Development and Improvement of Community Infrastructures at Low Income Settlements in Oulgaret Municipality, Puducherry.**

Estimated Cost of Work : **Rs.12,15,04,600/-** (inclusive of GST)

(i) Earnest Money : **Rs.22,15,046/-**

(ii) Performance Guarantee : 5% of the tendered value

(ii)(a) Additional Performance Guarantee (in case of tender which is more than 15.00% below) : 50% of the difference in cost between the quoted amount and estimate cost put to tender

(iii) Security Deposit : 2.5% of the tendered value.

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS

Officer Inviting Tender:		The Commissioner, Oulgaret Municipality**,** Puducherry.
Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 &12.3		See below
Definitions :		
2(v)	Engineer-in-Charge	The Executive Engineer**,** Oulgaret Municipality**,** Puducherry.
2(viii)	Accepting Authority	The Oulgaret Municipal Council
2(x)	Percentage on cost of materials and labour to cover all overheads and profits.	15%
2(xi)	Standard Schedule of Rates	**As per PSR 2020-21 applicable to Puducherry Region**
2(xii)	Department	Oulgaret Municipality
9 (ii)	Standard P.W.D. Contract Form	Form-8 as modified and Form corrected upto date.

MODIFIED CLAUSES AS PER CON / MAN CIRCULARS

Clause 1 **(i)**	Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in days	15 days
(ii)	Maximum allowable extension beyond the period as provided in (i) above in days.	8 days
Clause 2	Authority for fixing compensation under Clause 2	Oulgaret Municipal Council on advice of the EE/SE,OM.

Clause 2A	Incentive for early completion of work	Deleted
Clause 5	Number of days from the date of issue of letter of acceptance for reckoning date of start	15 days

MILESTONE(S) **As per table given below**

TABLE FOR MILESTONE(S)

Sl. No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of non-achievement of milestone
1.			
2.			

Time allowed for execution of work. **12 (Twelve) months** (including monsoon period)

Or

Sl. No.	Financial Progress	Time allowed in days (from date of start)	Amount to be withheld in case of non-achievement of milestone
1.	1/8th (of the whole work)	1/4th (of the whole work)	In the event of not achieving the necessary progress as assessed from the running payments 1% of the tendered value of work will be withheld for failure of each milestone, without any notice to the contractor.
2.	3/8th (of the whole work)	½ (of the whole work)	
3.	3/4th (of the whole work)	3/4th (of the whole work)	
4.	Full	Full	

Clause 6 or 6A	Measurement of work done (or) Computerised Measurement Book	6A

Authority to decide:

(i) Extension of time : Superintending Engineer(OM), Local Administartion Department, Puducherry

(ii) Rescheduling of mile stone: Superintending Engineer(OM), Local Administartion Department, Puducherry

(iii) Shifting of date of start in case : Superintending Engineer(OM), Local Administartion Dept. Puducherry

Clause 7	Gross work to be done together with net payment / adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.	**Rs.1,02,30,500/-**
Clause 10A	List of testing equipments to be provided by the contractor at site lab	Applicable
Clause 10B (ii)	Mobilisation advance modified to the max of 10% of tendered value with 10% simple interest.	Not applicable
Clause 10C	Component of labour expressd as percent of value of work	Applicable 5%

Clause 10CA Applicable

S.N.	Materials covered Under this clause	Nearest Materials (other than cement, reinforcement bars, the structural steel and POL) for which All India Wholesale Price Index to be followed	Base Price and its corresponding period of all the materials covered under Clause10 CA
1.	Cement	----	As per PSR 2020-21 applicable to Puducherry Region
2.	Steel	----	
3.	Bitumen	----	
4.	POL	----	

» Includes Cement component used in RMC brought at site from outside approved RMC plants,if any.

» Base price and its corresponding period of all the materials covered under Clause10 CA is to be mentioned at the time of approval of NIT. In case of recall of tenders, the base price may be modified by adopting latest base price and its corresponding period

Clause 10CC		Not Applicable
Clause 11	Specifications to be followed for execution of works	C.P.W.D. specifications 2002, MORTH, IRC & CPHEEO specifications and manuals (with correction slips and subsequent publications)
Clause 12	Type of work	Original work

*** To be filled by NIT approving authority either Project and original work or Maintenance works including works of upgradation, aesthetic, special repair, addition/alteration in buildings.
The items related to road work like upgradation/improvement of footpath & central verge, improvement of carriage way by patch repair or annual/periodical repairs of road surface and A/R &M/O works pertaining to road shall be treated as maintenance work.
New road construction works and the strengthening of road surface shall be considered as original works.

Clause 12.2 & 12.3		Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work	30 %
12.5	**(i)**	Deviation Limit beyond which clauses12.2 & 12.3 shall apply for foundationwork (except items mentioned in earth work subhead in PSR and related items)	100 %
	(ii)	Deviation Limit for items mentioned in earth work subhead of PSR and related items	100 %
Clause 16		Competent Authority for deciding reduced rates.	The Commissioner, Oulgaret Municipality on the advice of the EE/SE,OM.
Clause 17		Enhancement of maintenance period	**(12) months**

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site:

1. Excavators various sizes
2. Equipment for hoisting & lifting
3. Concrete batching plant
4. Concrete mixer diesel/electrical
5. Rammer
6. Needle/Table vibrator (Petrol/Electrical)
7. Vibratory power roller
8. Steel Shuttering/Scaffolding
9. Tripper/Tracks
10. Pump (Diesel/Electrical)
11. Diesel generator
12. Seive analysis
13. Slumpcone Appratus
14. Weighing machine
15. Measuring Jar
16. Beaker
17. Pan
18. Mixing tray

Clause 25 Settlement of Dispute & Arbitration

(i) Additional condition to the Arbitration Clause is incorporated as per Finance Department O.M.No.4571/FD/US(FIN)-I/2022, dt.21-04-2022

(ii) Authority to appoint the sole Arbitrator: The Secretary to Government (Local Administration), Puducherry.

Constitution of Dispute Redressal Committee (DRC)

1. **Chairman** **:** Chief Engineer, PWD
2. **Member** **:** Superintending Engineer (OM), LAD, Puducherry
3. **Member** **:** Superintending Engineer II, PWD, Puducherry
4. **Member** **:** Commissioner, Oulgaret Municipality
5. **Member Secretary** **:** Executive Engineer, Oulgaret Municipality, Puducherry.

Clause 36(i)

Requirement of Technical Representative (s) and Recovery Rate

Sl. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical representative)	Minimum Experience	Number	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i)	
						Figures	Words
1.	Project Manager with with degree in corresponding discipline of Engineering	Civil	Principal Technical Representative	10	1	₹ 30,000 /- p.m.	Rupees thirty thousand per month
2.	Graduate Engineer	Civil	Technical Representative	5	1	₹ 25,000 /- p.m.	Rupees twenty five thousand per month
3.	Graduate Engineer (or) Diploma Engineer	Civil	Project Planning / Site / Billing Engineer	2	1No. Each Sub Work	₹ 15,000 /- p.m.	Rupees fifteen thousand per month
				5	1No. Each Sub Work	₹ 15,000 /- p.m.	Rupees fifteen thousand per month

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

Diploma holder with minimum 10 year relevant experience with a reputed construction company can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause 37:

During the course of contract period, deduction of 'CESS' to provide social security and various welfare benefits through the Puducherry Buildings and Other Construction Workers welfare Board under Section - 18 of Buildings and Other Construction Workers (RECS) Act, 1996 and as per Section-3 of the Buildings and Other Construction Workers Cess Act, 1996 shall be made at the arte of 1% (One Percent) of the gross amount of each bill or as per the advice of the Government of Puducherry.

Clause 42	(i)	(a)	Schedule / Statement for determining theoretical quantity of cement and bitumen on the basis of Delhi Schedule of Rates 2007 printed by C.P.W.D.	Puducherry Schedule of Rates 2020-21 applicable to Puducherry region.
	(ii)		Variations permissible on theoretical quantities.	
		(a)	Cement for works with estimated cost put to tender not more than ₹ 5 lakhs.	3% plus / minus
			For works with estimated cost put to tender more than ₹ 5 lakhs	2% plus / minus
		(b)	Bitumen all works	2.5% plus only and nil on minus side.
		(c)	Steel reinforcement and structural steel sections for each diametre, section and category.	2 % plus / minus.
		(d)	All other materials.	Nil

RECOVERY RATES FOR

QUANTITIES BEYOND PERMISSIBLE VARIATION

Sl.No.	Description of items	Rates in figures and words at which recovery shall be made from the contractor, Rate in Schedule 'B' plus 10% in case materials issued by Oulgaret Municipality	
		Excess beyond permissible variation	Less use beyond the permissible variation
1	2	3	4
1.	Cement		
2.	Steel Reinforcement		
3.	Structural sections		
4.	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price.		

GENERAL CONDITIONS

(1) The work shall in general be carried out in accordance with CPWD specifications for works 2002 with correction slips and issued from time to time. Revised CPWD Specification 2002 for cement mortar, cement concrete & RCC.

(2) However if the said specifications differ from those given in the description of any particular item in the schedule of quantities and specifications stipulated herein, the latter shall prevail.

(3) If the detailed description of any particular item in the schedule of quantities and specifications finally accepted by the Oulgaret Municipality differs from the particular specifications given hereunder, the former shall prevail to the extent applicable.

(4) If the particular specification given hereunder differs from I.S. code provisions, in any respect, the former shall prevail.

(5) Wherever any reference to any Indian standard specification occurs in the documents relating to this contract the same should be inclusive of all amendments issued thereto or revision thereof if any, upto the date of receipt of tenders.

(6) Conditions involving any financial implications other than those covered in the schedule of quantities will not be entertained and such tenders are also liable to be rejected.

(7) When working near existing structures, care shall be taken to avoid any damage to such structures, any such damage caused intentionally or unintentionally shall be restored to original and or acceptable condition and to the satisfaction of the Engineer-in-charge.

(8) The contractor shall given to the Municipality, Police and other authorities all notices etc., that may be required to be given as per law and obtain all requisite licenses for temporary obstructions, enclosures and pay all fees, taxes and charges which may be leviable on account of the operations during the execution of the contract. No extra claim of the contractor will be entertained by the Oulgaret Municipaityl on this account.

(9) Other agencies doing works related to this project may also simultaneously execute the works and the contractor shall co-ordinate and co-operate with them as found to be necessary at no extra cost.

(10) Any cement slurry or lime mortar or any combination thereof or water proofing material required for continuation from old work is demand to have been in built in the relevant items themselves and nothing extra shall be paid for the same.

(11) Unless otherwise specified in the schedule of quantities the rate for all items of the work shall be considered as inclusive of pumping out or bailing out water if required for which no extra payment will be made. This will include water encountered from any source as rains, flood, and subsoil water table being high due to any other cause whatsoever.

CONDITIONS FOR ISSUE OF MATERIALS

The materials shall be issued to the contractor at the place of delivery as mentioned in schedule 'B'. If these are delivered at any other site, the difference due to cartage will be adjusted accordingly. The contractor shall have to cart at his cost the materials to the site of work as soon as these are issued. The materials shall be issued between the working hours and as per rules prevails in the stockyard of the materials as framed from time to time.

The contractor shall bear all incidental charges for cartage, storage and safe custody of materials. No reimbursement of the expenses will be made by the Oulgaret Municipaityl.

The contractor shall construct suitable godown at the site of work for storing the materials safe against damage of sun, rain, dampness, fire, theft etc. he shall also employ necessary watch and ward establishment for the purpose.

Cement bags shall be stored in separate godown with pucca floor weatherproof roofs and walls. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with the Oulgaret Municipality Junior Engineer-in-charge of the work and that of the other lock with authorized agent of the contractor at the site of work so that the cement is removed from the godown accordingly to the daily requirements with the knowledge of both the parties.

The cement shall be stacked on proper floors consisting of two layers of dry bricks laid on well-consolidated earth at a level of at least 0.3 metres above ground level. These stocks shall be in row of 2 and 10 high with a minimum of 0.6 metre clear space around. The bags would be placed horizontally continuous in each line as shown in the sketch at page 398 of C.P.W.D. specification 2002.

The day today receipts and issue accounts of cement shall be maintained by the Junior Engineer-in-charge and signed daily by the contractor or his authorized agent.

MATERIALS OBTAINED FROM DISMANTLEMENT

I. The contractors, in course of their work, should understand that all materials (e.g. stone and the other materials) obtained in the work of dismantling, excavation etc. will be considered Oulgaret Municipality property and issued to the contractor (if they require the same for their own use) at rates approved by Oulgaret Municipal Council. If these materials are not required by them, they will dispose of to the best advantage of Oulgaret Municipal Council.

DELAY IN OBTAINING MATERIALS BY THE OULGARET MUNICIPALITY

II. Owing to difficulty in obtaining certain materials in the open market, the Oulgaret Municipality have undertaken to supply materials specified in schedule 'B' of the tender forms at rates stated therein. There may be delay in obtaining the materials by the Oulgaret Municipality and the contractor is, therefore required to keep himself in touch with the day to day position regarding the supply of materials from the Engineer-in-charge and to so adjust the progress of their work that their labour may not remain idle nor may there be any other claim due to so arising from delay in obtaining the materials. It should be clearly understood that no claim whatsoever shall be entertained by the Oulgaret Municipality on account of delay in supplying materials.

III. M.S. or deformed bars shall be issued in lengths as available in stores. M.S. or deformed bars shall be issued in straights or in coils as available and nothing extra shall be payable for straightening the bars. The bars issued in available lengths shall be cut to the required lengths and nothing extra shall be payable for the same.

IV. The contractor shall have to deposit the approved paints of required color and shade as per actual requirements of the work to be done with the Engineer-in-charge at his Oulgaret Municipality Store at the site of work.

The contractor shall be responsible for the water proofness of the roof for one full monsoon season after the date of completion. He shall rectify the defect noticed after due intimation in writing is given by the Engineer-in-charge failing which, Engineer-in-charge shall get the defects repaired at the contractor's risk and cost.

WATER SUPPLY AND SANITARY WORK

V. The contractor shall engage licensed plumber for the work and get the materials tested by the Oulgaret Municipality authorities whenever required at their own cost. The work shall be carried out according to the Oulgaret Municipal Bye-laws and the contractor shall produce necessary certificate from Oulgaret Municipality authorities after completion of work.

VI. The contractor shall have to deposit water proofing compound as per the actual requirements for the water proofing job with the Engineer-in-charge at his Oulgaret Municipal Stores at the site of work.

The water proofing compound will be issued to the contractor from time to time according to his requirements for the work in the same manner as the issue of the materials stipulated to be issued Oulgaret Municipality.

INCONVENIENCE TO PUBLIC

VII. The contractor shall not deposit materials on any site, which will seriously inconvenience the public. The Engineer-in-charge may require the contractor to remove any materials, which are considered by him to be a danger or inconvenience to the public or cause them to be removed at the contractor's cost.

VIII. Any damage to work resulting from rains or from any other cause until the work is taken over by the Oulgaret Municipality after completion will be made good by the contractor at his own cost.

IX. The contractor shall deposit royalty and obtain necessary permit for supply of sand, HBG metal, red earth, etc. from local authorities.

X. The contractor shall get himself acquainted with the nature and extent of the work and satisfy himself about the availability of quarry and of kiln for collection and conveyance of materials required for the construction. The contractor's quoted rate should take into account all these factors and will not be allowed for extra lead for collection and conveyance of materials for any reason whatsoever.

XI. The contractor will be permitted to set up labour camp only before a week from the commencement of work and not exceeding fifteen days after the completion of the work.

XII. The contractor shall conform to the provision of any Oulgaret Municipal acts which relate to works and to the regulations and bye-laws of any local authorities. The contractors shall give all notices required by the said acts or laws etc., pay all fees payable to such authorities and allow for these contingencies in his tendered rates including fees for encroachments, costs of restoration etc., and all other fees payable to the local authorities.

XIII. Where surplus earth of a suitable quality exists at the site of work, the contractor shall be allowed to use same free of cost making mud mortar for masonry and for laying mud terracing over the roof. The Engineer-in-charge shall be the final authority to decide whether the earth obtained from excavation is surplus or not.

The surplus earth excavated which is beyond the requirement of Oulgaret Municipality works, may be allowed by the Executive Engineer to be disposed of by the contractor on his own or to sell the surplus earth to private parties at his discretion, but nothing extra will be paid for carriage or disposal of the surplus earth, if the same is not required for Municpal works.

Wherever fine sand has been mentioned in the schedule of quantities, it should be conforming to the grading Zone-I or Zone-V as mentioned in the C.P.W.D. specifications.

XIV. Concrete will be mixed with mixers either operated by hand or mechanical.

XV. The contractor shall not employ women and men below the age of 18 on the work of painting with products lead, in any form wherever men above the age of 18 are employed on the work of lead painting, the following principles must be observed for such use:

(a) White lead sulphate or lead, of products containing these pigments shall not be in painting operation except in the form of paste or of paint ready for use.

(b) Measure shall be taken in order to prevent danger arising from application of paint in the form of spray.

(c) Measure shall be taken wherever practicable against danger arising from dust caused by dry rubbing down and scraping.

(d) Adequate facilities shall be provided to enable working painters to wash during and on cessation of work.

(e) Overalls shall be worn by working painters during whole of the working period.

(f) Suitable arrangements shall be made to prevent clothing put off during working hours being soiled by painting materials.

(g) Cases of lead poisoning and suspected lead poisoning shall be subsequently verified by a medical team appointed by the competent authority.

(h) The Oulgaret Municipality may require when necessary medical examination of workers.

(i) Instructions with regard to the special hygienic precautions to be taken in the painting trade shall be distributed to working painter.

(j) The standard section weights referred to as standard table of 5.4 in the CPWD specification 2009 be considered for conversion of length of various size of steel bars into weights are as under

Nominal size mm	Cross sectional area Sq.mm.	Mass per metre run Kg.
6	28.3	0.222
8	50.3	0.395
10	78.6	0.617
12	113.1	0.888
16	201.2	1.58
20	314.3	2.47
25	491.1	3.85
28	615.8	4.83
32	804.6	6.31
36	1018.3	7.99
40	1257.2	9.86

Issue of steel diametre above 10mm will be regulated on sectional weights basis, weight being calculated with the help of the above tables. However, for bars TMT steel up to and including 10mm the following procedure shall be adopted. The average sectional weights for each diametre shall be arrived at from samples from each lot of steel received at site. The actual weight of steel issued shall be modified to take into account the variations between the actual and the standard co-efficients given above and the contractor's account will be debited by the cost of this modified quantity only. The discretion of the Engineer-in-charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diametre of steel received at site of work each day will constitute one single lot for this purpose.

Addition to the Arbitration Clause

(As per Finance Department-O.M.No.4571/FD/US(FIN)-I/2022,d.21.04.2022)

The parties agree that any mutual dispute with regards to terms of this contract shall be handled through Arbitration, as per the following terms, between them)

I. THAT, the parties agree that any dispute of difference whatsoever arising between the parties out of/ under or in connection with or relating to the construction, meaning, scope, operation, or effect of the contract or the validity or the breach thereof shall be referred to a Sole Arbitrator as appointed under Clause (IV) hereinbelow, and that the award made in pursuance thereof shall be binding on the parties.

II. AND THAT, the parties agree that in respect of those matters, as are not defined in the terms and conditions of the main contract, or in this Arbitration Agreement, the same shall be decided and settled by the Sole Arbitrator in accordance with the Arbitration and Conciliation Act, 1996 and the amendments thereof as in operation on the date of execution of the contract.

III. AND THAT, the parties agree that the place of Arbitration shall be at Pondicherry in the Union Territory of Puducherry.

IV. AND THAT, whenever the parties decide to resort to Arbitration for dispute resolution, the Secretary to the Government of Puducherry... (Name of concerned Department) shall be the authority to appoint the Sole Arbitrator from amongst a panel of Arbitrators maintained by the Government of Puducherry, and such appointment shall be binding on both the parties. Provided that before requesting the Secretary..... (Name of concerned Department) for appointing an Arbitrator, the parties shall make a sincere attempt to resolve their dispute, within a time period of 3 months, through mutual conciliation and if so felt necessary by the parties under the supervisory guidance of the Secretary... (Name of concerned Department):

V. AND THAT, all costs relating to the Arbitration proceedings, shall be borne equally by both the parties.

VI. AND THAT, the parties agree that the language for making all submissions and evidence will be presented in ENGLISH during the proceedings.

VII. AND THAT, it is agreed between the parties that they shall extend their fullest support and co-operation to the Sole Arbitrator and not seek adjournment of the Arbitration proceedings, without explaining the reasons therefor, in writing, in advance, for seeking of such adjournment, and further that there shall not be more than two such adjournments granted, even when there exists a valid reason for seeking such adjournment. And it is further agreed that the parties should cooperate in completing the arbitration process and the broader dispute resolution within 6 months or at most with an extension, on mutual consent, of another 6 months;

VIII. AND THAT, it is agreed by the parties hereto that, in so far as there is an arbitral award for payment of money, the Sole Arbitrator may include in the sum for which the award is made, interest at the RBI repo rate, as on the date on which the cause of action arose, plus 2%,, on the whole, or any part of the money, for the whole or any part of the period, between the date on which the cause of action arose and the date on which the award is made:

Provided that, on the sum so directed to be paid by an arbitral award, there shall be no interest payable for three months commencing from the date of award, but thereafter, interest shall be payable at RBI repo rate plus 4% for such period of delay, till the date of payment

IX. The Arbitrator shall record, in writing, the arguments of the two each of the points of dispute and pass a speaking order thereon.

X. AND THAT, in so far as Arbitration is concerned, the terms and conditions of this Chapter shall prevail over anything to the contrary that may be spelt out in the contract agreement.

SPECIAL CONDITIONS APPLICABLE FOR ROAD WORKS

(1) Construction Equipment:

1.1 The methodology and equipment to be used on the project shall be furnished by the Contractor to the Engineer well in advance of commencement of work and approval of the Engineer obtained prior to its adoption and use.

1.2 The Contractor shall give a tail run of the equipment for establishing its capability to achieve the laid down specification and tolerance to the satisfaction of the Engineer before commencement of work, if so desired by the Engineer.

1.3 All equipment provided shall be proven efficiency and shall be operated and maintained at all times in a manner acceptable to the Engineer.

1.4 No equipment or personnel will be removed from site without permission of the Engineer.

(2) Work Program and Methodology of Construction:

The Contractor shall furnish his program of construction for execution of the work within the stipulated time schedule together with methodology of construction each item of work and obtain the approval of the engineer prior to actual commencement of work.

(3) Revised Programme of Work in case of Slippage:

In case of slippage from the approved work programme at any stage, the Contractor shall furnish revised programme to make up the slippage within the stipulated time schedule and obtain the approval of the Engineer to the revised programme.

(4) Action in case of Disproportionate Progress:

In case of extremely poor progress of the work or any item at any stage of work which in the opinion or the Engineer cannot be made good by the Contractor considering his available resources, the Engineer will get it accelerated to make up the lost time through any other agency and recover the additional cost incurred, if any, in getting the work done from the Contractor after informing him in writing about the action envisaged by him.

(5) Setting out:

Setting out the work as spelt out in clause 109 of Ministry's Specifications for Road and Bridge Works 4th Revision will be carried out by the Contractor.

(6) Public Utilities:

Action respect of public utilities will be taken by the contractor as envisaged in Clause 110 of Ministry's Specifications for Road and Bridge Works 4th Revision.

(7) Arrangement for traffic during construction:

Action for arrangement for traffic during construction will be taken by the contractor as envisaged in the contract documents and spelt out in clause 112 of Ministry's Specifications for Road and Bridge Works 4th Revision.

(8) Quality Control:

The onus of achieving quality of work will be on the contractor who will take action as stipulated in the Ministry's for Road and Bridge Works 4th Revision.

(9) Ministry's specification for Road and Bridge Works (4th Revision):

Ministry's specification for Road and Bridge Works 4th Revision will form part of the contract documents and the contractor will be legally bound to the various stipulations made therein unless and otherwise specifically relaxed or waived wholly or partly through a special clause in the contract document.

(10) Documentation:

The Contractor will prepare drawing (s) of the work as constructed and will supply original with three copies to the Engineer who will verify and certify these drawings. Final as constructed drawing(s) shall then be prepared by the Contractor and supplied in triplicate along with a micro film of the same to the Engineer for record and reference purposes.

(11) The contractor shall make his own arrangement to provide the bitumen required for the work from approved public sector, refineries such as IOC, BP, HPL, etc. and produce the paid voucher to the Engineer-in-charge. The materials so procured shall be got tested before use.

(12) The use of rubber modified bitumen shall be as per the guide lines of "IRC SP 53-99"

(13) The contractor shall use "Hydrostatic paver with sensor control" for this work.

(14) Regarding bearings, the MoRTH letter No.RW/NH-34057/1/2008-S & R (B) dated 22.7.2009 and its Corrigendum No.RW/NH-34057/1/2008-S & R (B) dated 09.09.2009 shall be adhered.

(15) The Pile shall be terminated at a depth as per the direction of Engineer-in-charge.

SPECIAL CONDITIONS OF CONTRACT

1. The project envisages experience and commitment to high quality execution of all works. This will be clear if the Bidder studies the drawings and specifications.

1.1 It shall be the responsibility of the contractor to thoroughly study the drawings, technical descriptions, scope of works, engineering and architectural design specifications, and the actual condition of the site and all other requirements and provisions attached to, incorporated into or otherwise made a part of this tender document before submitting their tender bid (here in referred to as bid).

1.2 For all technical, architectural and other doubts and clarifications, the contractor shall contact the Puducherry Oulgaret Municipality before submitting their bid.

1.3 It shall be the responsibility of the contractor to inspect the site before submitting their tender, after duly taking prior appointment and permission of the undersigned. The contractor will be deemed to have ascertained the site condition, whether he actually does or does not and no claim whatsoever shall be entertained on the plea of the contractor not being familiar with the site conditions.

1.4 While executing the works, it shall be the responsibility of the contractor to bring to immediate notice of the Puducherry Oulgaret Municipality any discrepancies, technical problems and all other unexpected or unforeseen issues pertaining to the said work.

1.5 It shall be the responsibility of the contractor to mobilize sufficient numbers and quantity of required levelling, compacting, tamping, vibrating equipments and scaffoldings etc. for executing the civil works. These costs shall be included in the relevant item rates quoted by him. No extra payment shall be made for this.

1.6 The contractor shall make his own arrangements for water / electricity for constructions work at his own cost as per his requirement and shall bear all consumption charges.

1.7 Irrespective of whether the item description mentions or not, all works incidental to a particular item will be deemed to have been included and no claim whatsoever on any account shall be entertained for completion of that item. Cost of watchmen, store keeper, tools and tackles etc. shall be included in the items quoted.

1.8 The contractor shall take into note that during execution of works, if need arises, unforeseen civil works may have to be carried out by him as per the instructions of the Puducherry Oulgaret Municipality.

1.9 The quality of material used and the workmanship, especially finishing of all the work shall be of the highest order as laid out by the technical and architectural specifications to the satisfaction of the Puducherry Oulgaret Municipality/ consultant. All works should be completed neat and clean to the satisfaction of the Puducherry Oulgaret Municipality / consultant.

1.10 All the works shall be carried out in accordance with relevant specifications of Bureau of Indian Standards latest versions/consultant’s specification. Any deviation from these specifications will have to be specifically approved by the Puducherry Oulgaret Municipality.

1.11 It shall be the responsibility of the contractor to adhere to all standard safety and labour norms laid down by Government and practiced within the premises of the client and have adequate insurance against accidents, fire and third party liability.

1.12 All the works shall be carried out in a workman like manner and all the defective or shoddy work / material as and when noticed by the consultant shall be removed / replaced by the contractor expeditiously at his own cost.

1.13 The contractor’s liability for defective work / material shall extend to 365 calendar days from the date of virtual completion. The contractor shall at his own initiative, obtain the certificate of virtual completion from the Puducherry Oulgaret Municipality.

1.14 The works shall be executed without damaging the existing landscape including the greenery etc.

1.15 Submitting the bid does not entitle the bidder to award of the work. The decision of selection of the contractor and awarding the work solely rests with the Puducherry Oulgaret Municipality.

2. Work Program and Methodology of Construction:

The Contractor shall furnish his program of construction for execution of the work within the stipulated time schedule together with methodology of construction each item of work and obtain the approval of the engineer prior to actual commencement of work.

3. Revised Programme of Work in case of Slippage:

In case of slippage from the approved work programme at any stage, the Contractor shall furnish revised programme to make up the slippage within the stipulated time schedule and obtain the approval of the Engineer to the revised programme.

4. Control over the dismantled materials:

It shall be the responsibility of the contractor to collect / store / keep under his safe custody the dismantled materials such as wood / steel section / doors & windows etc., till from the date of dismantling to the date of handing over to the client department or until the auction of materials by OULGARET MUNICIPALITY. Any loss in this regards shall be borne by the contractor.

ADDITIONAL CONDITIONS

1. The rate for all items of works shall unless clearly specified otherwise include cost of all labour, materials and others inputs involved in the execution of item.

2(a) For the purpose of recording measurements and preparing running account bill the abbreviated nomenclature enclosed with the standard form shall be adopted .The abbreviated nomenclature shall be taken to cover all the materials and operations as per the complete nomenclature of the relevant items in the agreement and other relevant specifications.

(b) In case of extra and substituted items of work for which abbreviated nomenclature is not provided in the agreements, the full nomenclature of items shall be reproduced in the measurement books and bill forms for running account bills.

3. For all doors and windows whether factory made or otherwise, cleats and rubber buffers 30mm dia. shall be provided as directed by the Engineer-in-charge and the rate for the shutter item shall include the cost of providing such wooden cleats and buffers.

4. For those doors where hydraulic door closer is provided only wooden cleats need not be provided and no reduction in rate shall be made for the same.

5. The particle board shutter shall be provided, with teak wood lipping (beading) at the edge to which hinges are fixed, without any extra cost.

6. For works where items of aluminium doors, windows etc., are specified, the grade of anodic coating to be provided in accordance with table I of IS: 1868-1968 together with reference to IS: 5523-1969.

7. Where hydrated lime is available, this can be used on the works and the places where hydrated lime is not available, lime concrete will be prepared by the traditional method of slaking the lime preparing the lime putty etc.

8. (a) Tendered rates are inclusive of all taxes and levies payable under the respective status. However pursuant to the constitution (46th Amendment) Act 1982, if any further tax or levy is imposed by the statute after the date of receipt of tenders and the contractor thereupon necessarily and properly pays such taxes/levies, the contractors shall be reimbursed the amount so paid provided such payment, if, any, is not, in the opinion of the Commissioner (whose decision shall be final and binding) attributable to delay in execution of work within the control of the contractor..

(b) The contractor shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of Oulgaret Municipality and further shall furnish such other information/document as the Engineer-in-Charge may require.

(c) The contractor shall within a period of 30 days of imposition of any further tax or levy pursuant to the Constitution (46th Amendment) Act, 1982 give a written notice thereof to the Engineer-in-Charge pursuant to this condition, together with all necessary information relating therein.

9. Stipulated materials shall be issued for use at site of work for all the items where such materials are required. For factory made products like precast cement tiles, precast hollow concrete blocks, precast foam concrete blocks, precast RCC pipes etc., stipulated materials shall not be issued.

10. While execution of the work, the contractor shall organise his work in such a way that the normal functioning of the premises is not disturbed.

11. Any damage done to the existing structure while dismantling execution of the work shall be made good by the contractor at claim shall be made good by the contractor at his own cost and no extra claim shall be entertained on this account.

12. The item of Anti-termite treatment shall be executed through a specialized firm.

13. The contractor shall make his own arrangements to provide the steel required for the work from SAIL / IISCO / TISCON / VIZAG / JSW STEEL PLANT and produce the paid voucher to the Engineer-in-Charge. The materials so procured shall be got tested before use.

14. The contractor shall procure 43 grade OPC / PPC cement having ISI mark from reputed firms having annual turn over of not less than one million MT and stores it in the site godown as per the guidelines specified in the CPWD specification 2002 under double lock system. The paid voucher of the cement procured shall be produced to the Engineer-in-Charge. The cement procured shall be got tested before use.

15. The contractor shall make his own arrangements to provide the bitumen required for the work from approved public sector, refineries such as IOC, BP, HPL etc., and produce the paid voucher to the Engineer-in-Charge. The materials so procured shall be got tested before use.

16. Necessary test certificates should be produced from the approved laboratory for the quality of materials.

17. Defective materials will be rejected and the same have to be replaced by the contractor at his own cost.

18. Original purchase vouchers should be produced at the time of receipt of materials and at the time of verification by the Engineer-in-Charge. The name of contractor, name of work and agreement number should be clearly noted in the original vouchers.

19. The test specimens shall be provided at free of cost by the contractor.

20. As per Circular No. 339/PW/EE(D)/F.No.213/02/03; dt:10-10-02. The cost of samples and all other incidental charges such as packaging transportation to the laboratory, etc., shall also be borne by the contractor. The testing fee shall be paid by the Engineer-in-Charge if the materials pass the test.

21. The test for cement has to be conducted for every 1000 bags or part. The test for steel has to be conducted for every consignment of 20 tonne or part thereof for each size/dia.

22. Payment for the item of laying Semi Dense Bituminous Concrete shall be made after conducting the density / compaction measurement test and also the surface roughness measured with Bump Integrator, by the Highways Research Station, Chennai and ensuring that

(a). In respect of density /compaction, the test result conforms to the density prescribed in the mix design and,

(b). In respect of surface roughness measured with Bump Integrator the result shall conform to the values prescribed in Table – 3 of IRC – SP-16-2004.

23. Inviting the guidelines prescribed by the Central Vigilance Commission no Post-tender negotiation shall be conducted with tenderers. The tenderers are expected to quote their rate within the prermisible limit of variation.

24. Rates should be quoted for the items specified in the NIT and shall not be compared with the analysis of rates.

25. Rates for all items should be quoted based on the availability of construction materials in accordance to BIS/CPWD specifications.

26. Rates should also be quoted inclusive of testing charges of all construction materials both at laboratory and in the field. No payment will be made for material testing.

27. The contractor should arrange for shifting of construction materials / concrete etc., near to the work site at his own cost. No extra rate shall be considered for shifting of materials etc.

28. For construction of Buildings /drains/canals/channels/bridges and culverts etc., rates should be quoted inclusive of de-watering and pumping out any type of water encountered during execution. No separate claim/ cost (like Extra/Substituted/Deviated items) will be admitted towards the dewatering etc. or any form of claim at any stage during the execution of work. No extra claim will be admitted for working under foul condition encountered during execution.

29. The Contractors themselves have to identify the place of disposal of un-serviceable materials like debris, waste mud, etc arises in the site. No extra lead and lift shall be considered for such disposal.

30. The Contractor must do their own arrangements at their own cost for signage/barricading etc. for the safety of Public during construction in the construction site of building/road/drain/canal/bridge/culverts etc. No separate claim will be admitted in this regard.

ADDITIONAL CONDITIONS II

ADOPTION OF PSR ABBREVIATED NOMENCLATURE - 2007

As per Chief Engineer's Circular No.378/PW/EE(D)/AE(C)/F.NO.286/2002-03, dated 30.10.2002 the Puducherry Schedule of Rates Abbreviated Nomenclature 2007 for buildings and road works shall be adopted in recording of measurements and preparation of running account bills, etc., wherever applicable as per CPWD Works Manual 2007.

PARTICULAR SPECIFICATIONS

1. The work executed shall be measured as per metric dimensions given in the schedule of quantities. The FPS units wherever indicated in the drawings are for guidance only.

2. Unless otherwise specified, all the rates quoted by the contractor shall be for items of work at all levels and heights of the building.

3. The work shall be executed as per the C.P.W.D. specifications 2002 (with correction slips and subsequent publications). In case of discrepancies between the specifications of a particular item as indicated in the C.P.W.D. specifications mentioned above and as indicated in the nomenclature of the item the latter shall prevail.

4. All stone aggregate, sand etc., shall be obtained only from quarries or other sources approved by the Engineer-in-Charge.

All the materials shall be got approved by the Engineer-in-Charge before they are actually procured and used at site.

5. The grading of sand to be used for mortars and concrete shall be determined at the site of work by the Engineer-in-Charge and sand conforming to these gradings only shall be used on the work.

6. Necessary washing, screening, etc., of metal and sand shall be done at site as per requirements of the Engineer-in-Charge.

7. Bricks shall have crushing strength of class designation.

8. The work of water supply and internal sanitary installations and drainage shall be carried out as per bye-laws of the local Municipal body.

9. All manufactured materials used on the work shall have ISI mark. In case of materials for which no manufacturer has been licensed to manufacture the materials with ISI marking, the materials shall conform to the provisions of C.P.W.D./MOST/MORTH/IRC/CPHEEO specifications or the ISI code (in the absence of C.P.W.D. specifications or other specification mentioned above for any particular material). In the case of all materials, tests shall be conducted to ensure that they conform to the specifications of codes mentioned above.

10. All materials, which are to be tested before use on the work should be procured at least 2 months before use on the work so that enough time is available for testing them before they are actually used.

11. The cost of samples and all other incidental charges such as packing, transportation to the laboratory etc., shall be borne by the contractor. The testing fee shall be paid if the material passes the test by the Engineer-in-Charge.

12. The architectural drawings Nos. based on which the work is to be executed are available with the Engineer-in-Charge and can be inspected by the prospective tenderers up to the date of receipt of tenders at his office during working hours.

Use and testing of all the manufactured materials used in the work shall be regulated as per specifications 2002.

13. Before receiving final payment for the work, contractor shall give an undertaking to the effect that at his own cost he will rectify the defects in walls, roof like leakage, cracks etc. Which may come to light during the first monsoon after the completion of work and for this purpose part of the security deposit which may be deemed reasonable by the Engineer-in-Charge shall be retained till the first monsoon is over as security against the contractor's failure to act upon the undertaking. This undertaking and consequent retention of part of the security deposit shall not invalidate the contract.

The timber to be used on the work shall be of first class wood of species mentioned in the particular item. The timber shall be kiln seasoned as per B.I.S. 1141 – 1973 and shall be treated with non-leachable type preservative by vacuum pressure method as per B.I.S. 401 – 1982.

FACTORY MADE PANELLED SHUTTERS FOR DOORS

14. The shutters shall be fabricated generally as per I.S. 1003 (Part I) – 1997 and as per Architect's drawings. The timber to be used shall be of first class wood of species mentioned in the particular item which shall be kiln seasoned and preservative treated. The panels shall be as specified in the item number. Samples of shutters shall be got tested as per I. S. 1003 (Part I) – 1997. The rate quoted for the item shall include the element of cost of shutter to be sent for testing and no claim on this account shall be entertained at a later date.

15. Pressed clay tiles to be used on the work shall conform to I. S. 2690 (Part I) – 1975. However, the water absorption of the tiles when tested by the method described in the Appendix 'A' of the said I. S. 2690 (Part I) 1975 shall not exceed 18% (Eighteen percent.).

16. Shahabad stone slabs, marble slabs etc. on treads and risers of steps and shelves shall be in single pieces.

P.V.C. PIPES INTERNAL WORK AND EXTERNAL WORK

17. The specification in respect of laying and jointing rigid P.V.C. threaded pipes both internal and external shall be as per para 19.7.1 to 19.7.7 and 19.9.1 to 19.9.2 of C.P.W.D. specifications 1996 & Vol-II and 2002. The rigid P.V.C. threaded pipes shall confirm to relevant ASTM standard and shall be ORIPLAST or equivalent.

18. Wherever RCC walls, fins and facials are monolithic the portion of RCC are to be measured as per the sketch attached in Page No. ……

The top surface of the RCC roof slab shall be screeded to be uniform when the concrete is green, so as to have a proper bond with the roof treatment. Nothing extra shall be paid on this account.

19. For aluminium doors, fixed glazing, fixed windows, sliding windows, louvered type ventilators and partitions etc. all aluminium sections shall be to the required size, thickness and weight as shown in the relevant Architect's Drawings.

20. The weight of stays given in C.P.W.D. specifications 2002 shall be for cast brass stays only.

The weight of the mild steel and anodized aluminium stays shall be as follows: -

Casement stays (Straight peg type)	Mild steel with tolerance of plus or minus %	Anodized aluminium with tolerances of plus or minus %
(a) 300 mm long	0.13 Kg/each	0.06 Kg/each
(b) 250 mm long	0.10 Kg/each	0.05 Kg/each
(c) 200 mm long	-	0.04 Kg/each
	The casement window fasteners	0.155 kg/each

Form of Earnest Money Deposit
Bank Guarantee Bond

WHEREAS, contractor..... (Name of contractor) (hereinafter called "the contractor") has submitted his tender dated ..... (date) for the constru 1ction of ..... (name of work) (hereinafter called "the Tender")

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

SEALED with the Common Seal of the said Bank this ..... day of ..... 20... .
THE CONDITIONS of this obligation are:

(1) If after tender opening the Contractor withdraws, his tender during the period of validity of tender (including extended validity of tender) specified in the Form of Tender;

(2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:

(a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to contractor, if required;

OR

(b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and Instructions to contractor, We undertake to pay to the Engineer-in-Charge either up to the above amount or part thereof upon receipt of his first written demand, without the Engineer-in-Charge having to substantiates his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by his is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

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

DATE ..... SIGNATURE OF THE BANK

WITNESS ..... SEAL

(SIGNATURE, NAME AND ADDRESS)

*Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

FORM OF PERFORMANCE SECURITY

BANK GUARANTEE BOND

In consideration of the Oulgaret Municipal Council (hereinafter called “Council”) having offered to accept under the terms and conditions of the proposed agreement made between the Commissioner, Oulgaret Municipality and …… (hereinafter called “the said contractor”) for the work …… (hereinafter called “the said agreement”) having agreed to production of a irrevocable Bank Guarantee for Rs……(Rupees ……..……..…….Only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement. We **…….. (** Indicate the name of the bank) (hereinafter referred to as “the Bank”) hereby undertake to pay to the Municipality an amount not exceeding Rs. …… (Rupees ……only) on demand by the Council.

2. We ** ……(** indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demure, merely on a demand from the Council stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs…… (Rupees …… only)

3. We, the said bank further undertake to pay to the Council any money so demanded not with standing any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, out liability under this present being absolute and unequivocal.The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the contractor(s) shall have no claim against us for making such payment.

4. We ** ……(** indicate the name of the Bank) further agree that the guarantee here in contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the Council under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the Council certified that the terms and condition of the said agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee.

5. We **……(** indicate the name of the Bank) further agree with the Council that the Council shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the council against the said contractors and to for–bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said contractor(s) or for any for-bearance, act of omission on the part of the Council or any indulgence by the Council to the Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision, have effect of so relieving us.

6. This guarantee will not be discharged due to the changes in constitution of the Bank or the contractor(s).

7. We **…… lastly undertake not to revoke this (** Indicate the name of the Bank). guarantee except with the previous consent of the Council in writing.

8. This guarantee shall be valid up to …….. unless extended on demand by Council. Not withstand anything mentioned above, our liability against this guarantee is restricted to Rs. ……(Rupees. …….. only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of the guarantee all our liabilities under this guarantee shall stand discharged.

Dated this …….. day of ……for……. ……. (indicate the name of bank).

AFFIDAVIT

(to be taken by the contractor on a non-judicial stamp paper before a First class Magistrate) I/We have submitted Bank Guarantee for the work …… (Name of work) ……in letter No …….. dated …… from …… (Name of Bank) to the Commissioner, Oulgaret Municipality ……..…… towards performance guarantee. This Bank Guarantee expires on ……. I/We undertake to keep the validity of the Bank Guarantee in tact by getting it extended from time to time at my/our own initiative up to a period of ……. months after the recorded date of completion of the work or as directed by the Commissioner, Oulgaret Municipality. I/We also indemnify the Municipality against any losses arising out of encashment of the Bank guarantee, if any.

NOTE: This affidavit is to be given by the executants before a First Class Magistrate.

Statement of Integrity

Statement of Integrity, Eligibility and Social and Environmental Responsibility

Reference name of the bid or proposal: Selection of Agency for the implementation of the sub project titled 'Development and Improvement of Community Infrastructures at Low Income Settlements in Oulgaret Municipality, Puducherry'. (The **"Contract**")

To: Oulgaret Municipality (The "**Contracting Authority**")

1. We recognise and accept that *AgenceFrançaise de Développement* ("AFD") only finances projects of the Contracting Authority subject to its own conditions which are set out in the Financing Agreement which benefits directly or indirectly to the Contracting Authority. As a matter of consequence, no legal relationship exists between AFD and our company, our joint venture or our suppliers, contractors, subcontractors, consultants or subconsultants. The Contracting Authority retains exclusive responsibility for the preparation and implementation of the procurement process and performance of the contract. The Contracting Authority means the Purchaser, the Employer, the Client, as the case may be, for the procurement of goods, works, plants, consulting services or non-consulting services.

2. We hereby certify that neither we nor any other member of our joint venture or any of our suppliers, contractors, subcontractors, consultants or subconsultants are in any of the following situations:

2.1) Being bankrupt, wound up or ceasing our activities, having our activities administered by the courts, having entered into receivership, reorganisation or being in any analogous situation arising from any similar procedure;

2.2) Having been:

a. convicted within the past five years by a court decision, which has the force of *res judicata* in the country where the Contract is implemented, of fraud, corruption or of any other offense committed during a procurement process or performance of a contract (in the event of such conviction, you may attach to this Statement of Integrity supporting information showing that this conviction is not relevant in the context of this Contract);

b. subject to an administrative sanction within the past five years by the European Union or by the competent authorities of the country where we are constituted, for fraud, corruption or for any other offense committed during a procurement process or performance of a contract (in the event of such sanction, you may attach to this Statement of Integrity supporting information showing that this sanction is not relevant in the context of this Contract);

c. convicted within the past five years by a court decision, which has the force of *res judicata,* of fraud, corruption or of any other offense committed during the procurement process or performance of an AFD-financed contract;

2.3) Being listed for financial sanctions by the United Nations, the European Union and/or France for the purposes of fight-against-terrorist financing or threat to international peace and security;

2.4) Having been subject within the past five years to a contract termination fully settled against us for significant or persistent failure to comply with our contractual obligations during contract performance, unless this termination was challenged and dispute resolution is still pending or has not confirmed a full settlement against us;

2.5) Not having fulfilled our fiscal obligations regarding payments of taxes in accordance with the legal provisions of either the country where we are constituted or the Contracting Authority's country;

2.6) Being subject to an exclusion decision of the World Bank and being listed on the website http://www.worldbank.org/debarr (in the event of such exclusion, you may attach to this Statement of Integrity supporting information showing that this exclusion is not relevant in the context of this Contract);

2.7) Having created false documents or committed misrepresentation in documentation requested by the Contracting Authority as part of the procurement process of this Contract.

3. We hereby certify that neither we, nor any of the members of our joint venture or any of our suppliers, contractors, subcontractors, consultants or subconsultants are in any of the following situations of conflict of interest:

3.1) Being an affiliate controlled by the Contracting Authority or a shareholder controlling the Contracting Authority, unless the stemming conflict of interest has been brought to the attention of AFD and resolved to its satisfaction;

3.2) Having a business or family relationship with a Contracting Authority's staff involved in the procurement process or the supervision of the resulting Contract, unless the stemming conflict of interest has been brought to the attention of AFD and resolved to its satisfaction;

3.3) Being controlled by or controlling another bidder or consultant, or being under common control with another bidder or consultant, or receiving from or granting subsidies directly or indirectly to another bidder or consultant, having the same legal representative as another bidder or consultant, maintaining direct or indirect contacts with another bidder or consultant which allows us to have or give access to information contained in the respective applications, bids or proposals, influencing them or influencing decisions of the Contracting Authority;

3.4) Being engaged in a consulting services activity, which, by its nature, may be in conflict with the assignments that we would carry out for the Contracting Authority;

3.5) In the case of procurement of goods, works or plants:

i. Having prepared or having been associated with a consultant who prepared specifications, drawings, calculations and other documentation to be used in the procurement process of this Contract;

ii. Having been recruited (or being proposed to be recruited) ourselves or any of our affiliates, to carry out works supervision or inspection for this Contract;

4. If we are a state-owned entity, and to compete in a procurement process, we certify that we have legal and financial autonomy and that we operate under commercial laws and regulations.

5. We undertake to bring to the attention of the Contracting Authority, which will inform AFD, any change in situation with regard to points 2 to 4 here above.

6. In the context of the procurement process and performance of the corresponding contract:

6.1) We have not and we will not engage in any dishonest conduct (act or omission) deliberately indented to deceive others, to intentionally conceal items, to violate or vitiate someone's consent, to make them circumvent legal or regulatory requirements and/or to violate their internal rules in order to obtain illegitimate profit;

6.2) We have not and we will not engage in any dishonest conduct (act or omission) contrary to our legal or regulatory obligations or our internal rules in order to obtain illegitimate profit;

6.3) We have not promised, offered or given and we will not promise, offer or give, directly or indirectly to (i) any Person who holds a legislative, executive, administrative or judicial mandate within the State of the Contracting Authority regardless of whether that Person was nominated or elected, regardless of the permanent or temporary, paid or unpaid nature of the position and regardless of the hierarchical level the Person occupies, (ii) any other Person who performs a public function, including for a State institution or a State-owned company, or who provides a public service, or (iii) any other person defined as a Public Officer by the national laws of the Contracting Authority's country, an undue advantage of any kind, for himself or for another Person or entity, for such Public Officer to act or refrain from acting in his official capacity;

6.4) We have not promised, offered or given and we will not promise, offer or give, directly or indirectly to any Person who occupies an executive position in a private sector entity or works for such an entity, regardless of the nature of his/her capacity, any undue advantage of any kind, for himself or another Person or entity for such Person to perform or refrain from performing any act in breach of its legal, contractual or professional obligations;

6.5) We have not and we will not engage in any practice likely to influence the contract award process to the detriment of the Contracting Authority and, in particular, in any anti-competitive practice having for object or for effect to prevent, restrict or distort competition, namely by limiting access to the market or the free exercise of competition by other undertakings;

6.6) Neither we nor any of the members of our joint venture or any of our suppliers, contractors, subcontractors, consultants or subconsultants shall acquire or supply any equipment nor operate in any sectors under an embargo of the United Nations, the European Union or France;

6.7) We commit ourselves to comply with and ensure that all of our suppliers, contractors, subcontractors, consultants or subconsultants comply with international environmental and labour standards, consistent with laws and regulations applicable in the country of implementation of the Contract, including the fundamental conventions of the International Labour Organisation (ILO) and international environmental treaties. Moreover, we shall implement environmental and social risks mitigation measures when specified in the environmental and social commitment plan (ESCP) provided by the Contracting Authority.

7. We, as well as members of our joint venture and our suppliers, contractors, subcontractors, consultants or subconsultants authorise AFD to inspect accounts, records and other documents relating to the procurement process and performance of the contract and to have them audited by auditors appointed by AFD.

Name: _____ In the capacity of: _____

Duly empowered to sign in the name and on behalf of[1]: _____

Signature:_____Dated:_____

It is mandatory to submit the above Affidavit online (by scanning) and in hard copy.

***Note: - To be given on the company's letter pad.**

[1] In case of joint venture, insert the name of the joint venture. The person who will sign the application, bid or proposal on behalf of the applicant, bidder or consultant shall attach a power of attorney from the applicant, bidder or consultant.

ANNEXURE

SUB-WORK A: ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN FOR THE PROJECT – PROVIDING AND LAYING CEMENT CONCRETE PAVEMENT WITH "L" DRAIN AT NESAVALAR NAGAR, LAWSPET, PUDUCHERRY.

Sl.no	Envt. / Social attribute		Potential E & S impacts	Mitigation measures	Responsibility		Cost estimates in Rs. (Cr)
	Parameter	Aspect			Implementations	Supervision	
1	Project site / location Nesavalar Nagar Lawspet	Laying Cement Concrete Pavement with "L" Drain.	Detail below		Oulgaret Municipality	Site Engineer E & S Officer PEPO	0.79
2	Water Environment	Construction	The waste water generated during construction activities may be flooded within the project site, which may cause disturbance to the project activities.	The waste water generated should be properly channelized and let into the nearby drain to avoid the flooding of waste water in the project area.	Contractor	Site Engineer, E & S Officer	No cost
3	Air Environment	Construction	The main sources of dust emissions during the project activities are scarifying the existing BT roads, demolition	Measures like sprinkling of water, covering of storage material and use of covering sheets in the trucks may reduce the emissions. The windows and doors of the houses located adjoining the	Contractor	Site Engineer & E &S officer	No cost

			of the damaged 'L' drain, unloading of construction materials in the site. The emissions have the risk of deteriorating the air quality in the project area and cause breathing problem to the residents of the houses adjoining the roads.	roads should be kept closed at the time of work to avoid the flow of dusts / emissions into the houses.			
4	Noise Environment	Construction	During the scarifying the existing BT roads, demolition of the damaged 'L' drain, transportation and unloading of construction materials in the site, laying of CC road may increase the noise level. Also operation of power shovels and vehicles in the project area, are also the	Ambient noise level in the site may be reduced through maintenance of construction machineries / vehicles and adoption of noise control measures. The workers may be protected from noise pollution by providing ear muffs to them working in noise zones. The windows and doors of the houses located adjoining the roads should be kept closed to avoid the prevent the flow of noise into the houses.	Contractor	Site Engineer and E &S officer	No cost

			source of noise during the construction phase. The increase in noise level will have impact on the peaceful environment of the project area.				
5	Biological Environment	Construction	The existing greenery development in the project area is not adequate.	Plantation of adequate numbers of trees on both sides of the roads to improve the air quality should be undertaken.	Contractor	Site Engineer, E&S Officer and PEPO	Should be met from project cost
6	Socio-Economic Environment	Construction	Failure to maintain good relation with the residents in the vicinity of the project site may create unnecessary conflicts with them which will ultimately reflect on the smooth execution of the project.	Maintenance of good relation with local community will facilitate for smooth operation of the project and engagement of local persons in the project operations will also help to increase the progress of the project.	Contractor	Site Engineer and PEPO	No cost
8	Solid waste Environment	Construction	The CC road laying and construction of L drain works will	The solid waste generated may be transported then and there to the designated site to avoid	Contractor	Site Engineer	No cost,

			lead to generation of BT materials scarified, debris and concrete, which will accumulate and cause disturbance for the movement of the vehicles and for other works.	accumulation.			
7	Transportation Environment	Construction	Transportation of road laying equipments, and materials will cause adverse impact on the existing traffic of that area as well as on the routine mobility of residents / school going children's in the roads.	To mitigate the issue, the mobility of road laying equipments and transportation of materials to the project sites shall be undertaken during late night times. Alternate routes shall be provided at the time of the work for the easy mobility of the public's of that area and also sign boards depicting the alternate routes / ways should be installed wherever necessary.	Contractor	Site Engineer	Should be met from project cost
8	COVID-19 pandemic measures	Construction	Amid COVID-19 pandemic, the workers of the site may be infected	In order to prevent spread of COVID-19 infection it is important that necessary measures should be adhered strictly which are as follows	Contractor And Municipality	Site Engineer	0.05 Expenditure may be met from contingency

				(i) The workers should be insisted to get vaccinated for COVID_19 and they should be engaged only after verifying the respective certificates (ii) Physical distancing of at least 6 feet to be followed as far as feasible. (Iii) Use of face covers/masks to be made mandatory. (iv) Frequent hand washing with soap (for at least 40-60 seconds) even when hands are not visibly dirty. Use of alcohol-based hand sanitizers (for at least 20 seconds) can be done wherever feasible (V)Respiratory etiquettes to be strictly followed. This involves strict practice of covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing off used tissues properly. (vi) Self-monitoring of health by all and reporting any illness at the earliest.			fund

				(vii) Spitting shall be strictly prohibited. (viii) Installation & use of AarogyaSetu App shall be advised wherever feasible.			

SUB-WORK B: ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN FOR THE PROJECT – IMPROVEMENT TO THE LINK ROAD TO L.S NAGAR EWS HOUSING PROJECT AREA FROM VILLIANUR MAIN ROAD (NH) AND 1st TO 4th CROSS ROAD AT SUDHAGAR NAGAR, REDDIYARPALAYM, PUDUCHERRY.

Sl. No	Envt. / Social attribute		Potential E & S impacts	Mitigation measures	Responsibility		Cost estimate Rs.(Cr.)
	Parameter	Aspect			Implementations	Supervision	
1	Project site / location Improvement to the link road between L.S nagar and sudhagar nagar	Improvement of the existing link road	Detailed below		Oulgaret Municipality	Site Engineer E & S Officer PEPO	0.83
2	Water Environment	Construction (Improvement of existing road)	The waste water generated during the project activities is very meagre which may flood in the project area and cause disturbance to the	The waste water should be properly channelized and let into the nearby canal without any flooding. Besides during, improvement of the road, necessary	Contractor	Site Engineer, E & S Officer, PEPO	No cost

			ongoing work.	drainage canal on both sides of the roads should be constructed to ensure free flow of storm water without any stagnation during rainy times.			
3	Air Environment	Construction	The dust emissions during road improvement activities like chipping, demolishing of the existing road will have impact on air quality environment and will have impact on the health of the nearby residents of the houses adjoining the roads.	Measures like sprinkling of water to suppress the dust, use of covering sheets in the trucks may reduce the emissions. The doors and windows of the houses adjoining the roads should be kept closed at the time of work to prevent the flow / fly of emissions into the houses.	Contractor	Site Engineer & E &S officer	No cost
4	Noise Environment	Construction	During improvement activities, noise levels will increase due to use of machineries and vehicles in the project area. Unloading of road laying materials, will also the another source for increase of noise. The increases in noise level will have disturbances on the peaceful environment of that area.	Ambient noise level in the site may be reduced through maintenance of machineries and vehicles. The doors and windows of the houses adjoining the roads should be kept closed at the time of work to prevent the flow of noises into the houses.	Contractor	Site Engineer & E &S officer	No cost

5	Biological Environment	Construction	The existing greenery development in the project area is not adequate.	Plantation of adequate numbers of trees on both sides of the roads to improve the air quality should be undertaken.	Contractor	Site Engineer & E &S officer	Should be met from project cost
6	Socio-Economic Environment	Construction	Failure to maintain good relation with the local community / residents of the project site may create unnecessary conflicts with them which may hinder the smooth execution of the project.	Maintenance of good relation with local community will facilitate for smooth operation of the project and engagement of local persons in the project operations will also help to increase the progress of the project.	Contractor	Site Engineer & PEPO	No cost
7	Transportation Environment	Construction	Transportation of road laying equipments, and materials will cause adverse impact on the existing traffic of that area as well as on the routine mobility of residents / school going children's in the roads.	To mitigate the issue, the mobility of road laying equipments and transportation of materials to the project sites shall be undertaken during late night times. Alternate routes shall be provided at the time of the work for the easy mobility of the public's of that area and also sign boards depicting the alternate routes / ways should be installed wherever necessary.	Contractor	Site Engineer	Should be met from project cost

8	COVID-19 pandemic measures	Construction	Amid COVID-19 pandemic, the workers of the site may be infected	In order to prevent spread of COVID-19 infection it is important that necessary measures should be adhered strictly which are as follows (i) The workers should be insisted to get vaccinated for COVID_19 and they should be engaged only after verifying the respective certificates (ii) Physical distancing of at least 6 feet to be followed as far as feasible. (Iii) Use of face covers/masks to be made mandatory. (iv) Frequent hand washing with soap (for at least 40-60 seconds) even when hands are not visibly dirty. Use of alcohol-based hand sanitizers (for at least 20 seconds) can be done wherever feasible (V)Respiratory etiquettes to be strictly followed. This involves strict practice of	Contractor And Municipality	Site Engineer	0.05 Expenditure may be met from contingency fund

				covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing off used tissues properly. (vi) Self-monitoring of health by all and reporting any illness at the earliest. (vii) Spitting shall be strictly prohibited. (viii) Installation & use of AarogyaSetu App shall be advised wherever feasible.			

SUB-WORK C: ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN FOR THE PROJECT - IMPROVEMENT TO THE INTERNAL ROADS AND DEVELOPMENT OF PARK, PLAY GROUND & COMPOUND WALL OF SLUM BOARD EWS HOUSING PROJECT SITE AT JAWAHAR NAGAR BOOMIANPET, PUDUCHERRY.

(A). IMPROVEMENTS TO THE INTERNAL ROADS.

Sl. No	Envt. / Social attribute		Potential E & S impacts	Mitigation measures	Responsibility		Cost estimate Rs. (Cr.)
	Parameter	Aspect			Implementations	Supervision	
1	Project site / location Jawahar Nagar Boomianpet	Improvement to the Internal Roads and Development of Park, Play	Detailed below		Oulgaret Municipality	Site Engineer, E & S Officer,	1.15

		Ground & Compound Wall				PEPO	
2	Water Environment	Construction (Improvement of existing road)	The waste water generated during the project activities is very meagre which may flood in the project area and cause disturbance to the ongoing work	The waste water should be properly channelized and let into the nearby canal without any flooding. Besides during, improvement of roads, necessary drainage canal on both sides of the roads should be constructed to ensure free flow of storm water without any stagnation during rainy times.	Contractor	Site Engineer, E & S Officer, PEPO	No cost
3	Air Environment	Construction	The dust emissions during road improvement activities like chipping and demolishing of the existing road will have impact on air quality environment and will have impact on the health of the residents of the houses adjoining the roads.	Measures like sprinkling of water to suppress the dust, use of covering sheets in the trucks may reduce the emissions. The doors and windows of the houses adjoining the roads should be kept closed at the time of work to prevent the flow / fly of emissions into the houses.	Contractor	Site Engineer & E &S officer	No cost

4	Noise Environment	Construction	During improvement activities, noise levels will increase due to use of machineries and vehicles in the project area. Unloading of road laying materials, will be the major source of noise during the construction phase. The increases in noise level will have disturbances on the peaceful environment of that area.	Ambient noise level in the site may be reduced through maintenance of machineries and vehicles. The doors and windows of the houses adjoining the roads should be kept closed at the time of work to prevent the flow / fly of noises into the houses.	Contractor	Site Engineer & E &S officer	No cost
5	Biological Environment	Construction	The existing greenery development in the project area is not adequate.	Plantation of adequate numbers of trees on both sides of the roads to improve the air quality should be undertaken.	Contractor	Site Engineer, E&S Officer & PEPO	Should be met from project cost
6	Socio-Economic Environment	Construction	Failure to maintain good relation with the residents in the vicinity of the project site may create unnecessary conflicts with them which will hinder the smooth execution of the project.	Maintenance of good relation with local community will facilitate for smooth operation of the project and engagement of local persons in the project operations will also help to increase the progress of the project.	Contractor	Site Engineer and PEPO	No cost

7	Transportation Environment	Construction	Transportation of road laying equipments, and materials will cause adverse impact on the existing traffic of that area as well as on the routine mobility of residents / school going children's in the roads.	To mitigate the issue, the mobility of road laying equipments and transportation of materials to the project sites shall be undertaken during late night times. Alternate routes shall be provided at the time of the work for the easy mobility of the public's of that area and also sign boards depicting the alternate routes / ways should be installed wherever necessary.	Contractor	Site Engineer	Should be met from project cost
8	COVID-19 pandemic measures	Construction	Amid COVID-19 pandemic, the workers of the site may be infected	In order to prevent spread of COVID-19 infection it is important that necessary measures should be adhered strictly which are as follows (i) The workers should be insisted to get vaccinated for COVID_19 and they should be engaged only after verifying the respective certificates (ii) Physical distancing of at least 6 feet to be followed as far as feasible. (Iii) Use of face covers/masks to be made mandatory. (iv) Frequent hand washing with soap (for at least 40-60 seconds) even	Contractor And Municipality	Site Engineer	0.05 Expenditure may be met from contingency fund

				when hands are not visibly dirty. Use of alcohol-based hand sanitizers (for at least 20 seconds) can be done wherever feasible (V)Respiratory etiquettes to be strictly followed. This involves strict practice of covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing off used tissues properly. (vi) Self-monitoring of health by all and reporting any illness at the earliest. (vii) Spitting shall be strictly prohibited. (viii) Installation & use of AarogyaSetu App shall be advised wherever feasible.			

(B). ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN FOR THE DEVELOPMENT OF PARK

- The area allocated for the park should be peg marked and properly fenced
- The design of park should be undertaken in consultation with Dept. of Social Forestry / PKVK or the concerned wing of Dpt. Of agriculture or college of Agriculture (PAJANACOA) and thereafter the development should be undertaken.
- The park area should be leveled and the fertility of the soil should be improved by applying Bio-fertilizer
- The plant species proposed to be planted should provide sufficient shadow and should withstand the heavy wind and cyclonic wind. The plant species proposed to be planted should be identified in consultation with the Dept. of Social Forestry / PKVK or the concerned wing of Dept. of Agriculture or college of Agriculture (PAJANCOA).

- Drip Irrigation system should be adopted for irrigating the plant species and Sprinkler Irrigation system should be adopted for irrigating the gross lawn
- Gardener should be identified from the community or Gardener should be appointed to look after the day to day maintenance of the Garden.

(C). ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN FOR THE DEVELOPMENT OF PLAY GROUND

- The area allocated for the Play Ground should be peg marked and properly fenced
- The Play Ground should be leveled and should be designed in consultation with local community and local sports authority.
- Care should be taken that the play equipments and instruments to be installed does not have sharp edges.
- At the end of the sliding play equipments sand bed should be provided.
- To induce the fine motor skill and / Grass Motor skill of the growing children graded pebbles bet should the created in sufficient places of the play ground.

(D). ENVIRONMENTAL & SOCIAL MANAGEMENT PLAN FOR THE DEVELOPMENT OF COMPOUND WALL

- While undertaking excavation for foundation, care should be taken to avoid damages to the underground water supply line / sewerage water line etc., traversing in that area.
- The meagre quantity of waste water generated during construction should be properly channelized and let into the nearby canal safely to avoid flooding of waste water in the working spot.
- The dust emission during construction activities are minimal and should be controlled by sprinkling of water.
- Subsequent to the construction of the compound wall, thematic paintings shall be undertaken on the surface of the wall which should be visible to the public's in order to create awareness on cleanliness, protection and conservation of environment, child safety and education etc.,

SUB-WORK D: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN FOR THE PROJECT – PROVIDING CEMENT CONCRETE ROAD WITH DRAINAGE FACILITIES TO THE MAIN ROADS AND INTERNAL CROSS STREETS OF JEEVANANTHAPURAM AREA IN LAWSPET CONSTITUENCY, PUDUCHERRY.

Sl.no	Envt. / Social attribute		Potential E & S impacts	Mitigation measures	Responsibility		Cost estimates in Rs. in crores
	Parameter	Aspect			Implement-ations	Supervision	
1	Project site / location Jeevananthapuram Area In Lawspet	Laying of cc road with drainage facilities	Detailed below		Oulgaret Municipality	Site Engineer, E & S Officer and PEPO	2.37
2	Water Environment	Construction	The waste water generated during construction activities may be flooded within the project site, which may cause disturbance to the project activities and may pollute surface soil and ground water if it leaches into ground.	The waste water generated should be properly channelized and let into the nearby drain to avoid flooding of waste water in the project area and to avoid soil and water pollution.	Contractor	Site Engineer, E & S Officer	No cost
3	Air	Construction	The main sources of dust emissions during the project activities are scarifying the existing BT roads, transportation of construction materials to the site and other road laying activities. The emissions have the risk of deteriorating the air quality in the	Measures like sprinkling of water, covering of storage material and use of covering sheets in the trucks may reduce the emissions. The windows and doors of the houses located adjoining the roads should be kept closed at the time of work to avoid the flow of dusts /	Contractor	Site Engineer and E &S officer	No cost

			project area and cause breathing problem to the residents of the houses adjoining the roads.	emissions into the houses.			
4	Noise	Construction	During scarifying the existing BT roads, transportation of construction materials to the site, laying of CC road may increase the noise level. Also operation of power shovels and vehicles in the project area, are also the source of noise during the construction phase. The increase in noise level will have impact on the peaceful environment of the project area.	Ambient noise level in the site may be reduced through maintenance of construction machineries / vehicles and adoption of noise control measures. The workers may be protected from noise pollution by providing ear muffs to them working in noise zones. The windows and doors of the houses located adjoining the roads should be kept closed to prevent the flow of noise into the houses.	Contractor	Site Engineer and E &S officer	No cost
5	Biological	Construction	The existing greenery development in the project area is not adequate.	Required space should be provided to the possible extent on both sides of the roads for Plantation of trees and also appropriate tree species giving sufficient shadow should be planted to improve the air quality.	Contractor	Site Engineer, E&S Officer and PEPO	No cost
6	Socio-Economic	Construction	• Failure to maintain good relation with the residents of the project area may create unnecessary	• Maintenance of good relation with local community will facilitate for smooth operation of the project and	Contractor	Site Engineer and PEPO	No cost

			conflicts with them which will ultimately hinder the smooth execution of the project.	engagement of local persons in the project operations will also help to increase the progress of the project. • Before laying the CC roads, it should be ensured that the toilet sewer pipes and sullage water sewer pipes of all houses should be properly connected to the underground sewer system and also it should be ensured that the flow from the sewer lines of houses to the underground sewer system functions are proper.			
7	Solid waste	Construction	The scarifying of the existing BT roads will lead to generation of debris which will accumulate in the working site and cause disturbance to the ongoing works.	The solid waste generated may be transported then and there to the designated site to avoid accumulation in the site.	Contractor	Site Engineer	No cost,
8	Transportation	Construction	Transportation of road laying equipments, and materials will cause adverse impact on the existing traffic of that area as well as on the routine mobility of	To mitigate the issue, the mobility of road laying equipments and transportation of materials to the project sites shall be undertaken during late night times. Alternate	Contractor	Site Engineer	Should be met from project cost

			residents / school going children's in the roads.	routes shall be provided at the time of the work for the easy mobility of the public's of that area and also sign boards depicting the alternate routes / ways should be installed wherever necessary.			
9	COVID-19 pandemic measures	Construction	Amid COVID-19 pandemic, the workers of the site may be infected	In order to prevent spread of COVID-19 infection it is important that necessary measures should be adhered strictly which are as follows (i) The workers should be insisted to get vaccinated for COVID_19 and they should be engaged only after verifying the respective certificates (ii) Physical distancing of at least 6 feet to be followed as far as feasible. (Iii) Use of face covers/masks to be made mandatory. (iv) Frequent hand washing with soap (for at least 40-60 seconds) even when hands are not visibly dirty. Use of alcohol-based hand sanitizers (for at least 20 seconds) can be done wherever feasible (V)Respiratory etiquettes			

				to be strictly followed. This involves strict practice of covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing off used tissues properly. (vi) Self-monitoring of health by all and reporting any illness at the earliest. (vii) Spitting shall be strictly prohibited. (viii) Installation & use of AarogyaSetu App shall be advised wherever feasible.			

SUB-WORK E: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN FOR THE PROJECT – IMPROVEMENT TO THE ROADS AND DRAINS AT PAVANAR NAGAR IN OULGARET CONSTITUENCY, PUDUCHERRY.

Sl.no	Envt. / Social attribute		Potential E & S impacts	Mitigation measures	Responsibility		Cost estimates in Rs. in crores
	Parameter	Aspect			Implement-ations	Supervision	
1	Project site / location Pavanar Nagar	Improvement to the roads and drains	Detailed below		Oulgaret Municipality	Site Engineer, E & S Officer and PEPO	3.98
2	Water Environment	Construction	• The waste water generated during project activities may be flooded within the project site, which may	• The waste water generated should be properly channelized and let into the nearby drain to avoid flooding of waste water in the	Contractor	Site Engineer, E & S Officer	No cost

			cause disturbance to the project activities. • It has been observed that in certain parts of the road, the levels are not uniform. Hence stagnation of sullage water / storm water occurred in that places.	project area. • To mitigate the issue, while laying the roads and improving the drains, the level of roads should be raised to the required level duly providing proper gradient for proper drain and free flow of sullage water / storm water without any stagnation.			
3	Air	Construction	The main sources of dust emissions during the project activities are chipping the existing BT roads, demolition of damaged drainage structures, transportation of construction materials to the site and other road laying activities. The emissions have the risk of deteriorating the air quality in the project area and cause breathing problem to the residents of the houses adjoining the roads.	Measures like sprinkling of water, covering of storage material and use of covering sheets in the trucks may reduce the emissions. The windows and doors of the houses located adjoining the roads should be kept closed at the time of work to avoid the flow of dusts / emissions into the houses.	Contractor	Site Engineer and E &S officer	No cost
4	Noise	Construction	During chipping the existing BT roads, demolition of damaged drainage structures,	Ambient noise level in the site may be reduced through maintenance of construction machineries /	Contractor	Site Engineer and E &S officer	No cost

			transportation of road laying materials to the site, laying of BT road may increase the noise level. Also operation of power shovels and vehicles in the project area, are also the source of noise during the project activities. The increase in noise level will have impact on the peaceful environment of the project area.	vehicles and adoption of noise control measures. The workers may be protected from noise pollution by providing ear muffs to them working in noise zones. The windows and doors of the houses located adjoining the roads should be kept closed to prevent the flow of noise into the houses.			
5	Biological	Construction	The existing greenery development in the project area is not adequate.	Required space should be provided to the possible extent on both sides of the roads for Plantation of trees and also appropriate tree species giving sufficient shadow should be planted to improve the air quality.	Contractor	Site Engineer, E&S Officer and PEPO	No cost
6	Socio-Economic	Construction	Failure to maintain good relation with the residents of the project area may create unnecessary conflicts with them which will ultimately hinder the smooth execution of the project.	Maintenance of good relation with local community will facilitate for smooth operation of the project and engagement of local persons in the project operations will also help to increase the progress of the project.	Contractor	Site Engineer and PEPO	No cost

7	Solid waste	Construction	The chipping of the existing BT roads and demolition of damaged drain structures will lead to generation of debris and concrete which will accumulate in the working site and cause disturbance to the ongoing works.	The solid waste generated may be transported then and there to the designated site to avoid accumulation in the site.	Contractor	Site Engineer	No cost,
8	Transportation	Construction	Transportation of road laying equipments, and materials will cause adverse impact on the existing traffic of that area as well as on the routine mobility of residents / school going children's in the roads.	To mitigate the issue, the mobility of road laying equipments and transportation of materials to the project sites shall be undertaken during late night times. Alternate routes shall be provided at the time of the work for the easy mobility of the public's of that area and also sign boards depicting the alternate routes / ways should be installed wherever necessary.	Contractor	Site Engineer	Should be met from project cost
9	COVID-19 pandemic measures	Construction	Amid COVID-19 pandemic, the workers of the site may be infected	In order to prevent spread of COVID-19 infection it is important that necessary measures should be adhered strictly which are as follows (i) The workers should be insisted to get vaccinated for COVID_19 and they should be engaged only after			

				verifying the respective certificates (ii) Physical distancing of at least 6 feet to be followed as far as feasible. (Iii) Use of face covers/masks to be made mandatory. (iv) Frequent hand washing with soap (for at least 40-60 seconds) even when hands are not visibly dirty. Use of alcohol-based hand sanitizers (for at least 20 seconds) can be done wherever feasible (V)Respiratory etiquettes to be strictly followed. This involves strict practice of covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing off used tissues properly. (vi) Self-monitoring of health by all and reporting any illness at the earliest. (vii) Spitting shall be strictly prohibited. (viii) Installation & use of AarogyaSetu App shall be advised wherever feasible.			

SUB-WORK F: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN – PROVISION OF LPG CREMATORIUM IN THE BURIAL GROUND AT PAVAZHAKARANCHAVADY, PUDUCHERRY.

Sl. No.	Envt. / Social attribute		Potential E & S impacts	Mitigation measures	Responsibility		Cost estimate Rs. in Crs.
	Parameter	Aspect			Implementations	Supervision	
1	Project site / location Burial Ground - Pavazhakaranchavady	Provision Of LPG Crematorium In The Burial Ground	Detailed below		Oulgaret Municipality	Site Engineer, E & S Officer, PEPO	1.6
2	Water Environment	Construction	• Meager quantity of waste water will be generated during construction activities and may be flooded within the project site, which may cause disturbances to the project activities and also there is chance of risk that the waste water may cause pollution to the surface soil and to the ground water if it leaches into ground. • The existing drainage system is poor in the project site. As a result stagnation of storm water is occurring in many locations during rainy times.	• The waste water generated should be properly channelized and let into the nearby drain without any flooding in the project site to avoid the pollution of soil and ground water in the project area. • To improve the drainage in the campus of the burial ground, proper drainage system should be designed covering the entire campus and the infrastructure should be constructed enabling for quick draining of storm water without any stagnation.	Contractor	Site Engineer and E &S officer	No cost

3	Air Environment	Construction	The main sources of dust emission are due to transportation of construction materials and due to construction of CC foundation for installation of LPG crematorium equipment and laying of internal roads. The dust emissions will have impact on the air quality of that area which ultimately have a risk of causing adverse impact on the health of the nearby residents.	Measures like sprinkling of water, covering of storage material and use of covering sheets should be done for trucks etc. may reduce the emissions. The doors and windows of the houses located in the vicinity of the construction site should be kept closed to avoid the inflow of dusts into the houses.	Contractor	Site Engineer and E &S officer	No cost
4	Noise Environment	Construction	During construction activities and laying of internal roads, noise levels may increase in the project area. Transportation of construction materials, fabrication activities, etc., are also the sources to increase the noise level. The increase the noise level may have the risk of causing effect on the peaceful environment of that area.	The doors and windows of the houses located in the project site may be kept closed during peak construction activities to avoid the flow of noise into the houses.	Contractor	Site Engineer and E &S officer	No cost
5	Biological Environment	Construction	The existing greenery development in the burial ground campus is not adequate to maintain the air quality of that area.	To improve the air quality of that area, adequate tree species should be planted in consultation with PKVK / Department of Agriculture / Department of Social Forestry.	Contractor	Site Engineer, E & S Officer, PEPO	The expenditure shall be met from the project cost

6	Socio-Economic Environment	Construction	• The construction activities should not cause any disturbances to the routine cremation / burial / funeral process in the burial ground and separate yard should be provided for the cremation activities till the construction is completed. • While undertaking the construction activities, care should be taken that any damage should not be caused to the existing cemeteries in the burial ground. • During construction security arrangement should be provided to prevent the entry of trespassers and anti social elements into the burial ground campus.	Municipality	Site Engineer And PEPO	No cost
		Operation	• Subsequent to the construction of the compound wall, it should be painted and philosophical thoughts related to life may be quoted in the wall or pictures depicting the environmental issue and to mitigate the issue may be painted on the wall. • Subsequent to the installation of LPG crematorium equipment, the workers of the burial ground should be trained through the equipment supplier on the operation, handling and maintenance of the equipment. Also responsibility on the maintenance of the equipment should be entrusted to the workers. • AMC should be made with the equipment supplier for servicing and repairing the equipment as and when required. • Subsequent to the installation of the equipment, the fees for utilizing the equipment by public should be devised judiciously and levy the same from the public as and when needed by them. • A fresh financial model should be evolved for payment of salaries / wages to the workers involved on the operation of the equipment. • LPG cylinders to operate the equipment should be			

			made available without any interruption and additional cylinders should be kept in a store room within the campus of the burial ground and the gas cylinder storage godown should be equipped with the required fire fighting arrangements. The workers should be trained on the handling of fire fighting equipments in case of emergency.				
7	Solid waste Environment	Construction	During construction activities and laying of internal roads, solid waste like debris, concrete wastes, etc., will be generated. Accumulation of solid waste in the project site will cause disturbance to the project activities.	Transportation of solid waste debris to the designated site.	Contractor	Site Engineer	No cost
7	Transportation Environment	Construction	Transportation of construction equipments, transportation of construction material and construction waste will cause adverse impact on the existing traffic of that area as well as on the routine mobility of residents / students in the roads close to the site.	To mitigate the issue, mobility of construction equipments and transportation of construction materials and also disposal of construction waste shall be undertaken during late night times.	Contractor	Site Engineer	No cost
8	COVID-19 pandemic measures	Construction	Amid COVID-19 pandemic, the workers of the site may be infected	In order to prevent spread of COVID-19 infection it is important that necessary measures should be adhered strictly which are as follows (i) The workers should be insisted to get vaccinated for COVID_19 and they should	Contractor And Municipality	Site Engineer	0.5 lakhs , expenditure may be met from contingency fund

				be engaged only after verifying the respective certificates (ii) Physical distancing of at least 6 feet to be followed as far as feasible. (Iii) Use of face covers/masks to be made mandatory. (iv) Frequent hand washing with soap (for at least 40-60 seconds) even when hands are not visibly dirty. Use of alcohol-based hand sanitizers (for at least 20 seconds) can be done wherever feasible (V)Respiratory etiquettes to be strictly followed. This involves strict practice of covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing off used tissues properly. (vi) Self-monitoring of health by all and reporting any illness at the earliest. (vii) Spitting shall be strictly prohibited. (viii) Installation & use of AarogyaSetu App shall be advised wherever feasible.			

Sl. No.	Envt. / Social attribute		Potential E & S impacts	Mitigation measures	Responsibility		Cost estimate Rs. in Crs.
	Parameter	Aspect			Implementations	Supervision	
1	Project site / location Burial Ground - Mettupalayam	Upgradation To The Cremation And Burial Ground	Detailed below		Oulgaret Municipality	Site Engineer, E & S Officer, PEPO	2.88
2	Water Environment	Construction	• Meager quantity of waste water will be generated during construction activities and may be flooded within the project site, which may cause disturbances to the project activities and also there is chance of risk that the waste water may cause pollution to the surface soil and to the ground water if it leaches into ground. • The existing drainage system is poor in the project site. As a result stagnation of storm water is occurring in many locations during rainy times.	• The waste water generated should be properly channelized and let into the nearby drain without any flooding in the project site to avoid the pollution of soil and ground water in the project area. • To improve the drainage in the campus of the burial ground, proper drainage system should be designed covering the entire campus and the infrastructure should be constructed enabling for quick draining of storm water without any stagnation.	Contractor	Site Engineer and E &S officer	No cost

3	Air Environment	Construction	The main sources of dust emissions are laying of internal roads, transportation of construction materials and due to construction of CC foundation for installation of LPG crematorium equipment. Since absence of any habitation in the project campus, the effect due to emissions is nil.	Not applicable	Contractor	Site Engineer and E &S officer	No cost
4	Noise Environment	Construction	The main sources for increase of noise level in the site are laying of internal roads, transportation of construction materials and construction of CC foundation for installation of LPG crematorium equipment. Since absence of any habitation in the project campus, the effect due to increase of noise is nil.	Not applicable	Contractor	Site Engineer and E &S officer	No cost
5	Biological Environment	Construction	The existing greenery development in the burial ground campus is not adequate to maintain the air quality of that area.	To improve the air quality of that area, adequate tree species should be planted in consultation with PKVK / Department of Agriculture / Department of Social Forestry.	Contractor	Site Engineer, E & S Officer, PEPO	The expenditure shall be met from the project cost

6	Socio-Economic Environment	Construction	• The construction activities should not cause any disturbances to the routine cremation / burial / funeral process in the burial ground and separate yard should be provided for the cremation activities till the construction is completed. • While undertaking the construction activities, care should be taken that any damage should not be caused to the existing cemeteries in the burial ground. • During construction, security arrangement should be provided to prevent the entry of trespassers and anti social elements into the burial ground campus.	Municipality	Site Engineer And PEPO	No cost
		Operation	• Subsequent to the construction of the compound wall, it should be painted and philosophical thoughts related to life may be quoted in the wall or pictures depicting the environmental issue and to mitigate the issue may be painted on the wall. • Subsequent to the installation of LPG crematorium equipment, the workers of the burial ground should be trained through the equipment supplier on the operation, handling and maintenance of the equipment. Also responsibility on the maintenance of the equipment should be entrusted to the workers. • AMC should be made with the equipment supplier for servicing and repairing the equipment as and when required. • Subsequent to the installation of the equipment, the fees for utilizing the equipment by public should be devised judiciously and levy the same from the public as and when needed by them. • A fresh financial model should be evolved for payment of salaries / wages to the workers involved on the operation of the equipment. • LPG cylinders to operate the equipment should be			

			made available without any interruption and additional cylinders should be kept in a store room within the campus of the burial ground and the gas cylinder storage godown should be equipped with the required fire fighting arrangements. The workers should be trained on the handling of fire fighting equipments in case of emergency.				
7	Solid waste Environment	Construction	During construction activities and laying of internal roads, solid waste like debris, concrete wastes, etc., will be generated. Accumulation of solid waste in the project site will cause disturbance to the project activities.	Transportation of solid waste to the designated site.	Contractor	Site Engineer	No cost
7	Transportation Environment	Construction	Transportation of construction equipments, transportation of construction material and construction waste will cause adverse impact on the existing traffic of that area as well as on the routine mobility of residents / students in the roads close to the site.	To mitigate the issue, mobility of construction equipments and transportation of construction materials and also disposal of construction waste shall be undertaken during late night times.	Contractor	Site Engineer	No cost
8	COVID-19 pandemic measures	Construction	Amid COVID-19 pandemic, the workers of the site may be infected	In order to prevent spread of COVID-19 infection it is important that necessary measures should be adhered strictly which are as follows (i) The workers should be insisted to get vaccinated for COVID_19 and they should	Contractor And Municipality	Site Engineer	0.5 lakhs , expenditure may be met from contingency fund

				be engaged only after verifying the respective certificates (ii) Physical distancing of at least 6 feet to be followed as far as feasible. (Iii) Use of face covers/masks to be made mandatory. (iv) Frequent hand washing with soap (for at least 40-60 seconds) even when hands are not visibly dirty. Use of alcohol-based hand sanitizers (for at least 20 seconds) can be done wherever feasible (V)Respiratory etiquettes to be strictly followed. This involves strict practice of covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing off used tissues properly. (vi) Self-monitoring of health by all and reporting any illness at the earliest. (vii) Spitting shall be strictly prohibited. (viii) Installation & use of AarogyaSetu App shall be advised wherever feasible.			

SUB-WORK H: ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN – PROVISION OF LPG CREMATORIUM IN THE BURIAL GROUND AT SHANMUGAPURAM, KATHIRKAMAM CONSTITUENCY, PUDUCHERRY.

Sl. No	Envt. / Social attribute		Potential E & S impacts	Mitigation measures	Responsibility		Cost estimate Rs. in Crs.
	Parameter	Aspect			Implementations	Supervision	
1	Project site / location Burial Ground - Shanmugapuram	Provision of LPG Crematorium in the Burial Ground	Detailed below		Oulgaret Municipality	Site Engineer, E & S Officer, PEPO	1.76
2	Water Environment	Construction	• Meager quantity of waste water will be generated during construction activities and may be flooded within the project site, which may cause disturbances to the project activities and also there is chance of risk that the waste water may cause pollution to the surface soil and to the ground water if it leaches into ground. • The existing drainage system is poor in the project site. As a result stagnation of storm water may occur in many locations during rainy times.	• The waste water generated should be properly channelized and let into the nearby drain without any flooding in the project site to avoid the pollution of soil and ground water in the project area. • To improve the drainage in the campus of the burial ground, proper drainage system should be designed covering the entire campus and the infrastructure should be constructed enabling for quick draining of storm water without any stagnation.	Contractor	Site Engineer and E &S officer	No cost

3	Air Environment	Construction	The main sources of dust emissions are laying of internal roads, transportation of construction materials and due to construction of CC foundation for installation of LPG crematorium equipment. Since absence of any habitation in the project campus, the effect due to emissions is nil.	Not applicable	Contractor	Site Engineer and E &S officer	No cost
4	Noise Environment	Construction	The main sources for increase of noise level in the site are laying of internal roads, transportation of construction materials and construction of CC foundation for installation of LPG crematorium equipment. Since absence of any habitation in the project campus, the effect due to increase of noise is nil.	Not applicable	Contractor	Site Engineer and E &S officer	No cost
5	Biological Environment	Construction	The existing greenery development in the burial ground campus is not adequate to maintain the air quality of that area.	To improve the air quality of that area, adequate tree species should be planted in consultation with PKVK / Department of Agriculture / Department of Social Forestry.	Contractor	Site Engineer, E & S Officer, PEPO	The expenditure shall be met from the project cost

6	Socio-Economic Environment	Construction	• The construction activities should not cause any disturbances to the routine cremation / burial / funeral process in the burial ground and separate yard should be provided for the cremation activities till the construction is completed. • While undertaking the construction activities, care should be taken that any damage should not be caused to the existing cemeteries in the burial ground. • During construction, security arrangement should be provided to prevent the entry of trespassers and anti social elements into the burial ground campus.	Municipality	Site Engineer And PEPO	No cost
		Operation	• Subsequent to the construction of the compound wall, it should be painted and philosophical thoughts related to life may be quoted in the wall or pictures depicting the environmental issue and to mitigate the issue may be painted on the wall. • Subsequent to the installation of LPG crematorium equipment, the workers of the burial ground should be trained through the equipment supplier on the operation, handling and maintenance of the equipment. Also responsibility on the maintenance of the equipment should be entrusted to the workers. • AMC should be made with the equipment supplier for servicing and repairing the equipment as and when required. • Subsequent to the installation of the equipment, the fees for utilizing the equipment by public should be devised judiciously and levy the same from the public as and when needed by them. • A fresh financial model should be evolved for payment of salaries / wages to the workers involved on the operation of the equipment. • LPG cylinders to operate the equipment should be			

			made available without any interruption and additional cylinders should be kept in a store room within the campus of the burial ground and the gas cylinder storage godown should be equipped with the required fire fighting arrangements. The workers should be trained on the handling of fire fighting equipments in case of emergency.				
7	Solid waste Environment	Construction	During construction activities and laying of internal roads, solid waste like debris, concrete wastes, etc., will be generated. Accumulation of solid waste in the project site will cause disturbance to the project activities.	Transportation of solid waste to the designated site.	Contractor	Site Engineer	No cost
7	Transportation Environment	Construction	Transportation of construction equipments, transportation of construction material and construction waste will cause adverse impact on the existing traffic of that area as well as on the routine mobility of residents / students in the roads close to the site.	To mitigate the issue, mobility of construction equipments and transportation of construction materials and also disposal of construction waste shall be undertaken during late night times.	Contractor	Site Engineer	No cost
8	COVID-19 pandemic measures	Construction	Amid COVID-19 pandemic, the workers of the site may be infected	In order to prevent spread of COVID-19 infection it is important that necessary measures should be adhered strictly which are as follows (i) The workers should be insisted to get vaccinated for COVID_19 and they should	Contractor And Municipality	Site Engineer	0.5 lakhs , expenditure may be met from contingency fund

				be engaged only after verifying the respective certificates (ii) Physical distancing of at least 6 feet to be followed as far as feasible. (Iii) Use of face covers/masks to be made mandatory. (iv) Frequent hand washing with soap (for at least 40-60 seconds) even when hands are not visibly dirty. Use of alcohol-based hand sanitizers (for at least 20 seconds) can be done wherever feasible (V)Respiratory etiquettes to be strictly followed. This involves strict practice of covering one's mouth and nose while coughing/sneezing with a tissue/handkerchief/flexed elbow and disposing off used tissues properly. (vi) Self-monitoring of health by all and reporting any illness at the earliest. (vii) Spitting shall be strictly prohibited. (viii) Installation & use of AarogyaSetu App shall be advised wherever feasible.			