

## INDEX

**Name of Work :** Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.

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**Time Allowed : 12 (Twelve) Months.**

Certified that this bid document contains pages 01 to 181 (One to One Hundred Eighty One excluding front and back cover page).

**Assistant Engineer (P)**  
**CPWD, Jaisalmer**

**Executive Engineer Jaisalmer**  
**CPWD, Jaisalmer**

NIT No. 06/EE/Jaisalmer/2026-27 approved for **Rs. 78,38,766/- (Rupees Seventy Eight Lacs Thirty Eight Thousand Seven Hundred Sixty Six only)** [Civil : Rs.41,81,904/-; Electrical: Rs. 36,56,862/-]

**Executive Engineer Jaisalmer**  
**CPWD, Jaisalmer**

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### **CHECK LIST FOR BIDDERS FOR SUBMISSION OF BIDS**

1. The bidder should read all the instructions, items & conditions, contract clauses, nomenclature of items, specifications etc., contained in the bids document very carefully, before quoting the rates.
2. The bidder should also read the General Conditions of Contract for CPWD works 2020 construction work, published by DG, CPWD, Nirman Bhawan, New Delhi which will be a part of the Agreement with up to date amendments upto the date of receipt of tenders.
3. The bidder shall quote his rates keeping in mind the specifications, terms & conditions, additional and special conditions etc. and nothing extra shall be payable unless otherwise specified.
4. The bidder shall have to make his own arrangement for housing facilities for staff and labour at construction site or to transport the labour to and fro between Construction site and labour camp at his own cost.
5. The bidder should read the specification and special condition and additional conditions etc.
6. The bidder shall make environment friendly arrangement for disposal of dismantle/waste materials from upper floors.
7. **C.P.W.D Contractor's Labour Regulations:**

#### **Payment of Wages (as per DG, CPWD OM no. DG/SE/CM/CON/283 dated 05.05.2015)**

- (i) Wages due to every worker shall be paid to him direct by contractor through Bank or ECS or online transfer to his bank account.
- (ii) All wages shall be paid through bank or ECS or online transfer.
- (iii) It shall be the duty of the contractor to ensure the disbursement of wages through bank account of labour
- (iv) The contractor shall obtain from the junior Engineer or any other authorized representative of the Engineer-in-Charge as the case may be, a certificate under his signature at the end of the entries in the "Register of Wages" or the "Wage cum-Muster Roll" as the case may be in the following form:-  
"Certified that the amount shown in column No.....has been paid to the workman concerned through bank account of labour on.....at....."

#### **8. Modifications as per DG, CPWD OM no. DG/SE/CM/CON/285 dated 04/06/2015:-**

- a. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/registration or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW welfare board and program chart(time and progress) within the period specified in schedule 'F' .
- b. As per recently introduced clause 7A, no running account bill shall be paid for the work till the applicable labour license, registration with EPFO, ESIC and BOCW welfare board whatever applicable are submitted by the contractor to the Engineer- in-charge.
- c. The contractor shall also comply with provision of the interstate migrant workman (regulation of employment) and condition of service Act 1979.

## INFORMATION AND INSTRUCTIONS FOR BIDDERS FOR E-TENDERING FORMING PART OF BID DOCUMENT

The Executive Engineer, Jaisalmer, CPWD, Jaisalmer on behalf of President of India **invites** online Percentage rate bids from approved and eligible CPWD registered contractors of Building & Road category for following work:

S. No.	NIT NO.	Name of work and Location	Estimated cost put to bid	Earnest Money	Stipulated Period of Completion of work (in months)	Last date of online submission of bid copy of receipt of deposition of original EMD and other documents as specified in the bid document.	Time & date of opening of bid
1	2	3	4	5	6	7	8
1.	06/EE/Jaisalmer/2026-27	<b>Comprehensive maintenance through out-sourcing including day to day maintenance A/R &amp; M/O &amp; Special Repair to Civil work and MOEI &amp; fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer &amp; Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise &amp; Customs Department at Jaisalmer, Pokhran &amp; Mayazlar Chohtan, Gadra road &amp; Income Tax Department at Barmer, Balotra During 2026-27 &amp; upto 31<sup>st</sup> July 2027.</b>	<b>Rs. 78,38,766/-</b>	Rs. 1,95,969/-	<b>12 (Twelve) Months</b>	<b>Upto 03:00 PM on 06/07/2026</b>	<b>From 3:30 PM onwards, on 06/07/2026</b>

- The intending bidder must read the terms and conditions of CPWD-6 carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required.
- Information and Instructions for bidders posted on website shall form part of bid document.
- The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website <https://etender.cpwd.gov.in> or [www.cpwd.gov.in](http://www.cpwd.gov.in) free of cost.

4. But the bid can only be submitted after deposition of original EMD either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission and uploading the mandatory scanned documents such as Insurance Surety Bonds, Account Payee Demand draft or Bankers Cheque or Fixed Deposit Receipts or/ and Bank Guarantee (for balance amount as prescribed) from any of the Commercial Bank towards EMD in favour of Executive Engineer as mentioned in NIT, receipt for deposition of original EMD to division office of any Executive Engineer (including NIT issuing EE/ AE), CPWD and other documents as specified.
5. Those contractors who are not registered or have not updated their profile on the website mentioned above, are required to get registered / update their profile beforehand. The necessary training materials including the videos with step to step process are available on download section of <https://etender.cpwd.gov.in>
6. The intending bidder must have valid Class-III digital signature certificate with encryption key (combo type) to perform any operations / transactions on the e-tendering portal / website and the bidder should download and install the eMSigner on their system as per instructions available on download section of <https://etender.cpwd.gov.in>.
7. On opening date, the contractor can login and see the bid opening process. After opening of bids he will receive the competitor bid sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate in the prescribed column(s) meant for quoting rate in figures appears in yellow colour and the moment rate is entered, it turns sky blue. In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0". Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). However, If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

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**10. List of Documents to be scanned and uploaded within the period of bid submission:**

- I. Insurance Surety Bond, Demand Draft/Account Payee Banker's Cheque/FDR/Bank Guarantee of any commercial Bank against EMD.
- II. *Enlistment Order of the Contractor in appropriate class having validity atleast till last date of bid submission.*
- III. GST registration Certificate, if already obtained by the bidder.

**If the bidder has not obtained GST registration as applicable, then he shall scan and upload following undertaking along with bid documents.**

**"If work is awarded to me, I/we shall obtain GST registration certificate, as applicable, within one month from the date of receipt of award letter or before release of any Payment by CPWD, whichever is earlier, failing which I/we shall be responsible for any delay in payments which will be due towards me/us on account of the work executed and/or for any action taken by CPWD or GST department in this regard".**

- IV Copy of receipt for deposited of original EMD issued from division office of any Executive Engineer, CPWD (The EMD document shall only be issued from the place in which the office of receiving division office is situated). (Annexure-I).
- V Certificate of ERP Training
- VI Undertaking as structural stability & soundness as per prescribed formats in Form 'A'.
- VII Copy of PAN Card.
- VIII Address with phone No. and email Id of bidder.
- IX Copy of Electrical license of eligible class of the bidder. In case, bidder doesn't have electrical license, he shall submit an undertaking that

***"I/We will either obtain valid electrical license at the time of execution of electrical work or associate contractors having valid electrical license of eligible class."***

Executive Engineer Jaisalmer  
CPWD, Jaisalmer

## **PART – A**

**NOTICE INVITING e-TENDER (CPWD-6), TENDER FORM (CPWD-7), SCHEDULES - A TO F FOR WORK AND STANDARD GCC FOR CPWD-2023 FOR Maintenance WORK AMENDED/ MODIFIED UP TO LAST DATE OF TENDER SUBMISSION**

**CPWD-6 FOR e-TENDERING**  
**GOVERNMENT OF INDIA**  
**CENTRAL PUBLIC WORKS DEPARTMENT**

**NOTICE INVITING TENDER**

1. **Percentage rate tenders** are **invited** on behalf of the President of India through online composite bids from CPWD enlisted contractors of appropriate class in Buildings & Road category for the following work :-

**“Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil & Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31st July 20227”**

The enlistment of the contractor shall be valid on the last date of submission of bids.

In case the last date of submission of bid is extended, the enlistment of the contractor should be valid on the original date of submission of bids.

- 1.1 The work is estimated to cost of **Rs. 78,38,766/-** This estimate, however, is given merely as a rough guide.
2. Agreement shall be drawn with the successful bidders on prescribed Form No. CPWD-7 of GCC 2023 for maintenance work amended upto last date of Bid Submission, which is available as a Govt. of India Publication and also available on website [www.cpwd.gov.in](http://www.cpwd.gov.in). Bidders shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be **12 (Twelve) Months** from the date of start as defined in schedule „F” or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. The site for the work is available.
5. The bid document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms & conditions of contract to be complied with and other necessary documents except Standard General Conditions of Contract Form can be seen from website <https://etender.cpwd.gov.in> or in the office of the Executive Engineer (Jodhpur) CPWD Jodhpur, free of cost.



6. After submission of the bid the contractor can re-submit revised bid any number of times but before last time and date of submission of tender as notified.
7. While submitting the revised bid, contractor can revise the quoted percentage rates but before last time and date of submission of tender as notified.
8. ~~When bids are invited in three stage system and if it is desired to submit revised financial bid then it shall be mandatory to submit revised financial bid. If not submitted then the bid submitted earlier shall become invalid.~~
9. Earnest Money in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee (for balance amount as prescribed) from any of the Commercial Banks (drawn in favour of **Executive Engineer Jaisalmer CPWD, Jaisalmer** shall be scanned and uploaded on the e-Tendering website within the period of bid submission. The original EMD should be deposited either in the office of Executive Engineer inviting bids or division office of any Executive Engineer, CPWD within the period of bid submission. The EMD receiving Executive Engineer (including NIT issuing EE/AE) shall issue a receipt of deposition of earnest money deposit to the bidder in a prescribed format (enclosed) uploaded by tender inviting EE in the NIT.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, minimum 50% of earnest money or Rs. 20 lac, whichever is less, shall have to be deposited in shape prescribed above, and balance may be deposited in shape of Bank Guarantee of any Commercial bank having validity for a period of 90 days for single bid works and 180 days for two bid system or more from the last date of receipt of bids which is to be scanned and uploaded by the intending bidders.

The earnest money given by all the tenderers except the lowest tenderer shall be refunded immediately after the expiry of stipulated bid validity period or immediately after acceptance of the successful bidder, whichever is earlier. However, in case of two/ three bid system, earnest money deposit of bidders unsuccessful during technical bid evaluation etc. should be returned within 30 days of declaration of result of technical bid evaluation.

Copy of Enlistment Order and certificate of work experience and other documents as specified in the notice inviting e- tender shall be scanned and uploaded on the e-Tendering website within the period of bid submission. However, certified copy of all the scanned and uploaded documents as specified in e- tender notice shall have to be submitted by the lowest bidder within a week physically in the office of tender opening authority. Online bid documents submitted by intending bidders shall be opened only of those bidders, whose original EMD deposited with any division of CPWD and other documents scanned and uploaded are found in order. The bid submitted shall be opened at **03:30 PM on 06/07/2026.**

- (i) The bid submitted shall become invalid if :The bidder is found ineligible.
- (ii) The bidder does not upload scanned copies of all the documents stipulated in the bid document.
- (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of bid and hard copies as submitted physically by the lowest bidder in the office of bid

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opening authority.

- (iv) If a tenderer quotes nil rates against each item in item rate tender or does not quote any percentage above/below on the total amount of the tender or any section / sub head in percentage rate tender, the tender shall be treated as invalid and will not be considered as lowest tenderer.

11. *The contractor whose bid is accepted will be required to furnish performance guarantee at specified percentage of the tendered amount as mentioned in schedule E and within the period specified in Schedule F. This guarantee shall be in the form of Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from any of the Commercial Banks in accordance with the prescribed form.. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F', including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor. The earnest money deposited along with bid shall be returned after receiving the aforesaid performance guarantee. The contractor whose bid is accepted will also be required to furnish either copy of applicable licenses/ registrations or proof of applying for obtaining labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including Provident Fund Code No. If applicable and also ensure the compliance of aforesaid provisions by the subcontractors, if any engaged by the contractor for the said work within the period specified in Schedule F.*

12. The description of the work is as follows:

**“Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil & Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31st July 2027”**

Intending Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their bids as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their bid. A bidders shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge

consequent on any misunderstanding or otherwise shall be allowed. The bidders shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a bid by a bidder implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

13. The competent authority on behalf of the President of India does not bind itself to accept the lowest or any other bid and reserves to itself the authority to reject any or all the bids received without the assignment of any reason. All bids in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the bidders shall be summarily rejected.
14. Canvassing whether directly or indirectly, in connection with bidders is strictly prohibited and the bids submitted by the contractors who resort to canvassing will be liable for rejection.
15. The competent authority on behalf of President of India reserves to himself the right of accepting the whole or any part of the bid and the bidders shall be bound to perform the same at the rate quoted.
16. The contractor shall not be permitted to bid for works in the CPWD Circle (Division in case of contractors of Horticulture/Nursery category) responsible for award and execution of contracts, in which his near relative is posted a Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazetted officer in the Central Public Works Department or in the Ministry of Housing and Urban Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
17. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the Government of India as aforesaid before submission of the bid or engagement in the contractor's service.
18. The bids for the work shall remain open for acceptance for a period of 30 (thirty) days from the date of opening of bids in case of single bid system and 75 (seventy five) days from the date of opening of technical bids in case bids are invited in 2 or 3 bid system.

Further

- (i) If any tenderer withdraws his tender or makes any modification in the terms &

conditions of the tender which is not acceptable to the department within 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 50% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.

- (ii) If any tenderer withdraws his tender or makes any modification in the terms & conditions of the tender which is not acceptable to the department after expiry of 7 days after last date of submission of bids, then the Government shall without prejudice to any other right or remedy, be at liberty to forfeit 100% of the earnest money absolutely irrespective of letter of acceptance for the work is issued or not.
- (iii) In case of forfeiture of earnest money as prescribed in para (i) and (ii) above, the bidders shall not be allowed to participate in the rebidding process of the same work.

19. This notice inviting Bid shall form a part of the contract document. The successful bidder/ contractor, on acceptance of his bid by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-

- (a) The Notice Inviting Bid, all the documents including additional conditions, specifications and drawings, if any, forming part of the bid as uploaded at the time of invitation of bid and the rates quoted online at the time of submission of bid and acceptance thereof together with any correspondence leading thereto.
- (b) Standard C.P.W.D. Form 7/8 or other Standard C.P.W.D. Form as applicable.

## 20. For Composite Bids

20.1.1 The Executive Engineer in charge of the major component will call bids for the composite work. The cost of bid document and Earnest Money will be fixed with respect to the combined estimated cost put to tender for the composite bid.

20.1.2 The bid document will include following three components:

**Part A:-** CPWD-6, CPWD-7/8 including schedule A to F for the major component of the work, Standard General Conditions of Contract for CPWD 2023 (maintenance) as amended/ modified up to previous date of receipt of online bid.

**Part B:-** General / specific conditions, specifications and schedule of quantities applicable to major component of the work.

**Part C:-** Schedule A to F for minor component of the work (competent authority under clause 2 and clause 5 shall be same authority as mentioned in schedule A to F for major components), General/specific conditions, specifications and schedule of quantities applicable to minor component(s) of the work.

20.1.3 The bidders must associate himself, with agencies as per NIT conditions.

20.1.4 *The eligible bidders shall quote rates for all items of major component as well as for all items of minor components of work.*

20.1.5 After acceptance of the bid by competent authority, the EE in charge of

major component of the work shall issue letter of award on behalf of the President of India. After the work is awarded, the main contractor will have to enter into one agreement with EE incharge of major component and has also to sign two or more copies of agreement depending upon number of EE's/DDH incharge of minor components. One such signed set of agreement shall be handed over to EE/DDH incharge of minor component(s).

EE of major component will operate Part A and Part B of the agreement. EE/DDH incharge of minor component(s) shall operate Part- C alongwith Part A of the agreement.

20.1.6 Entire work under the scope of composite bid including major and all minor components shall be executed under one agreement.

20.1.7 Security Deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works.

20.1.8 The main contractor has to associate agencies for specialized component(s) conforming to eligibility criteria as defined in the bid document and has to submit detail of such agency(s) to Engineer-in-Charge of relevant component(s) within prescribed time. Name of the agency(s) to be associated shall be approved by Engineer-in-Charge of relevant component(s).

20.1.9 In case the main contractor intends to change any of the above agency/agencies during the operation of the contract, he shall obtain prior approval of Engineer-in- Charge of relevant specialized component(s).

The new agency/agencies shall also have to satisfy the laid down eligibility criteria. In case Engineer-in-Charge is not satisfied with the performance of any agency, he can direct the contractor to change the agency executing such items of work and this shall be binding on the contractor.

20.1.10 The main contractor has to enter into MoU with agency(s) associated by him . Copy of such MoU shall be submitted to EE/ DDH in charge of each relevant component as well as to EE-in-charge of major component. In case of change of associate contractor, the main agency(s) has to enter into MoU/agreement with the new contractor associated by him.

20.1.11 Running payment for the major component shall be made by EE of major discipline to the main contractor. Running payment for minor components shall be made by the Engineer-in-Charge of the discipline of minor component directly to the main contractor. The CMB shall be maintained independently by Engineer-in- Charge of major and minor components.

20.1.12 A. The composite work shall be treated as complete when all the components of the work are complete. The completion certificate of the composite work shall be recorded by Engineer-in-Charge of major component after record of completion certificate of all other components.

20.1.12B. Final bill of whole work shall be finalized and paid by the EE of major component.

Engineer(s) in charge of minor component(s) will prepare and pass the final bill for their component of work and pass on the same to the EE of major component for including in the final bill for composite contract.

21. ~~Integrity Pact: The contractor shall download the Integrity Pact, which is a part of tender documents, affix his signature in the presence of a witness, and upload the same while submitting online bids for all works of estimated cost put to tender equal or more than the threshold value given in Schedule F. In the event of his failure to sign and upload the Integrity Pact along with other bid documents, his bid shall be rejected.~~

22. The intending bidders are required to update their profile in CPWD e- tender portal and to upload their bids well in advance of last date of submission of tender. Any issue related to updating profile/uploading tender can be resolved through the concerned Executive Engineer/ Assistant Engineer (Phone no \*....., e- mail Id \*.....) or ERP helpline no. 18001803286 or e-mail Id cpwd.support@techmahindra.com. The e- tendering bidders are also advised not to wait to raise any issues till the last date of submission of bid in their own interest.

\*To be filled in by NIT approving authority.

Executive Engineer Jaisalmer  
CPWD, Jaisalmer

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**GOVERNMENT OF INDIA  
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE	<i>Rajasthan</i>	CIRCLE	<i>SE Jodhpur</i>
BRANCH	<i>Civil</i>	DIVISION	<i>EE Jaisalmer</i>

## PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS

**Tender for the work of:** Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.

- (i) *To be submitted by 03.00PM on 06/07/2026*
- i) The online Bid shall be opened in presence of tenderers who may be present at **03.30PM on --- 06/07/2026** --- the office of the: **Executive Engineer Jaisalmer, CPWD Jaisalmer.**
- Issued to: M/s.....

### TENDER

I/We have read and examined the notice inviting tender, schedule, A, B, C, D, E & F Specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work. I/We hereby tender for the execution of the work specified for the President of India within the time specified in Schedule 'F' viz., schedule of quantities and in accordance in all respect with the specifications, designs, drawing and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the Conditions of contract and with such materials as are provided for, by, and in respect of accordance with, such conditions so far as applicable.

I/We agree to keep the tender **open for Thirty (30) days** from the due date of opening of bid and not to make any modification in its terms and conditions.

A sum of Rs. 1,95,969/- is hereby forwarded in proforma Earnest Money Deposit receipt duly signed & stamped as earnest money.

If I/we, fail to furnish the prescribed performance guarantee or fail to commence the work within prescribed period I/we shall be suspended for one year and shall not be eligible to bid for CPWD tenders from date of issue of suspension order. Further, if I/we fail of commence work as specified, I/we agree that President of India or his successors in office shall without prejudice to



any other right or remedy available in law, be at liberty to forfeit the said performance guarantee absolutely.

Further, I/We agree that in case of forfeiture of 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 CPWD 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 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 the safety of the State.

Dated:

Signature of Contractor

Witness:

Postal Address

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 President of India for a sum of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_)

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

- a) \_\_\_\_\_
- b) \_\_\_\_\_
- c) \_\_\_\_\_

For & on behalf of the President of India

Dated:

Signature \_\_\_\_\_  
Designation \_\_\_\_\_

## SCHEDULE – A to F

Operative schedules shall be supplied separately to each intending tenderer)

### SCHEDULE A

Schedule of Quantities (as per PWD-3) : **As per separate sheets attached at page no.**

### SCHEDULE D

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

### SCHEDULE E:

<b>Reference to General Conditions of contract.</b>	General Conditions of contract for Central PWD for Maintenance work 2023 as amended/modified up to previous date of submission of bid.
<b>Name of Work:</b>	Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31 <sup>st</sup> July 2027
<b>Estimated cost of the work:</b>	<b>Rs. 41,81,904/- (Civil)</b>
<b>Earnest money</b>	Rs. 1,95,969/- (to be returned after receiving performance guarantee)
<b>Performance Guarantee</b>	(a) 5% of tendered value or Estimated Cost Put to Tender (ECPT) (whichever is higher). (b) Where the tendered amount is less than eighty percent (80%) of the Estimated Cost Put to Tender (ECPT), the Performance Guarantee, in addition to the requirement under (a) above, shall be increased by an amount equal to the difference between eighty percent (80%) of the ECPT and the tendered amount.
<b>Security Deposit</b>	2.5% of tendered value

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

	Officer Inviting Tender	:	<b>Executive Engineer, CPWD, Jaisalmer</b>
	Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 C	:	Refer Clause-12
	<b>Definitions:-</b>		
2 (v)	Engineer-In-Charge	:	<b>Executive Engineer, CPWD, Jaisalmer</b>
2 (viii)	Accepting Authority	:	<b>Executive Engineer, CPWD, Jaisalmer</b>
2 (x)	Percentage on cost of materials and labour to cover all overheads and profits	:	15%
2 (xi)	Standard Schedule of Rates (Civil)	:	DSR 2023 modified by multiplying correction factor of 0.973 as Director General Office Memorandum No. 158/SE(TAS)/ GST/2024/ 02-E Dt. 08-08-2024 with correction slips issued up to previous day of last date of submission of bids & market based items wherever applicable.
2 (xii)	Department	:	Central Public Works Department
9 (ii)	Standard CPWD Contract (civil)	:	GCC-2023 Maintenance works CPWD Form-7 modified and correction up-to previous date of last date of submission of the tender.
<b>Clause-1:-</b>			
(i)	Time allowed for submission of performance guarantee, Programme Chart(Time and progress) and applicable Labour licenses, registration with EPFO, ESIC and BOCW Welfare Board including provident fund Code No. or proof of applying thereof from the date of letter of acceptance.		<b>07 days</b>
(ii)	Maximum allowable extension with late fee @ <b>0.1 % per day</b> of performance guarantee amount beyond the period as provided in (i) above		<b>05 days</b>
<b>Clause-2</b>	Authority for fixing compensation under clause-2		SE (Jodhpur), CPWD, Jodhpur or his successor
<b>Clause-5</b>	Number of days from the date of issue of letter of acceptance for reckoning date of start.		12 days

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S. No.	Description of Milestone (Physical)	Time allowed in days (from date of start)	Amount to be withheld in case of non achievement of milestone
N/A			
Time allowed for execution of work : <b>12 Months</b>			
<b>Authority to decide.</b>			
(i)	Authority to convey the decision of shifting of milestone and extension of time.	:	EE, Jaisalmer, CPWD, Jaisalmer
(ii)	Authority to decide rescheduling of milestone and extension of time.	:	SE Jodhpur, CPWD, Jodhpur
(iii)	Shifting of date of start in case of delay in handing over of site.	:	Superintending Engineer CPWD Jodhpur

**Proforma of Schedule: Clause 5 schedule of handing over of site**

Part	Portion of Site	Description	Time Period for handing over reckoned from date of issue of letter of intent.
Part A	Portion without any hindrance	Site is available	
Part B	Portions with Encumbrances	-N.A.	

**Clause – 5 :**

**Applicable clause 5**

<b>Clause-6:-</b>	Computerized Measurement Book (CMB) / Electronic Measurement Book (EMB) Mode of Measurement :	<b>CMB</b>
<b>Clause-7:-</b>	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. <b>3,50,000/-</b> for Civil or as mutually agreed by both parties.
<b>Clause-7A:-</b>	Whether Clause-7A shall be applicable.	<b>Yes</b>
<b>Clause-7B:-</b>	Payment to Third Party	Applicable

**Clause -8 – Competent authority to inspect and issue Completion certificate**

S. No.	Competent authority	
1.	For civil work	Executive Engineer, Jaisalmer after recording the Completion Certificate by the Executive Engineer (E & M) Jodhpur
2.	For electrical work	Executive Engineer (E & M) Jodhpur

**Clause 10A**

List of testing equipment to be provided by the contractor at site lab
<b>N.A.</b>

**Clause 10B (ii)**

Whether Clause 10B(ii) shall be applicable	:	No
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**Clause 10C**

Whether Clause 10C shall be applicable	:	Yes
Component of labour expressed as percent of value of work	:	50%

**Clause 10CC**

Whether Clause 10CC shall be applicable	:	No
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**Clause-11:-** (i) Specifications to be followed for Execution of work -

C.P.W.D. Specifications 2019 Vol. I & II with correction slips upto previous date of online submission of bid and as per manufacture specification i/c special conditions & particular specifications.

<b>CLAUSE 12</b>	
<b>Type of work:</b>	<b>Maintenance Work.</b>

**CLAUSE 16**

Competent Authority for deciding reduced rates

Superintending Engineer, Jodhpur or his Successor thereof.

**CLAUSE 18**

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

Sl. No.	Equipment	Numbers (Minimum)
	N.A.	

**Clause19**

Competent Authority to decide penalty for each default–

Clause 19C	Competent Authority to decide penalty for each default	Executive Engineer Jaisalmer, CPWD, Jaisalmer or his Successor.
Clause 19D	Competent Authority to decide penalty for each default	Executive Engineer (Jaisalmer), CPWD, Jaisalmer or his Successor.
Clause 19G	Competent Authority to decide penalty for each default	Executive Engineer Jaisalmer, CPWD, Jaisalmer or his Successor.
Clause 19K	Competent Authority to decide penalty for each default	Executive Engineer (Jaisalmer), CPWD, Jaisalmer or his Successor.

**Clause 25**

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- (i) Conciliator – Special Director General, Chandigarh.
- (ii) Arbitrator Appointing Authority – SE (Jodhpur), CPWD, Jodhpur.
- (iii) Place of Arbitration – Jaisalmer

#### CLAUSE 32

##### “Requirement of Technical Representative (s) and Recovery Rate”

S. No	Requirement of Technical Staff		Minimum experience (Years)	Designation of Technical Staff	Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of Cl. 32
	Qualification	Number of (Major+ Minor component)			Figures
1	Graduate Engineer or Diploma Engineer	Civil	2 or 5 Years Respectively	Project Manager cum planning/ quality/ site/ billing engineer	15,000/- per month per person

- Assistant Engineers retired from Government Services that are holding Diploma will be treated at par with Graduate Engineers.
- Diploma holder with minimum 10 years relevant experience with a reputed construction co. 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.

**ITEMS WHICH ARE TO BE EXECUTED THROUGH SPECIALIZED AGENCY:**

The tenderer(s) must associate with himself, specialized agencies of the appropriate eligibility to components of specialized nature of items/ work of major component listed below individually.

S. No.	Specialized work(s)/ item of work(s) Civil	Estimated Cost Rs. (in Lakh)	Criteria / Acceptable names of associated agencies
1.	Water proofing treatment works.	If item is to be executed in the agreement	<p>The main contractor shall have to associate with agency fulfilling the following eligibility criteria having successfully completed during last seven years ending up to previous day of last date of submission of tender as given below with completion certificate issued by an officer not below the rank of Executive Engineer or equivalent duly attested.</p> <p>i) One similar completed work of value not less than 80% of ECPT amount of this specialized work.</p> <p>OR</p> <p>ii) Two similar completed works each of value not less than 60% of ECPT amount of this specialized work.</p> <p>OR</p> <p>iii) Three similar completed works each of value not less than 40% of ECPT amount of this specialized work.</p> <p>Similar work shall mean “Water proofing work”.</p>

The Guarantee for any leakage in the water proofing work of water tank and any structural defect in the water tank shall be 10 years.

# PART – B



## **ADDITIONAL CONDITIONS FOR (CIVIL WORK)**

### **1.0 General Conditions for Civil Works**

1.1 The work in general shall be carried out in accordance with the CPWD Specifications 2019 Vol. I to II (corrected/ amended up to last date of bid submission) hereinafter referred as CPWD Specifications.

1.2 **Order of Preference:** In case of any difference or discrepancy between the description of items as given in the schedule of quantities, specifications for individual items of work, contract conditions and/or I.S. Codes etc., the following **order of preference** shall be observed :

- (i) Description of items as given in Schedule of quantities
- (ii) Particular specifications, if any, for the item in agreement
- (iii) Special conditions, if any, in agreement
- (iv) Additional conditions, if any, in the agreement
- (v) Tender drawings attached/ issued during execution
- (vi) CPWD Specifications including correction slips up to **previous date of submission of the tender.**
- (vii) General Conditions of Contract 2023 for Maintenance Work with correction slips up to **previous date of submission of the tender.**
- (viii) Indian Standards Specifications of B.I.S.
- (ix) ASTM, BS or other foreign origin code mentioned in agreement.
- (x) Manufacturer's specifications for the item, as decided by Engineer-in-charge.
- (xi) Sound Engineering practices or well established local construction practices.

### **1.3 Source of Material:**

- a. *The water for construction work shall be arranged by contractor. In case, contractor takes water from government source free of cost then recovery of water charges shall be made as per relevant Clauses. The contractor shall get the water tested with regard to its suitability of use in the works and get written approval from the Engineer-in-charge before he proceeds with the use of same of execution of works. If the tubewell water is not suitable, the contractor shall arrange Municipal water or from any other sources at his own cost and nothing extra shall be paid to the contractor on this account. The water shall be got tested at frequency specified in latest CPWD specifications/BIS code. Contractor may be required to install industrial RO plant at site at his own cost, for treating water for construction purpose.*
- b. *Stone for stone masonry, stone aggregates and stone ballast shall be of hard stone variety, mined from Govt. approved mines. The contractor shall submit source(s) of material along with samples of material from that source. Based on stipulated*

*specifications, source and sample shall be approved by the Engineer- in-Charge **Barmer, Jaisalmer Local** is approved for coarse aggregates subjected to confirming the CPWD specification.*

- c. *Coarse and fine aggregates to be used for concrete work, mortar for masonry, plaster etc shall be sourced from Govt. approved mines or manufacturer(s) as approved by Engineer-in-charge. The contractor shall submit source(s) of material along with samples of material from that source. Based on stipulated specifications, source and sample shall be approved by the Engineer-in-Charge **River sand from Sindhari, Barmer Distt, Parawar, Jaisalmer Distt is approved** subjected to confirming the CPWD specification.*
- d. *In schedule of quantity, wherever provision for coarse sand and fine sand is specified in any item, use of washed crushed stone sand or manufactured sand shall also be permissible as per codal provisions. Nothing extra shall be payable or recoverable on this account, over & above the quoted rate(s) of respective item. However decision of the Engineer-in-charge w.r.t. selection of material i.e. natural sand, crushed stone sand, manufactured sand etc. shall be final and binding on contractor.*

a.4 **Testing of Materials:**

(A) Regarding testing of civil & electrical materials, which cannot be tested in site laboratory and/or to be tested at an independent laboratory, the testing of materials shall be conducted in Govt. Laboratory/ Govt. colleges/ IITs/NITs or from the laboratory approved by Engineer-in-charge.

All expenditure to be incurred for testing of the samples including testing charges, cost of sample, packaging, sealing, transportation, loading, unloading etc. shall be borne by the contractor. The contractor shall also make all arrangements for transportation and delivery of samples of materials to the testing laboratory.

**B) Laboratory at site :**

The contractor shall establish a testing lab at site and provide testing equipment and materials for the field tests mentioned in the list of mandatory tests given in CPWD specifications 2019 Vol. 1 & 2. Nothing extra shall be payable to him on this account.

The representatives of the department shall be at liberty to inspect the testing facilities at site and conduct testing at random in consultation with Engineer in charge. The contractor shall provide all necessary facilities for the purpose. The laboratory shall be equipped, inter alia, with the following equipment:

**a) Balances:**

- i) 7 kg to 100 kg capacity, semi-self-indicating type – Accuracy 10 gm.
- ii) 500 gm capacity, semi-self-indicating type Accuracy 1 gm.
- iii) Pan Balance- 5 kg Capacity- Accuracy 10 gm.

- b) **Ovens-** Electrically operated, thermostatically controlled upto 110 degree Centigrade- Sensitivity 1 degree Centigrade.
- c) **Sieves:** as per IS: 460
- i) (i) IS Sieves – 450 mm internal dia of sizes 100 mm, 80 mm, 63 mm, 50 mm, 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3 mm, 4.75 mm, complete with lid and pan. (ii) IS Sieves – 200 mm internal dia (brass frame) consisting of 2.36 mm, 1.18 mm, 600 microns, 425 microns, 300 microns, 212 microns, 150 microns, 90 microns, 75 microns with lid and pan.
- d) Sieve shaker capable of 200 mm and 300 mm dia sieves, manually operated with timing switch assembly.
- e) Equipment for slump test- slump cone, steel plate, tamping rod, steel scale, scoop.
- f) Equipment for concrete testing
- |        |  |                      |
|--------|--|----------------------|
| i)     | Concrete cube moulds 15x15x15cm.   | 18Nos.               |
| ii)    | Pruning Rods 2Kg weight, length 40cm and ramming face 25mm   | 1No.                 |
| iii)   | Extra Bottom plates for 15cm cube mould  | 6Nos.                |
| iv)    | Standard Vibration table for cubes   | 1No                  |
| v)     | Dial gauges 25 mm travel- 0.01 mm/division least count   | 2 Nos.               |
| vi)    | Compression testing machine of 100tone capacity.   | 1 No.                |
|        | Electrical-cum-manually operated   |                      |
| vii)   | Graduated measuring cylinders 200ml capacity   | - 3 Nos.             |
| (viii) | Enamel Trays (for efflorescence test for bricks)   |                      |
| i)     | 300mmx250mmx40mm   | - 2 Nos.             |
| ii)    | Circular plates of 250mm diameter  | - 4 Nos.             |
| i)     | Slump Cone, Steel plate, tamping rod, steel scale, scoop   | - 1 Set              |
| j)     | Gauging trowels 100 mm and 200 m with wooden handles   | - 1 set              |
| k)     | Spatula 100 mm and 200 m with wooden handles   | - 1 set              |
| l)     | Vernier calipers, screw gauge (All digital), SWG   | - 1 set              |
| m)     | Digital paint thickness meater   | - 1 No.              |
| n)     | GI/ MS trays, Wash Bottles, Measuremnt taps and laser meters   | -As per requirement  |
| o)     | Wheel borrow, Floor brushes, wire brush etc.   | - As per requirement |
| p)     | Computer with laser printer  | - 1 set              |
| q)     | Any other equipment for site tests as outlined in BIS codes and as directed by the Engineer-in-charge. |                      |

*Not less than 90% tests for material be performed at site lab with above stated equipment's, however at least 10% testing of materials shall be got done from external laboratories. However, for the tests to be carried out by the external laboratories, the contractor shall supply free of charge all the materials required for testing, including transportation. If the tests which were to be conducted in the site laboratory are conducted in other laboratories for any the reasons the cost of such tests shall be borne by the contractor.*

*All the test in field lab setup at construction site shall be carried out by the Engineering staff deployed by contractor which shall be 100% witnessed by JE and 50% of tests shall be witnessed by AE-in- charge. At least 10% of the tests are to be witnessed by the Executive Engineer.*

### **C) Sampling of Materials:**

- i) Sample of building materials fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge. Articles manufactured by companies of repute and approved by the Engineer-in-Charge shall only be used. Articles bearing BIS certification mark shall be used in case the above are not available, the quality of samples brought by the contractor shall be judged by standards laid down in the relevant BIS specifications. All materials and articles brought by the contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.*
- ii) The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material/work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-Charge. Same shall be removed from the site within the time as directed by the Engineer-in charge at their own cost.*
- iii) BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/materials. Wherever BIS marked materials are brought to the site of work, the contractor shall if required, by the Engineer-in-Charge furnish manufacturers test certificate to establish that the material produced by the contractor for incorporation in the work satisfies the provisions of BIS codes relevant to the material and/or the work done.*
- iv) The contractor shall procure all the materials in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.*
- v) All materials brought by the contractor for use in the work shall be got checked from the Engineer-in-Charge or his authorized representative of the work on receipt of the same at site before use.*
- vi) The contractor shall be fully responsible for the safe custody of the materials issued to him even if the materials are in double lock and key system.*
- vii) The Stone aggregate/stone, sand shall be brought from any quarries subjected to the said materials confirm CPWD specifications.*

#### **a.5 Program Chart:**

- a. The Contractor shall prepare an integrated program chart and action thereof as per GCC 2023 for Maintenance Works - Clause 5.1 of Contract.*
- b. The integrated program chart including civil as well as E & M activities for the execution of work, showing clearly all activities from the start of work to completion, with details of manpower, equipment and machinery required for the fulfillment of the program within the stipulated period and submit the same for approval of the Engineer-*

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*in-Charge within fifteen days of the award of the work. These shall be submitted by the contractor through electronic media besides forwarding hard copies of the same. The integrated program chart so submitted should not have any discrepancy with the physical milestones attached in the contract agreement.*

- c. *The program chart should include the following: -*
  - i) *Descriptive note explaining sequence of various activities.*
  - ii) *Network (PERT/CPM/BAR CHART) prepared on MS project, which will indicate resources in financial terms, manpower and specialized equipment for every important stage.*
  - iii) *Program for procurement of materials by the contractor.*
  - iv) *Program for arranging and deployment of manpower both skilled and unskilled so as to achieve targeted progress.*
  - v) *Program of procurement of machinery / equipment having adequate capacity, commensurate with the quantum of work to be done within the stipulated period, by the contractor.*
  - vi) *Program for achieving monthly milestones and periodic milestones.*
- d. *If at any time, it appears to the Engineer-in-Charge that the actual progress of work does not conform to the approved program referred above, the contractor shall produce a revised program showing the modifications to the approved program by additional inputs to ensure completion of the work within the stipulated time.*
- e. *The submission for approval by the Engineer-in-Charge of such program or the furnishing of such particulars shall not relieve the contractor of any of his duties or responsibilities under the contract. This is without prejudice to the right of Engineer-in-Charge to take action against the contractor as per terms and conditions of the agreement.*
- f. *The contractor shall also be required to submit 2 sets of monthly progress report of the work in a computerized form, every month.*
- g. *The **monthly progress report** shall contain the following:*
  - i) *Construction schedule of the various components of the work through a bar chart for the next month (or as may be specified), showing targeted tasks (including material and labour requirement) and up to date progress.*
  - ii) *Progress chart of the various components of the work that were planned and achieved, for the month as well as cumulative up to the month under reckoning, with reason for deviations, if any in a tabular format*
  - iii) *Plant and machinery statement, indicating those deployed in the work.*
  - iv) *Man-power statement indicating:*
  - v) *Individually the names of all the staff deployed on the work, along with their designations.*
  - vi) *No. of skilled workers (trade wise) and total no. of unskilled workers deployed on the work and their location of deployment i.e. blocks.*

- vii) *Financial statement, indicating the broad details of all the running account payment received up to date, such as gross value of work done, advances taken, recoveries effected, amount withheld, net payments details of cheque payment received, extra/substituted/deviation items if any, etc.*
- viii) *Few photos of the months activities.*

**a.6 QUALITY ASSURANCE**

- a. The proposed building is a prestigious project and quality of work is of paramount importance. Contractor shall have to engage well-experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like exposed RCC works, gypsum plaster, structural steel work, structural glazing, granite and vitrified flooring, Polysulphide / P.U. sealant, expansion joints, factory made door- window shutters, plumbing works, textured paints, grit plastering, water proofing treatment, Extruded Polystyrene insulation boards, aluminum windows, façade works, CC pavements etc. will specially require engagement of skilled workers having experience particularly in execution of such items.
- b. The contractor shall ensure quality construction in a planned and time bound manner. Any sub-standard material / work beyond set out tolerance limit shall be summarily rejected by the Engineer-in-charge & contractor shall be bound to replace / remove such sub-standard / defective work immediately. If any material, even though approved by Engineer-In-Charge is found defective or not conforming to specifications shall be replaced / removed by the contractor at his own risk & cost.
- c. In addition to the supervision of work by CPWD engineers, the officials deployed by the client shall also be carrying out regular and periodic inspection of the ongoing activities in the work and deficiencies, shortcomings, inferior workmanship pointed out by them shall be communicated by CPWD engineers to the contractor. Upon receipt of instructions from Engineer-in-Charge these are also to be made good by necessary improvement, rectification, replacement upto his complete satisfaction. Special attention shall be paid towards line and level of internal and external plastering, exposed smooth surface of RCC members by providing fresh shuttering plates, rubberized linings to all the shuttering joints, accurate joinery work in wooden doors and windows, thinnest joints in stone / tiling / cladding work, non-hollowness in floor and dado tiles work, protection of scratches over flooring by impounding layer of plaster of Paris, water tight pipe linings, absence of hollow vertical joints in brick masonry, proper compaction of filled up earth etc to achieve an Institution of International standards and up keeping of quality assurance shall be of paramount importance, as such.
- d. Contractor shall submit minimum “Quality Assurance Plan: within 20 days after award of work.
- e. The QA plan shall consist of lot size & number of required tests and frequency of testing. While deciding these, criteria CPWD Specifications & Provisions of BIS Code

and Standard Practices may be referred. Volume of work, Practical Difficulties and Site Conditions etc. may also be kept in view. The lot size, number of tests and frequencies of testing can be altered or modified by the Engineer-in-charge from the prescribed limits.

- f. QA plan should also clearly indicate the Machinery and other Tool & Plants required to be deployed at site by the Contractor. Entire Machinery and T&P may not be required at the start of work, therefore, a proper time schedule by which each Machinery & T&P is to be brought at site should also be indicated.
- g. QA plan should also indicate system of Receipt of Material, testing of the same & Maintenance of Register of Tests.
- h. All the registers of tests carried out at Construction Site or in outside laboratories shall be maintained by the Contractor, which may be inspected by Engineer-in-charge or his/her representative.
- i. The contractor shall allow access to Third Party Quality Assurance agency (TPQA), if engaged by Engineer-in-charge to have a control on quality and methodology of execution. At least 25% of Samples of materials including Cement Concrete Cubes shall be taken jointly by contractor and TPQA / Engineer-in-charge or his authorised representative. All arrangements for transporting and getting them tested shall be made by the contractor.
- j. All the test in field lab setup at construction site shall be carried out by the Quality control team/engineer to be engaged by the contractor which can be witnessed by Engineer-in-charge or his/her representative. A daily intimation of tests to be conducted on a day shall be given to Engineer-in-charge or his/her representative.
- k. All the entries in the registers will be made by the designated Engineering Staff of the contractor.
- l. Contractor shall be responsible for safe custody of all the test registers.
- m. Submission of original/copy of all test registers, material at site register and hindrance register along with each alternate Running Account Bill and with the Final Bill shall be mandatory.
- n. All material received at site shall be entered in MAS Register and copy of Supply order, MTC & Bill-invoice shall be maintained in order. The MAS Registers including Cement and Steel Registers shall be maintained by a qualified staff of contractor which may be inspected by Engineer-in-charge or his/her representative at any time. The intimation of receipt of material shall be sent to Engineer-in-charge or his/her representative on day to day basis for his approval.
- o. All the materials to be used in the work, to give the finished work complete in all respects, shall comply with the requirements of the specifications and shall pass all the tests required as per specifications as applicable or such specifications / standards as directed by the Engineer-in-Charge. However, keeping the Quality Assurance in mind, the Contractor shall submit, on request from the Engineer-in-Charge, his own Quality

Assurance procedures for basic materials and such items, to be followed during the execution of the work, for approval of the Engineer-in-Charge.

- p. All the hidden items such as reinforcement, water supply lines, drainage pipes, conduits, sewers, putty, primers etc. are to be properly tested as per the design conditions before covering and their measurements in computerized measurement book duly test checked shall be deposited with Engineer in charge or his authorized representative, prior to hiding these items.
- q. Water tanks, taps, sanitary, water supply and drainage pipes, fittings and accessories should conform to byelaws and municipal body / corporation where CPWD Specifications are not available. The contractor should engage licenced plumbers for the work and get the materials (fixtures/fittings) tested by the Municipal Body/Corporation authorities wherever required at his own cost.
- r. The contractor shall give performance test of the entire installation(s) as per the standing specifications before the work is finally accepted and nothing extra whatsoever shall be payable to the contractor for the test.
- s. The contractor shall depute Site Engineer & skilled workers as required for the work. He shall submit organization chart along with details of Engineers and supervisory staff. It shall be ensured that all decision-making powers shall be available to the representatives of the contractor itself to avoid any likely delays on this account. The contractor shall also furnish list of persons for specialized works to be executed for various items of work. The contractor shall identify and deploy key persons having qualifications and experience in the similar and other major works, as per the field of their expertise. If during the course of execution of work, the Engineer-in-Charge is of the opinion that the deployed staff is not sufficient or not well experienced; the Contractor shall deploy more staff or better-experienced staff at site to complete the work with quality and in stipulated time limit.
- t. The contractor shall maintain all the work in good condition till the completion of entire work. The contractor shall be responsible for and shall make good, all damages and repairs, rendered necessary due to fire, rain, traffic, floods or any other causes. The Engineer-in-Charge shall not be responsible for any claims for injuries to person/workmen or for structural damage to property happening from any neglect, default, want of proper care or misconduct on the part of the contractor or of any other of his representatives, in his employment during the execution of the work. The compensation, if any, shall be paid directly to the Department / authority / persons concerned, by the Contractor at his own cost.

**a.7 Pour card, check-list for Execution of work**

- a. *As and when any important item is taken up for execution, the Contractor shall develop and submit a checklist and/or pour card. This sample checklist should be got approved from the Engineer-in-charge and should be used at site. This check list should be shown to the Engineer-in-charge or his/her designee during inspection. This procedure is to be*



*followed for all hidden items, CC/RCC work, Steel-reinforcement, shuttering, cast-in-situ mosaic flooring, doors & windows, plumbing, including water supply pipe lines, roof treatment, earth filling etc.*

- b.** *The Contractor shall maintain documentation of the total sequence of this project by way of photography, video recording etc. and submit to Engineer-in-charge for record. Nothing extra shall be payable to the contractor on this account.*

### ***SAMPLE POUR CARD FOR RCC WORK***

**Name of work:**

- |      |  |     |
|------|--|-----|
| 1.0  | GENERAL                                    |     |
| 1.1. | Name of Contractor                         |     |
| 1.2. | Structural Element                         |     |
| 1.3. | Location                                   |     |
| 1.4. | Architectural drawing No.                  |     |
| 1.5. | Structural drawing No.                     |     |
| 1.6. | Approximate quantity and grade of concrete |     |
| 1.7. | Expected start time                        |     |
| 1.8. | Expected finish time                       |     |
| 1.9. | Name of Contractor's Engineer              |     |
| 2.0  | CENTERING TYPE                             |     |
| 2.1  | Adequate vertical supports                 | Y/N |
| 2.2  | Adequate lateral supports                  | Y/N |
| 3.0  | SHUTTERING TYPE                            |     |
| 3.1  | Cleaned                                    | Y/N |
| 3.2  | Oiled                                      | Y/N |
| 3.3  | Leveled                                    | Y/N |
| 3.4  | Holes plugged                              | Y/N |
| 4.0  | REINFORCEMENT TYPE                         |     |
| 4.1  | Cover blocks                               | Y/N |
| 4.2  | Conforms to Drawings                       | Y/N |
| 4.3  | Couplers Tied Properly                     | Y/N |
| 4.4  | Space Bars / chairs                        | Y/N |
| 4.5  | Reinf tied properly                        | Y/N |
| 4.6  | Laps proper                                | Y/N |
| 5.0  | CONCRETE TYPE                              |     |
| 5.1  | Plant informed about mix and type          | Y/N |
| 5.2  | Transit mixer ready                        | Y/N |
| 5.3  | Tower crane ready                          | Y/N |
| 5.4  | Concrete pump ready                        | Y/N |
| 5.5  | Vibrators (Electrical & Diesel Ready)      | Y/N |
| 5.6  | Predetermined Holes left wherever required | Y/N |
| 5.7  | Boards for construction joints             | Y/N |
| 5.8  | Conduits placed in position                | Y/N |
| 5.9  | Fan clamps placed in position              | Y/N |
| 5.10 | Steel templates                            | Y/N |
| 5.11 | Cement slurry                              | Y/N |

Dated:

The above information filled by me after proper verification  
(AUTHORISED SITE ENGINEER OF FIRM)

The above information checked by me  
(JUNIOR/ ASSISTANT ENGINEER)

### **1.8 Sample of Work/Items :**

- a. *The contractor shall invariably prepare the samples of finishing items i.e. flooring of different types, external & internal finishing i/c colour scheme of paint, tiles in dado, flooring in platforms & staircase, water supply & sanitary fittings and any other item as per direction of Engineer-in-charge. The contractor shall proceed with further finishing items only after getting the samples of these items approved in writing from Engineer-in-charge.*
- b. *In case of construction of residential quarters, one sample quarter, each of Type- II and Type –III alongwith one sample room of Boys & Girls Hostel each i/c sample toilet in both hostels within the proposed building, complete in all shape, shall be prepared by the contractor and got approved from Engineer-in-charge in writing. The contractor shall be allowed to proceed with further finishing work only after getting the sample quarters/room/toilet, as applicable, approved in writing from Engineer-in-charge. No extra claim whatsoever beyond the payments due at agreement rates will be entertained from the contractor on this account.*
- c. *In the schedule of quantities/BOQ/preferred make list of items, brand/make of material is mentioned. The contractor shall be required to provide the same brand/make as mentioned in the item/list. If the same are not available in the market or the suppliers adopts monopolistic practice then the approval of other equivalent brand/make are to be obtained from Engineer-in-charge. The contractor will submit such a case at least three months before the materials is required at site. If the rate of other equivalent brand/make are less than the brand/make mentioned in the item, than necessary cost adjustment will be made for difference in rates.*
- d. *During actual execution of item(s) at site, due to change/updation of product specification(s) by manufacturers, there may be minor variation in manufacturer's specifications viz-a-viz specification mentioned in item(s) in Schedule of Quantity (civil, furniture well as electrical work). Such variations shall be allowed with prior permission of Engineer-in-charge for execution of work at site and nothing extra shall be payable to the contractor on this account. The decision of Engineer-in-charge in this matter shall be final and binding on contractor.*

### **d.4 — 3<sup>rd</sup> PARTY QUALITY ASSURANCE**

- a. ~~*In order to achieve high standards of materials, workmanship and overall quality of the execution, an agency of CPWD may carry out Third Party Inspections as part of „Third Party Quality Assurance“. The TPQA may be in house team of CPWD or an external agency. This Contractor will carry out the checks of the quality assurance procedures followed at site, take samples of the materials for independent testing and check the workmanship of the works carried out. The contractor shall extend full co operation to the TPQA in facilitating the inspections and collection of samples and regulate the execution stages with regards to the hold and witness points which shall be strictly adhered to by the contractor. The next stage work shall not be undertaken at the hold point stage and work shall be done in presence of the TPQA representative at the witness stage. The contractor shall be required to co operate with TPQA in carrying*~~

~~out various activities including documentation at no extra time and cost to the owner. In case of any adverse findings by the TPQA, the contractor shall do the needful rectifications to the entire satisfaction of the TPQA and CPWD. If contractor fails to rectify the defects of the serious nature within a reasonable time frame no further payment shall be made.~~

- ~~b. If work is stopped due to non- rectification of defects and delay occurs on this account, no relief in completion of mile stone by way of grant of EOT or any other relaxation be given.~~

#### **d.5 INSPECTION OF WORK**

**d.5.1** In addition to the provisions of relevant clauses of the contract, the work shall also be open to inspection by senior officers of CPWD in addition of the Engineer-in-charge and his authorized representative. The contractor shall at times during the usual working hours and at all times at which reasonable notices of the intention of the Engineer-in-charge or other officers as stated above to visit the works shall have been given to the contractor, either himself be present to receive the orders and instructions or have a responsible representative duly accredited in writing, to be present for that purpose.

#### **d.5.2 Inspection of the work by Architects and other officials**

- a. *The consulting architect for this work shall be inspecting the works including workshops and fabrication factory to ensure that the works are in general being executed according to the design, drawings and specifications laid down in the contract. His observations shall be communicated to the contractor by Engineer-in-charge or his authorized representative and compliance of same by contractor shall be reported to Engineer-in-charge.*
- b. *The consulting architect shall certify on completion of particular building that it has been constructed according to the approved drawings design and specifications.*
- c. *Senior Officers of CPWD, Dignitaries from Central Ministry / Department, State Government and client shall be inspecting the on-going work at site at any time with or without prior intimation. The contractor shall, therefore, keep updated the following requirements and detailing.*
  - (i) Display Board showing detail of work, monthly progress achieved with respect to targets, reason of shortfall, status of manpower, wages being paid for different categories of workers.
  - (ii) Entrance and area surrounding to be kept cleaned.
  - (iii) Display layout plan key plan, building drawings including plans, elevations and sections.
  - (iv) Upto date displays of Bar chart, CPM and PERT etc.
  - (v) Keep details of quantities executed, balance quantities, deviations, possible Extra item, substituted Item etc.
  - (vi) Keep plastic / cloth mounted one sets of building drawings.
  - (vii) Set of Helmets and safety shoes for safety.

### **1.11 RESPONSIBILITY**

- a. *The Contractor shall keep himself fully informed of all relevant acts and laws of the Central & State Governments, orders, decrees of statutory bodies, tribunals having any jurisdiction or authority, which in any manner may affect those engaged or employed and anything related to carrying out the work. All the rules & regulations and bye-laws laid down by District Collector / Municipal Corporation / Urban Development Authority and any other statutory bodies shall be adhered to, by the contractor, during the execution of work. The Contractor shall also adhere to all traffic restrictions notified by the local authorities. The water charges (for municipal water connection as well as tanker water) shall be borne by the contractor. Also, if the contractor obtains water connection for the drinking purposes from the municipal authorities or any other statutory body, the consequent sewerage charges shall be borne by the contractor. All statutory taxes, levies, charges (including water and sewerage charges, charges for temporary service connections and / or any other charges) payable to such authorities for carrying out the work, shall be borne by the Contractor. The Contractor shall arrange to give all notices as required by any statutory / regulatory authority and shall pay to such authority all the fees that is required to be paid for the execution of work. He shall protect and indemnify the Department/ client and its officials & employees against any claim and /or liability arising out of violations of any such laws, ordinances, orders, decrees, by himself or by his employees or his authorized representatives. Nothing extra shall be payable on these accounts.*
- b. *The fee payable to statutory authorities for obtaining the various permanent service connections and Building Use Certificate for the building shall be borne by the Department/ client.*
- c. *The contractor shall assume all liability, financial or otherwise in connection with this contract and shall protect and indemnify the Department from any and all damages and claims that may arise on any account. The Contractor shall indemnify the Department against all claims in respect of patent rights, royalties, design, trademarks of name or other protected rights, damages to adjacent buildings, roads or members of public, in course of execution of work or any other reasons whatsoever, and shall himself defend all actions arising from such claims and shall indemnify the Department in all respect from such actions, costs and expenses. Nothing extra shall be payable on this account.*
- d. *No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any temporary set up for his staff in the campus. However, labour camps shall be constructed at site as per General conditions of contract.*
- e. *No claim of the labourers shall be entertained including that of providing employment, regularization of services etc.*
- f. *Site Engineer/Supervisor shall carry mobile telephone (s) to enable the Engineer-in-Charge / occupants to have easy and quick communication. Nothing extra shall be paid*

*to the contractor on this account and his quoted rates for various items under this contract will be inclusive of this obligation.*

- g. The staff employed by the contractor should be well behaved and any complaint of misbehavior shall be taken very seriously and such staff will have to be removed by the contractor immediately from the site.*
- h. Contractor shall be fully responsible for any damages caused to government property or allottee's property by him or his labour in carrying out the work and shall be rectified by the contractor at his own cost.*

#### **1.12 Specialized Agencies**

The tenderer must associate with himself, agencies of the appropriate eligibility to tender for each of specialized nature of items / work listed in the tender documents, individually. Such works shall be got executed only through associated agencies specialized in these fields. The contractor shall submit name(s) of his associated specialized agencies those fulfilling the eligibility criteria laid down in contract document, atleast 60 days before commencement of such items / work for the approval of the Engineer in charge whose decision shall be final and binding. If the tenderer himself fulfils the eligibility criteria laid down for associated specialized agencies, then the tenderer shall not require associating with himself the associated specialized Contractor.

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

#### **1.13 SECURITY**

- a. The campuses are occupied. Contractor shall take all measures and precautions so as to cause no inconvenience to the occupants. He shall barricade the construction site / designated area of construction through the barriers as specified in the BOQ and as approved by the Engineer-in-charge. No material shall be stored / dumped outside the designated area.*
- b. The movement of the construction vehicles and the labours shall be restricted to the designated routes which will be decided by the client.*
- c. All the vehicles carrying the material to the work site shall be subject to check and entries to be made at the gates by security post. No material shall be taken out without proper gate pass issued by the Engineer-in-Charge or his authorized representative.*
- d. Any labour engaged by the contractor shall be in possession of photo ID card failing which they are liable to be disengaged from the work and shall not be allowed to enter into the campus.*

- e. *In case of any nuisance caused by activates attributed to contractors staff, workmen and movement of vehicle, and reported to CPWD by client (an officer of the rank not lower than EE) commensurate penalty not exceeding Rs. 5000/- for each nuisance shall be imposed on the contractor by CPWD in consultation with client.*
- f. *The movement of the labour shall be restricted to the barricaded work site area only.*
- g. *The contractor will take reasonable precaution to prevent his workmen and employees from removing and damaging any flora (plant/vegetation) from the project area.*
- h. *The Contractor shall be responsible for the watch and ward / guard of the buildings safety, fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.*

#### **1.14 SAFETY PRACTICES**

- a) *No Entry/exit/roads other than specified by the **Engineer-in-charge** for purpose of construction activities will be allowed to be used for construction activity purposes or movement of trucks/lorries/load-carriers and nothing extra/ delay whatsoever will be accounted for on this part.*
- b) *The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the students and staff in campus, owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and water-ways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused thereon by the contractor. All waste or superfluous materials shall be removed by the contractor without any reservation entirely to the satisfaction of the Engineer-in-Charge.*
- c) *In the event of any restrictions being imposed by the Client, Security, CPWD, Traffic police or any other authority having jurisdiction in the area on the working or movement of labour /material, the contractor shall strictly follow such restrictions and nothing extra shall be payable to the contractor on this account-*
- d) **WARNING/ CAUTION BOARDS:** *All temporary warning / caution boards / glow signage display such as "Construction Work in Progress", "Keep Away", "No Parking", Diversions & protective Barricades etc. shall be provided and displayed during day time by the Contractor, wherever required and as directed by the Engineer-in-Charge. These glow signage and red lights shall be suitably illuminated during night also. The Contractor shall be solely responsible for damage and accident caused, if any, due to negligence on his part. Also he shall ensure that no hindrance, as far as possible, is caused to general traffic during execution of the work. This signage shall be dismantled & taken away by the Contractor after the completion of work, only after approval of the Engineer-in-Charge. Nothing extra shall be payable on this account.*
- e) **SIGN BOARDS:** *The contractor shall provide and erect a display board of size and shape as required and paint over it, in a legible and workman like manner, the details*

about the salient features of the project, as required by the Engineer-in-Charge. The Contractor shall fabricate and put up a sign board in an approved location and to an approved design indicating name of the project, client / owner, architects, structural consultants, Department, salient features of project etc. besides providing space for names of other Contractors, Sub-Contractors and specialized agencies. **These sign board(s) shall have QR code also with link to CPWD website, if required.** Nothing extra shall be payable on this account.

- f) Necessary protective and safety equipments shall be provided to the Site Engineer, Supervisory staff, labour and technical staff of the contractor by the contractor at his own cost and to be used at site.
- g) No inflammable materials including P.O.L shall be allowed to be stored in huge quantity at site. Only limited quantity of P.O.L may be allowed to be stored at site subject to the compliance of all rules / instructions issued by the relevant authorities and as per the direction of Engineer-in-Charge in this regard. Also all precautions and safety measures shall be taken by the contractor for safe handling of the P.O.L products stored at site. All consequences on account of unsafe handling of P.O.L shall be borne by the Contractor.
- h) The contractor shall comply with the safety procedures, norms and guidelines (as applicable) as outlined in the “Constructional practices and safety- 2005”, National Building code of India, Bureau of Indian Standards. A copy of all pertinent regulations and notices concerning accidents, injury and first-aid shall be prominently exhibited at the work site. Depending upon the scope & nature of work, a person qualified in first-aid shall be available at work site to render and direct first-aid to casualties. A telephone may be provided to first-aid assistant with telephone numbers of the hospitals displayed. Complete reports of all accidents and action taken thereon shall be forwarded to the competent authorities.
- i) The contractor shall ensure the following activities for construction workers safety, among other measures:
  - Guarding all parts of dangerous machinery.
  - Precautionary signs for working on machinery
  - Maintaining hoists and lifts, lifting machines, chains, ropes, and other lifting tackles in good condition.
  - Durable and reusable formwork systems to replace timber formwork and ensure that formwork where used is properly maintained.
  - Ensuring that walking surfaces or boards at height are of sound construction and are provided with safety rails or belts.
  - Provide protective equipment; helmets etc.
  - Provide measures to prevent fires. Fire extinguishers and buckets of sand to be provided in the fire-prone area and elsewhere.
  - Provide sufficient and suitable light for working during night time.



### **1.15 TRAFFIC ARRANGEMENTS**

- a. The whole plot of land designated for client is vast in size wherein certain identified traffic routes need to be followed by contractor to cart materials in the campus. Haphazard plying of vehicles shall be avoided. Horticultural activities, tree plantation, Nursery plantation shall be taken up in the campus along with constructional activities, as such, care shall be taken to avoid damages to these. Certain existing trees, recently planted trees including tree guards and irrigation water supply piping system can be located nearby work site, hence, while taking up excavation activities, trees as well as their root zones be protected and the stacking of excavated earth shall be made in such a way that neither plants are buried nor damaged. The initial survey, demarcation of roads and various buildings have been made in the campus and pickets etc are fixed at locations which shall not be disturbed or damaged by vehicular movement or manual tampering, else the same shall be made good by the contractor at his own. In case of failure to comply with the above requirements the damage caused shall be made good at cost of contractor and the cost so incurred and assessed by Engineer-in-Charge shall be recovered from running account bill of contractor.
- b. In event of any restriction being imposed by the Department, traffic or any other statutory authority having control over the project, on the working or movement of Labour, materials, etc, the contractor shall strictly follow all such restrictions or instructions issued regarding the same and nothing extra shall be payable to the contractor on account of such restrictions or instructions. No delay or claims of any kind shall be entertained from the contractor on this account. The loss of time on this account, if any, shall have to be made up by the contractor by generating and deploying additional resources etc. Nothing extra shall be payable on this account.

### **1.16 PREVENTION OF NUISANCE AND POLLUTION CONTROL**

The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants or occupiers of adjacent properties and to the public in general and to prevent any damage to such properties from pollutants like smoke, dust, noise. The contractor shall use such methodology and equipment so as to cause minimum environmental pollution of any kind during and minimum hindrance to road users and to occupants of the adjacent properties or other services running adjacent/near vicinity. The contractor shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused due to the execution of the work or by traffic brought thereon by the contractor. All waste or superfluous materials shall be carried away by the contractor, without any reservation, entirely to the satisfaction of the Engineer-in-Charge.

### **1.17 PROTECTION OF FLORA**

The contractor will take reasonable precautions to prevent his workman and employees from removing and damaging any flora (plant/vegetation) from the project area.

### 1.18 General Cleanliness of site:

- a. *The contractor shall provide for adequate number of garbage bins around the construction site and the workers facilities and will be responsible for the proper utilization of these bins for any solid waste generated during the construction. The contractor shall ensure that the site and the workers facilities are kept litter free. Separate bins should be provided for wet and dry waste and labeled in both Hindi and English with suitable symbols.*
- b. *Contractor should spray curing water on concrete structure and shall not allow free flow of water. Concrete structures should be kept covered with thick cloth/gunny bags and water should be sprayed on them. Contractor shall do water ponding on all sunken slabs using cement and sand mortar. Use of curing compound as per approval of engineer-in-charge in areas where wet water curing not feasible shall be permissible and nothing extra shall be paid for the same.*
- c. *The Contractor shall remove from site all rubbish and debris generated by the works and keep works clean and tidy throughout the Contract Period. All the serviceable and non-serviceable (malba) material shall be segregated and stored separately. Construction waste, malba and other rubbish generated out of execution of work by contractor, shall be disposed of as directed by Engineer in Charge for which no extra payment shall be made to contractor.*
- d. *The contractor shall not stack building material / malba/ muck on the land or road of the local development authority or on the land owned by the others, as the case may be. So the muck, rubbish etc. shall be removed periodically as directed by the Engineer-in-Charge, from the site of work to the approved dumping grounds as per the local byelaws and regulations of the concerned authorities and all necessary permissions in this regard from the local bodies shall be obtained by the contractor. Nothing extra shall be payable on this account. In case, the contractor is found stacking the building material/ malba as stated above, the contractor shall be liable to pay the stacking charges/ penalty as may be levied by the local body or any other authority and also to face penal action as per the rules, regulations and bye-laws of such body or authority. The Engineer-in-Charge shall be at liberty to recover, such sums due but not paid to the concerned authorities on the above counts, from any sums due to the contractor including amount of the Security Deposit and performance guarantee in respect of this contract agreement.*
- e. *The contractor shall take instructions from the Engineer-in-Charge regarding collection and stacking of materials at any place. No excavated earth or building rubbish shall be stacked on areas where other buildings, roads, services and compound walls are to be constructed.*
- f. *The site of work shall be always kept clean due to constraints of space and to avoid any nuisance to the users of buildings in the adjacent plots. The contractor shall take all care to prevent any water- logging at site. The waste water, slush etc. shall not be allowed to be collected at site. It may be directly pumped into the creek with prior*

*approval of the concerned authorities. For discharge into public drainage system, necessary permission shall be obtained from relevant authorities after paying the necessary charges, if any, directly to the authorities. The work shall be carried out in such a way that the area is kept clean and tidy. All the fees/charges in this regard shall be borne by the Contractor. Nothing extra shall be payable on this account.*

#### **1.19 PRESERVATION AND CONSERVATION MEASURES**

- a. Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor, at his own expense, for which nothing is payable. The contractor shall not store materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.
- b. *All fossils, coins, articles of value of antiquity, structures and other remains or things of geological or archaeological interest discovered on project location during excavation/construction shall be the property of the Government, and shall be dealt with as per provisions of the relevant legislation. The contractor will take reasonable precaution to prevent his workmen or any other persons from removing and damaging any such article or thing. He will, immediately upon discovery thereof and before removal acquaint the Engineer-in-charge of such discovery and carry out the official instructions of Engineer-in-charge for dealing with the same, till then all work shall be carried out in a way so as not to disturb/ damage such article or thing.*
- c. *Excavated earth shall be property of client and shall not be disposed off without approval of Engineer in charge. Any legal or financial implications resulting out of disposal of earth shall be sole responsibility of the contractor.*

#### **1.20 Conditions of National Green Tribunal**

- a. *The Contractor shall not store/ dump construction material or debris on the metaled road. The Contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metaled road. This area shall not cause any obstruction to the free flow of traffic /inconvenience to the pedestrians. It should be ensured by the Contractor that no accidents occur on account of such permissible storage.*
- b. *The Contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and/or other similar material to ensure that no construction material dust fly outside the plot area.*
- c. *The Contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like material like cement, sand and other allied material are fully covered. The Contractor shall take every necessary precaution that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.*

- d. *The Contractor shall provide mask to every working on the construction site and involving in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.*
- e. *The Contractor shall compulsory use of wet jet in grinding and stone cutting.*
- f. *The Contractor shall comply all the preventive and protective environmental steps as stated in the MoEF guidelines, 2010.*
- g. *The Contractor shall carry out on- Road-Inspection for black smoke generating machinery. The Contractor shall use cleaner fuel.*
- h. *The Contractor shall ensure that all DG set comply emission norms notified by MoEF.*
- i. *The Contractor shall use vehicles having pollution under control certificate. The emissions can be reduced by a large extent by reducing the speed of a vehicle to 20 Kmph. Speed bumps shall be used to ensure speed reduction. In case where speed reduction cannot effectively reduce fugitive dust, the Contractor shall divert traffic to nearby paved areas.*
- j. *The Contractor shall ensure that the construction material is covered by tarpaulin. The Contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.*
- k. *The Contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area using CGI sheets or plastic and / or other similar material to ensure that no construction material dust fly outside the plot area. This shall be in addition to provision of barricading. Nothing extra shall be payable on this account.*
- l. *Any violation of orders of MoEF including guidelines of State Government, SPCB or any officer of any department shall lead to stoppage of work for which Contractor shall be responsible and no hindrance shall be accounted in this regard.*
- m. *The contractor shall ensure that no construction leachate (e.g. cement slurry etc.), is allowed to percolate into the ground. Adequate precautions are to be taken to safeguard against this including, reduction of wasteful curing processes, collection, basic filtering and reuse. The contractor shall follow requisite measures for collecting drainage water run-off from construction areas and material storage sites and diverting water flow away from such polluted areas. Temporary drainage channels, perimeter dike/swale, etc. shall be constructed to carry the pollutant-laden water directly to the treatment device or facility (municipal sewer line)*

#### **1.21 Responsibility during Extreme Weather/Site Conditions:**

- (a) *The Contractor shall make all necessary arrangements for protecting from rains, fog or likewise extreme weather conditions, the work already executed and for carrying out the further work, during monsoon including providing and fixing temporary shelters, protections etc. Nothing extra shall be payable on this account. Also, no claims for hindrance shall be entertained on this account.*
- (b) *In case of flooding of site on account of rain or any other cause and any consequent damage, whatsoever, no claim financially or otherwise shall be entertained not*

*withstanding any other provisions elsewhere in the contract agreement. Also, the Contractor shall make good, at his own cost, the damages caused, if any. Further, no claims for hindrance shall be entertained on this account.*

- (c) *The contractor shall be fully responsible for any damage to the work for which the payment has been advanced to him under the contract and he shall make good the same at his risk and cost. The contractor shall be fully responsible for safety and security of his labour, material, T&P, Machinery brought to the site by him.*

## **1.22 SETTING OUT**

- a. The contractor shall carry out survey of the work area, at his own cost, setting out the layout of building in consultation with the Engineer-in-Charge & proceed further. Any discrepancy between the architectural drawings and actual layout at site shall be brought to the notice of the Engineer-in-Charge. It shall be responsibility of the contractor to ensure correct setting out of alignment. Total station survey instruments only shall be used for layout, fixing boundaries, and center lines, etc., along with theodolites. Nothing extra shall be payable on this account.
- b. The contractor shall establish, maintain and assume responsibility for grades, lines, levels and benchmarks. He shall report any errors or inconsistencies regarding grades, lines, levels, dimensions etc. to the Engineer-in-Charge before commencing work. Commencement of work shall be regarded as the Contractor's acceptance of such grades, lines, levels, and dimensions and no claim shall be entertained at a later date for any errors found.
- c. If at any time, any error appears due to grades, lines, levels and benchmarks during the progress of the work, the contractor shall, at his own expense rectify such error, if so required, to the satisfaction of the Engineer-in-Charge. Nothing extra shall be payable on this account.
- d. Though the site levels are indicated in the drawings the contractor shall ascertain and confirm the site levels with respect to benchmark from the concerned authorities. The contractor shall protect and maintain temporary/permanent benchmarks at the site of work throughout the execution of work. These benchmarks shall be got checked by the Engineer-in-Charge or his authorized representatives. The work at different stages shall be checked with reference to bench marks maintained for the said purpose. Nothing extra shall be payable on this account.
- e. The approval by the Engineer-in-Charge, of the setting out by the contractor, shall not relieve the contractor of any of his responsibilities and obligation to rectify the errors/ defects, if any, which may be found at any stage during the progress of the work or after the completion of the work.
- f. The contractor shall be entirely and exclusively responsible for the horizontal, vertical and other alignments, the level and correctness of every part of the work and shall rectify effectively any errors or imperfections therein. Such rectifications shall

be carried out by the contractor at his own cost to the entire satisfaction of the Engineer-in-Charge.

- g. Contractor(s) shall provide permanent bench marks, flag tops and other reference points for the proper execution of work and these shall be preserved till the end of the work. All such reference points shall be in relation to the levels and locations, given in the Good for Construction drawings.
- h. The rates quoted by the Contractor are deemed to be inclusive of site clearance, Jungle cutting, setting out work (including marking of reference points, center lines of buildings), construction and maintenance of reference bench mark(s), taking spot levels, construction of all safety and protection devices, barriers, barricading, signage, labour safety, labour welfare and labour training measures, preparatory works, working during monsoon, working at all depths, height and location etc. and any other incidental works required to complete this work. Nothing extra shall be payable on this account.

### **1.23 RECESS, HOLES, OPENINGS, JOINTS ETC**

- a) *The contractor shall leave such recesses, holes, openings, etc. as may be required for the electric, air-conditioning and other related works for which inserts, sleeves, brackets, conduits, base plates, clamps etc. shall be payable separately by the department unless otherwise specifically mentioned and the contractor shall fix the same at the time of casting of concrete, stone work & brick work or at any similar location if required, and nothing extra shall be payable on this account.*
- b) *Chases, holes, etc shall be done using power operated tools.*
- c) *Nothing extra shall be paid for core cutting & sealing of joint with approved material (non-shrink grout) for taking out of sanitary/ water supply/ fire-fighting cables, pipes etc. if any,*
- d) *The construction joints shall be provided in predetermined locations only as decided by Engineer-in-charge. The cost of shuttering for these construction joints shall be included in item of Concrete work / RCC work and nothing extra shall be payable on this account to the contractor*
- e) *Any cement slurry / epoxy based bonding agent such as Nitobond or equivalent etc. added over base surface for continuation of concreting for better bond is deemed to have been in-built in the items and nothing extra shall be payable.*

#### **1.24 SCAFFOLDING / SHUTTERING**

Wherever required for the execution of work, all the scaffolding shall be provided and suitably fixed by the contractor. It shall be provided strictly with steel double scaffolding system, suitably braced for stability, with all the accessories, gangways, etc. with adjustable suitable working platforms to access the areas with ease for working and inspection. It shall be designed to take all incidental loads. It should cater to the safety features for workmen. Nothing extra shall be payable on this account. It shall be ensured that no damage is caused to any structure due to the scaffolding.

Only steel shuttering, unless otherwise specified, with suitably designed steel frame supporting system is to be used in the work. The contractor shall ensure that there shall be no leakage at formwork joints and there shall be no movement at joints or bending of the formwork under pressure of the concrete. Nothing extra shall be paid on this account.

#### **1.25 PRODUCT DELIVERY, STORAGE AND HANDLING OF CHEMICALS**

- (i) The contractor shall construct storage space for Chemicals materials to ensure that the storage conditions are as recommended by the manufactures.
- (ii) All the materials shall be procured and delivered in sealed containers with labels legible and intact.
- (iii) All the chemicals {polymers, epoxy, water proofing compound, plasticizer, Polysulphide, SBR based elastomeric, APP (Atactic Polypropylene Polymer), all exterior and interior paints, polish etc.) shall be procured in convenient packs say 20 liters/Kgs.} capacity packing only or as approved by the Engineer-in-Charge, and not in bigger capacity containers, say 200liter (Kgs.) drums unless otherwise specifically permitted by the Engineer-in-Charge. One sample from each lot of the chemical procured by the contractor shall be tested in a laboratory as approved by the Engineer-in-charge
- (iv) All material required for the execution of the work shall be got approved, procured and deposited with the Departmental supervisory staff. The materials shall be kept in joint custody of the contractor and the Department. The watch and ward of such material shall, however, remain to be the responsibility of the contractor and no claim, whatsoever, on this account shall be entertained. Different containers of each chemical shall be serially numbered on packing and also consumed in that order. Day-to-Day

account of receipt, issue and balance shall be regulated by the Department and proper account shall be maintained at site of work in the prescribed form as per the standard practice.

- (v) All the chemicals shall be procured by the contractor directly from the manufacturer or the authorized dealers of the manufacturers.
- (vi) The original copies of challan/cash memos towards the quantity of various chemicals procured shall be made available by the contractor at the request from the Engineer-in-Charge and a copy of the same shall be kept in record.
- (vii) The Name of manufacturers, manufacturer's product identification, manufacturer's mixing instructions, warning for handling and toxicity and date of manufacturing and shelf life shall be clearly and legibly mentioned on the labels of each container.
- (viii) The contractor shall submit for the chemicals procured, manufacturer's and / or authorized dealer's certificate regarding supplying and verifying conformance to the material specifications, as specified.
- (ix) All filled containers shall be handled in safe manner and in a way to avoid breaking container seals.
- (x) Empty containers of the chemicals should not be removed from site till the completion of work and shall be removed only with the approval of the Engineer-in-Charge.
- (xi) All arrangements for measuring, dosing and mixing of material / chemicals at site have to be made by the contractor.
- (xii) Contractor shall suitably advise his site Engineer and all the workers as regards safe handling of chemicals. Necessary protective and safety equipments in form of hand gloves, goggles etc. shall be provided by the contractor and be also used at site.
- (xiii) All incidental charges of any kind including cartage, storage and wastage and safe custody of material etc. shall be borne by the contractor and no claim, whatsoever, shall be entertained on this account.

#### **1.26 Other Conditions w.r.t Execution of work:**

- a. The work shall be carried out in accordance with the architectural drawings and structural drawings, to be issued from time to time, by the Engineer-in-Charge. Before commencement of any item of work the contractor shall correlate all the relevant architectural and structural drawings, nomenclature of items and specifications etc.*



*issued for the work and satisfy himself that the information available there from is complete and unambiguous. The figure and written dimension of the drawings shall be superseding the measurement by scale. The discrepancy, if any, shall be brought to the notice of the Engineer-in-charge before execution of the work. The contractor alone shall be responsible for any loss or damage occurring by the commencement of work on the basis of any erroneous and/ or incomplete information and no claim for such work shall be entertained. The work shall be carried out in accordance with the Good for Construction Architectural, Civil and Electrical drawings as issued by the Engineer-in-Charge.*

- b. Before commencement of any item of work the Contractor shall correlate all the relevant architectural, civil and electrical drawings, BOQ items and specifications etc. and satisfy itself that the information available is complete and unambiguous. The Contractor alone shall be responsible for any loss or damage occurring by the commencement and execution of work based on any erroneous and or incomplete information and no claim whatsoever shall be entertained on this account.*
- c. The execution of items shall be carried out in accordance to relevant CPWD specifications (amended upto date of receipt of tenders). For the items which are not covered under CPWD Specifications, the Particular Specifications / B.I.S. Specifications shall have to be followed. The decision of Engineer-in-Charge shall be final in this regard.*
- d. Wherever any reference is made to any Indian Standard, it shall be taken as reference to the latest edition with all amendments / revision issued thereto upto the date of receipt of tenders.*
- e. The contractor is required to deploy resources as per availability of site. However no claim will be entertained for idle labour, idle machinery, idle technical/no-technical staff, idle T&P etc.*
- f. The Contractor shall procure the required materials in advance so that there is sufficient time to testing of the materials and clearance of the same before use in the work. The Contractor shall provide at his own cost suitable weighing and measuring arrangements at site for checking the weight / dimensions as may be necessary for execution of work.*
- g. The terms machine batched, machine mixed and machine vibrated concrete used elsewhere in agreement shall mean the concrete produced in concrete batching and*

*mixing plant and if necessary transported by transit concrete mixers, placed in position by the concrete pumps, tower crane and vibrated by surface vibrator /needle vibrator / plate vibrator, as the case may be to achieve required strength and durability.*

- h. PPC Cement shall be used in the work unless there is any reason requiring use of OPC as per approval of Engineer-in-charge.
- i. No fly ash mixing at site would be allowed. However, with prior approval of Engineer-in-charge, fly ash mixing can be allowed at the Batching plants at site with proper handling mechanism and quality of fly ash as per codal requirement,
- j. Under Special circumstances, contractor can be allowed to procure concrete from RMC plant approved by engineer-in-charge. However, nothing extra shall be payable to the contractor for procurement of concrete from RMC plant except rates payable for batch mixed concrete.
- k. ~~Escalation under clause 10 CA shall not be payable on cement consumed in Fly Ash Bricks, AAC blocks.~~
- l. *The work of services will be executed simultaneously. The Contractor shall minimize the scope of making recesses, holes, opening etc. as the same shall be planned in advance and necessary grooves/niches shall be provided in shuttering of RCC.*
- m. *The Contractor shall conduct his work, so as not to interfere with or hinder the progress or completion of the work being performed by other Contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose of the materials being used or removed, so as not to interfere with the operations of other Contractor simultaneously working or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.*
- n. *Gypsum plaster shall be executed using pneumatic spray machine of reputed make.*
- o. *Laminates on flush doors shall be machine pressed, preferably in factory. The design and pattern of laminates shall be as per the approval of engineer in charge.*
- p. *The furniture, UPVC door-windows, Aluminium door-windows-framework, shall be factory made.*

## **1.27 RATES**

- a. The rates quoted by the contractor are deemed to be inclusive of site clearance, jungle cutting, setting out work, profile, setting lay out on ground, establishment of reference

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

- b. The rates quoted by the tenderer shall be firm and inclusive of all taxes and levies including GST. Taxes shall be deducted at source as per statutory orders and Govt. rules and regulation, from bill payments to the contractor by Engineer-in-charge.
- c. No foreign exchange shall be made available by the Department for importing (purchase) of equipment, plants, machinery, materials of any kind or any other items required to be carried out during execution of the work. No delay and no claim of any kind shall be entertained from the Contractor, on account of variation in the foreign exchange rate.
- d. All ancillary and incidental facilities required for execution of work like labour camp, stores, fabrication yard, offices for Contractor, watch and ward, temporary ramp required to be made for working at the basement level, temporary structure for plants and machineries, water storage tanks, installation and consumption charges of temporary electricity, telephone, water etc. required for execution of the work, liaison and pursuing for obtaining various No Objection Certificates, completion certificates from local bodies etc., protection works, testing facilities / laboratory at site of work, facilities for all field tests and for taking samples etc. during execution or any other activity which is necessary (for execution of work and as directed by Engineer-in-Charge), shall be deemed to be included in rates quoted by the Contractor, for various items in the schedule of quantities. Nothing extra shall be payable on these accounts. Before start of the work, the Contractor shall submit to the Engineer-in-Charge, a site / construction yard layout, specifying areas for construction, site office, positioning of machinery,

material yard, cement and other storage, steel fabrication yard, site laboratory, water tank, etc.

- e. For completing the work in time, the contractor might be required to work in two or more shifts (including night shifts). No claim whatsoever shall be entertained on this account, not with-standing the fact that the contractor may have to pay extra amounts for any reason, to the labourers and other staff engaged directly or indirectly on the work according to the provisions of the labour and other statutory bodies regulations and the agreement entered upon by the contractor with them.
- f. All material shall only be brought at site as per program finalized with the Engineer-in-Charge. Any pre-delivery of the material not required for immediate consumption shall not be accepted and thus not paid for.
- g. Nothing extra shall be payable to the contractor for compliance of various additional conditions, special conditions, general terms & conditions, additional /general specifications, etc. as prescribed in bid document except specifically stated therein, on and above the quoted rate(s) of various items of schedule of quantities (civil as well as electrical work) of the bid document.
- h. Anywherein the bid document / NIT, BOQ, SCHEDULE OF WORK shall mean **Schedule of Quantities.**

**1.28 ROYALTY:** Contractor shall comply with all statutory rules and regulations w.r.t royalty and other levies and taxes. Royalty at the prevalent rates shall be paid by the contractor or his associate supplier as per Government rules, on all materials such as boulders, metals, all sizes stone aggregates, brick aggregates, coarse and fine aggregates, moorum, river sand, gravels and bajri etc. collected by him for the execution of the work, directly to the revenue authority of the state government concerned. Further, contractor needs to submit proof of submission of full royalty to the state government or local authority. Nothing extra shall be payable on this account.

**1.29 ALL HEIGHTS, LIFTS, LEADS AND DEPTHS**

Unless otherwise provided in the Schedule of quantities or in CPWD Specifications or in the tender document, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the building and nothing extra shall be payable to him on this account.

**1.30 Site office establishment:** In order to ensure smooth, timely and proper management of work by department's project team under the Engineer-in-charge, the contractor shall provide following arrangements at project site, for the entire duration of the contract agreement i/c extension, if any. Nothing extra shall be paid to the contractor for providing these arrangements at site:

- a. For site related works by the Engineer-in-charge and his project team, Contractor shall provide (Prefabricated/built up) site office of approx 50 sqm area, with furniture, all civil & electrical fittings & fixtures i/c AC in all rooms. The site office shall have engineers room, support staff office rooms, meeting room, toilet, pantry, sample room, store room, record room etc. The electricity and day today maintenance i/c cleaning, sweeping, (one multitasking staff to be provided) security etc. all shall be within the scope of the Contractor. Nothing extra shall be paid for the same.
- b. The contractor shall provide and maintain One Photostate machine of latest version i/c its A.M.C. except paper for Photostat. Contractor shall also provide services of one photo machine operator / MTS and internet connection (wi-fi) at the site office as per direction of Engineer-in-Charge to facilitate checking and preparation of measurements, bill, records, progress reports and other work-related documents at site.
- c. The contractor shall provide clean and safe drinking water for the workers employed at site, his technical staffs and site staff of Department free of charge.

**1.31 SUBMISSION AND DOCUMENTATION**

- a. *The contractor shall display all permissions, licences, registration certificates, bar charts, other statements etc under various labour laws and other regulations applicable to the works, at his site office.*
- b. *The contractor shall make available three (03) sets of completed Building Drawings, "As Built Drawings" along with literatures, manuals, warranty certificates etc. of various installed fittings, fixtures and equipment for the completed projects. This shall be the prerequisite for payment of final bill.*
- c. *The contractor shall make available three (03) sets of all drawings of internal and external services i.e. Water Supply, Sanitary line and Drainage lines. This shall be the prerequisite for payment of final bill. These drawings shall have the following information:*
  - *For all piping, their diameters including soil, waste pipes and vertical stacks.*

- *Ground and invert level of all drainage pipes together with locations of all manholes and connections, up to outfall.*
  - *For all water supply lines, diameter of pipes, location of control valves, access panels etc.*
- d. *The contractor shall make available four (04) sets of computerized Standard Measurement Books (SMBs) having measurement of all the permanent standing in a building.*
- e. ***The Performance Guarantee shall not be released to the contractor until the aforesaid drawings are submitted to the Engineer-in-Charge.***
- f. *The contractor will submit computerized measurement sheet for the work carried out by him for making payment as per Clause-6 of the CPWD General Conditions of Contract 2020 for Construction Work (with correction slips upto last date of submission of tender). For casting of RCC members and other hidden items the corrected and duly test checked measurement sheets of reinforcement or that of other hidden items shall be deposited with Engineer in charge or his authorized representative, before casting of RCC or other hidden items. The delay in submission of corrected and duly checked measurement sheet may, therefore, delay casting of RCC or execution of hidden item for which no hindrance shall be recorded.*
- g. ***To avoid delay, contractor should submit all samples well in advance so as to give timely orders for procurement.***

### **1.32 TEMPORARY WATER/ ELECTRICITY/ TELEPHONE CONNECTION**

- a. Arrangement of temporary telephone connection, water and electricity required by contractor, shall be made by him at his own cost and also necessary permissions shall be obtained by him directly from concerned authorities, under intimation to the Department. Also, all initial cost and running charges, and security deposit, if any, in this regard shall be borne by him. The contractor shall abide by all the rules/ bye laws applicable in this regard and he shall be solely responsible for any penalty on account of violation of any of the rules / byelaws in this regard. Nothing extra shall be payable on this account.
- b. The contractor shall be responsible for maintenance and watch and ward of the complete installation and water / electricity meter and shall also be responsible for any pilferage, theft, damage, penalty etc in this regard. The contractor shall indemnify the

Department against any claim arising out of pilferage, theft, damage, penalty etc. whatsoever on this account. Security deposit for the work shall be released only after No Dues Certificates are obtained from the local Authorities from whom temporary electric/ water / telephone connection have been obtained by the contractor. Nothing extra shall be payable on this account.

- c. The Department shall in no way be responsible for either any delay in getting electric and/or water and/or telephone connections for carrying out the work or not getting connections at all. No claim of delay or any other kind, whatsoever, on this account shall be entertained from the contractor. Also, contingency arrangement of stand-by water & electric supply shall be made by the contractor for commencement and smooth progress of the work so that work does not suffer on account of power failure or disconnection or not getting connection at all. No claim of any kind whatsoever shall be entertained on this account from the contractor. Nothing extra shall be payable on this account.

### **1.33 Other Conditions w.r.t Payment of Bills to Contractor:**

- a. *The full nomenclature of the items shall be adopted in preparing abstract of final bill in the measurement book and also in the bill form for final bill.*
- b. *In the case of items of which abbreviated nomenclature is not available in the above cited publication and also in case of extra and substituted items of works for which abbreviated nomenclature is not provided in the agreement, the full nomenclature of items shall be reproduced in the measurements books and bill forms for running account bill.*
- c. *All running account bills preferred by the contractor for advance payments shall be processed only if Engineer-in-charge is satisfied that upto date investments (excluding security deposit & performance guarantee, which are not considered as investments) made by the contractor against contracted work are more than the payments received. Accordingly, all running account bills shall be supported with an account of up-to-date payments received vis-a-vis upto date investments made on the work to enable engineer-in-charge to check to his satisfaction that the payments made by engineer-in-charge are properly utilized only on the work and nowhere else.*
- d. *Contractor should hand over the warranty of all the specialized items and non-specialized items, if any such warranty provided by manufacturer, which have been installed in the constructed building to the department.*
- e. *Contractor shall give performance test of the water supply, sanitary, sewer and electrical installation(s) as per the specifications in the presence of the Engineer-in-charge or his authorized representative before the work is finally accepted and nothing extra what-so-ever shall be payable to the Contractor for the test.*

- f. Contractor shall not divert any RA bill payments and advance payments or part thereof for any work other than that needed for completion of the contracted work. All advance payments received as per terms of the contract (i.e. mobilization advance, secured advance against materials brought at site, secured advance against plant & machinery and/or for work done during interim stages, etc) are required to be re-invested in the contracted work to ensure advance availability of resources in terms of materials, labour, plant & machinery needed for required pace of progress for timely completion of work.*
- g. The contractor shall have to execute guarantee bonds in respect of water supply and sanitary installation works, Sewerage Treatment plant work, UPVC Window work and water proofing works as per proforma annexed in this bid document.*



## **ADDITIONAL SPECIFICATIONS**

### **1.0 Cement**

- 1.1** *Agency shall procure PPC conforming to IS : 1489 (Part 1) as required in the work from cement manufacturers mentioned in the list of Preferred makes for civil works or from any other reputed cement manufacturer having a production capacity not less than 1 million tons per annum as approved by SDG for the region.*
- 1.2** *The supply of cement shall be taken in 50 kg bags bearing manufacturer's name and ISI marking. Samples of cement arranged by the Contractor shall be taken by the Engineer-in-charge and got tested in accordance with provisions of relevant BIS codes. In case the test results indicate that the cement arranged by the Contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it shall be removed from the site by the Contractor at his own cost within a week's time of written order from the Engineer- in-charge to do so. Supply of cement shall be taken in 50-kg bags bearing manufacturer's name, or his registered trademarks if any and grade and type of cement as well as ISI marking. The packing of the cement bags shall be as per CPWD specifications 2019.*
- 1.3** The cement shall be brought at site in bulk supply of approximately 50 tons or more as decided by the Engineer-in-charge. For each grade / type, cement bags shall be stored in two separate godowns, one for tested cement and the other for fresh cement (under testing) constructed by the contractor at site of work as per sketch shown in General Conditions of Contract 2023 for Maintenance Work with weather proof roofs and walls, for which no extra payment shall be made. The size of the cement godown is indicated in the sketch for guidance only. The actual size of godown shall be as per site requirements and as per the direction of the Engineer in charge and nothing extra shall be paid for the same. The decision of the Engineer-in-charge regarding the capacity required/needed will be final. However, the capacity of each godown shall not be less than 100 tonnes. Each godown shall be provided with a single door with two locks. The keys of one lock shall remain with CPWD Engineer-in-charge or his authorized representative and that of other lock with the contractor at the site of work so that the cement is issued from godown according to the daily requirement with the knowledge of both the parties. The account of daily receipt and issue of cement shall be maintained in a register in the prescribed Proforma and signed daily by the contractor or his authorized agent in token of its correctness.
- 1.4** Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the engineer-in-charge or his authorised representative and the keys of other lock shall remain with the contractor. The contractor shall be responsible for the watch and ward and safety of cement godown. The contractor shall facilitate the inspection of cement godown by the Engineer-in-charge at any time.
- 1.5** The cement shall be got tested by the Engineer-in-charge and shall be used on the work only after satisfactory test results have been received. The Contractor shall supply free

of charge the cement required for testing including its transportation cost to testing laboratories.

- 1.6 The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption, no cost adjustment shall be made.
- 1.7 The cement brought to the site and the cement remaining unused after completion of the work shall not be removed from site without the written permission of the Engineer-in-charge.
- 1.8 The damaged cement shall be removed from the site immediately by the Contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the Contractor.

## **2.0 Steel Reinforcement Bars**

2.1 *The CPWD/Contractor shall/procure IS marked TMT bars of various grades from*

***(1) The Steel Manufacturers such as SAIL, TATA steel Ltd., RINL, Jindal Steel & Power Ltd, JSW steel Ltd.or their authorized dealers having valid BIS licence for IS: 1786-2008 (Amendment-1 November 2012)***

***(2) (a) The steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS licence for IS:1786- 2008 (Amendment-1 November 2012).***

2.2 *The procured steel should have following qualities:-*

- i. Excellent ductility, bend ability and elongation of finished product due to possible refining technology.*
- ii. Consumption of steel should be accurate as per design.*
- iii. Steel should have no brittleness problem in finished product.*
- iv. Steel should carry the quality of corrosion and earthquake resistance.*
- v. Quality steel with achievement of proper level of Sulphur and phosphorus as per IS:1786-2008.*

## **2.3 Selection Criteria of steel manufacturers**

***(1) The supply of reinforcement steel for all CPWD works should have following selection criteria of steel manufacturers:-***

*Steel producers of any capacity using iron ore/ processed iron ore as the basic raw material adopting advanced refining technologies as given under,*

***(i) DRI-EAF= Direct Reduced iron - Electric arc furnace.***

*or*

***(ii) BF-BOF= Blast furnace - Basic oxygen furnace***

*or*

***(iii) COREX-BOF= COREX- Basic oxygen furnace***

*For production of liquid steel to finish product at single/multiple locations with NABL or any other Similarly placed accrediting Government body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 conforming to IS:1786 - 2008 (Amendment -1 November 2012).*

- 2.4 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work.
- 2.5 *Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to the specifications, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.*
- 2.6 *The steel reinforcement bars shall be brought to the site in bulk supply of 10 tonnes or more, or as decided by the Engineer-in-charge. The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking. For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:*

Size of bar	For consignment below 100tonnes	For consignment above 100tonnes
Under 10 mm dia bars	One sample for each 25 tonnes or part there of	One sample for each 40 tonnes or part there of
10 mm to 16mm dia Bars	One sample for each 35 tonnes or part there of	One sample for each 45 tonnes or part there of
Over 16mm dia bars	One sample for each 45 tonnes or part there of	One sample for each 50 tonnes or part there of

- 2.7 *The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. **The cost of testing of steel reinforcement shall be borne by the contractor.***
- 2.8 *The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in clause 42 of the contract and shall be governed by conditions laid therein. In case the consumption is less than theoretical consumption including permissible variations, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.*
- 2.9 *The Steel brought to site and remaining unused shall not be removed from site without the written permission of Engineer-in-Charge.*

- 2.10 Reinforcement including authorized spacer bars and laps shall be measured in length for different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
- 2.11 The standard sectional weights referred to shall be as in Table 5.4 in para 5.3.4 in revised CPWD specifications 2019 Vol. I will be considered for conversion of length of various sizes of TMT bars in to standard weight.
- 2.12 Record of actual sectional weights shall also be kept dia wise and lot wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer in Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.
- 2.13 If the derived weight is less than the standard weight, then the Derived Actual Weight shall be taken for payment.
- 2.14 If the derived actual weight is found more than the standard weight, than standard weight as worked out as per para above shall be taken for payment. Nothing shall be paid extra for the difference in Derived/ Actual Weight and standard weight.
- 2.15 Every care should be taken to avoid mixing different types of grades of bars in the same structural members as main reinforcement to satisfy relevant clause of IS: 456. In case of buildings, wherever the situation necessitates, the changeover shall be permitted only from any one level onwards. In case of foundations, all foundation elements (footings and grade beams) shall have the same kind of steel. In the case of columns, all structural elements up to the level of change, where the changeover is taking place should have the same kind of steel as those in columns.
- 2.16 The reinforcing steel brought to site of work shall be stored on brick / timber platform of 30/40-cm height, nothing extra shall be paid on this account. The contractor shall have to obtain and furnish manufacturer test certificates to the Engineer-in-charge in respect of steel brought by him to the site of work.
- 2.17 **Special condition for structural steel (Tee, Angle, Channel, Structural Tubes and plates & R.S. Joist)**
- 2.18 The contractor shall procure Structural steel (Tee, Angle, Channel, Structural Tubes and plates & R.S. joist) from primary producers (SAIL, Tata Steel Ltd, RINL, Jindal Steel & Power Ltd., JSW steel Ltd. & Appolo).  
In case of non-availability of structural steel from primary producers the NIT approving authority may permit use of structural steel procured from steel producers having valid BIS licence confirming to IS -2062-2006
- 2.19 Samples shall be taken and got tested by the Engineer-in-charge confirming to relevant BIS code. In case the test results indicate that the structural steel arranged by the contractor does not conform to the specification, the same shall stand rejected, and it

- shall be removed from the site of work by the contractor at his cost within a week's time or written orders from the Engineer-in-charge to do so.*
- 2.20 *The structural steel shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account.*
- 2.21 *The contractor shall supply free of charge the structural steel sample required for testing including its transportation to testing laboratories . The cost of test shall be borne by the department if it confirm to relevant BIS code else the testing charges shall be borne by the contractor.*
- 2.22 *The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.*
- 2.23 ~~*In case contractor is permitted to use structural steel other than above mentioned make as in 2.18 above then:-*~~
- ~~*(1) Base Price of Structural Steel as stipulated under Schedule 'F' shall be reduced by Rs. 3500/ MT However, for operation of provision of clause 10CA in such case the indices for structural steel will be considered same as indicated in Indices issued by DG.CPWD for primary producer.*~~
- ~~*(2) The quoted rate of relevant item of tender of structural steel work shall be reduced by Rs. 4.00 per Kg.*~~
- 2.24 *If the actual weight of structural steel to be used in the work differs from standard weight, the following procedure shall be followed for arriving at the quantity for payment.*
- (A) If the actual weight is more than standard weight only standard weight shall be considered for payment.*
- (B) If the actual weight is less than standard weight but within the permissible vitiation, only actual weight shall be considered for payment.*
- 3.0 Design Mix Reinforced Cement Concrete from Batch Mix Plant or RMC.**
- 3.1 Design mix is to be carried out as per IS 10262, IS 456 and other relevant IS codes / CPWD Specifications amended upto last date of bid submission.
- 3.2 The Contractor shall install fully automatic Batch Mix Plant at site or in nearby area wherever permissible. If required, Contractor will arrange concrete from RMC (Ready Mix Concrete) producing plants (located within 50 km distance from the site of work) with prior approval from Engineer-in-charge. Nothing extra shall be payable for sourcing concrete from RMC plant.
- 3.2.1 For all purposes, the Contractor shall carry out fully, the responsibilities of the “placement Contractor” and the “manufacturer of concrete”.
- 3.3 The Engineer-in-Charge will reserve the right to inspect at any stage and reject the concrete if he is not satisfied about quality of product at the user’s end.
- 3.4 The Engineer-in-charge reserves the right to exercise control over the: -
- 3.4.1 Ingredients, water and admixtures purchased, stored and to be used in the concrete including conducting of tests for checking quality of materials, recording of test results and declaring the materials fit or unfit for use in production of mix.

- 3.4.2 Calibration check of the RMC /Fully Automatic Batching plant.
- 3.4.3 Weight and quantity check on the ingredients, water and admixtures added for batch mixing.
- 3.4.4 Time of mixing of concrete.
- 3.4.5 Testing of fresh concrete, recordings of results and declaring the mix fit or unfit for use. This will include continuous control on the workability during production and taking corrective action, if required.
- 3.5 For exercising such control, the Engineer-in-charge shall periodically depute his authorized representative at the RMC/Fully automatic batching plant. It shall be responsibility of the Contractor to ensure that all necessary equipment, manpower & facilities are made available to Engineer-in-Charge and/or his authorised representative at RMC/Fully automatic batching plant.
- 3.6 All required relevant records of produced and used concrete shall be made available to the Engineer-in-Charge or his authorised representative. Engineer-in-Charge shall, as required, specify guidelines & additional procedures for quality control & other parameters in respect of materials, production & transportation of concrete mix which shall be binding on the Contractor. Only concrete as approved in design mix by Engineer-in-Charge shall be produced and transported to the site.
- 3.7 The concrete mix design with admixture will be carried out by the Contractor, at his own cost, through one of the following laboratories/Test houses to be approved by Engineer-in-charge: -
  - 3.7.1 IITs, NITs or any Govt. Engineering College.
  - 3.7.2 National Council for Cement & Building Materials, Ballabhgarh.
  - 3.7.3 CRRI, Delhi.
  - 3.7.4 In the event of all the above laboratories being unable to carry out the requisite design/testing; the Contractor shall have to get the same done from any other reputed laboratory with prior approval of the Engineer-in-Charge.

Note: Admixture/ Plasticizer to be used in concrete mix design shall be PCE (Poly Caboxyl Ether) based only and agency shall quote rates accordingly. Nothing extra shall be paid on this account.
- 3.8 The contractor shall submit the mix design report from any of above approved laboratories for approval of Engineer-in-Charge **within time given by Engineer-in-Charge** from the date of issue of letter of acceptance of the tender.
- 3.9 In case of white Portland cement and the likely use of admixtures where CC/RCC is done with concrete pumps in concrete with ordinary Portland/white Portland cement, the contractor shall design and test the concrete mix by using trial mixes with white cement and /or admixtures also, for which nothing extra shall be payable.
- 3.10 Each time when there is change of source or characteristic properties of the ingredients used in the concrete mix during the work, a revised mix design shall be done and approval obtained from the approved Laboratory or as per the direction of the Engineer-in-Charge. Preferably only single source of cement shall be kept for the work. In case contractor

decides to use more than one source of approved cement brand then for each brand separate design mix shall be done and got approved by Engineer-in-charge.

3.11 The Mix shall be designed to produce the grade of concrete having required workability and characteristic strength not less than as specified.

3.12 The mix design for a specified grade of concrete shall be done for a target mean compressive strength  $T_{ck} = F_{ck} + 1.65 S$

Where,

$F_{ck}$  = Characteristic compressive strength at 28 days.

S= Standard deviation

The standard deviation for each grade of concrete shall be calculated separately.

The degree of quality control for this work is “Good” for which the standard deviation (s) obtained for different grades of concrete shall be as follows:-

Grade of Concrete	For “Good” quality of control
M 20	4.0
M 25	4.0
M 30	5.0
M 35	5.0

3.13 Out of the six specimen of each set, three shall be tested at seven days and remaining three at 28 days. The preliminary tests at seven days are intended only to indicate the strength likely to be attained at 28 days. All cost of mix designing and testing connected therewith including charges payable to laboratory shall be borne by the Contractor.

3.14 The samples of cement, aggregate (fine & coarse) to be sent to the laboratories shall be sealed in the presence of the Engineer- in -Charge and shall have his signature and cost of packaging, sealing, transportation, loading, unloading, cost of samples and the testing charges for Mix design in all cases shall be borne by the contractor.

3.15 Notwithstanding the approval granted by Engineer-in-Charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.

3.16 The Engineer-in-Charge reserves the right to exercise control over the ingredients, water and admixtures, purchased, stored and to be used in the concrete including conducting of tests for checking quality of materials fit or unfit for use in production of mix.

3.17 The Contractor shall submit the test data of the material used for concrete mix-design in the laboratories, so the material being used at site can be compared with those data / size etc.

3.18 In case of change of parameters of ingredients (fine aggregate, cement, coarse aggregate) fresh concrete mix-design to be done as mentioned in above paras and got approved from the Engineer-in-Charge before execution.

3.19 The contractor shall make arrangement to install a mini laboratory at site for accelerated testing of design mix concrete as per IS : 9013. The department reserves right to take samples of design mix concrete from the mass production of the concrete for testing and compare with the laboratory's results.

- 3.20 Nothing shall be paid extra for installation and cost of batching plant and other arrangement for making necessary test of design mix concrete.
- 3.21 The item of design mix cement concrete shall be inclusive of all the ingredients including admixtures if required, labour, machinery T & P etc. (except shuttering which will be measured & paid for separately) required for a design mix concrete of required strength and workability. **The rate quoted by the agency shall be net & nothing extra shall be payable on account of change in quantities of concrete ingredients like aggregates and admixtures as per the approved mix design.**
- 3.22 Concrete shall be handled from the place of mixing to the place of final deposit / placement by methods, which prevent segregation, or loss of any ingredients and contamination.
- 3.23 Where concrete is conveyed by chutes, the chute shall be made of metal or fitted with metal lining. The approval of the Engineer-in-charge shall be obtained for the use of chutes in excess of 3 meters length and in such cases the concrete shall be remixed if so required by the Engineer-in-Charge or closed bottom buckets shall be used. If concrete is placed by pumping, the conduit shall be primed properly. Once pumping is started, it shall not be interrupted as far as possible. Concrete shall not be dropped into place from a height more than 1.5m.
- 3.24 Concreting of any portion of the work shall be done in presence of the representative of the Engineer-in-Charge and shall be done only after approval of the Engineer-in-Charge.
- 3.25 Concreting shall be carried out continuously between constructions joints shown on the drawings or as agreed by the Engineer-in-Charge. The contractor shall closely follow the sequence of concreting where it is specified in the drawings. If concreting is interrupted before reaching the predetermined joint an approved construction joint shall be provided. Construction joints shall be minimized as far as possible. These shall be set at right angles to the general direction of the member. The surface film of the first placed concrete should preferably be removed while the concrete is still green to expose the aggregate and leave a sound irregular surface. However, care shall be taken not to disturb the concrete already laid.
- 3.26 **Admixtures:** Wherever required, admixtures of approved quality only shall be mixed with concrete as specified. The admixtures shall conform to IS: 9103. The chloride content in the admixture shall satisfy the requirements of BS: 5075. The total amount of chlorides in the admixture mixed concrete shall also satisfy the requirements of IS 456-2000.
- 3.27 Use of ready mixed concrete (RMC) may also be permitted, with prior approval of Engineer –in – Charge, without any extra payment. Separate account of design mix concrete and RMC shall however be kept. The ready mixed concrete shall conform to the requirement of durability, workability and strength as laid down for design mix concrete.
- 3.28 **Use of Fly Ash and Fly Ash Blended Cements in RCC Structures:-**  
**General:** IS: 456-2000 Code of Practice for plain and Reinforced Concrete (as amended up to date) shall be followed in regard to Concrete mix Proportion and its production as under :-  
 1. The concrete mix design shall be done as “Design Mix Concrete” as prescribed in clause – 9 of IS 456 mentioned above.



2. Concrete shall be manufactured in accordance with clause 10 of above mentioned IS : 456 covering quality assurance measures both technical and organizational, which shall also necessarily require a qualified Concrete Technologist to be available during manufacture of concrete for certification of quality of concrete.

3. Minimum M25 grade of concrete shall be used in all structural elements made with RCC both in load bearing and framed structure.

4. The mechanical properties such as modulus of elasticity, tensile strength, creep and shrinkage of flyash mixed concrete or concrete using flyash blended cements (PPCs) should not likely to be significantly different and their values are to be taken same as those used for concrete made with OPC. Fly ash when used in the production of concrete shall be strictly in conformity with IS : 3812 (Para 1 & 10).

5. To control higher rate of carbonation in early ages of concrete both in flyash admixed as well as PPC based concrete, water / binder ratio shall be kept as low as possible, which shall be closely monitored during concrete manufacture. If necessitated due to low water / binder ratio, required workability shall be achieved by use of chloride free chemical admixtures conforming to IS : 9103. The compatibility of chemical admixtures and super plasticizers with each set OPC, fly ash and / or PPC received from different sources shall be ensured by trials.

6. In environment subjected to aggressive chloride or sulphate attack in particular, use of flyash admixed or PPC based concrete is recommended. In cases, where structural concrete is exposed to excessive magnesium sulphate, flyash substitution / content shall be limited to 18% by weight. Special type of cement with low C3A content may also be alternatively used. Durability criteria like minimum binder content and maximum water / binder ratio also need to be given due consideration in such environment.

7. Wet curing period shall be enhanced to a minimum of 10 days or its equivalent. In hot and arid regions, the minimum curing period shall be 14 days or its equivalent.

### **3.29 Use of Flyash Admixed Cement Concrete (FACC) in RCC Structures:-**

There shall be no bar on use of FACC in RCC structures subject to following additional conditions :-

1. Flyash shall have its chemical characteristics and physical requirements etc. conforming to IS : 3812 (Part-10) and shall be duly certified.

2. To ensure uniform blending of flyash with cement in conformity with IS : 456, a specific facility needs to be created at site with complete computerized automated process control to achieve design quality or with similar facility from Ready Mix concrete (RMC) plants.

3. As per IS : 1489 (Part-I), Maximum 35% of OPC by mass is permitted to be substituted with flyash conforming to IS : 3812 (Part-I) and same is reiterated.

4. Separate storage for dry flyash shall be provided. Storage bins or silos shall be weather proof and permit a free flow and efficient discharge of fly ash. The filter or dust control system provided in the bins or silos shall be of sufficient size to allow delivery of flyash maintained at specified pressure to prevent undue emission of flyash dust, which may interfere weighing accuracy.

### **3.30 Use of Fly Ash Blended Cements in Cement Concrete (PPCC) in RCC structures**

1 Subject to General Guidelines detailed out as above, PPC manufactured conforming to IS : 1489 (Part-I) shall be treated at par with OPC for manufacture of Design Mix Concrete for structural use in RCC.

2 Till the time, BIS makes it mandatory to print the %age of flyash on each bag of cement, the certificate from the PPC manufacturer indicating the same shall be insisted upon before allowing use of such cements in works.

3 While using PPC for structural concrete work, no further admixing of fly ash shall be permitted.

### **3.31 Conditions for Ready-mix concrete :-**

- (a) The contractor can use concrete from RMC plants also with prior approval of the Engineer in-charge, instead of preparing the same in central batching plant at site within agreement item of Batch Mix Plant without any extra cost, looking to expedite the progress and need of work. However for procuring RMC from approved plant the contractor shall follow the following conditions. Nothing extra shall be payable to the contractor for procuring RMC from the external plant.
- (b) For procurement of ready mix concrete from approved RMC plants, the contractor shall, within a 15 days of award of the work, submit list of at least three RMC plant companies of repute along with details of transit mixer and pumps etc. to be deployed indicating name of owner/company, its location capacity, technical establishment, past experience and text of MOU proposed to be entered between purchaser (the contractor) and supplier (RMC Plant). The Engineer – in – Charge shall give approval in writing (subject to draw of MOU). The contractor shall draw the MOU with approved RMC plant owner / company and submit to Engineer – in – Charge within a week of such approval. The contractor will not be allowed to purchase ready mixed – concrete without completion of above stated formalities for use in this project. Notwithstanding the approval granted by Engineer-in-charge in aforesaid manner, the contractor shall be fully responsible for quality of concrete including input control, transportation and placement etc.
- (c) The Engineer-in-charge will reserve right to inspect at any such stage and reject the concrete if he is not satisfied about quality of product. The contractor should therefore draw MOU / agreement with RMC owner / company very carefully, keeping all terms and conditions / specifications forming a part of this tender document. Including the following controls.

- i. The Engineer-in-charge reserves the right to exercise control over the ingredients, water and admixtures purchased, stored and to be used in the concrete including conducting of tests for checking quality of Materials, recordings of test results and declaring the Materials fit or unfit for use in production of mix.
  - ii. Calibration checks of the RMC.
  - iii. Weight and quantity check on the ingredients, water and admixtures added for batch mixing.
  - iv. Time of mixing of concrete.
  - v. Testing of fresh concrete, recordings of results and declaring the mix fit or unfit for use. This will include continuous control on the workability during production and taking corrective action.
- For exercising such control, the Engineer-in-charge (if required) shall periodically depute his authorized representative at the RMC plant. It shall be responsibility of the contractor to ensure that all-necessary requirement manpower & facilities are made available to Engineer-in-charge and / or his authorized representative at RMC plant.
- (d) The ready-mix concrete should be produced in RMC plant using fully automatic batching plant having capacity to produce 30 cum/hr. The plant should have computerized control and shall give print out of all the ingredients.
  - (e) All required relevant records of RMC shall be made available to the Engineer-in-charge or his authorized representative. Engineer-in-charge shall, as required specify guidelines & additional procedures for quality control & other parameters in respect of materials and production & transportation of concrete mix, which shall be binding on the contractor & the RMC plant.
  - (f) 43 grade OPC/ PPC as per schedule of the contract (conforming to relevant IS Codes) of brand / make / source as approved by Engineer-in-charge shall only be used for production of concrete.
  - (g) The RMC produced concrete be accepted by Engineer-in-Charge at site after receipt of the same after fulfilling all the requirements of mix mentioned in the tender documents.
  - (h) The item of design mix cement concrete shall be inclusive of all the ingredients including admixtures if required, labour, machinery, T&P etc. required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net & nothing extra shall be payable on account of change in quantities of concrete ingredients like cement and aggregates and admixtures etc. as per the approved mix design.
  - (i) Ready mix concrete shall be arranged in quality as required at site of work by transportation in a transit mixer. [The general conditions of transit mixer and other requirement shall conform to IS:5892.] Ready mix concrete shall be supplied as per the pre-agreed schedule approved by Engineer-in-charge.

- (j) All other operations in concreting work like Mixing, Slump, transportation, laying / placing of concrete, compaction, curing etc. not mentioned in this particular specification for Design Mix Concrete shall be as per IS : 456-2000 or amended thereafter.
- (k) For design mix concrete of RCC other than those specified above, the contractor shall use the Design mix concrete produced by a central batching and mixing plant at his own cost. The contractor, if he so desires, can arrange the design mix concrete also from Ready mix concrete producer after obtaining written approval of the Engineer-in-charge. Nothing extra whatsoever shall be payable on this account.
- (l) Ready mix concrete shall be arranged in quantity as required at site of work. The ready-mix concrete shall be supplied as per the pre-agreed schedule approved by Engineer-in-charge. Nothing extra shall be payable on this account.
- (m) The item of design mix cement concrete (produced at site as well as arranged from RMC producer) shall be inclusive of all the ingredients including admixtures if required, labour, machinery, transportation etc. (except reinforcement and shuttering which will be measured & paid as per provision of contract) required for a design mix concrete of required strength and workability. The rate quoted by the agency shall be net & nothing extra shall be payable on account of changes in quantities of concrete ingredients like cement and aggregates and admixtures etc. as per approved mix design except for quantity of extra cement payable as per schedule of quantity. Other operations in concreting work like Mixing, Slump, transportation, laying / placing of concrete, compaction, curing etc. not mentioned in this particular specification for Design Mix of Concrete shall be as per IS : 456-2000.

#### **4.0 Waterproofing**

##### **4.1 The contractor shall associate specialized agency for water proofing work, duly approved by the Engineer-in-Charge.**

- 4.2 The water proofing compounds shall be in accordance to approved make of materials annexed in the contract agreement. Contractor shall get the water proofing product and its make approved from Engineer-in-charge. However, this approval shall not exempt the contractor from responsibility for success of water proofing treatment done by him.
- 4.3 Total quantity of the water proofing compound required shall be arranged only after obtaining the prior approval of the make by Engineer-in-charge in writing. Materials shall be kept under double lock and key and proper account of the water proofing compound used in the work shall be maintained. It shall be ensured that the consumption of the compound is as per specified requirements.
- 4.4 Specialized labour shall prepare a mock up sample to demonstrate to engineer-in-charge the success of water proofing treatment.
- 4.5 The finished surface after water proofing treatment shall have adequate smooth slope as per the direction of the Engineer-in-charge.

- 4.6 Before commencement of treatment on any surface, it shall be ensured that the outlet drain pipes / spouts have been fixed and the spout openings have been eased and rounded off properly for easy flow of water.
- 4.7 The contractor shall get water proofing work done checked by engineer-in-charge or his authorized representative by flooding of water for sufficient duration as directed by Engineer-in-charge. However, this approval shall not exempt the contractor from responsibility for success of water proofing treatment done by him.
- 4.8 The Contractor, for the work of water proofing, will have to execute a guarantee bond in the prescribed proforma in this bid document for removing any defects in waterproofing done by it in this contract for 10 years after completion of entire work in the contract agreement.
- 4.9 10% of total cost of water proofing item (excluding cost of external plaster on masonry, if water proofing compound added in external plaster also) shall be retained as additional security deposit and the amount so withheld would be released after ten years from the date of completion of the entire work under the agreement. If the performance of the work done is found unsatisfactory and any defects noticed during the guarantee period, they shall be rectified by the Contractor within 10 days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another Contractor at the risk and cost of the Contractor.

## **5.0 ALUMINIUM WORK**

- 5.1 The material for the work shall be procured from the approved manufacturer as per preferred make list for materials in this contract agreement. Aluminum doors, windows etc. shall be of sizes, section detail as shown on the drawings. The details shown on the drawings indicate generally the sizes of the components parts and general standards. These may be varied slightly to suit the standards adopted by the manufacture. The Contractor shall procure and submit samples of various materials to be used in the work for the approval of Engineer-in-Charge and no work shall commence before such samples are approved. Samples of un-anodized as well as polyester powder coated aluminium sections, microwave cured EPDM gaskets, glass, stainless steel screws, anchor fasteners, hardware and any other material or components requiring approval of samples, in opinion of Engineer-in-Charge, shall be submitted for the approval as mentioned above. The above samples shall be retained as standards of materials and workmanship.
- 5.2 The contractor shall submit the shop drawings of doors, windows louvers cladding and other aluminum work, based on architectural drawings to Engineer-in-charge for his approval. The drawings shall show full size sections of door, window etc. thickness of metal (i.e. wall thickness) details of construction, sub frame / rough ground profile anchoring details, hardware as well as connection of windows doors, and other metal work to adjacent work. Samples of all joints and methods of fastening and joining shall be submitted to the Engineer-in-Charge for approval well in advance of commencing the work. The Contractor shall prepare a finished sample of the aluminium window along with glazing panel and fittings etc. for approval of workmanship and material. Nothing extra shall be payable on this account.

- 5.3 Only after the approval of the material samples and sample windows by the Engineer-in-Charge, the Contractor shall procure the material for the work. All materials brought to the site by the Contractor, for use in the work, as well as fabricated components shall be subject to inspection and approval by Engineer-in-Charge. The Contractor shall produce manufacturer's test certificates for any material or particular batch of materials supplied by him.
- 5.4 Aluminium sections to be used for various works shall be appropriate to meet technical, structural, functional and aesthetic considerations. The polyester powder coating shall be carried out in a factory / workshop approved by engineer-in-charge.
- 5.5 **Fabrication :** The factory for fabrication and anodizing/polyester coating of aluminum windows/doors/frameworks shall be got approved from Engineer-charge. The fabrication unit should have experience of having done similar work of similar cost in 7 years prior to date of submission of proposal by contractor.
- 5.6 All joints shall be accurately fabricated and be hairline in appearance. The finished surface shall be free from visible defects. All the aluminium windows/ventilators/doors shall be factory made and shall be brought to site for assembly and fixing.
- 5.7 All hardware used shall conform to the relevant specifications and as per samples approved by the Engineer-in-Charge. Design, quality, type, number and fixing of hardware shall be generally in accordance with architectural drawings and as approved by the Engineer-in-Charge before use.
- 5.8 All doors, windows, ventilators and glazing etc. shall be made water tight with microwave cured EPDM gaskets and weather silicone sealants to the satisfaction of the Engineer-in-Charge.
- 5.9 The frames shall be strictly as per Architectural drawings, the corners of the frame being fabricated to the true right angles. Both the fixed frames and openable shutter frames shall be fabricated out of sections cut to required length, mitered and mechanically jointed for satisfactory performance. All members shall be accurately machine milled and fitted to form hairline joints. The jointing accessories such as aluminum cleats, stainless steel screws etc. shall not to cause any bi-metallic reaction by providing separators, wherever required. Vertical members of the aluminum frame work shall be embedded in the floors, wherever required, by cutting and making good of the floor.
- 5.10 **FIXING OF ALUMINIUM FRAME WORK**
- 5.10.1 *The screws used for fixing fixed aluminum frames of the aluminum windows to masonry walls / RCC members and aluminum members to other aluminum members shall be of stainless steel of approved make and quality and of stainless steel grade 304. Threads of machine screws used shall conform to requirement of I.S. 4218.*
- 5.10.2 *For the aluminium windows, the gap between the aluminium frames and the R.C.C / Masonry and also any gaps in the various sections shall be filled with weather silicone sealant DC 795 of Dow Corning or equivalent in the required bite size, to ensure water tightness including providing and fixing backer rod, wherever required. The weather silicone sealant shall be of such approved colour and composition that it would not stain*

*or streak the masonry / R.C.C. work. It should not sag or flow and shall not set hard or dry out under any conditions of weather and shall be tooled properly. The weather silicone sealant shall be used as per the manufacturer's specifications and shall be of approved colour and shade. Any excess sealant shall be removed / cleared.*

*5.10.3 Fixing of glass panes shall be designed in such a way that replacing damaged / broken glass panes is easily possible without having to remove or damage any members or interior finishing materials.*

#### **5.11 PROTECTIONS AND CLEANING**

*5.11.1 All glass panes shall be retained within aluminium framing by use of exterior grade microwave cured EPDM gaskets. Use of glazing or caulking compounds around the perimeter of glass will not be permitted. There shall be no whistling or rattling. Before installation of glass, Contractor shall ensure the following:*

- All glazing rebates shall be square, to plumb, true to plane, dry and free from dust.
- Glass edge shall be clean and cut to exact size and grounded
- Low „E“ – Heat strengthened glass of specified thickness in doors, windows, ventilators and fixed glazing etc. shall be of approved make and standard quality conforming to C.P.W.D. Specifications.

#### **6.0 MEASUREMENT AND RATES:**

6.1 Aluminium frame work shall be measured as per CPWD specifications.

6.2 For glazing, the actual area of the glass panels excluding the portion in the beading shall be measured in Sqm upto two decimal places, for payment.

- a. Stainless steel adjustable heavy duty friction hinges and the aluminium handles for the openable side hung windows shall be of "Securistyle", "Hettich" or equivalent as approved by the Engineer-in-Charge. 2 nos. friction hinges shall be provided per shutter.
- b. The cost of designing and preparation of shop drawings, all the samples, mockup of window etc. is deemed to be included in the cost of the relevant items. Nothing extra shall be payable on this account.
- c. The item for aluminium for fixed portions for aluminium windows and frame work for partitions shall include cost of all inputs of labour, polyester power coated (anodized aluminium sections, including cleats, other fixtures, stainless steel screws, nuts, bolts, rawl plugs, backer rods, polyethylene tapes etc. which shall be required for fabrication and erection of aluminium work, T & P, all incidental charges, wastages etc. involved in the work. However, for the purpose of payment, the weight of aluminium sections for the fixed window frame and frame work for partitions shall be measured in Kg.
- d. The aluminium cleats, stainless steel screws, nuts, bolts, separators etc. shall not be measured separately for payment and their cost is deemed to be included in the cost of this item. The item for aluminium for frame work for fixed partitions shall also include cost of providing and fixing stainless steel anchor fasteners as required.
- e. The item of aluminium for the openable aluminium shutters for windows and doors etc., shall include cost of all inputs of labour, material (polyester powder coated aluminium sections, including such as cleats / angles, other fixtures, stainless steel screws nuts, bolts,

stainless steel hinges etc. which shall be required for fabrication of aluminium work) T & P, all incidental charges, wastages etc. involved in the work. However, for the purpose of payment, the weight of aluminium sections for the window shutter (sash frame) shall be measured in Kg. The aluminium cleats, stainless steel anchor fasteners, screws, nuts, bolts, separators, stainless steel hinges, etc. shall not be measured separately for payment and their cost is deemed to be included in the cost of this item. The anodized aluminium snap beading for fixing glass panels in the openable shutters of the windows shall be measured separately (on weight basis) and paid under this item of aluminium frame work for window shutters.

- f. The glass shall be paid for separately under relevant item. The cost providing and fixing Microwave cured EPDM gasket, felt etc. is included in the cost of this item and shall not be measured separately for payment.
- g. The cost of providing and fixing baker rods and filling silicone sealants for gaps in between masonry and aluminum framework is included in cost of the agreement item of aluminium work and nothing extra shall be paid for these items required at site in new works.
- h. The item for the aluminium frame work includes cost of making provision for fixing fittings, wherever required, as per the item description (The cost for providing fitting i.e. handle, lock and buffer, silicon sealant shall be paid for separately).

#### **7.0 GUARANTEE FOR ALUMINIUM WORK**

- 7.1 The contractor shall guarantee about proper design and performance of aluminium work for a period of 10 years from the date of completion of work.
- 7.2 The design and installation shall be to the best international standards and shall specially take account of wind and seismic loads, storms, thermal stresses, building movements and the like.
- 7.3 The 10 year guarantee, shall be furnished in non-judicial stamp paper of value Rs.100/- or more, in prescribed proforma for performance of glazed units, anodizing, EPDM/silicon gaskets and sealants. The guarantees shall be submitted before final payment and shall not in any way limit any other rights to correct which the Employer may have under the Contract.
- 7.4 In addition to above, 5% (Five percent) of the cost of all the items under sub-head ALUMINIUM WORK, as mentioned in schedule of quantities, shall be withheld from the bills towards guarantee as specified above. This amount to be withheld towards guarantee shall be in addition to the other amounts to be withheld as mentioned elsewhere in the contract agreement. However, half of this withheld amount would be released after five years from the date of completion of the work, if the performance, as required, is satisfactory. The remaining withheld amount shall be released after 10 years from the date of completion of work, if the performance, as required, is satisfactory. If any defects is noticed during the guarantee period, it shall be rectified by the contractor within seven days of issue of notice to the contractor, temporarily, to the satisfaction of the **CPWD/ Client Department or any other authorized representative of client department** and within a period of one month the permanent rectification of the defects/replacement of defective materials should be carried out by the contractor. If not attended to, the same shall be got



done through other Contractor at the risk and cost of the contractor and the cost, which shall be final and binding on the contractor, shall be recovered from the amount withheld towards the guarantee as mentioned above or any other amount due to the contractor. However, the amount withheld as guarantee can be released in full, irrevocable bank guarantee, from a Schedule/Nationalized Banks, of the same amount, for the guarantee period is submitted by the contractor in favour of Engineer-in-charge. The defects, if any, shall be rectified, retaining the same aesthetics and other functional parameters of the original work.

**8.0 Additional Conditions for Painting Work:**

- 8.1 *Mechanical sanding machine (for scrubbing & preparation of surface) shall be used by the contractor.*
- 8.2 *In case of painting over old work / new work, the contractor shall give proper notice to the Engineer-in-charge after the surface is prepared & before applying of primer coat / paint. The Engineer-in-charge shall either approve the surface thus prepared or ask the contractor to rectify the defects pointed. Only after approval by Engineer-in-charge, the priming / painting coat shall be applied.*
- ~~8.3 *Primer coat shall be applied over cement based putty as per specifications of the paint manufacturers. If the component of primer is not included in the SCHEDULE OF WORK Agreement item for painting, then payment for primer shall be made to the contractor separately.*~~

**9.0 Preferred Make & Approval of materials:**

- 9.1 *Contractor shall adopt materials in work as per preferred make of materials annexed in this contract document. Contractor shall submit at least three makes of material which he propose to use for this work for approval of engineer-in-charge. The approval of samples by Department shall be final and binding. The approved samples shall be preserved at work site in safe custody till completion of whole work. In case any sample submitted by contractor is not approved by Engineer-in- charge, contractor shall arrange and submit alternate samples for approval of engineer-in-charge. The Contractor should also consider the availability of spares parts/components for maintenance purposes while proposing any brand/manufacturer.*
- 9.2 *Wherever work is specified to be done or material procured through specialized agencies, their names shall be got approved well in advance from Engineer-in-charge. Failure to do so shall not justify delay in execution of work. It is suggested that immediately after award of work, contractor should negotiate with concerned specialist agencies and send their names for approval to Engineer-in-charge. Any material procured without prior approval of Engineer-in-charge in writing is liable to be rejected. Engineer-in-charge reserves right to get the materials tested in laboratories of his choice before final acceptance. Non-standard materials shall not be accepted.*
- 9.3 *Various factory-made materials shall be procured from reputed and approved manufacturers or their authorized dealers and the material shall conform to the make as specified in this contract agreement. However for the items not appearing in the list, preference shall be given to those articles which bear ISI certification marks. In case*

articles bearing ISI certification marks are not available or where BIS certification system is available for a particular material/product but not even a single producer has so far approached BIS for certification, the material can be used subject to the condition that in such case written approval of Engineer-in-charge be obtained before use of such material in the work.

- 9.4 All materials and articles brought by the contractor to the site for use shall conform to the samples approved, which shall be preserved till the completion of the work. However, such articles which bear ISI mark but stand banned by CPWD will not be used. Notwithstanding the case of materials of "Preferred Make" as given, provisions of Clause 10A of the General Conditions of Contract for Central PWD works shall be applicable on the materials of "Preferred Make" also.
- 9.5 In the schedule of quantities / nomenclature of some items, the make(s) of product / material has been mentioned. The contractor is required to provide the same make(s) as mentioned in the item. If the same are not available in the market or the suppliers adopts monopolistic practice then the approval of other equivalent brand / make, matching with SCHEDULE OF WORKItems and specification, can be taken from Engineer-in-charge. The contractor will submit such a case at least three months before the materials is required at site. If the rate of other equivalent brand / make are less than the brand / make mentioned in the SCHEDULE OF WORKItem, than necessary cost adjustment will be made for difference in rates.
- 9.6 For items / materials not appearing in the list of preferred make of materials, decision of Engineer-in-charge shall be final and binding.
- 9.7 The list of preferred make of materials for Civil Works is given as **Annexure-II**.
- 9.8 Sanitary and water supply items shall be as per make specified in SCHEDULE OF WORKItem(s) and if no make is mentioned in SCHEDULE OF WORKItem, same shall be as per "Normal Range" in preferred make list of materials.
- 9.9 Sample of building materials, fittings and other articles required for execution of work shall be got approved from the Engineer-in-Charge before use in the work. The quality of samples brought by the Contractor shall be judged by standards laid down in the relevant CPWD/ BIS specifications. In case, samples provided by Contractor are not approved, Contractor shall submit new samples of the materials and other articles for approval of Engineer-in-charge. Decision of Engineer-in-charge w.r.t. approval of samples of materials shall be final and binding on the contractor. All materials and articles brought by the

*Contractor to the site for use shall conform to the samples approved by the Engineer-in-Charge which shall be preserved till the completion of the work.*

- 9.10 *BIS marked materials except otherwise specified shall be subjected to quality test at the discretion of the Engineer-in-Charge besides testing of other materials as per the specifications described for the item/material. Wherever BIS marked materials are brought to the site of work, the Contractor shall, if required, by the Engineer-in-Charge, furnish manufacturer's test certificate or test certificate from approved testing laboratory to establish that the material procured by the Contractor for incorporation in the work satisfies the provisions of contract agreement, specifications / BIS codes relevant to the material and / or the work done.*

#### **10.0 GUARANTEE BONDS FOR VARIOUS ITEMS :**

The contractor shall be duly responsible for and shall guarantee proper design and performance of the following items for a period of 10 years from the date of completion of the work:-

1	All water proofingwork (except waterproofing on masonry plaster)	<p>Ten percent of the cost of water proofing work and Five percent of the cost of work of other items shall be retained as security deposit.</p> <p>The amount so withheld would be released after <b>10 (Ten) years</b> from the date of completion of the entire work under the agreement, if the performance of the work done is found satisfactory. If any defect / leakage is noticed during the guarantee period, it shall be rectified by the contractor within seven days of receipt of intimation of defects in the work. If the defects pointed out are not attended to within the specified period, the same will be got done from another Contractor at the risk and cost of contractor.</p> <p>However, the security deposit deducted may be released in full against bank guarantee of equivalent amount in favour of Engineer-in-charge, if so decided by the Engineer-in-charge. The Security deposit against this item of work shall be in addition to the security deposit mentioned elsewhere in contract form.</p>
2	Aluminum Windows, Doors & frame works	
3	Internal water supply and Internal sanitary installations except sanitary fittings*.  (*manufacturer warranty for sanitary fittings shall be submitted to Engineer-in-charge)	

#### **11.0 SPECIFICATION FOR RANDOM RUBBLE MASONRY**

- |   |           |  |
|---|-----------|--|
| 1 | Scope     | : <i>This specification covers materials joints, laying and mode of measurement of Random Rubble Masonry.</i>  |
| 2 | Materials | : Stones: The stone shall be the type specified such as granite, trap, limestone, sand stone, quartzite etc. and shall be obtained from the quarries, approved by the Engineer in charge. Stone shall be hard, sound durable and free from weathering decay and defects like cavities, cracks , flaws, sand holes, injurious veins, patches of loose or soft material and other similar defects that may adversely affect its strength and appearance. As far as possible. Stones shall be of uniform colour, quality or texture .Generally stone shall not contain crypst crystalline silica or chart, mica and other deleterious materials like iron-oxide organic impurities etc.<br><i>Stone with round surfaces shall be not be used.</i> |

Table-I

*Note 1 : Test for compressive strength shall be carried out as laid down in IS: 1121 (Part-I)-1974*

- (a) *Dressing : The stone shall be merely knocked off at the sharp and irregular corners, edges and wherever necessary for lifting well into the work.*

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*No bushing exceeding 20mm shall be allowed on the face. The quoins shall be neatly dressed to form the required angle (i.e. at jambs and corners).*

- (i) *Bond Stone : The stones shall not be less than 400 sq.cm in cross sectional area at any point and shall run right through the for wall upto 60 cms and in case the wall thickness exceeds 60 cms a line of two or more bond stone shall be laid from face to back overlapping each other by 15cms minimum, the length of such bond stones shall be at least 50cms.*
- (ii) *Face stones : At least 25% stone shall be headers tailing into the work at least 2/3<sup>rd</sup> the thickness of wall or full thickness of wall for walls 30 cms and less in thickness. Such stones shall be not be less than 200 sq.cms in cross section.*
- (iii) *Hearting and backing : Where hearting can accommodate a fair proportion of the stones used in the hearting shall be of large size 25% of them shall exceed 0.01 cum. in content.*
- (iv) *Quoins : The quoins shall be at least 30 cms in average length and 0.01cum in content and laid alternately as headers and stretchers, out of then stone at course not exceeding 1 meter centre to centre , shall be provide with a minimum length of 50cms and cross-sections 200 sq.cm (Size of bond specified above) on each exposed face.*
- (v) *Jamb Stones : The jambs shall be made with stones specified for quoins except that the stone which were required to be provided at 1 metre centre to centre on both the exposed faces shall here be provided only on the jamb and the length shall be equal to the thickness of the wall for wall upto 60cms and a line of headers shall be provided for walls thicker than 60 cms as specified for bond.*

3 Courses : *The masonry shall be carried out in regular courses of height not exceeding 50 cms and masonry on any day will not be raised more than 60 cms in height when using mortars having compressive strength less than 20 kg/sq.cm at 28 days and 100 cms when using mortars exceeding this strength.*

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			<i>No attempt shall be made to level up the masonry at each courses by the use of thin stones.</i>
4	Thickne ss of Joints	:	<i>The Joints shall not exceed 30mm at any point on the face. Clips of the stones and spalls shall be wedged into the face beds and joint to avoid excessive bed and joint thickness</i>
5	Laying	:	<i>Stones shall be laid on their natural bed and shall be solidly bedded full in mortar with close joints, chips of stone spalls be wedged into the work wherever necessary. No dry work or hollow spaces shall be allowed and every stone whether large or small shall be carefully selected to fit snugly the interstices between the large stones. Masonry shall be built breaking joints in all the three directions. Bone stones and headers shall be properly laid into the work and shall be marked by the contractor with white lead paint. The bond stones shall be provided at the rate of two bond stones per square meter of face area.</i>
6	Raking out joints	:	<i>All the joints on the faces to be pointed or plastered shall be racked out with racking tool to a depth of 20mm while the mortar is still green.</i>
7	Mortar	:	<i>The mortar used for joining shall be as specified.</i>
8	Scaffolding	:	<i>Single scaffolding having one set of vertical supports shall be sound and strong, tied together by horizontal pieces, over which the scaffolding planks shall be fixed. The inner end of the horizontal scaffolding member may rest in a hole provided in the masonry. Such holes however, shall not be allowed in pillars under one metre in width or near the skew back of arches. The holes left in masonry work for supporting scaffolding shall be filled and made good with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 Stone aggregate 20 mm nominal size).</i>
9	Protection	:	<i>Green work shall be protected from rain by suitable covering. The work shall also be suitable protected from damage, mortar dropping and rain during construction.</i>
10	Curing	:	<i>Masonry work in cement or composite mortar shall be kept constantly moist on all faces for a minimum period of seven days. In case of masonry with fat lime mortar curing shall for at least seven days thereafter.</i>
11	Measurement	:	<i>(a) The work shall be measured by volume and the unit shall be cubic metres.</i>

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(b) Walling curved on plan to mean radius not exceeding 6 m shall be measured separately inclusive of all cuttings waste and templates. Walling curved on plan to mean radius exceeding 6m shall be included with the general walling and shall be measured net only.

(c) No deductions or additions on any account shall be made for :-

(i) Opening upto 500 sq.cm. in cross section (in calculating this area the size of the openings include any separate lintel or sill but not extra width of rebated reveals if any).

(ii) Ends of dissimilar materials (i.e. joints rafters, girders, purlins, trusses etc.) upto 500 sq.cm. in cross section.

(iii) Bearings of chajjas, slabs, steps, shelves etc. when the bearings are not paid for the respective items.

12                      Rate                      :                      The rate shall include the cost of materials and labour required for all the operations described above and shall include the following :

(a) Ranking out joints for plastering or pointing done as a separate item, or finishing flush as the work proceeds.

(b) Preparing tops and sides of existing walls for raising and extending.

(c) Rough cutting and waste forming gables cores, skew backs or spandrels of arches, splays at eaves and all rough cutting in the body of walling unless otherwise specified.

(d) Bond stones or cement concrete bond blocks.

(e) Leading and making holes for pipes etc.

(f) Bedding and pointing wall plates, lintels, sills etc. in or on walls, bedding roof tiles and corrugates sheets in or on walls.

(g) Building in ends of joints, beams, lintels etc.

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### SPECIAL CONDITIONS FOR WORK CONTRACT

Contractor has to submit stamp paper of required amount i.e. 0.15% of the tender amount or subject to max of Rs. 25.00 Lacs as per prevailing order of Government of Rajasthan Finance department (Tax Division) dt. 06-11-2020 or as modified and applicable within 15 days from issue of work order. The total stamp duty amount shall be borne by the contractor.

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PREFERRED MAKES OF MATERIALS FOR CIVIL WORKS		
Sl No.	Material	Preferred Make
1.	(i) Ordinary Portland Cement/Portland Pozzolana Cement.	ACC, Ultratech, Ambuja Cement, J.K. Cement
	(ii) White Cement	Birla White, J.K. White
2.	Reinforcement Steel	SAIL, Tata Steel (TATA), Rashtriya Ispat Nigam Ltd. (RINL), JSW Steel Ltd. (JSW), Jindal Steel & Power Ltd. (JSPL).
3.	Water Proofing Compounds, Admixtures Plasticizer, Super Plasticizer, Curing Compounds	Fosroc, CICO, Sika, BASF, ArdexEndura (BalEndura), KRYTON, Penetron
4.	Grouts, Tile Adhesive	MYK Laticrete, Ferrous Crete, AdrexEndura
5.	Structural Steel	SAIL, Tata Steel, Rashtriya Ispat Nigam Ltd, (RINL), JSW Steel Ltd., Jindal Steel & Power Ltd.
6.	Laminates	Greenlam, Merino, Century, ARCHIDPLY, Duro Ply
7.	Flush door shutters	Duro, Century, Green Ply, Archidply NOTE: Only ISI marked flush door shutters to be used.
8.	Plywood/Veneer	Green Ply, Century, Merino, Duro
9.	Floor Spring & Door Closure	Dormakaba, Hafele, Geze, Assa Abloy
10.	(a) Aluminium Section	Hindalco, Jindal, Indian Aluminum co.
	(b) Anodised Aluminium Hardware (Heavy Duty)	Kinlong, Alualpha, Classic, Ebco
11.	Clear/Float/Frosted/Toughened Glass/Refractive Glass	Saint Gobain, Asahi Float, Gold Plus
12.	Stainless Steel Railing, Accessories etc.	JSL, Dormakaba, GEZE, Hafele
13.	S.S. Fittings for Door & Window	JSL, Dormakaba, GEZE, Hafele, Assa Abloy
14.	Silicon based water repellent/Weather Sealant	G.E. Plastics, Dow Corning, Wacker, BASF, Pidilite
15.	Poly-Sulphide Sealant	Fosroc, Pidilite (Dr. Fixit/Roof), Sika, BASF
16.	Ceramic Tiles	Kajaria, RAK, Somany, Johnson NOTE: The tiles manufactured at mother plant, to be used.
17.	Vitrified Tiles (Antiskid/Matt/Glazed) (Only Double charged vitrified tile permitted.)	Kajaria, RAK, Somany, Johnson NOTE: The tiles manufactured at mother plant, to be used.

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18.	Dash/ Anchoring Fasteners/ SS Stone Cladding Clamps	HILTI, Fischer, Bosch, Wurth
19.	Cement based wall Putty	Birla wall care, JK White, Wonder
20.	Acrylic Emulsion Paint	Asian Paints (Professional Premium Interior Emulsion Paint), Nerolac : Beauty Gold Berger : Rangoli total care ICI-Dulux : Super cover
21.	Plastic Emulsion Paint	Asian Paint (Apolite Heavy Duty Premium Emulsion Paint), Nerolac : Impression, British Paints: Satin Max Interior Berger : Easy Clean ICI-Dulux : 3 in 1
22	Premium Acrylic Emulsion Paints(Interior)	Asian Paints (Royal Luxury Emulsion) Nerolac : Impression Berger : Silk ICI-Dulux : Velvet touch
23	Textured Exterior Paint	Asian Paints, Nerolac, Berger Paints,Ultratech Paints
24	Acrylic Smooth Exterior Paints	Asian Paints (Apex/Professional Premium Exterior Emulsion) Nerolac : XL Berger : Weather Coat ICI-Dulux : Weather Shield
25	Premium Acrylic Smooth Exterior Paints with Silicon additive	Asian Paints : Apex Ultima Nerolac : XL Total Berger : Weather Coat all guard ICI-Dulux : Weather Shield max
26	Synthetic Enamel Paint	Asian Apcolite Premium gloss enamel, Nerolac : Synthetic Hi gloss Berger : Luxol Hi gloss ICI-Dulux : Gloss Synthetic Enamel
27	Cement Primer	Nerolac, Berger (BPWhite), Decoprime WT(Asian), White primer(ICI).
28	Steel Primer(Red Oxide Zinc Chromate Primer)	Asian Paints, Nerolac, Berger, ICI.
29	Wood Primer	Asian Paints (Wood Primer-white/Pink), Berger, ICI, Nerolac.
30	Epoxy Paint	Asian,Nerolac, Berger, ICI
31	Fire Paint	Asian Paints, Akzo Nobel Coatings India Ltd., PROMAT, Jotun, Berger Paint
32	G.I./ M.S. Pipe	Tata, Jindal (Hisar), APL Apollo
33	G.I. Fittings	Unik AVR, Zoloto

34	UPVC pipe and Fittings	Astral, Supreme, Prince, Finolex
35	Centrifugally Cast(spun) Iron Pipes & Fittings	NECO, Electrosteel, SKF, RPMF
36	Hubless Centrifugally Cast (spun) Iron Pipes & Fittings	RPMF, SKF
37	C.I. Manhole covers, Frames & GI Gratings	NECO, RAJ Iron Foundary Agra, BIC, SKF, Kapilansh, NTC
38	SFRC Manhole covers & Gratings	KK JAIN, PARGATI
39	CP Brass Fittings	Jaquar, Grohe, Roca, Kohler
40	Sanitary ware, Fittings & accessories	Jaquar, Grohe, Roca, Kohler
41	Mirror Glass	Atul, Modi Guard, Gold Plus
42	UPVC/CPVC Pipe & Fittings	Astral, Supreme, Prince, Finolex
43	Stainless Steel Sink	Jindal, Hindware, Kohler, Neelkanth, Nirali, Jayna
44	RCC Pipes	Lakshmi, Sood&Sood, Jain Pipe Co. (Newai), Mahaveer Enterprises (Newai), Work well spun pipes, Pali, M/s J K Pipes
45	UPVC Doors & Windows (Profile makers & their authorized Fabricators only)	Fenesta, Simta Astrix, VEKA
46	Heat Resistant Tiles	NTC, Somany, Johnson
47	UPVC doors and window hardware	Roto, Dorset, Kinlong
48	AAC Block Adhesive	UltraTech, ArdexEndura, Ferrous Crete
49	FRP Doors/Panelled & Wiremesh doors	Jayna, Jain Doors Pvt. Ltd., Bhatt FRP
50	WPC/PVC Doors Shutters & Frames	Century Ply, ARCHIDPLY, Greenply
51	Epoxy Grouting compound	Saint Gobain- Weber, MYK Laticrete, Kerakoll, Roff,
52	Aluminium Door & Windows sections	ETERNIA - HINDALCO, Jindal
53	Polyethylene Water Storage Tanks	Sintex, Vectus, Supreme, Plasto

54	Aluminium Door & Windows Fittings	GLOBAL, India Mart, Jindal
55	MS Steel Door frame box section	Apollo, Tata Steel, Sambhv Steel

**Note:-**

In respect of other materials, any ISI marked material can be used on the work but these shall also meet the requirement for obtaining GRIHA 3 star rating. In case any material / product listed above do not meet the requirement required for obtaining GRIHA 3 star rating, alternate product as per decision and approval of tender accepting Authority shall be used. In such situation, cost adjustment (if required) shall be made after approval from tender accepting authority whose decision shall be binding and final.

All other material/ make to be approved by Engineer in charge conforming to Specifications and Nomenclature of item and latest IS Codes and samples to be kept in safe custody for inspection of senior officers.

All other makes approved by SE(Jodhpur) office & valid on the date of publication of this NIT will also be considered part of this list unless specifically cut in above list or their rates are varying by more than 10% from the makes taken in list of preferred makes.

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## **BRIEF PARTICULARS OF THE WORK**

1. Salient features of the work for which bids are invited are as under:

S. No.	Name of work	Estimated cost for composite work	Period of completion
1	<b>Comprehensive maintenance through out-sourcing including day to day maintenance A/R &amp; M/O &amp; Special Repair to Civil &amp; Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer &amp; Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise &amp; Customs Department at Jaisalmer, Pokhran &amp; Mayazlar Chohtan, Gadra road &amp; Income Tax Department at Barmer, Balotra During 2024-25 &amp; 2025-26).</b>	Rs. 41,81,904/- (Civil ) Rs. 36,56,862/- (Electrical) Rs. 78,38,766/- (Composite)	12 (Twelve) Months

2. (a) Building/campuses covered under this tender documents Residential / Non Residential colony are as under :

<b><u>RESIDENTIAL COLONY</u></b>		<b><u>PLINTH AREA</u></b>
1	CPWD Qtr Bera Road, Jaisalmer	264.43 sqm.
2	Custom Colony, Jaisalmer	1495.20 sqm.
3	Central Excise and Custom Colony Mayazlar	602.18 sqm.
4	Central Excise and Custom Colony Pokaran	323.93 sqm.
5	Central Excise and Custom Colony Barmer	1030.10 sqm.
6	Central Excise and Custom Colony Chohatan	606.95 sqm.
7	Central Excise and Custom Colony Gadra Road	620.24 sqm.
8	Mahaveer Nagar Income Tax Colony Barmer	1209.90 sqm.
9	Income Tax Colony Balotra (Judge Colony near Krishi Mandi)	490.01 sqm.
<b><u>NON - RESIDENTIAL BUILDING</u></b>		
1	GPOA/Holiday Home Jaisalmer	2587.57 sqm.
2	CPWD Office Barmer	117.81 sqm.
3	Custom & CGST Office Jaisalmer	1831.40 sqm.
4	Custom & CGST Office Pokaran	649.70 sqm.
5	Custom & CGST Office Miyazlar	435.75 sqm.
7	Custom & CGST Office Gadra Road, Barmer	343.92 sqm.
8	Income Tax Office Barmer	1028.51 sqm.

9	Income Tax office Balotra	365.09 qm.
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**The maintenance work shall be executed as per requirement of the client department**

**Scope of Work :-** Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.

having broad scope as detailed below:-

**(A) The details and broad scope for Civil work is as under :**

1. Attending day to day comprehensive maintenance based on complaint received during said period.
2. Supply of additional labour required based on requirement.
3. Supply of material for day to day maintenance as per requirement at site.
4. Recording all complaints, material used, dismantle received, operating E-Sewa portal and maintaining record of service center.
5. Periodical repair required, cleaning of Drain, sewer line etc, and painting of buildings (both newly allotted and periodically due of actually required) and other maintenance works required at site.
6. Special repair work such as replacement of door, window, WC, wash basin, flooring etc.
7. Renovation of toilets, roof treatment, replacement of RCC/PVC/Over Head/Loft tank.
8. Cleaning of water tank.
9. Cleaning of septic tank, sewer line, trap, manhole etc.
10. Replacement of broken glass of window.
11. Repair of wall/ceiling plaster work.
12. Provision of credit of dismantled material has been made.

## SPECIAL CONDITIONS OF THE WORK

### 1. GENERAL

- 1.1 Wherever any reference to any Indian Standard Specifications of BIS/BS/ASTM occurs in the documents relating to this contract, the same shall be inclusive of all amendments issued there-to or revisions thereof, if any, up to the date of receipt of tenders.
2. Unless otherwise specified, the agreement rates for all items of work of the schedule of quantities are for all heights, depths, leads and lifts involved in the execution of work.
3. The contractor shall make his own arrangements for obtaining electric connection for carrying out any maintenance activity and make necessary payment directly to the department concerned.
4. Other agencies working at site will also simultaneously execute the work entrusted to them and the contractor shall offer necessary co-operation wherever required to other agencies.
5. On account of security consideration, there could be some restrictions on the working hours, movement of vehicles for transportation of materials. The contractor shall be bound of follow all such restrictions and adjust the programme for execution accordingly.
6. The work shall be carried out in a manner complying in all respects with the requirements of relevant bye laws of the local bodies, labour laws, minimum wages act, workmen compensation act and other statutory laws enacted by Central Govt. as well as State Govt.
7. All malba/rubbish/silt/waste/garbage etc. generated due to any operation from houses and other open spaces whatsoever shall be disposed off on daily basis by the contractor to the specified common disposal point and nothing extra shall be paid on this account. After the collection of full truck load of the said malba (aprox 4.5 cubic metres), the same shall be disposed of by the contractor to the authorized municipal dhalao/dumping ground In case of non-removal/disposal in the specified period, a sum of **Rs. One Thousand per day** shall be recovered from the contractor.
8. No residential accommodation shall be provided to any of the staff engaged by the contractor. The contractor shall also not be allowed to erect any temporary set up for staff in the campus.
9. The engineers who are employed by the contractor under clause-32 of the agreement shall monitor the maintenance work and shall be available from any information regarding the work.
10. The Contractor shall employ their regular staff in the works and credentials of employees shall have to be given by the Contractor. No claim of Contractors employees/staff employed for subject work in any form shall be entertained by the department. Police verification of every staff deployed by the Contractor shall be got done by the Contractor compulsorily and a copy of police verification shall be provided to Engineer-in-Charge after which an identity card duly countersigned by Engineer-in-Charge or his representative shall be issued to each employee of the Contractor for proper identification.
11. The Contractor shall provide uniform to each employee/worker along with Name Badge and CPWD Logo
12. All materials, T & P consumable and contingent articles required for the work shall be arranged by the contractor. Materials used shall be in following order of preferences:-
  - (i) Under the Nomenclature of the item.
  - (ii) As per list of preferred makes of materials attached .
  - (iii) CPWD specifications
  - (iv) ISI marked.
  - (v) Approved by T/S authority CPWD.
  - (vi) As per direction of the Engineer-in-Charge.Replaced material used shall have same or richer specifications to the original materials and

- compatible to the work.
13. Staff employed by the contractor shall be well behaved, Polite & courteous. Any complaint against staff on behavior shall be taken very seriously and such staff shall be replaced by the contractor on demand from Engineer-in-Charge. The decision of Engineer-in-Charge shall be final and binding in this case.
  14. The contractor shall make all safety arrangements required for the labour engaged by him at his own cost. All consequences due to negligence or due to lapse of security/safety or otherwise shall remain with the contractor. The department shall not be responsible for any mishap, injury, accident or death of the contractor's staff. No claim in this regard shall be entertained /accepted by the department.
  15. Contractor shall be fully responsible for any damages caused to Govt. property or allottee's property by him or his labour in carrying out the work and the same shall be rectified by the contractor at his own cost.
  16. GST/VAT/WCT/Income Tax/other statutory taxes/ levies as applicable shall be recovered from the contractor's bill.
  17. Chases, holes & drilling works etc. shall be done using only power operated tools.
  18. For non-compliance or partial compliance of satisfactory execution of items, the Engineer-in-Charge reserves his rights to levy compensation in accordance with the scale of non-conformity and the reserves his rights to levy compensations in accordance with the scale of non-conformity and the period for which this non-conformity continues. However the total amount of this compensation for the whole contract shall not exceed 10% of the tendered value of this contract. This shall be without prejudice to other remedies available to Engineer-in-Charge under this contract to take action against the contractor.
  19. The contractor shall have to carry out the work other than day to day maintenance according to programme given by the Engineer-in-Charge or his representative. The contractor shall not carry out any work in any building without permission of Engineer-in-Charge. The contractor shall adhere to this programme failing which he shall be wholly responsible. No claim for idle labour on any account shall be entertained. The contractor shall depute his representative daily to the site of work. His name and signature shall be attested by the contractor for record in the department.
    - (i) The office and portions of office where the work is to be executed on any day shall be got approved from the representative of Engineer-in-Charge at the site of work in writing. No work shall be carried out in any office without the approval of the representative of the Engineer-in-Charge.
    - (ii) Any work carried out without the approval of the representative of the Engineer-in-Charge at the site of work shall be rejected and will not be measured and paid for.
    - (iii) The material such as paints, varnish, distempers, water proofing cement paint and primers etc. as required shall be of approved brand and manufacturers, and of required shade and conforming in all respects to the relevant I.S. specifications.
    - (iv) The manufacturing date and batch No. inscribed or printed on packs/containers by manufacturers are only acceptable for all the above said materials. Fresh material shall be brought at site as far as possible. The material shall be used within its shelf-life as prescribed by the manufacturer. Any material which has out lived its life shall not be permitted to be used in the work and removed immediately from the site. The decision of the Engineer-in-Charge shall be final & binding.



- (v) The contractor shall get the shades of all types of paints, distemper, water proofing cement paint etc. approved from the Engineer-in-Charge before procurement of materials.
  - (vi) The paints/other material shall be issued by the Junior Engineer/Assistant Engineer to the contractors after breaking the seal of the containers/packing and quantity to be issued shall be as per the daily requirement at the site. After day's use balance quantity of paints etc., if any left, will be returned by the contractor to the Engineer-in-Charge or his representative. After use the empty container shall have to be returned to the Engineer-in-Charge or his representative and will not be disposed off till the completion of the work.
  - (vii) The site for the collection and stacking of the material shall be got approved from the Engineer-in-Charge.
  - (viii) Nothing extra shall be paid to the contractor for excess consumption of material.
  - (ix) The contractors shall quote their rates inclusive of all taxes, cartage, royalties, stamp duty etc, complete.
  - (x) The contractor shall prepare one sample of item which shall be got approved from the Engineer-in-Charge. Only on acceptance of sample work, contractor will be allowed to commence the work and sample is to be preserved with the JE-in-Charge of work till the whole work is completed. The quality of entire work should conform to the approved samples.
  - (xi) Contractor shall take daily instructions. A register will be maintained at the Enquiry Office for this purpose. The JE will note down the work in office to be attended to and the dates on which the work in these office is to be started. An authorized representative of the contractor will, therefore, have to visit the Enquire Office daily and note down the instructions in the register.
  - (xii) The contractor and/or his authorized agent should see the site order book every day and get the compliance noted by the Junior Engineer/Assistant Engineer/Engineer-in-Charge.
  - (xiii) All the items of work in a quarter/flat shall have to be taken up-sequentially i.e. after the patch repairs are carried out in one office, white/colour washing will be taken in the same quarter and thereafter painting shall have to be got completed.
20. The scope of work include Ordinary and Special repair,
  21. Any damage to the building structure, fitting or any other articles etc. done by the contractor or his workman during the execution of the work shall be made good by the contractor at his own cost.
  22. The contractor shall clear the site properly before the completion of the work.
  23. For each office building, the measurements as recorded in S.M.B./M.B. will be paid. Any portion of the office such as store rooms, inside almirahs/cupboards, etc. in which white/colour wash, could not be done for any reasons, suitable deduction will be made.
  24. The theoretical consumption of materials like, distemper, paint, water proof cement paint etc. shall be computed, as per the consumption co-efficient. In case of variation between the actual and the theoretical calculations action shall be taken as below:-
  25. Old doors, windows, floors, furniture, Electrical and other fitting shall be cleaned from all splashes, dust, dirt and mortars etc. after white washing.
  26. The Contractor shall take immediate action to attend any complaint received on CPWD E-Sewa Website, ERP or assigned to him through Site Order Book/verbal instructions from Engineer-in-charge or on Telephone/ CPWD E-SEWA from occupants. Contractor shall

endeavor to attend the complaints within the stipulated Time Frame as mentioned in CPWD Sewa Portal.

27. In the CPWD E-Sewa Portal, the Complaints attended in the stipulated time frame are shown as Green & Complaints attended with moderate delay are shown in Yellow. The percentage of complaints attended in GREEN benchmark time every calendar month shall not be less than 90% in case of civil complaints as well as electrical complaints. In case of percentage of complaints attended in Green benchmark time for any calendar month falls below 90% but not less than or equal to 80 % then a lump sum amount of Rs. 5,000/- shall be recovered from Contractors bill for every such month of default from respective civil and electrical bills separately. If this percentage falls below 80% but not less than or equal to 70% in case of civil complaints as well as electrical complaints, a lump sum amount of Rs. 10,000 shall be recovered from Contractors bill for every such month of default from respective civil and electrical bills separately.
28. If the percentage of complaints attended in green bench mark time for any calendar month falls below 70 %, for civil complaints as well as electrical complaints, 50% payment shall be made to the contractor for day to day component of that work for that particular month.
29. Main agency shall ensure that the day to day complaints are attended timely and there is satisfaction among the allottees. In case there is default of not complying to the bench mark standard in respect of timely attending the complaints and satisfaction level then the Engineer-in-charge reserves the right to ask the main agency to replace the sub agency duly fulfilling the eligibility criteria.
30. The reports generated by CPWD Sewa every month shall form the basis of above recoveries and shall be binding on the Contractor. No dispute on this matter shall be entertained.

#### **TARGET TIME FRAME FOR ATTENDING CIVIL / ELECTRICALS COMPLAINTS**

<b>S.No.</b>	<b>Complaint Type</b>	<b>Time</b>
1.	Emergency Complaints (blocked drains, no water, no electricity, leakage current etc.) for stations Barmer & Jaisalmer	8 Hours
2.	Minor Complaints (cleaning of drains, water overflow, rewinding of fans & motors etc.) for stations Barmer & Jaisalmer	2 Days
3.	Major Complaints (repairs to doors, windows, plumbing, replacement of MCCBs, repairing of APFC Panel & Fire Panel etc.)	7 Days
4.	Periodical Complaints (White washing, painting, cleaning water tanks, preventive maintenance of electrical installation etc.) if admissible	10 Days
5.	For other station the period for attending the complaints shall be for emergency work 1 day and for minor complaints 3 days	

31. If the individual emergent civil/electrical complaint is not attended within Benchmark time (GREEN) as prescribed in CPWD E-Sewa then recovery of Rs 100/- (Rupees One Hundred Only) per complaint per day of delay shall be made from the contractor's bill.
32. All required Registers shall be maintained by agency itself duly marked in chronological order. Nothing extra shall be paid on this account.
33. Staff employed by the Contractor should be well behaved, polite & courteous. The worker

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will clean the place/site thoroughly before leaving the site while attending the complaints. Any complaint against staff on behavior will be taken seriously and such staff should be removed by the Contractor immediately from the site and arrange replacement for the same failing which the Engineer-in-Charge has to recover as per corresponding conditions in this NIT.

34. Safety of the staff employed will be the responsibility of the Contractor. It shall be the prime duty of the Contractor to provide requisite safety equipments to all the workers and supervisors for their protection. CPWD will not be responsible for any mishap, injury/accident or death of the staff. No claim in this regard shall be entertained/ accepted by the department.
35. Contractor shall be fully responsible for any damages caused to govt. property or allottee's property by his labour in carrying out the work and the damage shall be rectified/made good by the Contractor at his own cost.
36. The Contractor shall have to carry out the work other than Day to Day Maintenance according to programme given by the Executive Engineer/ Assistant Engineer / Junior Engineer-in-Charge. The Contractor shall have to adhere to this programme failing which he shall be wholly responsible for any inconvenience caused to the occupants. No claim for idle labour on any account shall be entertained. The Contractor shall depute his representative daily to the site of work. His name and Signature shall be attested by the Contractor for record in the department.
37. The contractor shall also assist inspection and collection of samples by Engineer-in Charge for testing. The samples of materials/ items of work required for testing by Engineer-in Charge or his representative shall be provided free of charge by the contractor. The cost incurred in collection of samples and its packing and transportation to the approved lab/field laboratory shall be borne by the contractor. The test outside field laboratory shall be got done from the laboratory approved by Engineer-in-Charge. The cost of test shall be borne by the contractor for failed samples.
38. The maintenance work is to be carried out in General pool and Departmental Pool (Income-Tax & Central Excise) Residential Accommodation and non-residential Office Buildings, which includes maintenance under all branches like Civil & Electrical.
  - (i) The details of assets which are to be maintained and services to be provided are indicated in the nomenclature of item and "Scope of work"
39. Necessary registers/complaint- attendance books duly machine numbered and authenticated by Engineer-in-Charge shall be maintained by the contractor in respect of complaints received and shall be got signed by the allottees, after attendance. All complaints must be registered in E-Sewa and compliance shall also be recorded.
40. In case of receipt of feedback from allottee regarding his complaint through CPWD as

- “unsatisfactory” and the same being confirmed upon inspection by CPWD officials, compensation @ **Rs. 100/- (Rs. One hundred only)** per such feedback will be levied.
41. This levy will be made after due verification of such feedback by Engineer-in-Charge and his decision in this regard shall be final.
42. The following facilities shall be made available by the Engineer in charge if required by the agency at the Service Center (s):
- Counter table (free of charge) for the receptionist to sit and receive complaints.
  - One room (free of charge) for the use of the workers and other staff deployed by the agency at **Jaisalmer office & Barmer office for day hours only.**
  - Electric connection for general purpose at the service center already exists.
  - The agency shall restore back the premises and other articles provided by the department to the contractor at the time of closure of the contract in good condition.
43. Operations in which assistance shall be provided by the agency to Engineer-in-Charge.
- The contractor shall engage computer literate staff/ site engineer that should be able to use computerized complaints receiving and monitoring system.
44. **Provision of security guard for the GPOA & Holiday Home Building & its premises has been taken in the schedule for civil work in item no. 14.2 The contractor has to engage the security guard preferably be Ex-service man if available nearby the area. Otherwise shall engage retired CPO personal (BSF, CRPF, SSB, ITBP etc.). If sufficient nos. of retired CPO is not available then the Security Guard engage shall be persons who has done the security guard work for the banks, minimum for 1 year. The Security Guard having age more than 65 years shall not be allowed. The contractor has to arrange Security Guard for 24 hours watch over the building. The security guard responsible for the security of the building. Security guard has maintained the duty chart and it is their duty to guard the building & assets and to informed any mis-happening seen to the Engineer in charge or his re-preventative first.**
45. In case any computer operator/security staff is absent on any day, a substitute shall invariably be provided by the contractor. Otherwise compensation shall be levied from the contractor from the payment due to him or his Security Deposit as per details below:
- Supervisor/Computer Operator/ security staff @ Rs. **781/-** per day per shift.
  - The contractor shall be provided with an inventory list of items in campus to be maintained. The contractor shall be responsible for watch and ward of such items. The loss, if any shall be made good by the contractor at his cost. The decision of Engineer-in-Charge in this respect shall be final and binding on the contractor.
    - The contractor shall provide his mobile number or the mobile number of his representative to the Engineer-in-Charge for ease of communication with the controlling staff.
    - If any dismantled material has been received after attending complaint in lieu of new material provided shall be the property of the contractor and a recovery for the same will be made from the bill of the contractor at his quoted rates.
46. Police verification of every staff deployed by the contractor shall be got done by the contractor if required by the Engineer-in-charge and a copy of police verification shall be provided to Engineer-in-Charge after which an identity card duly countersigned by Engineer-in-Charge or his representative shall be issued to each employee of the contractor for proper identification.
47. The labour deployed for attending complaints should carry necessary tool kit, container

(Tasla), required for mixing any cement sand or other material and should carry with them water bottle and waste bag for collection of minor rubbish material if received during attending the complaints, so that the site of work shall remain neat and clean.

48. The contractor shall have registration with Employee's Provident Fund Commissioner and Employee's State Insurance Corporation for safeguarding interest of his workmen. He shall obtain all other necessary approvals from statutory bodies as per law in force.
49. **For schedule of civil work under item no. 17 the contractor shall arrange & store all the materials at Enquiry office, required for attending day to day maintenance complaints for at least 3 months that is 25% of the agreement quantity or as decided by Engineer-in-Charge in first stage and after its consumptions or utilization, 25% of balance materials shall further be supplied by the contractor and maintain throughout agreement period. A material supplied at site shall be taken in MAS a/c. register and shall be maintained by the contractor for materials brought at site & used in day-to day maintenance work. The MAS a/c. shall be kept at service Centre so that officers of CPWD can review the quantity and quality of material present in store. This MAS a/c. shall be the property of Engineer-in-Charge after the completion of work.**
50. For the purpose of categorization of staff as skilled and unskilled, the sweepers/beldars shall be taken as unskilled, the mason/plumber/sewer man/carpenter shall be taken as skilled.
51. The contractor will maintain attendance records of the staff which can be checked by the Junior Engineer/Assistant Engineer and higher officers as & when required.

### **SPECIAL CONDITIONS FOR SITE**

1. The contractor shall not store/dump construction material or debris on metaled road.
2. The contractor shall get prior approval from Engineer-in-Charge for the area where the construction material or debris can be stored beyond the metaled road. This area shall not cause any obstruction to the free flow of traffic/inconvenience to the pedestrians. It should be ensured by the contractor that no accidents occur on account of such permissible storage.
3. The contractor shall take appropriate protection measures like raising wind breakers of appropriate height on all sides of the plot/area of working using CGI sheets or plastic and/or other similar material to ensure that no construction material dust fly outside the working area.
4. The contractor shall ensure that all the trucks or vehicles of any kind which are used for construction purposes/or are carrying construction material like cement, sand and other allied material are fully covered. The contractor shall take every necessary precaution that the vehicles are properly cleaned and dust free to ensure that enroute their destination, the dust, sand or any other particles are not released in air/contaminate air.
5. The contractor shall provide mask to every worker working on the construction site and involved in loading, unloading and carriage of construction material and construction debris to prevent inhalation of dust particles.
6. The contractor shall provide all medical help, investigation and treatment to the workers involved in the construction of building and carriage of construction material and debris relatable to dust emission.
7. The contractor shall ensure that C&D waste is transported to the C&D waste site only and due record shall be maintained by the contractor.
8. The contractor shall ensure compulsory use of water in grinding and stone cutting.
9. The contractor shall carry out on-Road-Inspection for black smoke generating machinery. The contractor shall use cleaner fuel.
10. The contractor shall use DG sets complying emission norms notified by Ministry of Environment Forest and climate change.
11. The contractor shall use vehicles having pollution under control certificate.
12. The contractor shall ensure that the construction material is covered by tarpaulin at site. The contractor shall take all other precaution to ensure that no dust particles are permitted to pollute air quality as a result of such storage.
13. The work may involve working in odd hours. No extra payment shall be made on account of the same.
14. The additional concrete/ mortar leveling courses as directed by Engineering-in-Charge shall be required below tile/granite/ marble/kota stone flooring which having different thicknesses of materials to match finished level of flooring as per architectural drawing of flooring and, nothing shall be payable on this account.
15. During the execution of work, the finished items like tile work, granite work, marble work, Kota stone, structural glazing work etc shall be protected from damage / scratching/ brakeage / discoloring etc by covering with paper, plastic or by any other means as per direction of Engineering –in- charge till the handing over of building to user department.

16. No labour will be permitted to stay inside campus after working hours and it has to be strictly followed by the agency.
17. Proper barricading to be strictly maintained as it is Central Govt. Colony which is almost fully occupied in order to avoid any mishappening.
18. Contractor has to pay all testing charges of complete material testing as per CPWD Specification 2019 and department will not reimburse the same as per latest OM.  
Nothing extra shall be paid for

## SPECIAL CONDITIONS FOR ROYALTY

राजस्थान सरकार  
खान एवं पेट्रोलियम (ग्रुप-2) विभाग

क्रमांक: प.9(3)खान/ग्रुप-1/2019

जयपुर, दिनांक

22 DEC 2021

—: परिपत्र :-

राजकीय निर्माण कार्य में प्रयुक्त होने वाले खनिजों हेतु एस.टी.पी. प्राप्त करने एवं रॉयल्टी जमा कराने के संबंध में राजस्थान अप्रधान खनिज रियायत नियमावली 2017 के नियम-51 है जो संक्षिप्त में निम्नानुसार है:-

1. निर्माण ठेकेदार द्वारा संबंधित खनि अभियन्ता/सहायक खनि अभियन्ता को कार्यादेश एवं जी शिड्यूल की प्रति सहित एस.टी.पी. हेतु आवेदन किया जायेगा एवं नियम-51 (9) में दिये गये चार विकल्प में से किसी एक विकल्प का चयन कर एस.टी.पी. चाही जायेगी। यह विकल्प निम्नानुसार है:-

- रॉयल्टी इत्यादि की कटौती रनिंग बिलों से करवाई जावेगी तथा कार्य समाप्ति पर निर्माण विभाग से खनिज उपयोग मात्रा का प्रमाण पत्र सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता की प्रस्तुत कर अधिशुल्क निर्धारण करवाया जावेगा एवं नोड्यूल प्राप्त करेगा।
- रॉयल्टी इत्यादि की राशि सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को अग्रिम जमा कराई जायेगी एवं कार्य समाप्ति पर निर्माण विभाग से खनिज उपयोग मात्रा का प्रमाण पत्र सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को प्रस्तुत कर अधिशुल्क निर्धारण करवाया जावेगा एवं नोड्यूल प्राप्त करेगा। नेशनल/मेगा साईदे, चार/छः लेन सड़के व रेल्वे के निर्माण एवं मरम्मत कार्य हेतु यह विकल्प ही लागू है।
- रॉयल्टी पेड खनिज कय कर काम में लिया जायेगा एवं कार्य समाप्ति पर निर्माण विभाग से खनिज उपयोग मात्रा का प्रमाण पत्र सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को प्रस्तुत कर अधिशुल्क निर्धारण करवाया जायेगा एवं नोड्यूल प्राप्त करेगा।
- रॉयल्टी पेड खनिज प्राप्त किया जायेगा जिसका एसेसमेन्ट नहीं करवाना चाहता है एवं रनिंग बिलों से निर्धारित प्रतिशत राशि की कटौती करवायेगा।

2. निर्माण विभागों का दायित्व है कि रनिंग बिलों के समय खनिज का उपयोग रॉयल्टी भुगतान कर काम में लिया जाने बाबत सुनिश्चित करें अन्यथा खनिज का उपयोग ना होने दें। खान विभाग के परिपत्र क्रमांक प.13(6)खान/ग्रुप-2/80 पार्ट दिनांक 15-11-2011 के अनुसार निर्माण विभाग द्वारा प्रक्रिया का पालन नहीं करने या अवैध रूप से खनिज का उपयोग होने पर खनिज की 10 गुणा रॉयल्टी जमा कराने की जिम्मेदारी सम्बन्धित निर्माण विभाग की होगी, जो एल. आर. एक्ट के तहत वसूल की जा सकेगी।



उपरोक्त विभागीय प्रावधानों के अनुसार केवल राजस्थान अप्रधान खनिज रियायत नियमावली, 2017 के नियम 51(9)(iv) में जारी होने वाले एस.टी.पी. में ही निर्माण विभाग को अंतिम बिल पारित करने के लिये सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता के नो-ड्यूज की आवश्यकता नहीं है, बाकी सभी विकल्पों में नो-ड्यूज प्राप्त किये बगैर अंतिम बिल पारित नहीं किया जा सकता।

विगत वर्षों में महालेखाकार अंकेक्षण दल द्वारा एस.टी.पी. के प्रकरणों में काफी आक्षेप गठित किये गये हैं तथा विभाग को भी एस.टी.पी. के प्रकरणों को निपटाने में कई परेशानियों का सामना करना पड़ता है, जिनमें से मुख्यतः यह है कि:-

1- सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को निर्माण विभाग द्वारा जारी कार्यदेश की प्रति प्राप्त नहीं होती है, जिसके कारण ठेकेदार को एस.टी.पी. हेतु लिखा नहीं जा सकता, जबकि महालेखाकार द्वारा निर्माण विभाग के कार्यदेशों के आधार पर बिना एस.टी.पी. खनिज उपयोग के दोष पर 10 गुणा रॉयल्टी हानि का आक्षेप खान विभाग में गठित किये जाते हैं।

2- निर्माण ठेकेदार द्वारा कई बार राजस्थान अप्रधान खनिज रियायत नियमावली, 2017 के नियम 51(9)(ii) के तहत एस.टी.पी. आंशिक खनिज मात्रा का प्राप्त किया जाता है, जबकि शेष कार्य बिना एस.टी.पी. प्राप्त किये, करने पर महालेखाकार द्वारा बिना एस.टी.पी. खनिज उपयोग के दोष पर 10 गुणा रॉयल्टी हानि का आक्षेप खान विभाग में गठित किये जाते हैं।

3- निर्माण विभाग द्वारा कार्य समाप्ति पर सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को खनिज उपयोग मात्रा का प्रमाण पत्र नहीं भेजा जाता है, जिसके कारण खान विभाग द्वारा अधिशुल्क निर्धारण नहीं किया जा पाता है एवं महालेखाकार द्वारा एस.टी.पी. के अधिशुल्क निर्धारण नहीं करने के कारण राजस्व हानि के आक्षेप गठित किये जाते हैं।

4- कई ठेकेदारों द्वारा कार्य का अंतिम बिल बहुत ही कम राशि का बाकी छोड़ देते हुए अधिकतम भुगतान रनिंग बिलों के माध्यम से प्राप्त कर लिये जाते हैं एवं अंतिम बिल भुगतान न होने को आधार बनाकर निर्माण विभाग द्वारा खनिज उपयोग मात्रा का प्रमाण पत्र नहीं भेजा जाता है, जिसके कारण अधिशुल्क निर्धारण नहीं किया जा पाता है एवं महालेखाकार द्वारा एस.टी.पी. के अधिशुल्क निर्धारण नहीं करने के कारण राजस्व हानि के आक्षेप गठित किये जाते हैं।

5- निर्माण विभाग द्वारा सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता के नो-ड्यूज प्रमाण पत्र प्राप्त किये बिना ठेकेदार को अंतिम बिल का भुगतान कर दिया जाता है।

6- अधिकांश निर्माण विभागों द्वारा निर्माण कार्य में उपयोगित साधारण मिट्टी का विवरण प्रेषित नहीं किया जाता है, जिसके अभाव में महालेखाकार द्वारा जी-शिड्यूल के आधार पर रॉयल्टी हानि का आक्षेप खान विभाग में गठित किये जाते हैं।

अतः महालेखाकार अंकेक्षण दल द्वारा बनाये गये पैराओं को ध्यान में रखते हुये तथा उनकी पुनरावृत्ति तथा राजस्व अपव्यवस्था को रोकने हेतु निम्नानुसार प्रक्रिया अपनाये जाने हेतु निर्देशित किया जाता है:-

1-समस्त निर्माण विभाग की वेबसाइट को खान विभाग की वेबसाइट से लिंक किया जाये, ताकि निर्माण विभाग द्वारा कोई भी कार्यादेश जारी करते ही खान विभाग को उसकी सूचना मिल सके।

2- निर्माण विभाग द्वारा प्रथम रनिंग बिल का भुगतान किसी भी परिस्थिति में खान विभाग द्वारा जारी एस.टी.पी. की प्रति संवेदक से प्राप्त किये बिना नहीं किया जावे।

3-निर्माण विभाग द्वारा रनिंग बिलों को प्रेषित करते समय रनिंग बिल में अंकित उपयोग में लिये गये विभिन्न खनिजों की तथा मा. टी एस.टी.पी. खान विभाग से जारी होना सुनिश्चित किया जायें।

4- निर्माण विभागों द्वारा निर्माण कार्य में उपयोगित साधारण मिट्टी का विवरण आवश्यक रूप से खान विभाग को प्रेषित किया जावे।

5- ऐसे निर्माण कार्य जिसमें विभाग द्वारा राजस्थान अप्रधान खनिज रियायत नियम, 2017 के नियम 51(9)(i)(ii) व (iii) के अन्तर्गत एस.टी.पी. जारी की जाती है, उन प्रकरणों में अंतिम रनिंग बिल कम से कम 20 प्रतिशत राशि का निर्धारित किया जायें। अंतिम बिल का भुगतान एवं सिक्यूरिटी की राशि का डिफण्ड वे पूर्ण सम्बन्धित निर्माण विभाग की वेबसाइट पर खान विभाग के नो-ड्यूज प्रमाण पत्र का लिंक उपलब्ध कराया जाये, ताकि सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता विभाग पर नो-ड्यूज प्रमाण पत्र अपलोड कर सके। नो-ड्यूज प्रमाण पत्र अपलोड होने के तत्पश्चात ही अंतिम रनिंग बिल का भुगतान किया जाये।

6- कार्य समाप्ति के 15 दिवस या अधिकतम एक माह में निर्माण विभाग द्वारा खनिज उपयोग मात्रा का प्रमाण पत्र सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता को प्रेषित किया जायें। तत्पश्चात एक माह की अवधि में सम्बन्धित खनि अभियन्ता/सहायक खनि अभियन्ता द्वारा नो-ड्यूज प्रमाण पत्र जारी किया जायगा।

7- पुराने कार्य जो समाप्त हो चुके हैं, जिनके सम्बन्धित प्रमाण पत्र नहीं भिजवाये गये हैं, उनमें अभियान चलाकर एक माह या अधिकतम अवधि में उपयोगिता प्रमाण पत्र में भिजवाये जायें।

(नीलू बरुपाल)  
शासन उप सचिव



परिपत्र

विषय: राजकीय विभागों, स्वायत्तशासी संस्थाओं, राजकीय उपक्रमों में कार्यरत निर्माण ठेकेदारों से निर्माण कार्य में काम आने वाले खनिजों मेसेनरी स्टोन, मिट्टी, बोल्टर, बजरी, कंकर, मोरम, साधारण मिट्टी (ईट मिट्टी को छोड़कर) की रायल्टी वसूली के संबंध में।

उपरोक्त विषयान्तर्गत पूर्व में जारी किये गये परिपत्र दिनांक 06.10.2008/08.10.2008 को मा. उच्च न्यायालय, जोधपुर द्वारा एस.बी.सिविल रिट सं. 1309/09 में पारित आदेश दिनांक 17.01.2011 से पिटीशनकर्ता द्वारा रायल्टी पेड खनिज प्राप्त कर काम में लिये जाने के बावजूद उक्त परिपत्र अल्पावधि अनुमति पत्र लेने हेतु बाध्य करता है, इस कारण निरस्त किया है तथा परिपत्र को संशोधित कर जारी करने की छूट प्रदान की गई। उक्त निर्णय के प्रकाश में परिपत्र दिनांक 06.10.2008/08.10.2008 के अतिक्रमण में राजकीय विभागों, स्वायत्तशासी संस्थाओं, राजकीय उपक्रमों में कार्यरत निर्माण ठेकेदारों से निर्माण कार्य में काम आने वाले खनिजों पर देय रायल्टी के भुगतान बाबत निम्न प्रक्रिया तय की जाती है। यह प्रक्रिया तुरंत प्रभाव से लागू होगी।

1. संबंधित निर्माण विभाग को कार्यादेश की प्रति मय जी-शिड्युल, जिसमें निर्माण में काम आने वाले खनिजों की मात्रा का विवरण हो (घनमीटर अथवा टनों में), संबंधित खनि अभियंता/ सहायक खनि अभियंता कार्यालय में प्रस्तुत करनी होगी।
2. ठेकेदार को निर्माण कार्य शुरू करने से पूर्व निम्न में से कोई एक विकल्प संबंधित खनि अभियंता/ सहायक खनि अभियंता कार्यालय में शपथ पत्र के साथ प्रस्तुत करना होगा।

विकल्प-ए - यदि ठेकेदार अपने स्तर पर खनिजों का खनन करने हेतु अल्पावधि अनुमति पत्र प्राप्त करना चाहता है जिसका कार्य समाप्ति पर अधिशुल्क निर्धारण कराना चाहता है एवं रायल्टी की राशि रनिंग बिलों से कटवाना चाहता है।

विकल्प-बी - यदि ठेकेदार अल्पावधि अनुमति पत्र प्राप्त करना चाहता है, परन्तु रायल्टी की राशि रनिंग बिलों से कटाने के बजाय खान विभाग में अल्पावधि अनुमति पत्र प्राप्त करते समय अग्रिम रूप से जमा कराना चाहता है।

विकल्प-सी - यदि ठेकेदार सम्पूर्ण खनिज रायल्टी पेड खरीदना चाहता है तथा रनिंग बिल की स्टेज पर निर्धारण के लिए रायल्टी भुगतान का समुचित रिकार्ड प्रस्तुत करेगा।

विकल्प-डी - यदि ठेकेदार विकल्प बी व सी को सम्मिलित रूप से काम में लेना चाहता है।

3. ठेकेदार द्वारा उपरोक्त बिन्दु संख्या 2 के अनुसार विकल्प प्रस्तुत कर दिये जाने पर संबंधित खनि अभियंता/ सहायक खनि अभियंता द्वारा इसकी सूचना निर्माण विभाग को दी जायेगी एवं निर्माण विभाग विकल्पों के अनुसार, नीचे दी गई व्यवस्था के अनुरूप, रायल्टी वसूली बाबत कार्यवाही करेगा।

विकल्प-ए के ठेकेदारों के प्रथम बिल पारित करने के पूर्व निर्माण-विभाग खनि अभियंता / सहायक खनि अभियंता द्वारा जारी अल्पावधि अनुमति पत्र की प्रति प्राप्त करेगा, अन्यथा बिल का भुगतान नहीं किया जायेगा। ऐसे ठेकेदारों के रनिंग बिलों से रायल्टी की कटौती निम्नानुसार निर्धारित दर से की जाकर चेक अथवा महालेखाकार के यहाँ सगायोजन के माध्यम से मय कटौती विवरण के जमा करानी होगी :-

1. सड़क निर्माण (वाइडनिंग सहित)	3%
2. भवन निर्माण	2%
3. सड़क नवीनीकरण	1.5%
4. अन्य कार्य जिनमें खनिज का उपयोग होता हो	1%

उक्त विकल्प के ठेकेदार यदि अतिरिक्त राशि जमा हो जाने के कारण रिफण्ड चाहते हो तो उन्हें निर्माण कार्य समाप्ति के 30 दिवस की अवधि में अपना रिकॉर्ड यथा काम में लिये गये खनिज का ब्यौरा (निर्माण विभाग से प्रमाणितशुदा) खनिज प्राप्त किये जाने का स्त्रोत, उसके बिल/रक्कना/अधिकृत ठेकेदार की रायल्टी पर्ची जिनमें निर्माण विभाग के ठेकेदार का नाम अंकित हो, अधिशुल्क निर्धारण हेतु खनि अभियंता / सहायक खनि अभियंता कार्यालय में प्रस्तुत करने होंगे। उक्त 30 दिवस की अवधि में रिकॉर्ड प्रस्तुत नहीं करने पर निर्माण विभाग द्वारा रनिंग बिलों से काटी गई राशि को अंतिम माना जायेगा।

5. विकल्प-बी के ठेकेदारों को अल्पावधि अनुमति पत्र प्राप्त करते समय खनिज की रायल्टी संबंधित खनि अभियंता / सहायक खनि अभियंता कार्यालय में जमा करानी होगी। निर्माण विभाग द्वारा ऐसे ठेकेदारों के रनिंग बिल कटौती किये कौन पारित किये जा सकेंगे, परन्तु अंतिम रनिंग बिल खनि अभियंता / सहायक खनि अभियंता से अनापत्ति प्राप्त किये बिना पारित नहीं किया जायेगा।

6. विकल्प-सी के ठेकेदारों द्वारा संबंधित रनिंग बिल तक काम में लिये गये खनिज का ब्यौरा (निर्माण विभाग से प्रमाणितशुदा), खनिज प्राप्त किये जाने का स्त्रोत उसके बिल/रक्कना/अधिकृत ठेकेदार की रायल्टी पर्ची जिनमें निर्माण विभाग के ठेकेदार का नाम अंकित हो, अधिशुल्क निर्धारण हेतु खनि अभियंता / सहायक खनि अभियंता कार्यालय में प्रस्तुत करने होंगे। खनि अभियंता / सहायक खनि अभियंता द्वारा अधिशुल्क निर्धारण आदेश जारी कर दिये जाने पर निर्माण विभाग द्वारा संबंधित रनिंग बिल पारित किया जा सकेगा, परन्तु अंतिम रनिंग बिल खनि अभियंता / सहायक खनि अभियंता द्वारा अनापत्ति प्राप्त किये बिना पारित नहीं किया जायेगा।

7. विकल्प-डी के ठेकेदारों को अल्पावधि अनुमति पत्र प्राप्त करते समय खनिज की रायल्टी संबंधित खनि अभियंता / सहायक खनि अभियंता कार्यालय में जमा करानी होगी। रायल्टी पेड प्राप्त किये गये खनिज का ब्यौरा (निर्माण विभाग से प्रमाणितशुदा), खनिज प्राप्त किये जाने का स्त्रोत उसके बिल/रक्कना/अधिकृत ठेकेदार की रायल्टी पर्ची जिनमें निर्माण विभाग के ठेकेदार का नाम अंकित हो, अधिशुल्क निर्धारण हेतु खनि अभियंता / सहायक खनि अभियंता कार्यालय में प्रस्तुत करने होंगे। खनि अभियंता / सहायक खनि अभियंता द्वारा अधिशुल्क निर्धारण आदेश जारी कर दिये जाने पर निर्माण विभाग द्वारा संबंधित रनिंग बिल पारित किया जा सकेगा, परन्तु अंतिम रनिंग बिल खनि अभियंता / सहायक खनि अभियंता द्वारा अनापत्ति प्राप्त किये बिना पारित नहीं किया जायेगा।

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जा सकेगा, परन्तु अंतिम रनिंग बिल खनि अभियंता / सहायक खनि अभियंता अनापत्ति प्राप्त किये बिना पारित नहीं किया जायेगा ।

8. BOT/BOOT के तहत होने वाले निर्माण कार्यों अथवा जिन निर्माण कार्यों के बिलों का गुगतान किसी भी विभाग द्वारा नहीं किया जाता है, उसमें विकल्प-ए, सी एवं डी लागू नहीं होगा, इनकी बजाय विकल्प-बी लागू होगा ।
9. कार्य समाप्त होने पर निर्माण विभाग द्वारा ठेकेदार द्वारा उपयोग की गई खनिज की वास्तविक मात्रा का विवरण तथा काटी गई रायल्टी राशि का ब्यौरा संबंधित खनि अभियंता / सहायक खनि अभियंता को देना होगा ।
10. यदि निर्माण विभाग द्वारा उक्तानुसार प्रक्रिया का पालन नहीं किया गया अथवा ठेकेदार द्वारा अवैध रूप से खनिज का उपयोग किया गया है तो खनिज की दस गुणा रायल्टी वसूली योग्य होगी, जिसको जमा कराने की जिम्मेदारी संबंधित निर्माण विभाग की होगी । संबंधित खनि अभियंता / सहायक खनि अभियंता एमएमसीआर, 1986 के नियम 66 तथा भू-राजस्व अधिनियम के प्रावधानों के अनुसार उक्त राशि वसूल कर सकेगा ।
11. ठेकेदार द्वारा प्रतिबंधित क्षेत्रों जैसे चारागाह भूमि, केचमेंट एरिया, वन / अभ्यारण्य / राष्ट्रीय उद्यान क्षेत्र तथा उनके सेफ्टी जोन क्षेत्र, विभिन्न न्यायालयों द्वारा प्रतिबंधित क्षेत्रों में खनन कार्य नहीं किया जायेगा एवं स्वीकृत खनन पट्टा / लाइसेंस क्षेत्र में या किसी खातेदारी भूमि में बगैर पट्टाधारी / लाइसेंसधारी या संबंधित खातेदार की लिखित सहमति के बिना खनन कार्य नहीं किया जायेगा । इस बाबत अल्पावधि अनुज्ञापत्र का आवेदन पत्र पेश करते समय ही शपथ पत्र देना होगा ।

यह परिपत्र वित्त (राजस्व डिवीजन) विभाग की आई डी संख्या 101-103210 दिनांक 13.10.2011 की सहमति से जारी किया जाता है तथा इस विषय में राज्य सरकार द्वारा माननीय सर्वोच्च न्यायालय में दायर की गई एसएलपी पर होने वाले निर्णय के अधधीन रहेगा ।

शासन उप सचिव

प्रतिलिपि निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है :-

1. निजी सचिव, खान राज्यमंत्री, राजस्थान, जयपुर
2. निजी सचिव, प्रमुख शासन सचिव, खान एवं पेट्रोलियम विभाग, राजस्थान, जयपुर
3. शासन उप सचिव-1/11, खान विभाग, शासन सचिवालय, जयपुर
4. विशेषाधिकारी (तकनीकी)/उप विधि परामर्शी/शासन सहायक सचिव, शासन सचिवालय, जयपुर
5. निदेशक, खान एवं भू-विज्ञान विभाग, राजस्थान, उदयपुर
6. रागरत अतिरिक्त निदेशक (खान)/(भू-विज्ञान), अधीक्षण खनि अभियंता, खनि अभियंता, सहायक खनि अभियंता, द्वारा निदेशक, खान एवं भू-विज्ञान विभाग, राजस्थान, उदयपुर
7. संबंधित पत्रावली ।

शासन सहायक सचिव

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**Form 'A'**

**Undertaking on structural stability and soundness of already completed buildings and infrastructure Projects.**

I/we undertake and confirm that any building / infrastructure constructed by our firm /partnership firm/ company has not suffered any failure, making it unfit for intended use, either due to structural design and defects or due to use of sub-standard materials or execution of sub-standard work, poor workmanship or any other reason during the last 25 (twenty five) years. I/we, further, undertake that if such information comes to the notice of CPWD, then Engineer-in-Charge shall be free to terminate the bid/agreement and to forfeit the entire amount of earnest money deposit, performance guarantee and security deposits. I/we, also undertake that in addition to above, the Engineer-in-Charge shall be free to debar us forever from tendering in CPWD. The decision of Engineer-in-Charge or any higher authority shall be final and binding.

Signature of notary with seal

Signature of bidder or an  
authorized person of the firm with stamp

**Note: Affidavit to be furnished on a 'Non-judicial' stamp paper of Rs. 200/- (scanned copy of the notarized affidavit to be uploaded at the time of submission of bid).**

**PROFORMA FOR „RECEIPT OF DEPOSITION OF ORIGINAL EMD“**

(Receipt No...../date..... )

<b>Name of Work</b>	Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil & Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2024-25 & 2025-26).
<b>NIT NO</b>	06/EE/Jaisalmer/2026-27
<b>Estimated Cost</b>	Rs. 41,81,904/- (Civil) Rs. 36,56,862/- (Elect.) Rs. 78,38,766/ (Composite)
<b>Amount of Earnest Money Deposit</b>	Rs. 1,95,969/-
<b>Last Date of Submission of Bid</b>	----- <b>06/07/2026</b> ----- upto 03:00 PM
<b>Below Details to be filled by EMD Receiving EE/AAO</b>	
<b>Name of Contractor</b>	
<b>Form of EMD</b>	
<b>Amount of Earnest Money Deposit</b>	
<b>(i). EMD in the form of Treasury Challan or demand draft or pay order or Banker's cheque or Deposit at call Receipt or Fixed deposit Receipt.</b>	
<b>(ii). EMD In the form of Bank Guarantee</b>	
<b>Date of submission of EMD</b>	

Signature, Name & Designation  
of EMD receiving officer (EE/AAO)  
along with office stamp

**FORM OF PERFORMANCE SECURITY (BANK GUARANTEE BOND)**

In consideration of the President of India (hereinafter called "The Government") having offered to accept the terms and conditions of the proposed agreement between.....and ..... (hereinafter called "the said Contractor(s)") for the work..... (hereinafter called "the said agreement") having agreed to production of an 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.

1. We,.....(hereinafter referred to as "the Bank") hereby undertake to pay to the Government an amount not exceeding Rs. .... (Rupees... .. Only) on demand by the Government.
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 Government stating that the amount claimed as 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 the Government any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our 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 thereunder 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 herein 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 Government under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineering-Charge on behalf of the Government certified that the terms and conditions 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 Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligation 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 Government against the said contractor(s) and to forbear 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 forbearance, act of omission on the part of the Government or any indulgence by the Government to the said 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 change in the constitution of the Bank or the Contractor(s).
7. We, ..... (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the Government in writing.
8. This guarantee shall be valid up to ..... unless extended on demand by the Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees ..... ) 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 this guarantee all our liabilities under this guarantee shall stand discharged.

Dated the .....day of .....for..... (indicate the name of the Bank)

### **AFFIDAVIT**

*I / We have submitted a bank guarantee for the work*

\_\_\_\_\_  
(Name of work)

Agreement No. \_\_\_\_\_

Dated \_\_\_\_\_ from \_\_\_\_\_

\_\_\_\_\_  
(Name of the Bank with full address)

to the Executive Engineer \_\_\_\_\_ with a view  
(Name of the Division)

*to seek exemption from payment of performance guarantee in cash. This Bank guarantee expires on \_\_\_\_\_. I / We undertake to keep the validity of the bank guarantee intact by getting it extended from time to time at my / our own initiative upto a period of \_\_\_\_\_ months after the recorded date of completion of the work or as directed by the Engineer in charge.*

I / We also indemnify the Government against any losses arising out of non-encashment of the bank guarantee if any.

**(Deponent)**  
**Signature of Contractor**

***Note: The affidavit is to be given by the Executants before a first class Magistrate.***

## **GUARANTEE BONDS/AFFIDAVIT FOR WORK**

**Annexure –III**

GUARANTEE TO BE EXECUTED BY THE CONTRACTOR FOR REMOVAL OF DEFECTS  
AFTER COMPLETION IN RESPECT OF WATER SUPPLY AND SANITARY  
INSTALLATIONS, UPVC WINDOWS, ROCK WOOL INSULATION AND POLYURETHENE  
FOAM, METAL FALSE CEILING SYSTEM

The agreement made this \_\_\_\_\_ day of \_\_\_\_\_ two thousand and \_\_\_\_\_ between \_\_\_\_\_ S/o \_\_\_\_\_ (hereinafter called the GUARANTOR of the one part) and the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract. (Herein after called the Contract) dated \_\_\_\_\_ and made between the GUARANTOR OF THE ONE PART AND the Government of the other part, whereby the contractor inter alia, under look to render the work in the said contract recited structurally stable workmanship and use of sound materials.

AND WHEREAS THE GUARANTOR agreed to give a guarantee to the effect that the said work will remain structurally stable and guarantee against faulty workmanship, finishing, manufacturing defects of materials and leakages etc.

NOW THE GUARANTOR hereby guarantee that work executed by him will remain structurally stable, after the expiry of maintenance period prescribed in the contract for the minimum life of ten years, to be reckoned from the date after the expiry of maintenance period prescribed in the contract.

The decision of the Engineer in charge with regard to nature and cause of defects shall be final.

During the period of guarantee the guarantor shall make good all defects to the satisfaction of the Engineer in charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other contractor at the guarantor's cost and risk. The decision of the Engineer in charge as to the cost payable by the Guarantor shall be final and binding.

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

IN WITNES WHEREOF those presents have been executed by the obligator \_\_\_\_\_ and \_\_\_\_\_ by for and on behalf of the PRESIDENT OF INDIA on the day , month and year first above written.

Signed sealed and delivered by OBLIGATOR in presence of :.

1. \_\_\_\_\_
2. \_\_\_\_\_

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY \_\_\_\_\_  
\_\_\_\_\_ in the presence of :

1. \_\_\_\_\_
2. \_\_\_\_\_

**Annexure –IV**

**GUARANTEE BOND TO BE EXECUTED BY THE CONTRACTOR FOR WATER PROOFING  
TREATMENT FOR BASEMENT / TERRACE / TOILETS.**

The agreement made this \_\_\_\_\_ day of \_\_\_\_\_ two thousand and \_\_\_\_\_  
between \_\_\_\_\_ S/o \_\_\_\_\_ (hereinafter called the GUARANTOR of the one part) and  
the PRESIDENT OF INDIA (hereinafter called the Government of the other part).

WHEREAS THIS agreement is supplementary to a contract. (Herein after called the Contract) dated  
\_\_\_\_\_ and made between the GUARANTOR OF THE ONE PART AND the Government of the other  
part, whereby the contractor inter alia, undertook to render the structures in the said contract the work in the  
said contract recited completely water and leak proof.

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

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects.

The decision of the Engineer in charge with regard to cause of leakage shall be final.

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

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

IN WITNES WHEREOF those presents have been executed by the obligator \_\_\_\_\_ and  
\_\_\_\_\_ by for and on behalf of the PRESIDENT OF INDIA on the day,  
month and year first above written.

Signed sealed and delivered by OBLIGATOR in presence of:

1. \_\_\_\_\_
2. \_\_\_\_\_

SIGNED FOR AND ON BEHALF OF THE PRESIDENT OF INDIA BY \_\_\_\_\_ in the  
presence of:

1. \_\_\_\_\_
2. \_\_\_\_\_

SCHEDULE OF WORK							
<b>Comprehensive maintenance through out-sourcing including day to day maintenance A/R &amp; M/O &amp; Special Repair to Civil work and MOEI &amp; fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer &amp; Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise &amp; Customs Department at Jaisalmer, Pokhran &amp; Mayazlar Chohtan, Gadra road &amp; Income Tax Department at Barmer, Balotra During 2026-27 &amp; upto 31<sup>st</sup> July 2027.</b>							
S.No	Description	Qty		Total qty.	Unit	Rate	Amount
		Jaisalmer	Barmer				
1	<b>EARTH WORK</b>						
1.1	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.						
1.1.1	All kinds of soil	12.00	0.00	12.00	sqm	34.15	409.80
2	<b>CEMENT CONCRETE (CAST IN SITU)</b>						
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :						
2.1.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	4.00	0.97	4.97	cum	7878.50	39156.15
2.1.2	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	4.00	0.97	4.97	cum	6518.60	32397.44
3	<b>CLADDING WORK</b>						
3.1	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	42.00	29.00	71.00	sqm	1267.95	90024.45
4	<b>WOOD AND P. V. C. WORK</b>						

4.1	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:						
4.1.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	8.40	0.00	8.40	sqm	2392.65	20098.26
4.1.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	0.00	3.00	3.00	sqm	2172.10	6516.30
4.1.3	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. piano hinges with necessary screws	0.00	3.00	3.00	sqm	2093.70	6281.10
4.2	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	8.40	7.00	15.40	sqm	462.35	7120.19
4.3	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	0.00	4.00	4.00	each	983.15	3932.60
4.3.1	Providing and fixing bright finished brass hasp and staple (safety type) with necessary screws etc. complete :						
4.3.1.1	90 mm	0.00	8.00	8.00	each	111.05	888.40
4.4	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 :						
4.4.1	250x16 mm	12.00	19.00	31.00	each	260.60	8078.60
4.5	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868 ) transparent or dyed to required colour or shade, with necessary screws etc. complete :						
4.5.1	250x10mm	0.00	32.00	32.00	each	115.15	3684.80

4.5.2	150x10 mm	6.00	27.00	33.00	each	82.55	2724.15
4.6	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :						
4.6.1	125 mm	3.00	24.00	27.00	each	66.25	1788.75
4.7	Providing and fixing factory made door frame (single rebate) made out of single piece extruded solid PVC foam profile with homogenous fine cellular structure having smooth outer integral skin having 62 mm width & 32 mm thickness, frame will be mitred & Jointed with self driven self tapping screws of size 38 mm x 4 mm & PVC solvent cement, including fixing the frame to wall with suitable dia & length anchor fastener as per manufacturer's specification and direction of Engineer-in-charge.	0.00	10.00	10.00	mtr	696.00	6960.00
4.8	Providing and fixing factory made 30 mm thick door shutter made of solid PVC foam profile. The styles & rails shall be of size 75 mm x 30 mm having wall thickness 5 mm. The styles, top & bottom rails shall have one side wall thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power. The styles and rails shall be reinforced with M.S. tubes of size 33 mm x 17 mm x 1 mm, painted with primer , all four corners of reinforcement to be welded or sealed. Solid PVC extruded bidding (push fit type) will be set inside the styles and the rails with a cavity, to receive single piece extruded 5 mm PVC sheet as panel. The styles and rails will be mitred cut and joint with the help of PVC solvent cement & self driven self tapping screws. Single piece extruded solid PVC lock rail of size 100 mm x 30 mm with wall thickness 5 mm & 15 mm integrally extruded in the middle of the lock rail & fixed with styles with the help of PVC solvent cement & self driven self tapping screws of size 100 mm x 8 mm complete as per manufacturer's specifications						0.00

	and direction of Engineer-in-charge.						
4.8.1	Non decorative finish	0.00	2.00	2.00	sqm	3754.20	7508.40
4.9	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.						
4.9.1	125 mm	3.00	10	13.00	each	119.20	1549.60
5	<b>STEEL WORK</b>			0.00			
5.1	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.			0.00			
5.1.1	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	0.00	15.00	15.00	kg	172.60	2589.00
5.2	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, bufing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	100.00	0.00	100.00	kg	772.40	77240.00
6	<b>FLOORING</b>						
6.1	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	32.00	6.00	38.00	sqm	1096.55	41668.90
7	<b>ROOFING</b>						

7.1	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.						
7.1.1	110 mm diameter	40.00	16.00	56.00	metre	377.40	21134.40
7.2	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 10 mm gap for thermal expansion.						
7.2.1	Bend 87.5°						
7.2.1.1	110 mm bend	8.00	2.00	10.00	each	150.35	1503.50
7.2.2	Shoe (Plain)						
7.2.2.1	110 mm Shoe	8.00	2.00	10.00	each	131.85	1318.50
7.3	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete.						
7.3.1	110 mm	16.00	4.00	20.00	each	371.30	7426.00
8	<b>FINISHING</b>						
8.1	Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) :						
8.1.1	Flush/ Ruled pointing	0.00	151.00	151.00	sqm	385.40	58195.40
8.2	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour:						
8.2.1	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	260.00	0.00	260.00	sqm	185.65	48269.00
8.3	Finishing walls with Acrylic Smooth exterior paint of required shade						



8.3.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	0.00	60.00	60.00	sqm	160.60	9636.00
8.4	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :						
8.4.1	Two or more coats on new work	12.00	0.00	12.00	sqm	155.90	1870.80
8.5	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :						
8.5.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	0.00	16.00	16.00	sqm	226.25	3620.00
8.6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	120.00	333.00	453.00	sqm	156.05	70690.65
8.7	Distempering with 1st quality acrylic distemper (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade :						
8.7.1	Old work (one or more coats)	4260.00	7018.00	11278.00	sqm	62.70	707130.60
8.8	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.						
8.8.1	Two coats	200.00	1282.00	1482.00	sqm	137.45	203700.90
8.9	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.	410.00	5505.00	5915.00	sqm	25.15	148762.25
8.9.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade :						
8.9.1.1	One or more coats on old work	815.00	547.00	1362.00	sqm	102.80	140013.60
8.10	Finishing walls with Acrylic Smooth exterior paint of required shade :						

8.10.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	600.00	358.00	958.00	sqm	120.75	115678.50
9	<b>REPAIRS TO BUILDING</b>						
9.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.						
9.1.1	With cement mortar 1:4 (1 cement : 4 coarse sand)	65.00	35.00	100.00	sqm	560.50	56050.00
9.2	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty:						
9.2.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	20.00	11.00	31.00	sqm	1090.65	33810.15
9.3	Renewing glass panes, with wooden fillets wherever necessary:						
9.3.1	Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	12.00	0.00	12.00	sqm	1580.90	18970.80
9.4	Renewal of old putty of glass panes (length)	45.00	26.00	71.00	metre	56.15	3986.65
9.5	Cleaning of terrace/loft water storage tank (inside surface area) upto 2000 litre capacity at all heights with coconut brushes, duster etc., removal of silt, rubbish from the tank and cleaning the tank with fresh water disinfecting with bleaching powder @ 0.5gm per litre capacity of tank including marking the date of cleaning on the side of tank body with the help of stencil and paint and disposing of malba all complete as per direction of Engineer-in-Charge. (The old date already written on tank should be removed with paint remover or black paint and if date is not written with the stencil or old date is not removed deduction will be made @ Rs. 0.10 per litre) (if during cleaning any GI fittings or ball cock is damaged that is to be repaired by contractor at his own cost and nothing extra will be paid on this account)	67000.00	42000.00	109000.00	litre	0.50	54500.00

9.6	Cleaning and desalting of gully trap chamber, including removal of rubbish mixed with earth etc. and disposal of same, all as per the direction of Engineer-in-charge.	34.00	53.00	87.00	each	108.30	9422.10
9.7	Cleaning of choked sewer line by diesel running vehicle mounting hydraulic operated high pressure suction cum jetting sewer cleaning machine fitted with pump having 4000 litres suction capacity and 6000 litres water jetting tank capacity including skilled operator, supervising engineer etc. for cleaning and partial desilting of manholes and dechocking of sewer lines. Dechocking and flushing of sewer line from one manhole to another by high pressure jetting system of 2200 PSI for sewer line from 150mm dia upto 300mm.	112.00	10.00	122.00	metre	340.75	41571.50
9.8	Cleaning of under ground sump, Over Head R.C.C. Tank ( independent staging) including disposal of slit and rubbish, all as per direction of Engineer-in-Charge. The cleaning shall consist following operations:- (i) Tank shall be emptied of water by pumping & bottom shall be cleaned of silt and other deposits. (ii) Entire surface area of the sump shall then scrubbed thoroughly with wire brush etc. and pressure washed with water. (iii) Chlorination of RCC internal surface by liquid chlorine. (iv) The treated surface shall be dried using air jetting and all loose particles shall be removal from the surface. (v) Finally the surface shall be treated with ultraviolet radiation etc. as per direction of Engineer-in-Charge.	320.00	10.00	330.00	sqm	84.85	28000.50
9.9	Disconnecting damaged overhead/terrace PVC water storage tank of any size from water supply line and removing from the terrace including shifting at ground level as per direction of Engineer-in-charge.	2.00	13.00	15.00	each	433.75	6506.25
9.10	Dismantling W.C. Pan of all sizes including disposal of dismantled materials i/c malba all complete as per directions of Engineer-in- Charge.	2.00	6.00	8.00	each	134.10	1072.80

9.11	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	2.00	5.00	7.00	each	429.10	3003.70
10	<b>Dismantling and Demolishing</b>						
10.1	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :						
10.1.1	Of area 3 sq. metres and below	2.00	18.00	20.00	each	367.20	7344.00
10.2	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :						
10.2.1	Of area 3 sq. metres and below	2.00	0.00	2.00	each	143.50	287.00
10.3	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.						
10.3.1	For thickness of tiles 10 mm to 25 mm	60.00	6.00	66.00	sqm	73.40	4844.40
10.4	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	4.00	10.00	14.00	each	112.05	1568.70
10.5	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	34.00	0.00	34.00	sqm	54.65	1858.10
10.6	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	14.00	2.00	16.00	cum	263.95	4223.20
11	<b>SANITARY INSTALLATIONS</b>						

11.1	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:						
11.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	2.00	0.00	2.00	each	6767.40	13534.80
11.2	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :						
11.2.1	W.C. pan with ISI marked white solid plastic seat and lid	3.00	0.00	3.00	each	6515.55	19546.65
11.3	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:						
11.3.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	4.00	2.00	6.00	each	2648.85	15893.10
11.4	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required :						
11.4.1	Kitchen sink with drain board						
11.4.1.1	510x1040 mm bowl depth 225 mm	3.00	0.00	3.00	each	7514.65	22543.95
11.4.2	Kitchen sink without drain board						
11.4.2.1	610x510 mm bowl depth 200 mm	3.00	0.00	3.00	each	4940.80	14822.40
11.5	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as	5.00	10.00	15.00	each	349.15	5237.25

	approved by Engineer - in - charge.						
11.6	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete.						
11.6.1	10 litre capacity - White	8.00	4.00	12.00	each	1190.65	14287.80
11.7	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						
11.7.1	Flexible pipe						
11.7.1.1	32 mm dia	15.00	25.00	40.00	each	119.55	4782.00
11.8	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	4.00	0.00	4.00	each	1607.95	6431.80
11.9	Providing and fixing vitreous china dual purpose closet suitable for use as squatting pan or European type water closet (Anglo Indian W.C pan) with seat & lid fixed with C.P. brass hinges and rubber buffers, 10litre low level flushing cistern with fitting and brackets, 40 mm flush bend, 20 mm over flow pipe, with specials of standard make and mosquitoproof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required:						
11.9.1	White vitreous china dual purpose WC pan with white solid plastic seat and lid with white vitreous china flushing cistern and C.P. flush bend.	0.00	6.00	6.00	each	11847.65	71085.90
11.10	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	6.00	5.00	11.00	each	231.95	2551.45

11.11	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.						
11.11.1	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.	4.00	0.00	4.00	each	708.95	2835.80
11.12	Providing and fixing PTMT urinal cock of approved quality and colour.						
11.12.1	15 mm nominal bore, 80 mm long, 42 mm high and 30mm wide with BSP female threads weighing not less than 48 gms	6.00	0.00	6.00	each	175.40	1052.40
12	<b>WATER SUPPLY</b>						
12.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall						
12.1.1	25 mm nominal dia Pipe	0.00	10.00	10.00	metre	401.55	4015.50
12.2	Providing and fixing uplasticised PVC connection pipe with brass unions :						
12.2.1	45 cm length						
12.2.1.1	15 mm nominal bore	10.00	11.00	21.00	each	97.75	2052.75
12.3	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :						
12.3.1	15 mm nominal bore	18.00	13.00	31.00	each	506.80	15710.80
12.4	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.						
12.4.1	15 mm nominal bore	0.00	9.00	9.00	each	820.70	7386.30
12.5	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.						
12.5.1	15 mm nominal bore	8.00	0.00	8.00	each	798.95	6391.60

12.6	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.						
12.6.1	15 mm nominal bore	9.00	0.00	9.00	each	670.45	6034.05
12.7	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931						
12.7.1	15mm nominal bore	9.00	18.00	27.00	each	574.30	15506.10
12.8	Providing and fixing PTMT pillar cock of approved quality and colour.						
12.8.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	4.00	0.00	4.00	each	208.45	833.80
13	<b>DRAINAGE</b>						
13.1	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality						
13.1.1	L D- 2.5						
13.1.1.1	Rectangular shape 600x450 mm internal dimensions	7.00	0.00	7.00	each	1437.65	10063.55
13.2	Supplying and fixing C.I. cover 300x300 mm without frame for gully trap (standard pattern) the weight of cover to be not less than 4.5 kg	7.00	0.00	7.00	each	787.00	5509.00
13.3	Raising manhole cover and frame slab to required level including dismantling existing slab and making good the damage as required (Raising depth of manhole to be paid separately) :						
13.3.1	Rectangular manhole 90x80 cm with rectangular cover 600 x 450 mm of grade LD - 2.5	3.00	0.00	3.00	each	2625.50	7876.50
	<b>TOTAL</b>						2452572.09
	<b>Cost after applying correction factor @ 0.973, Total (A)</b>						<b>2386352.64</b>
	<b>NON-SCHEDULE ITEMS</b>						
14	<b>Day to Day maintenance</b>						



14.1	<p>Comprehensive day to day Maintenance of Residential and Non Residential buildings of Central Government organisations by engaging skilled workers like Masons, Carpenters, Plumbers, Sewermen &amp; Beldars as helper, as and when required, for maintaining buildings as per provisions included in CPWD maintenance manual. The workers will be required to attend the complaints received through E-Sewa portal or by any other mean, clean the area of maintenance free from any debries or building rubbish after attending complaint, get the signature of occupants and its feedback in prescribed format including details of material used in the work and deposit the same along with dismetal to the authorized enquiry clerk. The cost of necesary Tools and Plants and required minor accessories like tape, thread, safeda etc. is included in the rates so these need to be provided by the contractors to the workers and nothing extra shall be paid on this account. The Plinth area of the buildings is to be measured for purpose of payment in this item.</p>						
14.1.1	<p>(Note : The payment of this item is considering atleast one complaint recorded and attendant per month for 100 sqm of plinth area) In case there is less no of complaints received individual client at particular station, then payment of this item for buildings of that client department at that location will be proportionately reduced. no additional payment shall be admissible even if no. of</p>						

	complaints are more than specified)						
14.1.1.1	Residential Building	21115.56	47486.40	68601.96	per sqm plinth area per month	3.43	235148.34
14.1.1.2	Non Residential Building	53027.64	27853.80	80881.44	per sqm plinth area per month	2.39	193146.43
14.2	Providing services of security guard without gun for watch and ward of GPOA (Holiday home) Jaisalmer in three shift (8AM to 4PM , 4PM to 12AM & 12 AM to 8AM) or as per requirement & direction of the Engineer in charge ( The contractor has to arrange for substitute for weekly off and holiday)	36.00	0.00	36.00	Per employ ee per month	28109.00	1011924.00
14.3	Cleaning of septic tank with manholes including bailing out the foul water and taking/removing out sludge from septic tanks and manholes and disposal of same as directed by Engineer-in-Charge. (Nothing extra shall be paid for work in foul conditions).	90.00	162.00	252.00	Cum	340.40	85780.80
14.4	Cleaning and Desilting of manholes up to 1.50 meter depth (Average) after removing of cover, removal of silt, garbages, brick bats and other obstructing matters, polybags, vegetation lumps etc complete, taking out through bucket and roap arrangement, disposal by head load/wheel barrows etc and disposal of dried sludge by head load from the campus all complete and placing the MH Cover in position to avoid fatal accidents at any stage al inclusive as per the direction of Engineer in	30.00	37.00	67.00	each	335.30	22465.10

	charge.						
14.4.1	Providing and fixing Stainless steel sliding door bolts with nuts and screws etc complete.						
14.4.1.1	250x16 mm	5.00	1.00	6.00	each	635.15	3810.90
14.5	Providing and fixing Stainless steel tower bolts with necessary screws etc complete as per direction on Engineer - in - charge etc.						
14.5.1	250x10 mm	4.00	1.00	5.00	each	334.35	1671.75
16	<b>DEDUCTION ITEM</b>						
16.1	Deduct for taking away PVC cistern, loft tank, over head tank and PVC door etc. and the like received from dismantling. The material so received shall be the property of contractor after dismantling duly weight measred before removing from the site in the presence of Engineer in Charge or his authorised representative all complete. Nothing extra shall be paid for dismantling.	30.00	261.00	291.00	kg	-22.30	-6489.30
16.2	Deduct for taking away CP brass pillar cock, brass bib cock, brass stop cock and the like received from this dismantling. The material so received shall be the property of contractor after dismantling duly weight/ measured before removing from the site in presence of Engineer in Charge or his authorized representative all complete.(Nothing extra shall be paid for dismantling)	10.00	26.00	36.00	kg	-222.85	-8022.60
16.3	Deduct for taking away of all type of wooden doors, windows, ventilators etc. and the like received from this dismantling. The material so received shall be the property of contractor after dismantling measurement	3.00	200.00	203.00	kg	-8.35	-1695.05

	before removing from the site in the presence of Engineer in Charge or his authorized representative all complete.						
17	<b>Supplying &amp; Stacking of material confirming to CPWD specifications for Day to Day maintenance as per requirement and direction of Engineer in charge or his representative.</b>						
17.1	Stainless steel SS grade 304, curtain rod 25 mm dia 1.20 mm thick	10.00	5.00	15.00	Metre	242.00	3630.00
17.2	Oxidised mild steel tower bolt (barrel type) 150x10 mm	6.00	2.00	8.00	Each	36.25	290.00
17.3	Oxidised mild steel tower bolt (barrel type) 100x10 mm	5.00	2.00	7.00	Each	27.00	189.00
17.4	Oxidised mild steel handles 125 mm	4.00	2.00	6.00	Each	27.00	162.00
17.5	Anodised Aluminium sliding door bolt 250x16 mm	2.00	11.00	13.00	Each	168.00	2184.00
17.6	Anodised Aluminium tower bolt (barrel type) 250x10 mm	6.00	22.00	28.00	10 Nos	65.00	1820.00
17.7	Anodised Aluminium tower bolt (barrel type) 150x10 mm	7.00	20.00	27.00	10 Nos	41.00	1107.00
17.8	Anodised Aluminium handles 125 mm with plate 175 x 32 mm	5.00	20.00	25.00	Nos	43.00	1075.00
17.9	Brass stop-cock 15 mm dia	2.00	3.00	5.00	Each	298.00	1490.00
17.10	Mirror of superior make glass 60x45 cm	3	5	8.00	Each	582.00	4656.00
17.11	Polyethylene water storage tank with cover and suitable locking arrangement	0	7000	7000.00	Per litre	8.00	56000.00
17.12	P.V.C. connection pipe with brass union 45 cm long 15 mm bore	16.00	23.00	39.00	Each	49.00	1911.00
17.13	Cistern ball cock set	12.00	0.00	12.00	Each	116.00	1392.00
17.14	White plastic seat (solid) with lid C.P. brass hinges and rubber buffers	6.00	2.00	8.00	Each	584.00	4672.00
17.15	Shower rose C.P. brass for 15 to 20 mm inlet 150 mm dia	3.00	5.00	8.00	Each	179.00	1432.00
17.16	C.P. brass toilet paper holder of standard size	0.00	2.00	2.00	Each	399.00	798.00

17.17	100 mm S.C.I. trap with 100 mm inlet and 75 mm outlet	0.00	1.00	1.00	Each	313.00	313.00
17.18	20 mm dia Gunmetal gate valve with wheel	4.00	2.00	6.00	Each	463.00	2778.00
17.19	Brass full way valve with C.I. wheel (screwed end) 25 mm dia	3.00	2.00	5.00	Each	534.00	2670.00
17.20	Vitreous china orrisa type W.C. pan size 580 mm	3.00	4.00	7.00	Each	1747.00	12229.00
17.21	Vitreous china pedestal type water closet	3.00	2.00	5.00	Each	1398.00	6990.00
17.22	600x120 mm glass shelf with anodised aluminium angle frame,C.P. brass brackets and guard rail of standard size	5.00	8.00	13.00	Each	396.00	5148.00
17.23	Vitreous china flat back wash basin 550x400 mm	3.00	2.00	5.00	Each	717.00	3585.00
17.24	Galvanised wire mesh of average width of aperture 1.4 mm and nominal dia of wire 0.63 mm	0.00	7.00	7.00	sqm	336.00	2352.00
17.25	Nickel plated M.S. pipe 20 mm dia	0.00	10.00	10.00	metre	101.00	1010.00
17.26	Nickel plated M.S - Brackets for curtain rod 20 mm	0.00	20.00	20.00	Nos	9.00	180.00
17.27	Aluminium hanging floor door stopper with twin rubber & stopper	18.00	18.00	36.00	Each	57.00	2052.00
17.28	Hydraulic door closer tubular type Aluminium section body.	4.00	4.00	8.00	Each	776.00	6208.00
17.29	Stainless steel kitchen sink - without drain board 610x510 mm bowl depth 200 mm	3.00	0.00	3.00	Each	3041.00	9123.00
17.30	Semi rigid PVC Waste pipe of 32 mm dia with length not less than 700 mm i/c PVC waste fittings	15.00	15.00	30.00	Each	35.00	1050.00
17.31	Flexible (coil shaped) PVC waste pipe for sink and wash basin 32 mm dia with length not less than 700 mm i/c PVC waste fittings	10.00	10.00	20.00	Each	49.00	980.00
17.32	Flexible (coil shaped) PVC waste pipe for sink and wash basin 40 mm dia with length not less than 700 mm i/c PVC waste fittings	4.00	0.00	4.00	Each	49.00	196.00
17.33	Rectangular shape 600x450 mm precast R.C.C. manhole cover with frame - L.D. - 2.5	12.00	6.00	18.00	Each	961.00	17298.00

17.34	C.P. brass bib cock - 15 mm nominal bore. (Essco, Mare, Paryware).	10.00	10.00	20.00	Each	427.00	8540.00
17.35	C.P. brass long body bib cock - 15 mm nominal bore. (Essco, Mare, Paryware).	12.00	12.00	24.00	Each	686.00	16464.00
17.36	C.P. brass angle valve - 15 mm nominal bore (Essco, Mare, Paryware).	12.00	4.00	16.00	Each	489.00	7824.00
17.37	Flushing Cistern P.V.C. 10 litre capacity (low level) (White) (with fittings, accessories and flush pipe) (Slimline, Commander, Cera & Hindware)	10.00	5.00	15.00	Each	804.00	12060.00
17.38	15 mm PTMT bib cock	8.00	5.00	13.00	Each	91.00	1183.00
17.39	PTMT pillar cock - 15mm nominal bore, 107mm long. Weighing not less than 110 gms.	2.00	8.00	10.00	Each	162.00	1620.00
17.40	PTMT grating 100 mm dia	5.00	0.00	5.00	Each	22.00	110.00
17.41	100mm SS grating with waste hole.	5.00	0.00	5.00	Each	35.00	175.00
17.42	PTMT Ball cock 15mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	12.00	5.00	17.00	Each	102.00	1734.00
17.43	PTMT Ball cock 20mm complete with Epoxy Coated Aluminium Rod & H.D. Ball	8.00	15.00	23.00	Each	155.00	3565.00
17.44	PTMT - Towel Rail (450 mm long )	7.00	5.00	12.00	Each	171.00	2052.00
17.45	Chlorinated Polyvinyl - chloride (CPVC) pipe 20 mm outer dia	35.00	20.00	55.00	Mtr	76.00	4180.00
17.46	Chlorinated Polyvinyl - chloride (CPVC) pipe 25 mm outer dia	40.00	20.00	60.00	Mtr	123.00	7380.00
17.47	Stainless steel screws 40 mm	7.00	1.00	8.00	100 Nos	349.00	2792.00
17.48	Stainless steel screws 30 mm	10.00	4.00	14.00	100 Nos	330.00	4620.00
17.49	Stainless steel screws 20 mm	4.00	2.00	6.00	100 Nos	226.00	1356.00
17.50	Spindle	5.00	2.00	7.00	Each	75.05	525.35
17.51	PTMT health faucet	11.00	0.00	11.00	Each	400.20	4402.20
17.52	C.P. Brass Two way bib cock	5.00	0.00	5.00	Each	812.95	4064.75
17.53	Gun metal ball valve with arm lever 15 mm dia	7.00	0.00	7.00	Each	275.15	1926.05
17.54	PVC water tank cover for 500 litre capacity	11.00	2.00	13.00	Each	250.15	3251.95
17.55	Putty for glass panes.	0.00	5.00	5.00	kg.	45.00	225.00
17.56	White Cement	2.00	3.00	5.00	Per KG	52.00	260.00

17.57	C.P. grating without hole 100 mm	2.00	4.00	6.00	Each	43.00	258.00
17.58	C.P. grating with hole 100 mm	2.00	4.00	6.00	Each	43.00	258.00
17.59	M Seal in 100 gm packing	2.00	4.00	6.00	Pkt.	36.00	216.00
17.60	Tafelon tape	5.00	5.00	10.00	Each	22.00	220.00
17.61	C.P. Brass Two way bib cock	3.00	2.00	5.00	Each	1554.00	7770.00
17.62	25mm dia Gunmetal gate valve with wheel	1.00	2.00	3.00	Each	603.00	1809.00
	<b>TOTAL OF NS ITEMS (B)</b>						<b>1795551.67</b>
	<b>G.TOTAL (A+B)</b>						<b>4181904.31</b>
	<b>SAY</b>						<b>4181904.00</b>

## PART – C

SCHEDULES - A TO F, GENERAL/SPECIAL CONDITIONS, SPECIFICATIONS AND SCHEDULE OF QUANTITIES FOR MINOR COMPONENT OF WORK AND STANDARD GCC FOR CPWD-2023 FOR MAINTENANCE WORK AMENDED/ MODIFIED UP TO LAST DATE OF TENDER SUBMISSION.



## SCHEDULE 'A' to 'F' (Electrical)

### SCHEDULE 'A'

Schedule of quantities Electrical work scheduled at page No. ...

### SCHEDULE 'D'

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

### SCHEDULE 'E'

Reference to General Conditions of contract

General Conditions of Contract for CPWD MAINTENANCE WORK 2023 as amended/ modified upto the previous day of last date of submission of tender.

Name of Work :- **Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.**

**Estimated Cost of Electrical work:- Rs. 36,56,862.00**

Earnest Money:- As per Major component

Performance Guarantee As per Major component

Security Deposit As per Major component

### SCHEDULE 'F' :-

#### General Rules & Directions:-

	Officer Inviting Tender	:	As given in Major Component
	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 at appropriate clause under definitions
	<b>Definitions:-</b>		
2(vi)	Engineer-In-Charge	:	<b>Executive Engineer (E)- CPWD, Jodhpur or successor thereof</b>
2(viii)	Accepting Authority	:	As given in Major Component
2(x)	Percentage on cost of materials and labour to cover all overheads and profits	:	15%
2(x)(a)	Standard Schedule of Rates (Electrical & Civil)	:	Delhi Schedule of Rates 2025 for E&M And DSR-2023 for Civil With upto date correction slips issued upto previous day of last date of submission of tender.
2(xi)	Department	:	Central Public Works Department
9(ii)	Standard CPWD Contract (electrical & civil)	:	GCC-2023 Maintenance works CPWD Form-7 as modified & corrected up to previous day of last date of submission of the tender.

<b>Clause-1:-</b>		
(i)	Time allowed for submission of performance guarantee, Programme Chart (Time and progress) and applicable Labour licenses ,registration with EPFO, ESIC and BOCW Welfare Board including provident fund Code No. or proof of applying there of from the date of letter of acceptance.	As given in Major Component
(ii)	Maximum allowable extension with late fee @ 0.1 % per day of performance guarantee amount beyond the period as provideding (i) above.	As given in Major Component
<b>Clause-2</b>	Authority for fixing compensation under clause - 2.	As given in Major Component
<b>Clause-2A</b>		Not Applicable
<b>Clause-5</b>	Number of days from the date of issue of letter of acceptance for reckoning date of start.	As given in Major Component

**Mile Stone(s) as per table given below:**

S.No.	Description of Milestone (Physical)	Time allowed in Days (from date of start)	Amount to be withheld in case of non-achievement of milestone.
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**As per Major Component**

Time allowed for execution of work : **As per Major Component**

(i)	Authority to convey decision of shifting of mile stone & extension of time.	:	As per Major Component
(ii)	Authority to decide rescheduling of milestone and extension of time.	:	As per Major Component
(iii)	Shifting of date of starting case of delay in handing over of site.	:	As per Major Component

**Schedule of handing over of site**

Part	Portion of Site	Description	Time Period for handing-over reckoned from date Of issue of letter of intent.
Part A	Portion without any hindrance	Site is available	On the day of start of the work.
Part B	Portions with Encumbrances	For services	Within 7 days of request Made by agency

Clause-5		Applicable
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<b>CLAUSE 5.4 :- Rescheduling of milestone(s) and extended date of completion :-</b>		
The request for rescheduling of milestone(s) and extension of time, shall be made by the contractor through ERP Portal once in a month on the basis of hinderance accepted by Engineer-in – charge under subclause 5.2 and subclause 5.3. The Contractor shall indicate in such a request number of days by which rescheduling of milestone(s) and/ or extension of time is desired.		
<b>Clause-6:-</b>	Electronic Measurement Book (EMB) through CPWD ERP portal	
<b>Clause-7:-</b>	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.	Quarterly or Mutual Agreed by both parties
<b>Clause-7A:-</b>	Regarding applicability of labour laws: - Related to Labour licensee, registration of contractor with EPFO, ESIC and BOCW welfare board and c Provident Fund	Yes, Applicable as per major component.
	No running account bill shall be paid in the work till the applicable labour licenses, registration with EPFO, ESIC, BOCW welfare board including Provident Fund Code No. whatever applicable are submitted by the contractor to the Engineer-in-charge.	
<b>Clause-7B:-</b>	Payment to Third Party	Yes, Applicable.
<b>CLAUSE 8</b>	Competent Authorities to inspect and issue part/ final completion certificate.	As given in Major Component
<b>CLAUSE 8A</b>	Authority to decide compensation on account if contractor fails to submit completion plans.	As given in Major Component
<b>Clause-10A:-</b>	Materials to be provided by the contractor.	Provision as per O.M. No. DG/Con/Construction 2023/12 dated 09.10.2024 & DG/Con/Construction 2023/13 dated 29.10.2024 issued by CPWD Directorate.
<b>Clause-10-B(ii)</b>	Whether clause 10-B (ii) shall be applicable.	Not Applicable
<b>Clause-10C</b>		As given in Major Component
<b>Clause-10CC</b>	Clause 10 CC to be applicable in contracts with stipulated period of completion	As given in Major Component
<b>Clause-11:</b>		
<b>Specifications to be followed for execution of work:</b>		
<b>E &amp; M works</b>	1. CPWD General Specifications for Electrical Works (Part-1) Internal – 2023, with up to date correction slips upto previous day of last day of submission of bids. 2. CPWD General Specifications for Electrical Works (Part-II) for External 2023 with up to date correction slips upto previous day of last day of submission of bids. 3. CPWD Maintenance Manual 2023 4. CPWD General Specifications for Electrical Works Heating, ventilation & Air conditioning (HVAC) - 2024 with up to date correction slips upto previous day of last day of submission of bids	

	5. CPWD General Specifications for Electrical Works (Part-VII) for DG Set 2013 with up to date correction slips.
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<b>CLAUSE 12</b>		
<b>Type of work:</b>		<b>Maintenance Work.</b>
<b>Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 (c)</b>		<b>See Below</b>
<b>12.2 (c)</b>	Deviation Limit beyond which clauses 12.2 (c) shall apply for building work	<b>No Limit</b>
<b>CLAUSE16</b>		
Competent Authority for deciding reduced rate thereof.		As given in Major Component
<b>Clause-17:</b> Defect Liability period		
Note:- (i) Defect liability period(DLP) shall be 12 months after declaring the Entire work completed by the competent authority.		
<b>CLAUSE18:</b> As per direction of Engineer-in-Charge & requirement at site.		
<b>Clause19</b> Competent Authority to decide penalty for each default–		
Clause19C	Competent Authority to decide penalty for each default	As per GCC 2023 Provisions
Clause19D	Competent Authority to decide penalty for each default	As per GCC 2023 Provisions
Clause19G	Competent Authority to decide penalty for each default	As per GCC 2023 Provisions
Clause19K	Competent Authority to decide penalty for each default	As per GCC 2023 Provisions
<b>Clause 25</b>	Conciliator	Special Director General ,CPWD , Chandigarh
	Arbitrator Appointing Authority	S E ,CPWD , Jodhpur or his Successor .
	Place of Arbitration	Jodhpur (Rajasthan)

#### **Clause-32:**

##### **Requirement of Technical Representative(s) and Recovery Rates :-**

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 32 Per person	
						Figures (Rs. Per person per month)	Words (Rs. Per person per month)

1	Graduate Engineer Or Diploma Engineer	E & M	Principal Technical representative	2 years or 5 years	1 No.	15,000/-	Fifteen Thousand Only.
01							
<p>Assistant Engineer retired from Government Services that are holding Diploma will be treated at per tith- Graduate Engineer.</p> <p>Diploma holder with minimum 10 years relevant experience with a reputed construction/Maintenance co. can be treated at per with Graduate Engineers for the purpose of such deployment subject to condition that such diploma holders should not exceed 50% of requirement of degree engineers. The contractor shall submit a certificate of such employment of the technical representative(s) (in the form of copy of Form 16 or CPF deduction issued to the Engineers employed by him) Along with every accout bill/final bill and shall produce evidence of the any time so required by the Engineer in chargea</p>							

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

### **PROPOSAL FOR ASSOCIATING AGENCY FOR E&M WORKS**

I/we hereby propose the following agency for execution of E&M work component mentioned herein. Consent Letter from the proposed associated agency is enclosed.

Name of work :

Component of E&M Work : .....

Name of Associated Agency : .....

Details of Enlistment : .....

Category and Class of Enlistment : .....

Monetary limit of work in Enlistment : .....

Validity of Enlistment : .....

Copy of Enlistment Order attached : (Yes /No)

Copy of electrical contractor license attached: (Yes /No)

Copy of completion certificates of similar work experience attached : (Yes /No)

Copy GST Registration attached : (Yes/No)

Copy PAN Card Attached : (Yes/No)

Consent Letter of agency attached : (Yes/No)

Encls: Self Attested photocopies of as stated above

Seal & Signature of the Main Contractor

## **SPECIAL CONDITIONS (FOR ALL E & M COMPONENTS)**

1. The applicant should either himself meet the eligibility conditions for the respective E&M components or otherwise he will have to associate with agencies, fulfilling the eligibility requirements and the consent letter from at least One eligible Associate Agency of the respective components of E&M work shall also be submitted as per attached Proforma.
2. *In case the main contractor is himself eligible (as per eligibility criteria) for executing any specific minor component and intends doing the job himself, he may not be required to associate with another agency for that minor component of work. In such cases the main contractor also has to submit the documents as per eligibility criteria mentioned for associated agency of individual E&M component.*
3. *The main tenderer have to submit the following documents for association of electrical contractors within 30 days of award of work or 15 days before start of electrical related work whichever is earlier.*
4. *In support of the eligibility conditions of the proposed associated electrical contractor, copy of their registration documents, Electrical Contractor's License, PAN Card, GST Registration and verifiable work completion certificates duly attested by the applicants (Main Contractor) shall be submitted to the concerned (Minor Component in-charge) Executive Engineer (Electrical), Jodhpur, CPWD, Jodhpur, for deciding the eligibility.. Proposal for associating agency for minor components of work shall be submitted in Form- "H" of this tender document from each associate independently for all electrical and mechanical components.*
5. *The Executive Engineer (E) will give approval for associating within 7 days after receipt of proposal from contractor, if submitted documents are found in order.*
6. *Thereafter, the main contractor will have to submit MOU signed with the approved associated agency for minor component. The MOU in the enclosed form (Form-I) shall be signed by both the parties i.e. main contractor as 1st party and associated electrical contractor as 2nd party for all electrical and mechanical components and submit the same within 7 days of receipt of approval from Executive Engineer(E) or before start of Electrical component of work, whichever is earlier.*
7. *The main contractor has to enter into agreement with contractor associated by him for execution of minor component. Copy of such agreement shall be submitted to Executive Engineer (E) in charge of minor component as well as Executive Engineer, in-charge of major component.*
8. *In the event of the concerned E&M agency (Associated agency) is not performing satisfactorily or failure of associate contractor to complete the E&M work, the main contractor on written directions of the department, shall remove the*

associate agency deployed on the work and shall submit name of new associate agency who fulfill the conditions mentioned in NIT to execute the left over work without any loss of time or variation in cost to the department. Such associate shall also give an undertaking along with the main tenderer that both of them shall stand guarantee for the equipments already supplied for which payment has been released by the Department, in part. If any equipment supplied for the work, during the currency of the earlier Associate contractor and paid partly by the Dept., becomes redundant /not in a position to be installed and commissioned and put to beneficial use due to change in agency for execution of E&M work, the main contractor shall be liable for replacement of the equipment(s) at no cost to Department. No change of Electrical Contractor will be allowed without prior approval of the Engineer-in-charge of the work.

9. Materials for all E & M works shall be procured only from the original equipment manufacturers/ authorized dealers of OEM. The contractor shall submit all documentary details in fulfillment of these conditions regarding procurement of materials including relevant test certificates.
10. Executive Engineer (E&M) shall be the Engineer-in-charge as far as electrical works are concerned. Separate tender schedule abbreviated CPWD-7 and Special Conditions for Electrical Work are appended with this tender. It will be obligatory on the part of the contractor/ tenderer to sign the tender documents for all the component parts.
11. The main contractor shall be responsible and liable for proper and complete execution of the Electrical and Mechanical component of works and ensure coordination and completion of both civil and electrical work.
12. **Before completion of defect liability period of one year, the main contractor has to submit Security Deposit of 5% of the price quoted by him for SITC of LED fittings for the remaining 4 years warranty period in acceptable form i.e. FDR/Bank guarantee if the major contractor executes or obtain from the associated agency and submit the same to the concerned Executive Engineer (E). The Security Deposit deducted from the bill of contractor shall be refunded to the main contractor only after submission of Security Deposit for LED fittings, failing which the Security Deposit against LED fittings shall be deducted from Security Deposit for total work and balance amount only will be refunded after completion of defect liability period. The LED Security Deposit will be released after completion of warranty period of 5 years to the agency, who have submitted the LED Security Deposit.**
13. The associate contractor along with main contractor or his representative shall attend the inspection of the work by the Engineer-in-Charge of E&M works as and when required.



For components of E&M works, the eligibility criteria will be as detailed below:

Sl. No	Component of E& M	Eligibility criteria
1	Electrical Installation.	Eligible enlisted contractor of CPWD in appropriate class & category having valid electrical licence
2	D.G.Set	OEM/ Authorised Service Provider of OEM (Make of DG Set - Cummins)
3	Lift	Lift will be comprehensively maintained by respective Lift manufacturer only(OEM M/s Johnson Lifts))
4	Any other specialized work	As per the above specified qualification criteria with the approval of the engineer-in-charge

- i. *If the main contractor fails to associate with agencies for execution of E&M component of work within 10 days of award of work OR before start of E&M component of work whichever is earlier or furnishes incomplete details or furnishes details of ineligible agencies even after the giving sufficient opportunity, the entire scope of such component of work shall be withdrawn from the main agency and the same shall be got executed by the Engineer-in – Charge at the risk and cost of the mainagency.*
- ii. *The main contractor will submit MOU signed with eligible registered composite contractor of CPWD or Specialized agency. The MOU in the enclosed form shall be signed by both the parties' i.e. main contractor as 1st party and associated electrical contractor as 2nd party.*
- iii. ***The main contractor has to enter into agreement with contractor associated by him for execution of E&M component Having detail of all Technical and Commercial Understanding between the Main Agency and Associated Agency . Copy of such agreement shall be submitted to Executive Engineer (E) in charge of major component.***
- iv. *. Tender accepting authority may approve change of agency in case it is required during the currency of contract.*
- v. *Verifiable completion certificates of the work, registration/ approval documents as the case may be, duly attested by both associated agency and major contractor shall be submitted within 10 days of award of work OR before start of E&M component of work which ever is earlier. Valid Electrical Contractor's license, self-attested GST registration documents in respect of the associated agencies as the case may be, duly attested by the applicant shall also be submitted within 10 days of award of work OR before start of E&M component of work which ever is earlier.*

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

**CONSENT LETTER FROM ASSOCIATE AGENCY FOR E&M WORKS**

**NAME OF WORK:- Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.**

**Agreement No:-**

I/We here by give my consent to associate with M/s....., for executing them in or component of work of.....(Mention category).

I/We will execute the work as per specifications and conditions of the agreement and as per directions of the Engineer-in-Charge for the corresponding minor work till the completion of the work.

I/We will be responsible for necessary action to handover the installations and for rectification of defects and repair during the maintenance /warranty period.

Also I/We will employ fulltime technically qualified Engineer/supervisor for the minor component of the work as required for the work .I /We will attend inspection of officers of the department as and when required.

Applicable for Internal EI Component:

Date:

Signature with date of Major component      Signature with date of Associate/Minor Component

Contractor      Contractor  
Address      Address

Witness with address

(From major component contractor side)

Witness with address

(From minor component contractor side)

**FORM –“H”**

**NAME OF WORK: - Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.**

Agreement No:-

**PROPOSAL FOR ELIGIBLE ASSOCIATING AGENCIES FOR MINOR COMPONENTS OF WORK**

I/we here by propose the following agencies as per mentioned against each for executing corresponding minor components of work. Their consent letter are also attached

Sl.No	Name of Associated Contractor	Category and class of registration	Enlistment copy/completion Certificates attached	Monetary Limit Of work	Validity of registration	Consent letter attached (Yes/No)
1						
(Part-C) Electrical Installation.						

Note: Self Attested photo copies of enlistment order, valid electrical contractor license, annual pre-qualification order, work-experience certificates of each agency for each component of E&M work shall be submitted.

Signature of contractor

Form- "I"

Rs.100/- Stamp Paper

**MEMORANDUM OF UNDERSTANDING (MOU) FOR ASSOCIATED CONTRACTOR**

M/s. (Name of the firm with full address) .....

(Henceforth called the Main Contractor)

And

M/s. (Name of the firm with full address) .....

(Henceforth, called the Associated Contractor)

Name of Work : **Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.**

**NIT No. :**

This MoU is made at ..... on ..... between the ..... (herewith called the main contractor) and ..... (herewith called the Associated contractor).

Whereas the main contractor has agreed to entrust the .....(mention component of E&M work) work to the associated contractor.

We state that MoU between us will be treated as an agreement and has legality as per Indian Contract Act (amended up to date) and the department (CPWD) can enforce all the terms and conditions of this agreement for execution of the .....(mention component of E&M work) in respect of above work. Both of us shall be responsible for the execution of .....(mention component of E&M work) as per the agreement to the extent this MoU allows. In case of any delay in the payment by the main contractor, the associated contractor can apply to the CPWD to release the payment under Clause 7B and deduct the same from the bills of the main contractor. In case of any dispute, either of us will go for mediation by the SE and his decision shall be final and binding on both of us.

We have further agreed as under:

1. The Associated Contractor will execute .....(mention component of E&M work) as per terms and conditions of this agreement.
2. All the machinery and equipment, tools and tackles required for execution of the .....(mention component of E&M work), as per this MoU, shall be the responsibility of the Associated Contractor.
3. The site staff required for the execution of .....(mention component of E&M work) work shall be arranged by the Associated Contractor as per terms and conditions of this MoU.
4. All the correspondence regarding execution of the .....(mention component of E&M work) work shall be done

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by the department with the main contractor. In case of non-compliance of the provisions of agreement of the work by the associated contractor, the main contractor shall be held responsible and action will be taken against him as per agreement provisions.

5. In case of non-performance, associated contractor will be debarred from participation or association in the CPWD tenders by the CPWD.

(Authorized Signatory)  
SIGNATURE OF THE MAIN CONTRACTOR

Date : .....

Place : .....

Witness with address (From main contractor side

(Authorized Signatory)  
SIGNATURE OF ASSOCIATED  
CONTRACTOR

Date : .....

Place : .....

Witness with address (From Associate contractor  
side)

**Affidavit**

**(For E&M associate agencies )**

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 bidding in CPWD 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.

Signature of Associate Agency with stamp

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WILLINGNESS CERTIFICATE

**NAME OF WORK:- Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.**

I hereby give my willingness to work as electrical contractor for the specialized work of “\_\_\_\_\_” in the above mentioned work. I will execute the work as per specifications and conditions for the agreement and as per direction of the Engineer-in Charge. Also, I will engage full time technically qualified supervisor/engineer as per terms & conditions of agreement for this works. I will attend inspections of officers of the department as and when required.

Date: \_\_\_\_\_

Place: \_\_\_\_\_

[Signature of the Associate Electrical Contractor]  
[Stamp with Address]

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## **GENDERAL TERMS AND CONDITIONS**

**Name of Work-** Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.

### **1.0 General**

1.1 The copy of CPWD General Specifications are readily available in CPWD website [www.cpwd.gov.in](http://www.cpwd.gov.in) under the link publication.

### **1.2 Location:**

Work shall be carried out at **GPOA, Inspection Bungalow, CPWD Quarters, Central Excise and Custom Department at Jaisalmer, Chohtan, Gadra Road and Income Tax Department at Barmer, Balotra** The contractor is advised to visit the site of work to have an idea of the execution of the work; failure to do so shall not absolve their responsibility to do the work as specified in agreement. The brief about work is that it consists of renovation work i.e providing internal Electrical Installation work i/c luminaires, , LED Fittings etc. to be carried out in **GPOA, Inspection Bungalow, CPWD Quarters, Central Excise and Custom Department at Jaisalmer, Chohtan, Gadra Road and Income Tax Department at Barmer, Balotra**

1.3 The work shall be executed as per CPWD General Specifications as follows :-

1. CPWD General Specifications for Electrical Works (Part-1) Internal – 2023, with up to date correction slips upto previous day of last day of submission of bids.
  2. CPWD General Specifications for Electrical Works (Part-II) for External 2023 with up to date correction slips upto previous day of last day of submission of bids.
  3. And relevant I.E. Rules, industry standards, BIS/IES and as per directions of Engineer-in-charge. These additional specifications/conditions are to be read in conjunction with above and in case of variations; specifications given in these additional conditions shall apply. However, nothing extra shall be paid on account of these Specific conditions, as the same are to be read along with schedule of works for the work.
- 1.4 The tenderer should in his own interest visit the site and get familiarize with the site conditions before tendering.
- 1.5 No T&P shall be issued by the Department and nothing extra shall be paid on account of this.

### **2.0 Commercial Conditions**

#### **2.1 Type of contract**

The work to be awarded by this tender shall be treated as indivisible works contract.

### **1.0 Terms of payment**

1.1 On account payments for part work (after stipulated and statutory deductions) as assessed by the Engineer-in-charge for the applicable items in the Contract shall be payable at part rates not exceeding the percentage indicated against the stages of work.

S.N	Stage of work	Percentage of Rate on Tendered Amount
a	Supply of material at site in good condition along with manufacture's test reports.	70%
b	On completion of installation in all respect.	20%
c.	Testing, Commissioning & handing over to the	10%



	department.	
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For other items, the part rates will be decided by the Engineer-In-Charge of the work and shall be binding on the contractor.

### 3.2 **Security Deposit**

Security Deposit shall be deducted from each running bill and the final bill to the extent of 2.5% of the gross amount payable subject to a maximum amount of 2.5% of the tendered value. The security deposit shall be released on the expiry of guarantee period of 12 Months stipulated in the contract. Bank guarantee will not be accepted as security deposit.

### 3.3 **Performance Guarantee**

As per major component of work.

- 3.4 Income Tax, labour cess & other statutory deductions etc. shall be made at source as per the prevalent laws. The deductions of Security Deposit, Income-Tax, GST etc. shall be done after calculation of the above due payments as per clauses 3.1 to 3.3 and net payment shall be reduced accordingly.

### 4.0 **Rates**

- 4.1 The rates quoted by the tenderer, shall be firm and inclusive of all taxes including GST and all charges for packing forwarding, insurance, freight and delivery, installation, testing, commissioning etc at site including temporary Maintenance of storage, risks, overhead charges, general liabilities/obligations and clearance from Local Body. However, the fee for the Local Body inspections shall be borne by the department.
- 4.2 The department will not issue Octroi exemption certificate.
- 4.3 The contractor has to carry out maintenance as per manufacturer's standards for a period of 12 months from the date of handing over. Nothing extra shall be paid on this account.

### 5.0 **Completeness of Tender**

All sundry equipment, fittings, unit assemblies, accessories, hardware items, foundation bolts, termination lugs for electrical connections and all other items which are useful and necessary for efficient assembly and installation of wall fan and components of the work shall be deemed to have been included in the tender irrespective of the fact whether such items are specifically mentioned in the tender documents or not.

### 6.0 **Storage and Custody of Materials**

For storage of sundry materials and erection equipments or else the agency has to make his own arrangements. No separate storage accommodation shall be provided by the department. Watch and ward of the stores and their safe custody shall be the responsibility of the contractor till the final taking over of the installation by the department.

### 7.0 **Care of the Building**

Care shall be taken by the contractor while handling and installing the various equipments and components of the work to avoid damage to the building. He shall be responsible for repairing all damages and restoring the same to their original finish at his cost. He shall also remove at his cost all unwanted and waste materials arising out of the installation from the site of work.

### 8.0 **Completion Period**

The completion period indicated in the tender documents is for the entire work of planning, designing, approval of drawings etc arrangement of materials & equipments, delivery at site including transportation, installation, testing,

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commissioning, and handing over the entire system to the satisfaction of the Engineer-in-charge.

## 9.0 Guarantee

9.1 All equipments shall be guaranteed for a period of as 12 Months from the date of taking over the installation by the department, against unsatisfactory performance and /or break down due to defective design, workmanship or material. The equipments or components, or any part thereof, so found defective during guarantee period shall be forthwith repaired or replaced free of cost, to the satisfaction of the Engineer-in-charge. In case it is felt by the department that undue delay is being caused by the contractor in doing this, the same will be got done by the department at the risk and cost of the contractor. The decision of the Engineer-in-charge in this regard shall be final & binding on the contractor.

9.2 The tender shall guarantee among other things, the following: -

- a) Quality, strength and performance of the materials used as per manufacturers standards.
- b) Safe mechanical and electrical stress on all parts under all specified conditions of operation.

## 10.0 Power Supply

In any case, electricity connection at one point shall be provided by client/department, if available and agreed by client department. However, contractor shall be responsible for arranging power supply and there shall be no obligation from department to make available power supply for execution of work and while quoting, contractor has to keep in mind that power and water has to be arranged by contractor himself at his own cost and included in the quoted rates. No hindrance on account of non-availability of power supply from client department or CPWD shall be considered and contractor shall be responsible for any delay in work on account of above.

## 11.0 Water Supply

Arrangement of Water supply for testing & for successful installation & completion of the system shall be in the scope of successful firm without any extra cost.

## 12.0 Acceptable Makes of Various Equipments

The acceptable makes of various equipment's/components/accessories have been indicated in "Make List". The tenderer shall work out the cost of the offer on basis of acceptable makes along with other terms & conditions of contract before quoting the tender. Alternate makes are not acceptable. For makes not available in the contract, contractor shall submit at least three **Reputed make which are already prevalent and approved in other NITs of SE Jodhpur circle for approval by** Engineer-in-charge. Only makes approved in writing by Engineer-in-Charge shall be used at site. Any material brought at site without prior approval of Engineer-in-charge may be rejected, even if the make is available in NIT and contractor shall be responsible for any such rejection of material.

13.0 The successful tenderer should furnish well in advance three copies of detailed instructions and manuals of manufacturers for all items of equipment's regarding installation, adjustments operation and maintenance including preventive maintenance & trouble shooting together with all the relevant data sheets, spare parts catalogue etc all in triplicate.

## 14.0 Extent of work

14.1 The work shall comprise of entire labour including supervision and all materials necessary to make a complete installation and such tests and adjustments and commissioning, as may be required by the department. The term complete installation shall not only mean major items of the plant and equipments covered by specifications but all incidental sundry components necessary for complete execution and satisfactory performance of installation with all layout charts whether or not those have been mentioned in details in the tender documents in connection with this contract. The site of work is available in existing of GPOA, Inspection Bungalow, CPWD Quarters, Central Excise and Custom Department at Jaisalmer, Chohtan, Gadra Road and Income Tax Department at Barmer, Balotra The quoted

rates shall be deemed to be inclusive of all kind of leads, lifts, clearing of site/jungle and nothing extra shall be paid, whatsoever on such account.

- 14.2 In addition to supply, installation, testing and commissioning of complete installation,, following works shall be deemed to be included within the scope of work to be executed by the tenderer as this is a turnkey job
- a) Minor building works necessary for installation of equipments, foundation, making of opening in walls or in floors and restoring them to their original condition / finish and necessary grouting etc as required.
  - b) All supports for cables and MS angles for erection of panels, etc as are necessary.
  - c) Getting Local Body inspection of fire fighting system , Electrical installation done & obtaining approval. However, necessary fees for inspection shall be borne by the Department.
  - d) Arrangement of electric supply (Single / Three phase) and water supply for execution and successful commissioning of the system.
  - e) Small wiring, inter-connection etc inclusive of all materials and accessories, necessary to comply with the regulations as well as proper and trouble free operation of the equipment.
  - f) Provision of supports/clamps for equipments, cables etc wherever required.
  - g) Tools and tackles required for handling and installation.
  - h) Necessary testing equipments for commissioning.
  - i) Watch and Ward of materials and/or installation and equipments till their handling over to the department.
  - j) All minor building works, such as equipments foundation if required cutting and making good holes, grouting of channels belts as required. Cutting and making good damages etc.
- 15.0 Works to be done by the Department
- Unless otherwise mentioned in the tender specifications the following works shall carried out by the department.
- i) To make the site available for the work. The contractor should select such equipment for installation as can be properly installed in the spaces shown in specification drawings. While no guarantee can be given minor modification required by the contractor if mentioned in the tender or intimated immediately after the receipt of tender shall be carried out if structurally possible.
- 16.0 Exclusion and work to be done by other agencies:  
The following shall be excluded from the scope of the work:  
Major dismantling of any existing building work.
- 17.0 Inspection and Testing
- 17.1 All the tests along with copy of Tax paid bills(Duly attested by agency) of the equipments are required to submit alongwith delivery of material.
- 17.2 Exclusion and work to be done by other agencies:  
The following shall be excluded from the scope of the work:
- a) Major dismantling of any existing building work.
- 17.3 Copies of all documents of routine and type test certificates of the equipment,/cable carried out at the manufacturers premises shall be furnished to the Engineer-in-charge and consignee.
- 17.4 After completion of the work in all respects the contractor shall offer the installation for testing and commissioning.
- 18.0 Validity  
Tenders shall be valid for acceptance for a period as per major component of work from the date of opening.
- 19.0 Compliance with Regulations and Indian Standards

- 19.1 All works shall be carried out in accordance with relevant regulation, both statutory and those specified by the Indian standards related to the works covered by this specification. In particular, the equipment and installation will comply with the following:
- i) Factories Act
  - ii) Indian Electricity Rules
  - iii) BIS & other standards as applicable
  - iv) Workmen's compensation Act
  - v) Statutory norms prescribed by local bodies, Power supply co., etc.
- 19.2 Nothing in this specification shall be construed to relieve the successful tenderer of his responsibility for the design, manufacture and installation of the equipment with all accessories in accordance with currently applicable statutory regulations and safety codes.
- 19.3 Successful tenderer shall arrange for compliance with statutory provisions of safety regulations and departmental requirements of safety codes in respect of labour employed on the work by the tenderer. Failure to provide such safety requirement would make the tenderer liable for penalty of Rs. 500/- for each default. In addition, the department will be at liberty to make arrangement for the safety requirements at the cost of tenderer and recover the cost thereof from him.
- 20.0 Indemnity
- The successful tenderer shall at all times indemnify the department, consequent on this works contract. The successful tenderer shall be liable, in accordance with the Indian Law and Regulations for any accident occurring due to any cause and the contractor shall be responsible for any accident or damage incurred or claims arising there from during the period of erection, Maintenance and putting into operation the equipments and ancillary equipment under the supervision of the successful tenderer in so far as the latter is responsible. The successful tenderer shall also provide all insurance including their party insurance as may be necessary to cover the risk. No extra payment would be made to the successful tenderer on account of the above.
- 21.0 Erection Tools
- No tools and tackles either for unloading or for shifting the equipments for erection purposes would be made available by the department. The successful tenderer shall make his own arrangement for all these facilities.
- 22.0 Cooperation with other agencies
- The successful tenderer shall co-ordinate with other contractors and agencies engaged in the Maintenance of buildings, if any, and exchange freely all technical information so as to make the execution of this work/contract smooth. No remuneration should be claimed from the department for such technical cooperation. If any unreasonable hindrance is caused to other agencies and any completed portion of the work has to be dismantled and re-done for want of cooperation and coordination by the tenderer during the course of work, such expenditure incurred will be recovered from the successful tenderer if the restoration work to the original condition or specification of the dismantled portion of the work was not undertaken by the tenderer himself.
- 23.0 The work will be carried out with least disturbance during shifting & shut downtaken in consultation with the client department.
- 24.0 Verification of correctness of equipment at Destination
- The contractor shall have to produce all the relevant records to certify that the genuine equipments from the manufacturers has been supplied and erected.
- 25.0 Painting
- This shall include cost of painting of the entire installation.
- 26.0 Maintenance
- 26.1 Sufficient trained and experienced staff shall be made available to meet any exigency of work during the guarantee

period of 1 year from the handing over of the installation.

## 27.0 Interpreting specifications

In the case of discrepancy between the schedule of Items, the specification and/ or the drawings, the following order of preference shall be observed:-

- (a) Schedule of Work.
- (b) Specific Conditions.
- (c) General Terms and Condition.
- (d) Drawings.
- (e) CPWD Specifications.
- (f) NBC – 2026
- (g) Indian Standard Specifications of B.I.S.
- (h) Special conditions & additional condition mentioned in part-C of NIT
- (i) *General Terms & Condition mentioned in part-C of NIT*

However, the order of preference provided is in general and higher of specifications available in above documents/acts/codes shall be followed. Contractor is advised to quote the rates accordingly keeping in mind that highest of specification available shall be adopted.

- 28.0 General Terms & Condition, Special conditions & additional condition mentioned in part-B of NIT (i.e. Civil Component of work) shall also be applicable for part-C of NIT as well if not specifically mentioned in Part-C of NIT.
- 29.0 For all Extra items OR deviation items payable at market rates, contractor shall submit copy of original Invoice of material along with proof of payment (i.e. RTGS receipt, bank statement etc).
- 30.0 Contractor shall get approval of Makes & Models of material before their use at site. The technical specifications / catalogue shall also be submitted along with submission for approval. In case unapproved material is found to be used / installed at site or kept at site store for installation, department shall not only confiscate such material but also be at liberty to recover cost for removal of material from site from contractors bill.
- 31.0 List of Acceptable makes has been provided in NIT. For each item to be used at site, contractor shall submit model number for each item of minimum three different make for approval by Engineer-in-charge. Only approved make & model/material shall be used at site. Any material found at site which has not been approved can be rejected and shall not be paid. Contractor will be solely responsible for non-payment due to use of non-approved material. The submission for material approval shall be minimum two weeks before its use at site.
32. No drawing/technical details submittal shall be accepted through email. Hard copy of drawings duly signed by Contractor's Engineer will only be approved
33. In case of any discrepancy in the size of the items elaborated in the BOQ, the material of next higher size available in the market to that of the size specified in the BOQ shall be provided without any extra cost.
34. If the material specified in the BOQ become non available due to technology advancement or otherwise then the product of better specifications shall be accepted provide there is no functional change of requirement without any extra cost.
35. In case of variation in the light fitting wattage/specifications then the fittings having more lumens per watt shall be preferred and better specification products shall be accepted.
36. In case of any discrepancy/Non availability about the availability of material of requisite specification/size/design as per BOQ the same shall be brought to the notice the deptt. within one week from the publication of bid, otherwise it shall be deemed that the Agency has no objection about the size/design/ specification of the material as depicted in the BOQ. In that case, the item of higher/better specification/size shall be provided during execution without any extra cost and without alteration of the functional requirement.

Executive Engineer (E&M) Jodhpur

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## **GENERAL TERMS AND CONDITIONS**

Name of Work – **Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.**

1. The work shall be carried out as per CPWD specifications and direction of Engineer-in-Charge.
2. All workers will have to follow the strict rules of GPOA, Inspection Bungalow, CPWD Quarters, Central Excise and Custom Department at Jaisalmer, Chohtan, Gadra Road and Income Tax Department at Barmer, Balotra
3. The contractor has to keep the sensitiveness of site in mind while execution of the work and deployment of staff.
4. The contractor shall submit the details of worker as per scope of work within 7 days of issue of performance guarantee letter. These workers shall be interviewed by AE(E) in charge of work or any other representative authorized by Engineer-in-charge. The contractor can depute this worker only after getting clearance from AE(E). During contract period, in case this worker is not found fit, the contractor will engage substitute within 07 Days. The Staff engaged by the contractor shall have to abide by all the security norms laid by the GPOA, Inspection Bungalow, CPWD Quarters, Central Excise and Custom Department at Jaisalmer, Chohtan, Gadra Road and Income Tax Department at Barmer, Balotra authorities and permanent address of the worker shall be given in advance to Engineer in-charge for verification and entry pass etc.
5. The contractor is free to change the staff employed by him at the site by giving 15 days notice in advance and the proposed changed staff shall be technically proficient and of sound behavior.
6. The contractor shall provide first aid box facilities for his staff at site in case of failure an amount Rs. 1000/- per month shall be recovered from running bill subject to maximum Rs. 250/-
7. Any damage done to the equipment, Building, during, maintenance shall be the responsibility of the firm.
8. No staff shall leave his duty unless relived by his relievers. Engineer-in-charge reserve the right to retain the staff for next shift if relievers fail to turn up. The OTA applicable in this case shall be borne by the contractor.
9. Only authorized service Engineer and trained staff shall be deputed for repairs/checking of
10. Special Item i.e. D.G.Set.

Only authorized service Engineer and trained staff shall be deputed for repairs/checking

10. In case of any staff found absence from duty, the recovery will be made at the following rates from the contractor bill.
  - a.. Skilled labour/Wireman/Operator/ – Rs.1562/-per staff/shift.
  - b. Skilled labour/Khallasi – Rs.1112/-per staff/shift.
11. In case not attending one complaints, the recovery will be made at the following rates from the contractor bill.
  - a) Rs.500/- per complaint
12. In scope of work following staff shall be deputed by contracator with following qualification & experience
  - a) Wireman cum Pump/DG Set/ CCTV Operator – ITI or equivalent Technical Qualification in Electrician Trade and Minimum 3 year Experience in Maintaining the Internal & External Electrical Installations of Govt Buildings.
  - b) Khallasi - 10th Passed and Well versed in Maintaining the Internal & External Electrical Installations of Govt Buildings.

13. Sundry material such as soap, duster, broom, old dhoti, cotton waste fuse wire, PVC tape, Grease, Test Lamp, Torch, cleaning material etc. required for the work shall be arranged by the contractor with in their quoted rates.
14. All the installation/equipments shall always be maintained by the contractor in proper working condition i/c cleaning.
15. No Contractor or his staff shall be allowed to use or shall stay in service centre, pump house, switch room, D G set room and as such other place at site after duty hours.
16. The contractor will have to arrange his own T & P required for the work within the scope of work. The department will not arrange any T & P and nothing shall be paid on this account.
17. The contractor will be fully responsible for the conduct of the staff deputed at site. The Engineer in- Charge reserves the right to ask the contractor to remove any of the staff without assigning any reason what so ever Decision of the Engineer-in-Charge shall be final and binding on the contractor.
18. Conformity with statutory acts, rules, standards and codes All electrical works shall be carried out in accordance with the provisions of Indian Electricity Act, 2003 and Indian Electricity Rules, 1956 as amended up to date. They shall also conform to CPWD General Specification for Electrical Works, part-I (internal, 2023 and Part-II (External), 2023 and Part-IV (Sub Station)2013 as amended up to date.
19. Safety codes and Labour Regulations:- (a) In respect of all labour employed directly or indirectly on the work for the performance of the contractor's part of work, the contractor at his own expense, will arrange for safety provision as per the statutory provisions, B.I.S. recommendations, factory act, workman's compensation act, CPWD code and instruction issued from time to time. Failure to provide such safety requirement would make the tenderer liable for penalty for Rs. 200/- or as mentioned in schedule F whichever is higher for each violation. In addition the Engineer-in-charge, shall be at liberty to make arrangements and provide facilities as aforesaid and recover the cost from the contractor.
- a. The contractor shall provide necessary barriers, warning signals and other safety measures while executing the work or wherever necessary so as to avoid accidents. He shall also indemnify CPWD against claims for compensation arising out of negligence in this respect. Contractor shall be liable, in accordance with the Indian law and Regulations for any accidents occurring due to any cause. The department shall not be responsible for any accidents occurred or damaged incurred or claims arising there from during the execution of work. The contractor shall also provide all insurance including third party insurance as may be necessary to cover the risk. No extra payment would be made to the contractor due to the above provisions thereof.
20. The staff employed by the firm for the maintenance works shall wear proper uniform (Shirt, trouser and Safety Shoes). Nothing extra shall be paid on this account. The Monogram/ badges shall be fixed on the uniform. The contractor shall have to arrange for issue of identity cards as per direction of the Engineer in charge for all the staff members deployed within one week of the start of the work at his own cost and also submit two extra photographs with full address of each worker for record. If contractor fails to do so, the department shall recover Rs.50/- per day/per person maximum upto Rs.1000/-per month for this default from the monthly bill.
21. Any damage caused due to negligence of contractor during the routine maintenance shall be of firm responsibility. The firm will made good the same within quoted rate.
22. In case of any mis-happening due to any reason, the contractor will be fully responsible for his deputed staff. No claim shall be admissible on this account.
23. The department shall be at liberty to discontinue/cancel the contract/agreement if the work found unsatisfactory without giving any notice in accordance with the above terms and conditions or otherwise, without assigning and reason thereof. Decision of Engineer in charge shall be final and binding on the contractor for which no claim in any account shall be entertained by the department.
24. Shift timings can be changed as per the requirement at site and as per the decision of Engineer in- Charge.
25. The contractor has to carry out the routine / preventative maintenance as per CPWD specification & maintenance manual.
26. The Engineer-in-charge reserves the right to ask the contractor to remove any of the staff without assigning any reasons what so ever. The decision of the Engineer-in-charges shall be final and binding on the part of the contractor.
27. Nothing shall be paid extra on account of cartage of material.
28. The staff, deputed at site, shall carry out the following in course of operation/maintenance work:
  - i. Servicing & up keeping of equipment such as, Control Panel, Busbar, cables, starter, motor, pumping set and associated installation as required in accordance with maintenance, routine & specific as required.

29. Boarding and lodging of the personnel of the contractor will be the responsibility of the contractor. The arrangement will not be permitted inside the campus.
30. All installation shall be kept clean and safe from risk of fire/theft/accidents and damages etc.
31. The Contractor will keep department indemnified against all losses or damage or liability arising out of/or imposed in the context of employment of person by him.
32. The firm must observe all the necessary precautions/measures so that there should not be any breakdown during the meeting/conferences/events. The firm has to attend to any fault immediately or has to provide suitable alternative immediately so that programmes/ proceedings should not be disturbed.
33. The Firm /Contractor shall maintain wage record of workers and he should pay minimum wages as prescribed/amended by the Labour Department/Ministry Govt. of India. In case wages are revised, firm has to pay revised minimum wages.
34. The contractor will pay the salary through RTGS/online transfer (As per minimum wages in workers bank account and submit the receipt of same to the Engineer-in-Charge. EPF /ESI contribution paid to the contract workers, if any, shall be reimbursed on actual basis on production of proof of payment. Documentary evidence if required shall be submitted to department. Contractor has to make payment of EPF/ESI contribution into workers account by 15th of each month.
35. GST as applicable has been considers in this NIT and if any changes are made in GST rate by Govt. the same shall be effected from date of order.
36. The recovery such as Income Tax, Cess & GST etc. shall be made from the contractor Bill as per Govt. rules.
37. The rates should be quoted inclusive of all taxes, GST, levies, cartage etc., Nothing extra shall be paid by the department.
38. The payment shall be made to the firm at regular interval such as quarterly. However it may be delayed due to any reason like non-availability of funds, LOC and other unforeseen reasons, the firm shall not claim anything extra in such contingencies but shall continue the work.
39. EPF and ESIC shall be paid by the contractor to the concerned department on demand and it will be reimbursed to him by the Engineer-in-charge after satisfying documentary proof that it has been actually and genuinely paid by the contractor.
40. The contractor staff has also to fill log book as per the prescribed norms of the department & submit the same to the department. The log book, Complaint Register, Attendance Register and other register shall be arranged by the contractor for different locations separately and nothing extra shall be paid on this account.
41. The work shall be carried out strictly in accordance with CPWD specifications for electric works 2023 (internal) and 2023 (external) as amended upto date and also in accordance with Indian Electricity Rules 1956 and Indian Electricity Act 1910 as amended upto date and as per the instructions of the Engineer – in – charge.
42. Staff deployed shall carry identity cards which shall be shown to the security staff on demand. No staff without identity cards shall be allowed to the work. In case of failure, a token penalty @25/-per person per shift shall be imposed and recovered directly from the agency's bill.
43. Additional staff as and when required i/c that for maintenance jobs to be done preferably on Sundays/Holidays/off hour shall be arranged and deputed by the contractor for due performance of jobs nothing extra shall be payable on this account.
44. The contractor shall be responsible to maintain records and furnish data about the mandatory test i/c insulation and earth tests of all the installations as per the CPWD Specifications or rules.
45. Nothing extra shall be payable to the contractor on account of carriage/handing of the materials issued by the depts. at CPWD store as per terms and conditions.
46. The contractor shall maintain proper record of received of materials issued by the depts. and also about the use of the same at site as required failing which panel rate recovery against discrepancy if any noticed by the Engineer -in-charge shall be imposed upon the contractor.
47. The contractor shall deploy staff throughout the period of contract including Saturday, Sunday, Gazetted and National Holidays., for which no extra payment will be made by the department.
48. The department will not be a party in event of any dispute between contractor and his staff on legal matters. The contractor is fully responsible for any dispute between him and his labour / staff.
49. The contractor shall bound to abide by all labour laws & shall pay minimum wages as per act under force to the deployed labour latest by 7th day of every month through bank. If payment is not made upto 7th day of every month



- an amount Rs.100/- per day per person shall be recovered from agencies RA bill for each default subject to maximum of Rs.10,000/- per month.
50. Attendance for staff deployed shall be marked through IRIS based BioMetric machine only. For this purpose supply and fixing of biometric machine at One location shall be provided by Contactor. The attendance of employees shall be marked Two times in a shift through biometric machine. The failure to mark such attendance by the employee shall be considered as absent. Maintaining Bio-matric in good working condition shall be responsible of contractor. In case contractor fails to install bio-matric machine or does not maintain it in working condition beyond on day, Rs. 50/- Per day shall be recover from R.A. Bill subject to Max of Rs. 1000/- Per Months.
  51. Biometric machine shall be provided by the contractor and nothing extra shall be paid by the department
  52. Biometric attendance shall be verified by the authorized person of the client department and same there be submitted to the Engineer in charge in each running bill.
  53. The recovery on account of non-conducting the periodical checks/ test as mentioned in NIT shall be imposed as under:-
    - a. For non-conducting the daily Checks @ Rs. 50/- per day per check.
    - b. For non-conducting of Monthly checks/ test @ Rs. 2000/- per set of monthly check/ test.
    - c. For non-conducting of Half Yearly checks/ test @ Rs. 4000/- per set of half yearly check/ test.
    - d. For non-conducting of Yearly checks/ test @ Rs. 6000/- per set of yearly check/ test.
  54. Following Documents are to be submitted by contractor before start of work :-
    1. List of Personal to be deployed at site.
    2. Duty Roster of these Personal.
    3. Qualification certificate for above persons.
    4. Police Verification
  55. Following documents are to be submitted alongwith RA bill without which bill shall not be considered for payment:-
    1. Copy of attendance sheet/ report of BioMetric machine.
    2. Payment slip of workers deployed at site
    3. Proof of payment of EPF/ESI of previous month.
    4. Service Report for respective system.

**In case above documents are not submitted alongwith RA bill Rs.5000/- per document shall be withheld from running bill which shall be released only after production of these documents.**
  56. For maintenance of installation, provisions of NBC-2026, Volume-2, part-12 shall be followed apart from provisions already covered in NIT.
  57. If T&P mentioned at schedule 'F' is not found at site and if work requires such T&P same shall be procured by the dept. & cost thus incurred shall be recovered from contractor's bill.

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CPWD, Jodhpur

### **SPECIAL TERMS & CONDITIONS FOR E&M SERVICES / WORK**

1.	The contractors are advised to visit O/O Assistant Engineer (E ) Jaisalmer CPWD to have an idea of Site and Status of E&M installations ; failure to do so will not absolve their responsibility to do the work as specified in agreement.Further all The E&M installations in the Building premises for which Manpower shall be deputed at Site by the contractor for day to day mantainance is deemed to be included in scope of work for attending the complaints .It is re iterated that Agency may visit the Site before quoting the rates .
2.	All maintenance as well as repair /addition alteration /modification work will be strictly carried out & followed as per CPWD Maintenance Manual 2023 amendment upto date for all relevant E&M service
3.	No T&P shall be issued to the contractor.
4.	All the material to be used on this work by the contractor shall be got approved from the Engineer-in-Charge before supplying at site.
5.	The bad workmanship will not be accepted and defects shall be rectified at contractor's cost to the satisfaction of the Engineer-in-Charge. The electrical works are to be executed in coordination with the building work and no claim for idle labour will be entertained.
6.	All the debris of the works should be removed and the site should be cleared by the contractor immediately after accumulating of debris. Similarly, any rejected material should be immediately cleared off from the site by the contractor and will be dumped at places notified by local authorities.
7.	The contractor shall make his own arrangement at his own cost for all tools and plants required for smooth and prompt functioning of work.
8.	The contractor will store, at any point of time, at least 10% of stock of material required for comprehensive maintenance /ARMO/ Minor work/ up gradation & Watch and ward of same will be responsibility of contractor.
9.	The work shall be carried out in such a manner so as not to interfere or effect or disturb other works, being executed by other agencies, if any. He shall arrange his work with that of the other in an acceptable and coordinated manner and shall perform it, in proper sequence to the complete satisfaction of the Engineer-in-Charge. Any damage done by the contractor to any existing work shall be made good by him at his own cost. Otherwise the same shall be got done at his risk and cost.
10.	The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners/ tenants of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of smoke, streams and waterways. He shall make good at his cost and to the satisfaction of the Engineer-in-Charge, any damage to roads, paths, cross drainage works or public or private property whatsoever caused by the execution of the work or by traffic brought thereon by the contractor. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants/users of adjoining buildings.
11.	Any damage to the Govt. Property shall be made good by the Contractor and nothing extra shall be paid on this account.
12.	The detail of Staff Deployed Shall be Submitted to Engineer In Charge in advance so that the same details can be provided to Client Department for their approval (If any ).The character and antecedents of staff employed by the contractor shall be got verified from the police by the contractor.
13.	The staff engaged by the contractor should be well behaved, polite and courteous. Any complaints against staff misbehavior should be taken very seriously and such staff should be removed by the contractor immediately from the site and arrange replacement for the same failing which the Engineer-in-charge has the power to cancel the contract and the contractor shall have no right to claim of loss/compensation.
14.	Safety of the staff employed will be the responsibility of the contractor. CPWD will not be responsible for any mishap, injury/accident or death of the staff. No claim in this regard shall be entertained/accepted by the Department.

15.	The work may be assign in restricted area and time due to security reasons. The contractor shall be bound by the instructions of security staff and Engineer-in-Charge in this respect.
16.	The contractor shall provide details of Staff to be engaged containing information's like name, father's name, residential address and Date of Birth of staff alongwith recent passport size photograph, residential address and identity proof etc. as may be required.
17.	All the complaint registers, log books, Stock Registers, dismantle material registers, Task Registers, workers diary, test result registers or any other record pertaining to work shall be supplied by the contractor and will be maintained by the staff of the contractor which will be handed over to the department on the completion/ termination of the contract.
18.	The contractor shall monitor the complaints lodged by the occupants of Various Clients/ Departments, by any mode such as verbally, telephonically, CPWD e-Sewa website etc., by receiving, attending and closing the case with suitable remarks, after duly attending the complaints. Computer & Operator shall be of the firm's responsibility.
19.	The scope of work for E&M services as stipulated in NIT may vary or deviated which is deemed in scope of work at the time of execution. The Contractor has to arrange required material and men power accordingly without any additional cost to maintain all the services.
20.	Safety of staff will be the responsibility of the contractor as per labour law. The department will not be a party in such litigation in any situation/condition
21.	The contractor or his representative is bound to sign the site order book as and when required by the Engineer-in-Charge and to comply with the remarks therein.
22.	All staff employed by the contractor should be issued uniform, name badges and identity cards by the contractor. The staff deployed by the contractor should wear neat and clean uniform daily otherwise recovery shall be made @ Rs 100/- per person per day.
23.	The contractor shall make his own arrangement for transportation of men & material from one site to another. He will also make necessary arrangements for delivery of material, transportation of dismantled material from site to designated store i/c packing and forwarding and nothing extra shall be paid on this account.
24.	After the expiry of the contract, the firm shall have to hand over complete installation to the department in healthy & proper working /functional order. All defects and deficiencies shall have to be rectified by the firm to the entire satisfaction of Engineer-in-charge failing which, the work shall be got done at the risk and cost of the firm.
25.	The Contractor shall provide all necessary tools and plants to his workmen nothing extra will be paid on this account.
26.	In case any accidents during the Operation / maintenance of the equipment leading to injuries / damages to human beings / equipments and / or loss of life , the contractor shall be fully responsible for settling all claims and indemnify the department against any claim arising out of such accidents.
27.	The contractor shall arrange to render efficient services as outlined above. However in case he fails to maintain the services to the satisfaction of the Engineer-in-charge and the department has to incur any expenditure to maintain the installations by alternative arrangement the expenditure thus incurred will be recovered from the contractor, for which decision of the Engineer-in-Charge shall be final and binding.
28.	The contractor shall take all precaution for safety of the workmen. If any accident/mishap occurs, the department shall not be responsible for the same. Consequently any compensation payable shall be at the contractor's cost
29.	If any staff is found unfit for duty due to any circumstances, the contractor shall replace such staff immediately (within 24 Hrs) of reporting by Engineer-in-Charge or his authorized representative.
30.	The contractor shall not remove any of his staff deployed at site without the permission of Engineer-in-Charge or his authorized representative. The contractor shall clear all pending dues of all such workman under intimation of which to Engineer-in-Charge or his authorized representative before his removal from work.
31.	The multidiscipline skilled labour (i.e. Wireman/Pump Operator/DG Operator /Lift Operator/Fire Technician/AC Plant operator) to be deployed shall have minimum basic

	knowledge of all above E&M equipments and will be well familiar with the running and operation of all above E&M Services and having 3 years experience. In case of major breakdowns he will report the same to Engineer-in-charge and he will also assist to the specialized agencies engaged for attending of all such breakdowns.
32.	All the cleaning material i.e. soap, duster, PVC tape roll etc. shall be arranged by the contractor at his own cost, for cleaning of Electrical Installations & fans, switch gears, DBs, Panels, Water supply pumps, DG Sets, Sub Station Equipments, VRV/VRF, Air-conditioners, UPS, Water Coolers and all other Equipments/ accessories/pipe lines etc. associated with above E&M Services. The contractor shall also be responsible for cleaning of substation rooms, AC Plant rooms, Lift machine rooms, Pump rooms, AHU Rooms etc., If cleaning of installation is not found satisfactory at any time, a recovery of Rs. 500/- per occasion per site shall be made from the bill of contractor.
33.	The contractor shall prepare a site wise “fortnightly/Monthly” duty chart with name and duty hours stated therein. The same shall be submitted to the JE (E) / AE (E) concern at least seven days in advance for approval.
34.	It shall be entirely the responsibility of the contractor to ensure that no unlawful act is conducted by his persons while on duty. In case any theft/ loss of departmental property takes place due to the negligence or carelessness of his personnel, the contractor will be held responsible to compensate for all such losses. The aforesaid terms and conditions shall be read in conjunction with the general rules and directions for the guidance of Contract form PWD -7/8.
35.	The contractor shall provide one valid mobile number at each site & same will be displayed at enquiry office / JE office / Pump Room and Lift and will also be informed to client department. Contractor shall not change the mobile nos. during the stipulated period of agreement. If mobile is found switched off for more than One hour, recovery shall be made @ Rs 100/- per occasion per day.
36.	The contractor has to take over the site from JE-in-charge as per the inventory. After completion of work contractor has to hand over the site to J.E. in charge of site. In case the contractor does not sign the inventory within 7 (Seven) days of taking over of site, it will be presumed that the site has been handed over to him as per inventory of site available with concerned JE and no claim for shortage of material / item at the time of handing over back to department will be entertained.
37.	The contractor shall make his own arrangement of tools for maintenance of Sub Station/Electrical Installations equipments& one set of minimum following T&P shall always be available at each site of work by the contractor:-
38.	Test lamp
	Multi Meter
	Lux Meter
	Line tester
	Tongue tester
	Vernier calipers
	Screw Gauge
	Wire gauge
	Measurement tape (3 Mtr/5 Mtr& 15 Mtr.)
	Rubber Gloves of 11 KV
	First Aid box
	Crimping tool kit with die
	Megger (5 kV HT and 500 V LT)
	Digital insulation tester
	Digital earth tester
	Spanner set
	Screw driver set
	L-N Key set
	Blower

		Hammer Drill Machine
		Pipe wrench
		Different size of aluminum ladders for maintenance of street lights, ceiling fans at different heights.
		Plier (Both Normal & nose plier)
		The above T&P items will be stored by the contractor under his watch and ward at Site and the Items will be taken in use by their deployed workers at site. In case the above items are not available at site then a recovery of Rs. 200/- per day shall be made from the contractor bill.
39.		The quantity & item stipulated in schedule of quantity of each work is tentative and indicative hence subjected to variation. Payment of only those quantities will be made which is actually executed at site.
40.		The labour deployed at one site can be shifted to other site in same city as per requirement and nothing extra shall be paid on this account.
41.		The contractor will keep the account of all the works executed at site / material or spares replaced at site duly verified by the representative of client department & also by CPWD officer not below the rank of JE(E). Payment of all the works / jobs / replacements carried out by the contractor will be made only on the basis of production of record as above.
42.		The contractor will execute the work in office / residential areas as per the convenience of occupants of building and nothing extra shall be paid on account of wastage /idle labour for any reasons.
43.		The contractor shall maintain separate records of all periodic, breakdown & preventive maintenance work carried out by him in various E&M equipments like DG Set, Air Conditioning System, Lift, Sub Station, Electrical Installation, Fire Alarm System, Fire Fighting System, CCTV System, , EPBAX System, etc.
44.		The contractor shall maintain the readings of various measuring instruments in prescribed format. The contractor shall also maintain separate Log Book for each service like Pump Set, DG Set, Air Conditioning System, Lift, Sub Station, Electrical Installation,
45.		The contractor shall make suitable standby arrangement of water supply pump set & Air conditioners in case of major break down in existing equipments.
46.		The comprehensive and break down maintenance work of specialized services like DG Set, Air Conditioning System, Lift, Sub Station, EPBAX, System etc. shall be carried out through the OEM of respective equipments or their authorized service agents / channel partners / service vendors only(As per Condition of NIT For Associating Agency for Specialized services). The contractor shall produce authorization certificate of OEM at each occasion in case of service agents / channel partners / service vendors of respective equipment engaged for attending of complaint / maintenance work. A service memo containing the details of works carried out by them during attending of complaint / maintenance work shall be issued by all such OEM of respective equipments or their authorized service agents / channel partners / service vendors whenever visited at site.
47.		The contractor shall ensure that any spare part replaced from any E&M equipment shall be of same make which is installed at site or as per the recommendations of OEM / approval of Engineer in charge.
48.		The contractor shall also maintain the record of dismantle material at site and dismantle material shall be handed over to him against buy back discount only after due verification by representative of department of the rank not less than JE(E).
49.		In case of major break down the staff deployed by contractor at site may be asked to stay beyond their duty hours whenever required and nothing extra shall be paid on account of this.
50.		The contractor shall ensure that no water logging take place at site due to the scope of his own work. In case any fine is imposed by local authorities for breeding of dengue etc. will be borne by the contractor.
51.		The contractor shall supply the material only as per the attached list of approved makes. For items not covered in this list will be provided only after the approval of Engineer in charge.
52.		In case the site of some work may not be available at any stage, the contractor shall make necessary arrangements of labour& material etc. of those sites in accordance to the availability

	of site in consultation with Engineer in charge only.
53.	The complaints lodged shall be attended within 12 Hrs. of lodging. Emergency complaints like leakage of Electric currents, sparking, short circuiting, Fire and No electricity shall be given priority and will be attended within 2 Hrs. of lodging. Failure of which shall attract a penalty of Rs. 500/- per complaint per day. The complaint can be lodged through writing /telephonically /text message/orally shall be treated as registered complaint at the time of communication of same to contractor staff.
54.	The sundry material like hole fastners, dash fastners, nuts bolt, screws, washers, fan rubber reel/Fan cotter pin, PVC tape, saddles, tie, clip for wire/cables, mobil oil, grease, gland dori, PVC Seals, Rubber bushes, old dhoti, detergent, cement and sand for minor repairs etc. should be made available by contractor free of cost & nothing extra shall be paid by department on this account.

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## **SPECIFIC CONDITIONS**

### **A. FOR ELECTRICAL INSTALLATION**

1. All hardware items such as screws, thimbles, G.I. wires etc. which are essentially required for completing an item as per specifications will be deemed to be included in the item even when the same have not been specifically mentioned.
2. All hardware materials such as nuts/bolts/screws/washers etc. to be used in the work shall be zinc/cadmium plated iron.
3. Any conduit which is not be wired by the contractor shall be provided with GI fish wire for wiring by some other agency subsequently. Nothing extra shall be paid for the same.
4. While laying conduit, suitable junction boxes shall be left for pulling the wires.
5. Copper wire shall be FRLS PVC insulated multi-stranded conductor. Termination of multi-stranded conductors shall be done using crimping type thimbles at both the ends. Nothing extra shall be paid for the same.
6. Material to be used in the work shall be ISI marked. The makes of material have been indicated in the list of acceptable makes. No other make will be acceptable. The material to be used in the work shall be got approved from the Engineer-in-Charge before its use at site. The Engineer-in-Charge shall reserve the right to instruct the contractor to remove the material which, in his opinion, is not as per specifications.
7. Where switches/sockets/telephone outlets are to be provided, the same shall be of only one make and GI box shall be of same make as Modular switch/socket.
8. The earthing shall be carried out in the presence of the Engineer-in-Charge or his authorized representative. Earthing shall be accepted only after verification of earth resistance at site by Engineer-in-charge or his authorized representative.
9. All fittings/fans will be earthed as per specifications.
10. Sockets used shall be interlocking shutter type.

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### **SHOP DRAWINGS & SPECIFICATIONS**

1. The Contractor shall submit to the Engineer - in -Charge two copies of Shop Drawings for Electrical work for approval before start of work. Subsequent to the approval of the shop drawings, the Contractor shall submit six copies of Shop Drawings for execution to the Engineer-in-Charge.
2. Shop drawings shall be submitted for the following conditions:
  - (a) Conduit layout plan
  - (b) Layout plan indicating location and heights of all fitting, fixtures
  - (c ) Single Line Diagram for Distribution Circuit starting from Main Supply till DBs indicating capacities of components.
3. The Contractor can only commence the work after the approval of above documents by Engineer-In-Charge.

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### **COMPLIANCE TO MAKE IN INDIA POLICY**

1. Public Procurement (Preference to Make in India) order 2017 issued by competent authority of Government of India shall be implemented during selection of materials and execution of work accordingly. Any Manufacturer if not included in the approved make list, may be considered by the Engineer-in-Charge provided such manufacturers comply the above policy along with their product meeting the specifications and other details of the required item.
2. All the material supplied by the Agency should be in line with the Make in India guidelines, if there are some makes fulfilling the specifications & Make in India guidelines, then same should be brought to the notice of this office for necessary action.

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### List of approved makes to be Followed

S.No	Details of Materials/Equipment	Manufacturer's name/make
	<b>I.E.I, MCBDB &amp; MCB, Cables and Wires</b>	
1	MCB, Isolator, Industrial Plug Socket, RCCB, RCBO's.	Schneider Electric ACTI-9N/ Legrand(DX3)/L&K(Axora)/Siemens(Betagard)/ABB(SB 200M)/Hager
2	MCBDB & Loose Wire Box.	Legrand (EKINOX3)/ Schneider Electric ACTI-9N /ABB (ITUS)/Siemens (Simbox63)/ Hager (Novello)/ L&K(Axora)/
3	Change Over Switch.	L&T/Havells/HPL/C&S/Legrand/ABB/Hager
4	Automatic Transfer switch(ATS)	Cummins/Asco/Russelectric/ABB/ L.K /GE
5	FRLS PVC insulated copper conductor single core cable for wiring (ISI marked).	Finolex/RR Kabel/ Havells
6	Armoured/Unarmoured telephone cable and Co-axial cable	Delton/Finolex/RR Kable/Bonton/ Havells
7	MS Conduit (ISI Marked) with Heavy Duty MS conduit pipe Accessories.	BEC/NIC/AKG/RMCON/Steel Kraits
		Note:- All Ms conduit pipe accessories will be same make as that of conduit pipe and will comply to IS/4768 part 2 2003
8	PVC conduit (ISI Marked) with heavy duty PVC conduit pipe accessories	AKG/Norpack/BEC/Polycab/Precision/Finolex/Astrol
9	Modular switch, socket/Telephone socket/cable TV socket/Data outlet socket/fan Regulator/GI Boxes and cover plate, blanking plate, Modular MCB etc.	Legrand (Myrius)/Schneider Electric (Zencelo)/Honeywell (Blenz Pro)/ABB(IVIE)/Wipro (North West Platia)Hager (Insysta)/Havells (Murano)
10	PVC Trunking/DLP Trunking	MK(Honeywell)/Legrand/ Schneider/Hager./OBO Betterman
11	G.I/MS pipe	Tata/Jindal(Hissar)/Prakash Surya
12	Synthetic enamel paint	ICI Dulux/Asian/Nerolac
13	Terminal Blocks and Connectors	Elmex/Wago/Hensel/Connectwell/Essen/L&T
14	Phenolic Laminated Sheet/Bakelite Sheet	Hylam/Formica/Greenlam
15	Cat-6 Cable/Wire & Fiber Optic Cable/CAT 6A	Amp/Avaya/Beldon/Legrand/Delton/Molex/Agilon
16	XLPE insulated PVC sheathed Al./Copper Conductor Armoured /Unarmoured cable of 1.1 KV grade.	Finolex/RR Kable/ Havells
17	GI/Copper Strip and Earthing material	Bharti/Indiana/Slotco
18	Industrial type socket outlet/DP Plug assembly	LK/ABB/Havells/Legrand/ Schneider
19	Occupancy Sensor/Lighting Control System	Philips/Schneider/Legrand/Siemens
	<b>Fan &amp; Fittings, Street Lights</b>	
20	LED fittings	Philips/Trilux/ Havells/Lighting Technology/ Wipro/Regent
21	Exhaust Fan/Fresh Air/Wall Fan	Havells/ Usha/Almonard/ Orient/Alstom
22	Ceiling Fan	Havells /Usha/Orient
23	Wall Bracket Fitting(LED)	Havells/Philips/Jaquar/Trilux/LT/ Wipro/Decon

24	Lamp/Fluorescent tubes/T5 Fluorescent tubes/LED lamp	Philips/Osram/Havells/ Wipro
25	Geysers	Havells/Racold/AO Smith/Venus/Jaques
26	LED Post Top fitting/street light /Floodfitting	Havells/ /Philips / KeselecSchreder/ Lighting Technology/ Osram/ Wipro
27	LED street lights with inbuilt Solar panel and controller	Havells/ /Philips / KeselecSchreder/ Lighting Technology/ Osram/ Wipro
28	Ornamental M.S & CI Pole(Factory Finish)	KeselecSchreder/ Valmont/ Philips/ Wipro/ Crompton greaves/ Bajaj/Transrail
29	Hot Dipped Galvanized Octagonal Pole(Factory Finish)	Crompton Greaves/Phillips/Valmont/Bajaj/ Wipro/Transrail
30	Polycarbonate Junction Box/Enclosure	Hensel/Spelsberg/Naptune-Bals/Sintex
31	LED Driver	Philips/Wipro/Orients/Osram
	<b>Substation and DG sets</b>	
32	LT panel/Meter panel Board/Outdoor Feeder Pillar/APFC panel(less than 200KVAR)/Bus Duct	Tricolite Electrical Industries/Control & Switchgears Pvt. Ltd./Milestone/Adlec Power Pvt.Ltd./Advance Panels & Switchgear Pvt.Ltd. /Schneider/L&T/Siemens/ Sterling & Wilson/Engineers & Engineers/ Precision System control/Neptune/ Conquent/ SPC/Application Control/Johns panel
33	LT panel(TTA Type)	L.K (Model - TERA)/Schneider (Model - Block Set)/ABB(Model - ArTu K)/Siemens(Model- Siepan 8PU)
34	Air insulated rising main	C&S/ L.K /Schneider/Legrand//Godrej
35	Sandwich type bus trunking	C&S/ L.K /Schneider/Legrand/ Godrej
36	Moulded Case Circuit Breaker (MCCB) Thermal Release/ Microprocessor based (Ics=Icu=100%)	Schneider Electric (CVS Series)/Siemens (VJ Series)/L&T(Dsine)/Legrand(DPX3)/ABB(TMAX)/ Hager
37	Power/Aux. Contactor 3/4 pole	Schneider /L.K/BCH/Siemens/Legrand/ABB
38	Potential Transformers/Current Transformer	Automatic Electric/Gilbert & Maxwell/L&T/Kappa/
39	LED type, Indicating Lamps/Push Button.	Schneider/ABB/L.K/Siemens/Vaishno/C&S
40	Overload relays with built in Single Phase Preventer	Schneider Electric /L.K /Siemens /ABB /C&S /BCH/Legrand
41	Conventional/Electronic Digital Meters(A/V/PF/Hz/KW/KWH)	Conzerv/ L.K /Secure/AE/Siemens/ Schneider/ABB
42	Timer	Siemens/L.K/Legrand/ABB/Schneider Electric/BCH
43	Fasteners/ GI clamp	Hilti/Fischer/Canon /Würth
44	D.W. Corrugated HDPE Pipe(ISI marked)	REX/Tirupati/Supreme/Jain Irrigation/
45	Transformer(Oil/Dry type)	ABB/Schneider/Siemens/Areva/ VOLTAMP/ Crompton/ Kirloskar/
46	HT Panel/Ring Main Unit	Siemens/ABB/ L.K /Schneider/ Crompton
47	HT Cable (ISI Marked).	CCI/Polycab /Universal/NICCO/KEI/ Finolex/Gloster/ Havells
48	HT End Termination/ Cable jointing kit	Raychem/Denson/Cabseal/Safekit/3M
49	ACBs(with display)	Siemens (Sentron 3 WL)/ L.K (U-Power-OMEGA)/ ABB (E maxt 2 / Schneider Electric (Masterpact NW6.0A)/ Legrand(DMX-3MP4).
50	Rubber Mat and Electrical Gloves	Raychem/Honeywell
51	Digital multifunction meter	Conzerv/Siemens/Schenider/Legrand/ L.K / C&S
52	Fire Extinguisher (All types)	Minimax/Safex /Ceasefire/Tyco/ Kanex
53	Capacitor & Reactors/APFC Relay	EPCOS/ L.K /DUCATI/ABB/siemens/Schneider/ Legrand
54	Cable Glands Double Compression with	Baliga Lighting/Comet/Cosmos/Dowell's/Gripwell/

	earthing links	Raychem
55	Bimetallic Cable Lug/Thimble	Comet /Dowell's/Hax Brass(Copper Alloy India)/Schneider/
56	MS/GI cable tray	Schneider/Legrand/MK(Honeywell)/Pilco/slotco/pasco/MEM/ BEC/ steelways
57	Programmable logic controller(PLC)	Siemens/ L.K /ABB/Allen Bradley
58	Selector Switch & Toggle switch	Salzer (L.K)/Siemens/ Kaycee/Rishabh/ABB/Legrand/Schneider
59	DC Power pack Unit	Statcon/Amara Raja/HBL/Thycon India
60	SMF Battery	Exide/Amara Raja/HBL/Amco
61	IDMT Overcurrent and Earthfault Relay	Areva/ L.K /Siemens/Schneider/ABB
62	UPS(Online/Offline)	Numeric/Eaton/APC/Vertiv/Mitsubishi/Delta/ABB
63	Capacitor	Havells/ABB/ Schneider
	<b>Water Supply Pump Sets</b>	
64	Mono Submersible Pump Set	KSB /Grundfoss/ Kirloskar/CG
65	Submersible Pump Set	KSB/Kirloskar/Grundfoss/CG
66	Sluice Valve / Check Valve/ Butterfly valve/ Non Return Valve	Advance/Kirloskar/Sant/Leader/Zoloto/ Audco
67	Submersible Cable	Finolex/ RR Kabel/Universal/ Polycab/ Nicco/KEI
68	DOL Starter	BCH/L&T/Havells
	HVAC	
69	Split Air conditioner	Mitshubshi Electric/Mitshubshi Heavy Industries/ O General /Daikin /i /Carrier/Toshiba
70	Window type Air Conditioner	Mitshubshi Electric/ O General /Carrier
71	Voltage Stabilizer	V Guard / Blue Bird / Voltas
72	VRV A.C (Outdoor/Indoor/Remote Control/Y Joint)	Daikin / Mitshubshi Electric/O General/Carrier
73	Copper Refrigerant Piping	Rajco / Mandev / Totaline/Kwality Tubes/Shree Shyam

Note:

1. Only applicable items as per requirement of the tender.
2. Department reserves the right to reject any material used without Prior approval from Engineer-in-Charge. No payment shall be made for such rejected material.
3. Public Procurement (Preference to Make in India) order 2017 issued by competent authority of Government of India shall be implemented during selection of materials and execution of work accordingly. Any Manufacturer if not included in the approved make list, may be considered by the Engineer-in-Charge provided such manufacturers comply the above policy along with their product meeting the specifications and other details of the required item.
4. For each item to be used at site, contractor shall submit model number for each item of minimum three different make for approval by Engineer-in-charge

Executive Engineer (E&M) Jodhpur  
CPWD Jodhpur

### Schedule of Work

**Name of Work :- Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.**

Item No.	DSR/ MR	Description of Item	Quan tity	Unit	Rate (Rs.)	Amount (Rs.)
1		<b>Part-I: Operation / Routine Maintenance</b>				
1.1		Day to day maintenance & upkeep of electrical and mechanical installations/assets i/c Operations of pump set and DG Sets of various capacities installed at following locations as per as per direction of E-in-C/A.E.(E) deploying following minimum staff at following office buildings as required.				
1.1.1	MR	Holiday Home Jaisalmer & CPWD Guest House, 4 nos. CPWD Quarters Bera Road Jaisalmer (02 No. Wireman cum Pump Operator) & 01 No. Khallasi) = 3 Nos	12	Months	75851.00	910212.00
1.1.2	MR	Income Tax Office & Colony, Barmer (01 No. Wireman cum Pump Operator)	12	Months	28208.00	338496.00
1.2		Day to day Routine Maintenance of Residential and Non Residential building of Central Government organisations by engaging following workers, on as and when required basis, under the jurisdiction of Jaisalmer electrical Sub-division for maintaining building as per provisions included in CPWD maintenance manual. The workers will be required to attend the complaints received through E-Sewa portal or by any other means clean the area of maintenance free from any debries of building rubbish after attending complaint, get the signature of occupants and its feedback in prescribed format including details of material used in the work and deposit the same along with dismantle to the authorized enquiry clerk/computer operator. The cost of necessary Tools and Plants, accessories such as tester, tape, test lamp, crimping tools, ladder etc. is included in the rates so these need to be provided by the contractors to the workers and nothing extra shall be paid on account. Worker engnged for less than one day shall be paid on proportionate basis considering 8 hrs for one				

		day Skilled Labour - Wireman Cum Operator				
1.2.1	MR	Custom & Central Excise Colony,Jaisalmer	100	per day per worker	1080.00	108000.00
1.2.2	MR	Custom & Central Excise office, Jaisalmer	50	per day per worker	1080.00	54000.00
1.2.3	MR	Custom & Central Excise colony and Office,Barmer	100	per day per worker	1080.00	108000.00
1.2.4	MR	Income Tax Office and Colony, Balotra	100	per day per worker	1080.00	108000.00
1.2.5	MR	Custom & Central Excise colony and Office,chohtan Barmer	100	per day per worker	1080.00	108000.00
1.2.6	MR	Custom & Central Excise colony and Office,Gadra Road Barmer	100	per day per worker	1080.00	108000.00
1.3	MR	Fully comprehensive maintenance of 125 KVA DG set installed at GPOA/Holiday home Jaisalmer i/c Sunday and Holidays with cleaning of DG set areas and with preventive maintenance which includes OEM Visit and Health Check Up of DG Set ,electrical panels, removal of miner and major defects of DG set and AMF panels including Completed B Check of DG Set as per OEM Standard which essentially includes the B Check Kit ,replacement of Hose Flexible ,Air Filter ,Primary ,Valvoline Premium Blue 7800 Plus Engine Oil ,Inhibitor,Radiwash,Air Filters (Safety) ,Strainers(Fuels) i/c all service charges and Transportation charges etc i/c repair/ replacement all other defective/wornout parts with new original parts certified by OEM all spares except batteries as per terms and condition.(Make- Cummins )	12	Per Months	5787.00	69444.00
1.4		Fully comprehensive maintenance of 13 Passanger 1 No. lift installed at GPOA/Holiday Home Jaisalmer i/c Sunday and holidays with cleaning of Lift areas, Machine room, lift car etc. and i/c repair/replacement all defective/wornout parts with new original parts certified by OEM (except batteries) and preventing maintenance as per attached terms and conditions.(Make:-M/S Johnson Lifts)	12	Per Months	14185.00	170220.00

2		Part - II : Material				
2.1		Supplying of following electrical accessories and fixtures required for day to day maintenance complete as terms and condition attached (Note: Nothing shall be paid for fixing components as labour component for fixing is included in item No.1, Payment of these items will be made on the basis of actual consumption being recorded on daily basis)				
2.1.1		Supply, of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal( Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value (CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Ceiling Fan compliant to IS 374:2019 fan Supply, earthing etc. complete as req.				
2.1.1.1		1200mm, service value $\geq 6.0$ CM/Min/Watt, air delivery 210 CM/Min (Minimum)	38	Each	2271.00	86298.00
2.1.2	MR	Supply of Heavy duty, 300mm dia exhaust fan with 900 RPM double ball bearing, with energy efficient motor, suitable for 230 volts, single phase AC supply , louver/shutter, bird screen including all accessories etc. as required.	24	Each	3069.00	73656.00
2.1.3		Supply of 250 mm sweep decorative fresh air fan with all accessories, suitable for operation for single phase 230 volt 50 Hz AC supply, fixing in the existing opening, etc. as required.	30	Each	1592.00	47760.00

2.1.4		LED Down lighter (SMD Type) (System lumen efficacy $\geq 105 < 120$ lm/Watt ) Supply of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency $>85\%$ , Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range - 50C to 400C, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD $< 10\%$ , P. F. $\geq 0.95$ , IP20, CRI $>80$ ,UGR (Unified Glare Rating) $< 19$ , Flicker free (flicker should be below 5%), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K /4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) $<3$ , Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105$ and $<120$ lm/Watt output. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body including trim				
2.1.4.1		12 -15 watt	54	Each	432.00	23328.00
2.1.5	MR	Supply of IP20 10 watt SMD Mid Power LED batten type integrated light fixture made from Extruded aluminium housing with in built driver , System lumen efficacy $\geq 110$ lm/Watt output, internal surge protection of 2.5 KV with Short & Open circuit protection ,THD $< 15\%$ , P. F. $\geq 0.95$ , CRI $>80$ , life time of minimum 50000 Burning Hours with , 70% of intial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , Maximum power consumption should not more than the specified rating and Fixture shall be of BIS standard and trade mark certificate ( T.C.).	38	Each	411.00	15618.00



2.1.6		LED Batten light (System lumen efficacy $\geq 105$ <120 lm/Watt). Supply of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency >85%, Operating voltage AC 140 270 Volt, frequency 50/60 hz, Operating temp range -5 °C to 40°C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10%, P.F. $\geq 0.95$ , IP20, CRI >80, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Powder Coated CRCA Sheet Body (Thickness > 0.50 mm) Body (Thickness > 1.20 mm) Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect. Shape size and CCT shall be as approved by Engineer-in Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
2.1.6.1		18-22 Watt	76	Each	351.00	26676.00
2.1.7	MR	Supply of IP65 IK08 rated Integrated SMD Mid power LED 10 W bulk head type light fixture made from Pressure Die Cast Aluminium housing suitable with integral driver, system lumen efficacy $\geq 100$ lm/Watt output , THD < 15% ,p.f. $\geq 0.95$ ,CRI >80 , life time of minimum 50000 Burning Hours with , 70% of intial Lumen maintaned till life ends , CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin) , maximum power consumption should not more than the specified rating and Fixture shall be of BIS standard and trade mark certificate ( T.C.). surge protection 4 KV. .	35	Each	1097.00	38395.00

2.1.8	MR	Supply of IK08 IP65 protected Top/Bottom mounted 40W LED Post top Luminaire made of single piece construction powder coated die cast aluminium housing with UV stabilized Clear / frosted Polycarbonate . The System level Luminous efficacy 100 Lumen/W. SMD LEDs is to be used, System CRI>70, CCT: 3000/4000/6500/5700 K. The integral electronic driver must be potted & has a unique BIS R number must be potted & has a unique BIS R number constant current and Internal/external surge protection device of min. 4KV(L- N) and efficiency > 85%, PF>0.9, THD<10% and input Voltage range of 140-270V AC at 50Hz. System life of 50000 Burning hours with 70% of Initial Lumens maintained . Driver current <750mA. Fixture must be in compliance with BIS Standards and Trade mark Certificate complete in all respect..				
2.1.8.1		Minimum lumen output 4000 lm Post top Luminaire	21	Each	6305.00	132405.00
2.1.9	MR	LED Panel light 2x2 ft. (System lumen efficacy $\geq 105$ <120 lm/Watt) Supply of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency >85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5 0C to 40 0C, internal surge protection of 2.5 KV with Short & Open circuit protection, THD < 10% , P. F. $\geq 0.95$ , IP20, CRI >80,UGR (Unified Glare Rating) < 19, Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105$ <120 lm/Watt output. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). Powder Coated CRCA Sheet Body				

		(Thickness > 0.50 mm)				
2.1.9.1		36 watt	12	Each	1688.00	20256.00
2.1.10	MR	LED Street light fixture, powder coated pressure die cast aluminium body (System lumen efficacy $\geq 105 < 120$ lm/Watt) Supply of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency >85%, Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%, THD < 10% as per IEC 61000-3-2, P. F. $\geq 0.95$ , IP-66, IK-10, CRI >70, under voltage and over voltage protection, EMI/EMC As per CISPR -15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends CCT 3000°K / 4000°K / 5700°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and fixture shall be of relevant BIS standard complete in all respect with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105 < 120$ lm/Watt output .Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
2.1.10.1		45 watt	55	Each	1041.00	57255.00

2.1.11	MR	LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy $\geq 105 < 120$ lm/Watt). Supply of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency $> 85\%$ , Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency $> 85\%$ , THD $< 10\%$ as per IEC 61000-3-2, P.F. $\geq 0.95$ , IP-66, IK-10, CRI $> 70$ , under voltage and over voltage protection, EMI-EMC as per CISPR -15, lenses for beam angle 30 deg-120deg as per the application and the project requirement., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT 3000°K /4000°K / 5700°K /6500°K (As per ANSI Bin) , SDCM(Standard Deviation Color Matching) $< 5$ , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105 < 120$ lm/Watt output. Shape size and CCT shall be as approved by Engineer-in Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).				
2.1.11.1		150 watt	2	Each	2723.00	5446.00
2.1.12	MR	Supply of decorative wall Mounted Wall bracket brushed nickel finish fixture with acrylic difusser suitable for 1 Nos (9W - 12W) LED Lamp B22 base i/c providing & Fixing 1 Nos energy efficient LED Lamp (9W-12W) of same make (4000K/5700K/6500K etc )	34	Each	1083.00	36822.00
2.1.13	MR	Supply of 400 mm sweep, 45 - 55 W , 1340-1370 RPM, Wall fan, pull cord control for speed, suitable for single phase 230 Volts 50 Hz AC supply i/c testing & commissioning etc as required.	5	Each	2568.00	12840.00

2.1.14	MR	Supply of IP20, 4'x1' LED Surface/ Recessed mounting Mid power SMD type LED Light fixture 34-36 watt, not less than 50mm housing depth made from CRCA sheet steel housing, high purity / transmissivity UV stabilized Non -yellowish diffuser for uniform light distribution. High efficiency with 4 KV internal/external surge protection BIS certified isolated driver having efficiency > 85% , with Short & Open circuit protection (Integral with light fixture). System lumen efficacy of $\geq 100$ lm/Watt , THD $\leq 10\%$ , p.f. $\geq 0.95$ , CRI $\geq 80$ , life time of minimum 50000 Burning Hours with , 70% of intial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin) , maximum power consumption should not more than the specified rating and Fixture shall be of BIS standard and trade mark certificate ( T.C.).	5	Each	4388.00	21940.00
2.1.15	MR	Supply 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 A "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let etc. as required.	5	Each	1101.00	5505.00
2.1.16	MR	Supply of 20A DP plug assembly suitable for existing industrial type socket outlet, complete etc as req.	5	Each	462.00	2310.00
2.1.17	MR	Supply of following wall mounted type automatic line voltage corrector having intelligent time delay RELAY characteristics, , built in thermal overload protection, suitable for input voltage working range 170-270V ,output voltage 220-240V having indications of input & output voltage. The stabilizer should be capable For high/Low voltage cut off & to be fitted on wall near the AC unit.				
2.1.17.1	MR	5 KVA stabilizer (for 2.00 Ton Capacity Inverter type Split ACs)	5	Each	3011.00	15055.00
2.1.18	MR	Supply of weather proof cable loop box of size 200mm X 140mm X 95 deep made out of thermoset plastic cable junction boxes IP55 for outdoor installation with metric knockouts for cable entry including 4/5 way connecting terminals, 2 Nos Glands, external mounting clamps GI Strip (2Nos) and 1No.SP MCB (C-series) inside the box etc as required.	10	Each	1221.00	12210.00

2.1.19	MR	Supply of manual timer switch to be mounted in feeder pillars / Lighting DBs / street light panels for automatic switching On & OFF of street lights at desired timings. i/c dismantling of existing & buy back of same.	2	Each	2031.00	4062.00
2.1.20	MR	Supply of contactor for 3 phase, 415 V, 50 Hz, 22 A, AC3 type for street light timer/for pump in the existing panel i/c dismantling of existing & buy back of same.	2	Each	1240.00	2480.00
2.1.21	MR	Supply of Single Phase Preventor (S.P.P.) for 3 phase, 415 V, 50 Hz, for various pumps in the existing panel i/c dismantling of existing & buy back of same.	2	Each	850.00	1700.00
2.1.22	MR	Supply of 3 phase, 415V, 50Hz DOL starter suitable for existing pumps/motor ranging from 1.5-5 HP with suitable relay etc as reqd.	2	Each	2040.00	4080.00
2.1.23	MR	Providing & fixing of following dia GI pipe 'B' Class (ISI marked) complete with GI fitting such as bend, socket, tee making etc. as reqd. Including cutting threads etc. making good the damages etc. as reqd.				
2.1.23.1	MR	40 mm dia G.I. Pipe	15	Metre	659.00	9885.00
2.1.23.2	MR	50 mm dia G.I. Pipe	10	Metre	905.00	9050.00
2.1.24	MR	Supply of relay for existing DOL starter ranging from 0.6-14A as suitable, complete etc as required.	2	Each	855.00	1710.00
2.1.25	MR	Supply of copper cable of size 2.5 Sqmm (3 core) for connection etc. complete as reqd.	2	Each	233.00	466.00
2.1.26	MR	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	320	Mtr	23.00	7360.00
2.1.27	MR	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	290	Mtr	54.00	15660.00
2.1.28	MR	6.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	180	Mtr	82.00	14760.00
2.1.29	MR	Call bell Ding Dong Type	25	Each	142.00	3550.00
2.1.30	MR	6 A, to 32 A, ratings, SP MCB, "C" curve, 10 KA breaking capacity	47	Each	175.00	8225.00
2.1.31	MR	40Amp DP MCB, 10KA	18	Each	1217.00	21906.00
2.1.32	MR	Fan Capacitor	65	Each	53.00	3445.00
2.1.33	MR	Bell push, modular type	24	Each	80.00	1920.00
2.1.34	MR	S.P. 5/6 A, one way modular switch, ISI marked	157	Each	44.00	6908.00
2.1.35	MR	S.P. 15/16 A, one way modular switch, ISI marked	147	Each	96.00	14112.00
2.1.36	MR	3 pin 5/6 A modular socket outlet, ISI marked	148	Each	82.00	12136.00

2.1.37	MR	6 pin 15/16 A modular socket outlet, ISI marked	145	Each	136.00	19720.00
2.1.38	MR	Stepped type Modular Fan regulator (2 module)	52	Each	285.00	14820.00
2.1.39		Supplying ,of of BEE star level 5 star rated 15 Litre vertical mounted storage water Geyser with outer casing made of Rust Proof ,Shock Resistance with premium finish ,inner tank made of corrosion resistant ,High strength ,Durable Material ,Hardness resistance with best available technology complying best standard of safety & thermal Management and heating element, stem type thermostat and thermal cut out,Dual indicating lamps for power supply and thermostat,PUF insulation, Pressure release valve,fusible plug etc. as required held in position with 4 no. rack bolts,duly wired with 3 core 2.5/4.0 Sqmm PVC insulated & sheathed copper conductor and 16 A/25A three pin plug top,including making inlet,outlet heavy gauge C.P./ Flexible alloy, warranty comprehensive- 2 years, heating element-4 years, inner tank-7 years complete with all accessories and making good the damages and water tight connection,testing etc. as required.(Model :-VENUS CELO / RACOLD CDR DLX PLUS /AO SMITH ELEGANCE PRIME )	4	Each	8468.00	33872.00
3		SH:- III (Minor Maintenance work, Rewinding Pumps)				
3.1	1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS/HFFR PVC insulated copper conductor single core cable etc as required.				
3.1.1	1.10.1	Group A	10	Point	1189.00	11890.00
3.1.2	1.10.2	Group B	5	Point	1362.00	6810.00
3.1.3	1.10.3	Group C	10	Point	1704.00	17040.00
3.2	1.15	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS/HFFR PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including dismantling as required.				
3.2.1	1.15.1	Group A	15	Point	687.00	10305.00

3.2.2	1.15.2	Group B	15	Point	752.00	11280.00
3.2.3	1.15.3	Group C	10	Point	1064.00	10640.00
3.3	1.16	Rewiring for twin control light point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS/HFFR PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including dismantling as required.	5	Point	1064.00	5320.00
3.4	1.17	Supplying and drawing following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
3.4.1	1.17.3	3 x 1.5 sq. mm	50	Mtr	104.00	5200.00
3.4.2	1.17.21	3 x 4 sq. mm	50	Mtr	222.00	11100.00
3.4.3	1.17.30	3 x 6 sq. mm	50	Mtr	326.00	16300.00
3.5	1.2	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
3.4.1	1.20.1	20 mm	50	Mtr	254.00	12700.00
3.4.1	1.20.2	25 mm	40	Mtr	289.00	11560.00
3.6	MR	Repair/overhauling of Motor pump sets with dismantling the defective one (as required) which comprises of work like motor rewinding including servicing , to & fro transportation from site, replacement of nuts & bolts, testing,commissioning & Re-installation complete etc as required.				
3.6.1		1.5/2/3/5/7.5/10 HP monoblock/submersible pump set	16	Per HP	1269.00	20304.00
3.7	MR	Withdrawing of all capacity submersible pump set with motor with GI / HDPE pipe from existing borewell complete including dismantling of existing nut-bolts, pipe lines/ cable from the bore well with the help of chainpull/powered lifting lowering machine etc. as required.	5	Each	3150.00	15750.00



3.8	MR	Lowering of all capacity submersible pump set with motor with GI / HDPE pipe in existing borewell complete including installation/ fixing of cable/pipe in the borewell with the help of chainpull/powered lifting lowering machine etc. as required.	5	Each	3725.00	18625.00
3.9	MR	Servicing & Overhauling of 1.5 TR/2 TR Split type AC's i/c dismantling the front & side cover of unit, cleaning the finns of cooling coil & condensor coil with cleaning agent like Vemiclean & fresh water, detergent powder, checking all electrical connections & PCB, greasing / oiling fan motor, reassembling the same & testing, commissioning in different office at various site etc. as reqd.	40	Each	831.00	33240.00
3.1	MR	Detection of leakage with liquid soap after filling of nitrogen up to 200 PSI, brazing the refrigerant circuit tubes ie header, suction & discharge line, check valve, safeties i/c suction & liquid line from out door unit to in door unit , repeat Complete presuure testing up to 350 PSI with nitrogen gas for 24 hrs. minimum, detecting the leakage by liquid shop, brazing the refrigerant circuit tubes, vaccumisation up to 20 PSI for minimum of 6 hrs. complete of 1.5/2 TR split/Window A.C. unit installed in different office at various site etc. as reqd.	5	Each	1557.00	7785.00
3.11	MR	Supplying & Topping up-suitable refrigerant gas in Split type A.C. units of 1.5/2 TR Cap. Installed at different office at various site i/c brazing, testing & commissioning etc as reqd.	10	KG	1350.00	13500.00
3.12		Refilling and re-fixing of follwing Old Fire Extinguisher Cylinder i/c Carbon di oxide, Chemical, Powder as per requirement of A/B/C Type with relevant IS Code				
3.12.1		Co2 (upto 4.5 Kg)	15	Nos	338.00	5070.00
3.12.2		ABC Type for Powder (5/6.00 Kg)	15	Nos	551.00	8265.00
3.13		Supplying and fixing of ABC Powder Type 4 Kg Fire Extinguisher (Red) duly ISI marked conforming to IS:15683:2018, with IS 4308, ISI marked ABC (MAP 90%) powder complete with squeeze grip release valve, discharge pipe, locking arrangement, pressure gauge, operation manual i/c fixing with bracket on the wall etc. as reqd.	5	Nos	4853.00	24265.00

3.14		Supplying and fixing of ISI marked CO2 type Fire Extinguisher of 4.5 Kg capacity made from brand new seamless drawn steel cylinder confirming to IS15683, fitted with wheel valve, 1 Meter long discharge hose, horn complete with initial gas charged with carrying with carrying handle and wall mounted bracket etc. complete as required.	5	Nos	8620.00	43100.00
3.15		SITC of 3 HP Mono Submersible Pump Set, (65MM (Suction) X50 MM(Delivery) horizontal type suitable for 3 phase, 415 V AC supply having a discharge capacity of (8-4 LPS) at Head Range of 14-25 Mtr with C.I. Impeller etc. complete as reqd.	2	Nos	31897.00	63794.00
4		SH:- IV(Cable and Cable Laying)				
4.1		Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc..direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
4.1.1	15.16.1	63 mm dia (OD-63 mm & ID-51 mm nominal)	200	Meter	289	57800.00
4.2		Supplying of one number ISI marked XLPE insulated, aluminum conductor UG Cable amendment as per IS:7098 (part-1)/1988 (amended upto date) armoured with galvanised round steel wire or steel strip power cable suitable for rated Voltage at 1100 volts grade of following size.				
4.2.1		2x10 Sq.mm	400	Meter	217	86800.00
4.2.2		3.5x35 Sq.mm	100	Meter	520	52000.00
4.2.3		3.5x50 Sq.mm	50	Meter	697	34850.00
4.3		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
4.3.1	10.5.1	Upto 35 sq. mm	300	Meter	47	14100.00
4.3.2	10.5.2	Above 35 sq. mm and upto 95 sq. mm	150	Meter	72	10800.00

4.4	32.2	Supplying , Installation, Testing and Commissioning of Air Cooled Hi Wall split type Air conditioners complete with Indoor unit(IDU), Out door unit (ODU), surface / concealed copper Refrigerant piping with insulation (closed cell elastomeric nitrile rubber tubular pipe section) upto 3 Mtr (IDU to ODU), copper power cable upto 3.5 Mtr (IDU to ODU) i/c drain pipe R-32/R-410/ R-407 Green Refrigerant, wireless Remote control, suitable for working between 180-260V with low & high voltage cutoff and 50 hz ,1 phase AC supply capable of performing cooling, dehumidification, air circulation of following capacity with Scroll / rotary compressor. The system shall be able to deliver 100% of the rated capacity upto 42 OC. Min 5 year Original Equipment Manufacturer (OEM) warranty both compressor and Printed Circuit Board (PCB). Must comply : Electrical cable IS 694 or IS 9968 temperature sensing control IS /International Electrotechnical Commission (IEC) 60730, hermetic compressor IS 10617, heat exchanger IS 11329, capacitor IS 2993 and motor IS 12615. Complete as per CPWD specification and IS : 1391 Part II 2023. The system shall be able to operate up to 50 OC (out door ambient temperature).				
4.4.1	32.2.3	1.5 TR (BEE 5 Star Rated)	2	Nos	43539.00	87078.00
4.5		Painting of following height of poles including MS box, brackets, Clamp etc with two coats of ISI marked synthetic enamelled paint of approved make and colour i/c scrapping existing colour with emery paer etc as required.				
4.5.1		Up to 6.0 mtr. G.I./MS swaged tubular pole	40	Nos	846.00	33840.00
5.0		Part - V : Credit for dismentled material against part II & III				
5.1	M/R	900/1200/1400 mm ceiling fan	38	No.	-300.00	-11400.00
5.2	M/R	Wall brackets/Mirror light & other assorted type light fittings except Batten Type 1200 mm long fitting	30	No.	-10.00	-300.00
5.3	M/R	1x28 watt/1x36 watt/LED Type Tube Fittings etc.	50	No.	-30.00	-1500.00
5.4	M/R	Exhaust Fan/Fresh Air assorted sizes	30	No.	-300.00	-9000.00
5.5	M/R	Street Lights/ Compound Lights of various Type	10	No.	-300.00	-3000.00
5.6	M/R	1.5 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	70	Metre	-2.00	-140.00

5.7	M/R	4.0 sq. mm ISI marked, FRLS PVC insulated, single core copper conductor cable	70	Metre	-4.00	-280.00
5.8	M/R	S.P. 5/6 amps, one way piano switch, ISI marked	20	Nos.	-0.10	-2.00
5.9	M/R	S.P. 5/6 amps, two way piano switch, ISI marked	10	Nos.	-0.10	-1.00
6	M/R	S.P. 15/16 amps, one way piano switch, ISI marked	20	Nos.	-0.10	-2.00
6.1	M/R	3 pin 5/6 amps socket outlet, piano type ISI marked	20	Nos.	-0.20	-4.00
6.2	M/R	6 pin 15/16 amp socket outlet, piano type ISI marked	20	Nos.	-0.20	-4.00
6.3	M/R	Bell push, piano type	5	Nos.	-0.20	-1.00
6.4	M/R	S.P. 5/6 amps, one way modular switch, ISI marked	20	Nos.	-0.50	-10.00
6.5	M/R	S.P. 5/6 amps, two way modular switch, ISI marked	5	Nos.	-0.50	-2.50
6.6	M/R	S.P. 15/16 amps, one way modular switch, ISI marked	10	Nos.	-0.50	-5.00
6.7	M/R	3 pin 5/6 amps modular socket outlet, ISI marked	10	Nos.	-1.00	-10.00
6.8	M/R	6 pin 15/16 amps modular socket outlet, ISI marked	10	Nos.	-1.00	-10.00
6.9	M/R	Modular bell push, ISI marked	5	Nos.	-0.50	-2.50
7	M/R	Stepped type Modular Fan regulator (2 module)	10	Nos.	-2.00	-20.00
7.1	M/R	Stepped type piano electronic fan regulator	10	Nos.	-1.00	-10.00
7.2	M/R	2.5 uF Fan capacitor	30	Nos.	-0.50	-15.00
7.3	M/R	PVC Batten/ Angle Holder	5	Nos.	-0.10	-0.50
7.4	M/R	Call bell/ buzzer, single phase	8	Nos.	-0.50	-4.00
7.5	M/R	6 A to 32 A ratings , SP MCB,	15	Nos.	-10.00	-150.00
7.6	M/R	6 A to 32 A ratings , DP MCB,	3	Nos.	-10.00	-30.00
7.7	M/R	40A to 63 A ratings , DP MCB,	5	Nos.	-10.00	-50.00
7.8	M/R	40/63 A DP Isolator	10	Nos.	-10.00	-100.00
7.9	M/R	6-40 A ratings , TP MCB,	1	Nos.	-50.00	-50.00
8	M/R	4 pole MCCB, 100A, 30KA	1	Nos.	-20.00	-20.00
8.1	M/R	Mono block submersible/Mono submersible pump 3-5 HP	1	Nos.	-2500.00	-2500.00
8.2	M/R	XLPE/PVC armoured Aluminium Cable 2x10 Sq.mm/2x16 Sq.mm	100	Metre	-20.00	-2000.00
8.3	M/R	XLPE/PVC armoured Aluminium Cable 3.5x50 Sq.mm/3.5x70 Sq.mm	30	Metre	-40.00	-1200.00
8.4	M/R	DOL Starter upto 5 HP	1	Nos.	-200.00	-200.00
8.5	M/R	Industrial type socket outlet (AC Box, Geyser Box)	4	Nos.	-50.00	-200.00
			Total			3656861.50
			Say			3656862.00

Executive Engineer (E&M) Jodhpur

## PRICE BID

### Central Public Works Department

**Name of Work :** Comprehensive maintenance through out-sourcing including day to day maintenance A/R & M/O & Special Repair to Civil work and MOEI & fans RMO pump set, DG set, Street light for Electrical work for Residential and Non-Residential buildings/campuses at different location under Jaisalmer division (i.e. sites under Jaisalmer & Barmer Sub division like GPOA, Inspection Bungalow, CPWD qtrs., Central Excise & Customs Department at Jaisalmer, Pokhran & Mayazlar Chohtan, Gadra road & Income Tax Department at Barmer, Balotra During 2026-27 & upto 31<sup>st</sup> July 2027.

**NIT No. : 0 6 /EE/Jaisalmer/2026-27**

### SCHEDULE OF QUANTITY

**Name of the Contractor :-**

S.N o	Name of Component	Estimated Cost	Percentage above or below the estimate cost	% in Figures	Total Cost
1	Civil Work	Rs. 41,81,904/-			
2	Electrical Work	Rs. 36,56,862/-			
	<b>Total :</b>	<b>Rs. 78,38,766/-</b>			