

## भारत सरकार टकसाल

### INDIA GOVERNMENT MINT

भारत प्रतिभूति मुद्रण तथा मुद्रा निर्माण निगम लिमिटेड की एक इकाई

A Unit of Security Printing & Minting Corporation of India Limited

भारत सरकार के पूर्ण स्वामित्वाधीन Wholly owned by Government of India

A Miniratna Category-I, CPSE CIN U22213DL2006GOI144763

डी2-, सैक्टर1-, नोएडा /D-2, Sector-1, NOIDA

ज़िला-गौतमबुद्ध नगर, उ.प्र. /Distt. Gautam Buddha Nagar (UP) - 201301

Fax: 0120-2537609 / 012-04783116 / E-mail: igm.noida@spmcil.com

Website: www.spmcil.com



**Security Classification: Non-Security**

## **TENDER DOCUMENT FOR CONSTRUCTION OF NEW STORE BUILDING AT INDIA GOVERNMENT MINT, NOIDA**

Tender No. IGMN/PPP/PUR/STORE/2755/2024

DATED 27.01.2024

**THIS TENDER DOCUMENT CONTAINS 104 PAGES.**

**DETAILS OF CONTACT PERSON IN INDIA GOVERNMENT MINT, NOIDA REGARDING THIS TENDER:**

Sanjay Kumar Gupta  
Assistant Manager (Material)  
For Chief General Manager  
India Government Mint,  
D-2, Sector -1,  
NOIDA - 201 301 UP  
**Email: igm.noida@spmcil.com**



### ***Disclaimer***

The information contained in this Bid Document or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of the Security Printing and Minting Corporation Limited (hereafter referred as the "Purchaser") or any of its employees or associated agencies, is provided to Bidder(s) on the terms and conditions set out in this Bid Document and such other terms and conditions subject to which such information is provided. This Bid Document is not an agreement and is neither an offer nor invitation by the Purchaser to the prospective Bidder(s) or any other party hereunder. The purpose of this Bid Document is to provide the Bidder(s) with information to assist them in the formulation of their proposal submission. This Bid document does not purport to contain all the information Bidder(s) may require. This Bid document may not be appropriate for all bidders, and it is not possible for the Purchaser to consider particular needs of each Bidder. Each Bidder should conduct its own investigation and analysis, and should check the accuracy, reliability, and completeness of the information in this document and obtain independent advice from appropriate sources. Information provided in this Bid Document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Purchaser, its employees and other associated agencies accept no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

This Bid document and ensuing bids; communications and Contracts would alone determine the legal and commercial relationship between the bidders/ contractors and the Purchaser. No other Government or Purchaser's document/ guidelines/Manuals including its Procurement Manual (which are for internal and official use of its officers), have any locus standi in such a relationship. These documents/guidelines/ Manuals therefore should not be cited or referred in any legal or dispute resolution or grievance redressal proceedings. The Purchaser, its employees and other associated agencies make no representation or warranty and shall have no liability to any person, including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this Bid Document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the Bid Document and any assessment, assumption, statement or information contained therein or deemed to form part of this Bid Document or arising in any way for participation in this Bid Stage. The Purchaser, its employees and other associated agencies also accept no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder(s) upon the statements contained in this Bid Document. The Purchaser may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this Bid Document. The issue of this Bid Document does not imply that the Purchaser is bound to select Bidder(s) and the Purchaser reserves the right to reject all or any of the Bidders or Bids or to decide to drop the procurement process at any stage without assigning any reason. The Bidder(s) shall bear all its costs associated with or relating to the preparation and submission of their Bids including but not limited to preparation, copying, postage, delivery fees, expenses associated with any submission of samples, demonstrations or presentations which may be required by the Purchaser or any other costs incurred in connection with or relating to their Bids. All such costs and expenses will remain with the Bidder(s) and the Purchaser shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder(s) in preparation or submission of the Bid, regardless of the conduct or outcome of the Bidding Process. This disclaimer forms an integral part of the Bid document and shall supplement but not supplant the provision of the Bid Document.



## भारत सरकार टकसाल

### INDIA GOVERNMENT MINT

भारत प्रतिभूति मुद्रण तथा मुद्रा निर्माण निगम लिमिटेड की एक इकाई  
A Unit of Security Printing & Minting Corporation of India Limited  
भारत सरकार के पूर्ण स्वामित्वाधीन Wholly owned by Government of India  
A Miniratna Category-I, CPSE CIN U22213DL2006GOI144763  
डी2-, सैक्टर1-, नोएडा /D-2, Sector-1, NOIDA  
ज़िला-गौतमबुद्ध नगर, उ.प्र. /Distt. Gautam Buddh Nagar (UP) - 201301  
Fax: 0120-2537609 / 012-04783116 / E-mail: igm.noida@spmcil.com  
Website: www.spmcil.com



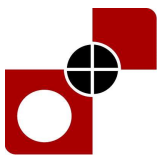
## SECTION -1 NOTICE INVITING TENDER (NIT)

Tender No. IGMN/PPP/PUR/STORE/2755/2024

Dt. 27.01.2024

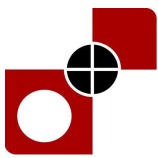
1. Sealed tenders are invited from eligible and qualified bidders for supply of the following:

Schedule No.	Brief Description of Goods/ services	Quantity (with unit)	Earnest Money	Remarks
1	Construction of New Store Building at India Government Mint, Noida.	01 No. (One)	Rs.4,90,000/- (Rupees Four lakh ninety thousand only)	Bidders have to submit the Earnest Money Deposit (EMD) (in INR) along with PQB as mentioned at serial no. 10 below
Type Of Tender (Two Bid/ PQB/ EOI/ RC/ Development/ Indigenization/ Disposal of Scrap/ Security Item etc.)			National Competitive Bidding in Three bid System i.e. (Pre-Qualification Bid +Techno-commercial Bid + Price Bid)	
Security Classification			Non-Security	
Authority in whose favour all tender related financial instruments (FD, DD, Banker's cheque etc) are to be made			India Government Mint, Noida (A Unit of SPMCIL)	
All Financial Instruments to be payable at:			Payable at Noida	
Dates and place of availability of tender documents:			<b>From 27.01.2024 at 09:00 A.M. to 29.02.2024 at 03:00 P.M. at</b> <a href="https://igmnoida.spmcil.com">https://igmnoida.spmcil.com</a> & <a href="https://eprocure.gov.in/eprocure">https://eprocure.gov.in/eprocure</a>	
Place of Pre-Bid Conference			<b>At 11:30 AM on 06.02.2024</b> India Government Mint, D-2, Sector-1, Noida	



Place, Time and date before which Written queries for Pre-bid conference must be received	All pre-bid queries by bidders may be sent in written to <a href="mailto:igmn.noida@spmcil.com">igmn.noida@spmcil.com</a> by <b>03.02.2024 before 05.00 PM</b> . Any verbal queries other than the written ones pre-submitted will not be entertained during the pre-bid meeting.
Closing date and time for receipt of tenders	<b>29.02.2024; 3:00 PM</b>
Submission of Bids	Through CPP Portal ( <a href="https://eprocure.gov.in/eprocure">https://eprocure.gov.in/eprocure</a> )
Time and date of opening of tenders, <i>Place, Time, and date of Opening of Technical Bid, Price (Financial) bid would be intimated later on</i>	1) <b>03:30 P.M. on 01.03.2024.</b> 2) For Techno-Commercial Bid: - will be intimated later on to those who qualify in PQB. 3) For Price Bid: - will be intimated later on only to those whose Techno-Commercial Bid is accepted.
Place of opening of tenders	India Government Mint, D-2, Sector-1, Noida through e-tendering portal i.e. CPP Portal ( <a href="https://eprocure.gov.in/eprocure">https://eprocure.gov.in/eprocure</a> )
Nominated Person/ Designation to Receive Tenders	Through e-tendering portal i.e. CPP Portal ( <a href="https://eprocure.gov.in/eprocure">https://eprocure.gov.in/eprocure</a> )
Officer to be contacted for clarifications / help:	Sanjay Kumar Gupta Assistant Manager (M)

2. Eligibility to participate as per Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Ministry of Finance, Department of Expenditure, Public Procurement Division's Orders (Public Procurement 1, 2 and 3) F.No.6/18/2019-PPD dated 23rd/ 24th July 2020 (or any further amendments thereof), as applicable.
3. Please note that India Government Mint, Noida reserves its right to grant Purchase preferences in accordance with Government of India's Public Procurement (Preference to Make in India) Order 2017 (as amended/ revised) and Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018 (as amended/ revised). **Further, as per revised FAQ in respect of Public Procurement Policy for MSEs order 2012, issued on 25.03.2022 Works Contracts are not covered under the purview of PPP for MSEs**
4. Interested tenderers may obtain further information about this requirement from India Government Mint, Noida. They may also visit our website mentioned above for further details.
5. Tenderer may download the tender documents from the web site mentioned above and upload its tender by utilizing the downloaded document, (Through e-tendering portal i.e. [CPP Portal \(https://eprocure.gov.in/eprocure\)](https://eprocure.gov.in/eprocure)), bidder must not make any changes to the contents of the documents, except for filling the required information. A certificate to this effect must be submitted by the bidder in the Tender Form (Section X).
6. Tenderers are required to upload their bids, duly sealed and signed, complete in all respects as per instructions contained in the Tender Documents, on or before the closing date and time indicated in the Para 1 above at e-tendering portal i.e. CPP Portal (<https://eprocure.gov.in/eprocure>) **Tenderers must upload their bids along with scanned copies as required enclosures including proofs of EMD as applicable. Original copies of**



**such scanned uploaded required enclosures must reach in physical form within the date and place as provided in such instructions (Refer SIT 2 – EMD), otherwise their uploaded bid, would be declared as unresponsive.**

7. In the event of any of the above-mentioned dates being declared as a holiday/closed day for the purchase organization, the tenders will be sold/ received/opened on the next working day at the appointed time.
8. The tender documents are not transferable.
9. The bidder, their affiliates, or subsidiaries – including subcontractors or suppliers for any part of the contract – should not stand declared ineligible/ blacklisted/banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country's laws or official regulations. A declaration to this effect shall be submitted by the bidder in the Tender Form (Section X).
10. EMD amount mentioned in Section VI – List of Requirements shall be furnished in one of the following forms: a) Account Payee Demand Draft or b) Fixed Deposit Receipt or c) Banker's cheque; in acceptable form, otherwise the tender will not be accepted in any case. The demand draft, fixed deposit receipt or banker's cheque shall be drawn on any scheduled commercial bank in India, in favour of Account and place of payment specified in the Para 1 above. In case of bank guarantee, the same is to be provided from/confirmed by any scheduled commercial bank in India as per the format specified under Section XIII in these documents.
11. 'As per the amendments to Companies Act 2013, companies are required to make certain disclosure pertaining to vendors registered under Micro, Small and Medium Enterprises Development Act 2006 (MSMED Act 2006). If your firm/ company is registered under MSMED Act 2006, please attach a copy of the registration certificate.
12. Any security breach by the contractor, will lead to:  
a) Termination of contract. b) Payment of damages.
13. As per provisions contained in M/o Finance, Dept. of Expenditure O.M. No.1(2)(1)/2016-MA dt.10<sup>th</sup> March 2016, relaxation shall be given of prior turnover and prior experience with respect of Micro & Small Enterprises (MSEs) subject to meeting of quality and technical specifications. **Further, as per revised FAQ in respect of Public Procurement Policy for MSEs order 2012, issued on 25.03.2022 Works Contracts are not covered under the purview of PPP for MSEs hence there is no exemption of EMD, Turnover and Experience to the MSME registered vendors**
14. The work is to be executed in IGM, NOIDA protected areas. The agency shall be required to strictly follow security norms and procedure in terms of entry/ exit passes to all the vehicles/ persons/ materials, issue/ reissue/ surrender of labour passes and other rules and regulations that will be brought in force from time to time by IGM, Noida authorities. Photo ID cards for labourers along with their credentials will be required to obtain permission to enter the site. The strict access controls to site may result in loss of man-hours for which no extra payment shall be made.



**Note:**

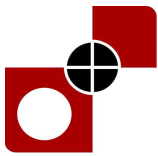
1. All other terms and conditions of NIT (including GIT, SIT, GCC and SCC) shall remain as per SPMCIL procurement manual.
2. General Instructions to Tenderer (GIT) and General Conditions of Contract (GCC) shall also form a part of this tender document.

For details regarding GIT and GCC please refer links as below:

<https://spmciil.com/uploaddocument/GIT/new.pdf>

<https://spmciil.com/uploaddocument/GCC/new.pdf>

-----  
Sanjay Kumar Gupta  
Assistant Manager (Material)  
For Chief General Manager  
India Government Mint,  
D-2, Sector-1, Noida

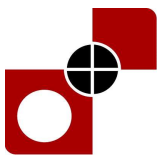


## **SECTION II: GENERAL INSTRUCTIONS TO TENDERER (GIT)**

### **Part I & II: GENERAL INSTRUCTIONS Applicable to all Types of Tenders:**

Please refer the link to <https://spmciil.com/uploaddocument/GIT/new.pdf> for further details. GIT  
(Total pages: 61)

BIDDERS ARE REQUESTED TO DOWNLOAD 61 PAGES BY CLICKING THE ABOVE SAID LINK  
AND SUBMIT THE SAME DULY STAMPED AND SIGNED ALONG WITH TENDER DOCUMENT.



### **SECTION III: SPECIAL INSTRUCTIONS TO TENDERERS (SIT)**

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/ substitute/ supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

<b>Sl. No.</b>	<b>GIT Clause No.</b>	<b>Topic</b>	<b>Modify/ Substitute/ Supplement</b>	<b>SIT Provision</b>
1.	3.	Eligible Tenderers		As applicable
2.	3.4	Eligible Goods and Services (Origin of Goods)		As applicable
3.	6.1	The tender documents include:	Modify	SIT 1 (Mentioned below)
4.	10.1	The Technical bid to be submitted by Tenderer shall contain the following documents, duly filled in, as required		As applicable
5.	11.2	Tender Currency		As applicable
6.	12.1	Tender Prices		As applicable
7.	12.6	GST details		As applicable
8.	16.2 a) to c)	Documents Establishing Tender's Eligibility and Qualifications		As per Section IX: Qualification / Eligibility Criteria
9.	18.4, 18.5	Earnest Money Deposit (EMD)	Modify	SIT 2 (Mentioned below)
10.	19	Tender Validity	Modify	SIT 3 (Mentioned below)
11.	20.4	Number of copies of Tender to be submitted		As applicable
12.	20.8	Two Bid System	Modify	
13.	20.9	E-Procurement	Modify	SIT 4 (Mentioned below)
14.	24	Opening of Tender & Evaluation Process	Modify	SIT 5 (Mentioned below)





**SIT 1: - The tender documents include:**

1. Section I - Notice Inviting Tender (NIT)
2. Section II - General Instructions to Tenderers (GIT)
3. Section III - Special Instructions to Tenderers (SIT)
4. Section IV -General Conditions of Contract (GCC)
5. Section V - Special Conditions of Contract (SCC)
6. Section VI - List of Requirements
7. Section VII - Technical Specifications
8. Section VIII - Quality Control Requirements
9. Section IX – Qualification/ Eligibility Criteria
10. Section X - Tender Form
11. Section XI - Price Schedule
12. Section XII – Vendor Details
13. Section XV - Bank Guarantee Form for Performance Security
14. Section XVI - Contract Form
15. Section XIX- NEFT Mandate

**SIT 2: Earnest Money Deposit: -**

- (i) Earnest Money Deposit amounting to Rs. Rs.4,90,000/- (Rupees Four lakh Ninety thousand only) in the form of account payee Demand Draft /Bankers Cheque/Fixed Deposit (for FDR *validity should be minimum 180 days + 45 days from the date of tender opening*) Receipt in favor of India Government Mint, Noida payable at Noida is to be furnished along with Pre-qualification Bid.
- (ii) EMD of a bidder will be forfeited, if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. Further, if the successful bidder fails to furnish the required performance security within the specified period, its EMD will be forfeited.

**SIT 3: Tender Validity: -**

- (i) Tender shall remain valid for acceptance for a period of 180 days from the date of opening of Techno commercial Bid. Any tender valid for a shorter period shall be treated as unresponsive and rejected.
- (ii) In exceptional cases, the tenderers may be requested by India Govt. Mint, Noida to extend the validity of their tender up to a specified period. Such request(s) and response thereto shall be conveyed by surface mail or by e-mail. The tenderers who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly.
- (iii) In case the day upto which the tenders are to remain valid falls on/subsequently declared a holiday or closed day for IG Mint, Noida the tender validity shall automatically extended upto the next working day.
- (iv) Compliance with the Clauses of this Tender Document: Tenderer must comply with all the clauses of this Tender Document. In case there are any deviations, these should be listed in a chart form without any ambiguity along with justification.



**SIT 4: E-Procurement:** - E-Tender will consist of Three Bid system i.e. Part I - Pre- Qualification Bid (PQB), Part II - Techno Commercial/Technical Bid and Part III - Financial/ Price Bid

(I) PQB (II) Techno Commercial/Technical Bid and (III) Financial/ Price Bid are to be submitted through e-tendering portal i.e. <https://eprocure.gov.in/eprocure> on or before the due date of submission of tenders. It may be noted that the price is not to be quoted in the PQB and/ or Techno Commercial Bid. It shall only be quoted in Price Bid. Non-adherence to this shall be making tender liable for rejection.

Earnest Money Deposit (EMD) in original shall be sent to the designated officer Mr. Sanjay Kumar Gupta Assistant Manager (Material), India Government Mint, D-2, Sector-1, Noida - 201 301 through post or by hand so as to reach within 5 days' time of tender opening.

#### **PART I: PRE-QUALIFICATION BID (PQB)**

As part of PQB, the bidder is required to submit all the following documents to ensure the compliance of pre-qualification criteria

- i) Containing **un-priced** tender consisting of complete Qualification/ Eligibility of the tenderer as per the format specified under Section IX in this document.
- ii) Earnest Money Deposit.
- iii) Power of Attorney/authorization with the seal of the company of person signing the tender documents.
- iv) Tender form as in Section-X of tender document duly signed.
- v) Vendor details in Section-XII of tender document duly filled and signed.
- vi) Submit the copy of GST Registration No. and PAN Card details. Permanent EPF account no. and ESI registration No. (if applicable)
- vii) The tenders has to submit acceptance of all Sections of this Tender document (GIT,SIT,GCC,SCC and Quality Control Requirements.)
- viii) The following undertakings need to be invariably submitted along with the offer failing which the offer shall be rejected and no further communication shall be entertained.

#### **UNDERTAKINGS:**

- a. 'Our offer against tender No. \_\_\_\_\_ does not contain any deviation from the stipulated tender conditions and we accept all the terms and conditions of the tender document without any deviations.'
- b. Declaration of the bidder that he is not blacklisted/debarred for dealing by Government of India.

#### **PART II: TECHNO COMMERCIAL BID**

As part of Technical Bid, the bidder is required to submit the following documents:

- i) The tenderer shall submit detailed technical offer as per Technical Specifications as per Section VII of this tender document.
- ii) The tenderer has to submit acceptance of all sections of this tender document (GIT, SIT, GCC, SCC, Quality control requirements, Tender form, Questionnaire, etc.,)
- iii) One original and one duplicate copy shall be submitted.
- iv) Containing un-priced tender consisting commercial package including all terms and conditions. No price details to be given in this tender.
- v) Containing Blank price Bid (**No price details to be given in part of this tender.**)



### **PART III: PRICE BID**

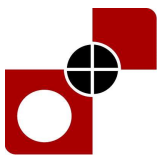
The tenderers shall quote the prices as per the proforma given in Section – XI of the tender document. No additional/ extra item with price should be included other than that of Section – XI. If any that particular item will not be considered for evaluation.

#### **Note: -**

- (i) The bidders must submit the self-attested valid documents in support of their claim for PRE-QUALIFICATION BID and TECHNO COMMERCIAL BID criteria as mentioned above.
- (ii) All sections and pages of the tender documents strictly should be signed, Name and Sealed by Bidder firms.
- (iii) Bidders are required not to quote the prices in Pre-Qualification Bid as well as Techno Commercial Bid. Price shall only be quoted in Price Schedule/ Financial Bid. Non-adherence to this shall be making tender liable for rejection.
- (iv) Tenders received without EMD and not as per the tender terms shall not be evaluated and will be rejected.

#### **SIT 5: Opening of Tender & Evaluation Process:**

- (i) The pre-qualification bids are to be opened in the first instance on CPP Portal at the prescribed time and date. These bids shall be scrutinized and evaluated by the competent committee/authority with reference to the parameters prescribed in the Part- I: PQB.
- (ii) Thereafter, in the second stage, the techno-commercial bids of only pre-qualified bidders (as decided in the first stage) shall be opened on CPP Portal at a later date and time for further scrutiny and further evaluation. These bids shall be scrutinized and evaluated by the competent committee/authority with reference to the parameters prescribed in the Part-II: Techno-Commercial Bid.
- (iii) Subsequently, in the third stage the financial bids of only the techno-commercially acceptable offers (as decided in the second stage) shall be opened for further scrutiny and evaluation.
- (iv) The method of evaluation of L1 bidder for awarding the Contract shall be on consolidated grand total offered by the bidder and will be decided by taking into consideration the grand total offered price as per Section - XI (Price schedule) of this tender document.



## **SECTION IV: GENERAL CONDITIONS OF CONTRACT (GCC)**

### **Part I: General Conditions of Contract applicable to all types of Tenders**

Please refer the link <https://spmCIL.com/uploaddocument/GCC/new.pdf> for further details  
**GCC (Total pages: 36)**

BIDDERS ARE REQUESTED TO DOWNLOAD 36 PAGES BY CLICKING THE ABOVE SAID LINK AND SUBMIT THE SAME DULY STAMPED AND SIGNED ALONG WITH TENDER DOCUMENT.

### **ADDITIONAL GENERAL CONDITIONS**

#### **1. Definitions**

- 1.1 "Engineer-in-Charge" shall mean the Engineering officer appointed by the IGM, Noida or his duly authorized representative who shall direct, supervise and be in charge of the works for purposes of this contract.
- 1.2 "Engineer-in-Charge representative" shall mean any executive appointed/nominated by Engineer-in-Charge from time to time to perform the duties for purpose of this contract.
- 1.3 "Excepted Risks" are risks due to riots (Other than among Contractor's employees) and civil commotion (in so far as both these are uninsurable), war, invasion, act of foreign enemies, hostilities, civil war, rebellion, revolution, insurrection, military or usurped power, any acts of Government, damage from aircraft, acts of God, such as earthquake lightning and unprecedented floods and other causes over which the contractor has no control and accepted as such by the Accepting Authority or causes solely due to use or occupation by the "IGM, Noida" of the part of works in respect of which a certificate of completion has been issued.
- 1.4 "Market Rate" shall be the rate as decided by the IGM, Noida on the basis of cost of materials and labour at the Site where the work is to be executed, plus fifteen percent (15%) to cover all indirect or direct expenses including overheads and profit (No percentage shall be added for material issued by IGM, Noida, if any).
- 1.5 Schedule (s) referred to in these conditions shall mean the relevant schedule (s) annexed to the tender papers issued by the IGM, Noida or the Standard Schedule of rates prescribed by the IGM, Noida and the amendments there to issued from time to time.
- 1.6 The "Site" shall mean the lands and/or other places on, under, in or through which the work is to be executed under the Contract including any other lands or places which may be allotted by the IGM, Noida or used for the purpose of the Contract.
- 1.7 "Temporary Works" shall mean all temporary works of every kind required in or about the execution, completion or maintenance of the works.
- 1.8 "Urgent Works" shall mean any urgent measures which, in the opinion of the Engineer-in-Charge, become necessary during the progress of the work to obviate any risk of accident failure or which become necessary for security & safety.
- 1.9 A "Week" shall mean seven days without regard to the number of hours worked in any day in that week.
- 1.10 The "Works" shall mean the works to be executed in accordance with the Contract or part (s) thereof as the case may be and shall include all extra or additional, altered substituted works or temporary and urgent works as required for performance of the Contract.
- 1.11 Permanent works shall mean the permanent works to be executed and maintained in accordance with the Contract.
- 1.12 ISS/ BIS- means Indian standard Specification/ means Bureau of Indian Standards.
- 1.13 Month- means from the beginning of a given date of a calendar month to the end of the preceding date of next calendar month.



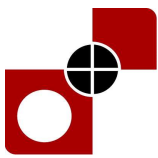
- 1.14 Quarter- means a period of 3 months reckoning 1st date of January, April, July & October counted to the last date of March, June, September & December respectively.
- 1.15 Specification- means the CPWD Specifications 2019 (Volume I & II) with up-to-date correction slips for Civil works and CPWD Specification for Electrical Works - Part-I Internal -2023, Part-II External – 2023, Part-III-Lift & Escalators-2003, Part-IV- Sub Station –2013, Part- V Wet Riser & Sprinkler Systems – 2020, Part- VI Fire Detection and Alarm System –2018, Part -VII D.G. Sets -2013, and CPWD Specification 2017 (for HVAC Works) referred to in the Tender/Documents and any modification thereof or addition/deletion as per requirement of works at site incorporated as per direction of Engineer-in-Charge or his representative and will be binding on the Contractor to execute the work accordingly.
- 1.16 Drawing- means the drawings referred to in the specifications and any modification of such drawings approved in writing by the Engineer-in-Charge and such drawings, as may from time to time, be furnished or approved in written by the Engineer-in-Charge.
- 1.17 Tests- means such Mandatory Tests required to be carried out by the Contractor as detailed in the Contracts document /or as per the direction of Engineer-in-Charge according to the procedure laid down in CPWD Specifications 2019 (Volume I & II) with up-to-date correction slips for Water, Cement, Sand, Stone Aggregate, Concrete, R.C.C. (Nominal Mix, Design Mix, Ready Mix), Steel for R.C.C., Bricks, Stone, Marble, Granite, Steel tubular Pipes, before or during execution of works under the Contract.
- 1.18 "Tests on Completion" shall mean the tests to be made/ carried out by the Contractor before works are taken over by IGM, NOIDA as provided for in the Contract and such other tests as may be required for the completion of the work.
- 1.19 "Mobilization" shall mean establishment of sufficiently adequate infrastructure by the Contactor at "site" comprising of construction equipment's, aids, tools & tackles such as power, water, communication etc., establishing man power organization comprising of Resident Engineers, Supervisory personnel and an adequate strength of skilled and unskilled workers, who with the so established infrastructure shall be in a position to commence execution of work at site (s) in accordance with the agreed time schedule of completion of work. "Mobilization" shall be considered to have been achieved if the Contractor is able to establish infrastructure as indicated above to begin work at site (s) location as per time schedule where so warranted in accordance with agreed schedule of work implementation to the satisfaction of the Engineer-in-Charge.
- 1.20 "Sub-Contractor" shall mean any person or persons or agencies engaged/ appointed by the Contactor and their legal representative or successors for whom the Contractor accepts in writing the full responsibilities to ensure that any materials supplied and/or the work executed by the Sub-Contractor is subject to the same general terms & conditions, specifications and other obligations and liabilities as if the works were executed by the Contractor.
- 1.21 Words imparting persons shall include Firms, Companies, IGM, Noida, associations or body of individuals whether incorporated or not. Words imparting masculine gender or singular number shall also include the feminine gender and plural number and vice-verse where the Contract so requires or permits.
- 1.22 "Notice of Awards of Contract/ letter of Award" shall mean the official notice issued by the owner notifying the contractor that his proposal has been accepted.
- 1.23 "Date of Contract" shall mean the date on which Letter of Award/Telex of Award/ LOA issued to the Contractor.
- 1.24 "Commencement Date" shall mean the date of start of work as per LOA.

## **2. DOCUMENT TO BE KEPT AT SITE:**

- 2.1 The Contractor shall be furnished, free of charge, two certified true copies of the Contract Documents except standard specification and the schedule of rates and all further drawing, which may be issued during the progress of the works. He shall keep one copy of these Documents on the Site in good order, and the same shall at all reasonable time be available for inspection and use by the Engineer-in-Charge, his representative or by other Inspecting Officers.



- 2.2 **CONTRACT MATTERS TO BE TREATED AS CONFIDENTIAL:**  
None of these Documents shall be used by the Contactor for any purpose other than that of this Contract.
- (i) All documents, correspondence, decisions and orders concerning the Contracts shall be considered as confidential and/or restricted in nature and the Contractor shall not divulge or allow access to them by unauthorized person.
  - (ii) The Contractor shall take necessary steps to ensure that all persons employed on any work in connection with this contract have noticed that the Indian Official Secrets Act, 1923 (XIX of 1923) with applicable amendments, applies to them and shall continue so to apply even after the execution of such works under the Contract.
- 2.3 Works to be carried out as per given specifications. If item is not available with given specifications, then works to be carried out as per PWD/ID/CPWD specifications respectively or as per decision of Engineer-in-Charge.
- 2.4 The works to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment's and transport which may be required in preparation of and for and in the full and entire execution and completion of the Works. The description given in the Schedule of Quantities shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying in return of empties, hoisting, setting, fitting and fixing in position and all other labour necessary in and for the full entire execution and completion, in accordance with good practice and recognized principles.
- 3. ERRORS, OMISSIONS AND DISCREPANCIES:**
- 3.1 The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawing being given Preference to small-scale drawing and figures of dimensions in preference to scale and Special Conditions in preference to General conditions of Contract.
- 3.2 In case of discrepancy between Schedule of Quantities, the specifications and or the Drawing, the following order of preference shall be observed: -
- (a) Description in Schedule of Quantities
  - (b) Particular Specification and Special Conditions, if any.
  - (c) Drawings.
  - (d) General Specifications.
- 3.3 If there are varying or conflicting provisions made in any document forming part of the Contract, the accepting authority shall be the deciding authority with regard to the intention of the document.
- 3.4 Any error in description of quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawing and specifications or from any of his obligations under the Contract.
- 3.5 If on check there are found to be difference between the rates given by the contractor in words and figures or in the amount worked out by him in the schedule of quantities and general summary, the same shall be adjusted in accordance with the following rules: -
- (a) In the event of a discrepancy between description in words and figures quoted by a bidder, the description in words shall prevail.
  - (b) In the event of an error occurring in the amount column of Schedule of quantities as a result of wrong extension of the unit rate and quantity the unit rate shall be regarded, as firm and extension shall be amended on the basis of the rate.
  - (c) All errors in totaling in the amount column and carrying forward totals shall be corrected.
  - (d) The totals of various sections of Schedule of quantities amended shall be carried over to the General Summary and tendered sum amended accordingly. The tendered sum so altered shall, for purpose of tender, substituted for the sum originally tendered and considered for acceptance instead of the original sum quoted by the bidder. Any rounding off of quantities or in sections of schedule of Quantities or in General Summary, by the bidder, shall be ignored.
  - (e) In case of lump sum contracts based on Bill of Quantities (quantities not shown as



provision), should any error in quantities or any omissions of items be discovered, the cumulative effect of which varies the Contract sum by more than 5% or Rs. 20,000/-, whichever is less, then the errors shall be rectified and the rectification dealt with as for deviations variations clause thereof, and the value thereof shall be added or deducted from the Contract Sum, as the case may be; provided that there shall be no rectification of any errors, omissions, or wrong estimates in the prices inserted by the Contractor in the Bills of Quantities.

**4. COMMENCEMENT OF WORK:**

The Successful bidder is to deploy adequate man power and plant and Machinery at site within 7 days of date of issue of Award of contract/LOA for execution of works under the contract so as to complete the same within the stipulated time schedule stated in the contract documents or as agreed to in the contract.

4.1 The contractor shall be entitled to receive on demand the following: -

- (a) Revision in specification, if any
- (b) Explanation and instructions

4.1 The modification in specifications, if any, will be as per requirement of work from time to time and may be issued by Engineer-in-Charge in writing and is binding on the contractor and same shall be deemed to form an integral part of the contract and contractor is bound to carry out the work accordingly.

**5. DEVIATIONS / EXTENT & PRICING:**

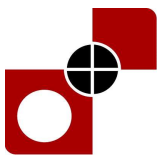
5.1 The IGM, Noida shall have power (i) to make alteration in, omission from, additions to or substitutions for the original specifications, designs and instructions that may appear to be necessary or advisable during the progress of the work and (ii) to omit a part of the work in case of non-availability of portion of the site or for any other reasons, and the Contractor shall be bound to carry out the works in accordance with any alterations given to him in writing and such alterations, omissions, additions or substitution shall form part of the Contract as if originally provided therein and any altered, additional or substituted work which the Contractor may be directed to do in the manner above specified as part of the works, shall be carried out by the Contractor on the same conditions in all respects including price on which he agreed to do the main work.

5.2 The time for completion of the work shall, in the event of any deviations resulting in additional cost over the Contract Sum being ordered, be extended as follows if requested by the Contractor: -

- i) In the proportion of such additional cost of the altered, additional or substituted work bears to the original Contract sum plus.
- ii) 25% of the time calculated in (a) above or such further additional time as may be considered reasonably by IGM, Noida.

5.3 Rate for such additional altered or substituted work/ items shall be determined by the IGM, Noida as follows: -

- (i) If the rate for additional altered or substituted item of work is specified in the Schedule of Quantities the Contractor shall carry out the additional, altered or substituted item at the same rate or market rate whichever is less. In case of composite tenders where two or more schedule of quantities may form part of the contract, the applicable rate shall be taken from the schedule of quantities of that particular part in which the deviation is involved failing that at the lowest applicable rate for the same item of work in the other Schedule of Quantities.
- (ii) If the rate for any altered, additional or substituted item of work is not specified in the schedule of quantities, the rate for that item shall be derived from the rate for the nearest similar item specified therein or on market rate whichever is less. In case of composite tenders where two or more schedule of quantities form part of the contract, the rate shall be derived from the nearest similar item in the Schedule of Quantities of the particular part of works in which the deviation is involved failing that from the lowest of the nearest similar items in other schedule of quantities.
- (iii) If the rate for any additional, altered or substituted item of work cannot be determined in



the manner specified in sub-para (i) and (ii) above, but items are available in CPWD, DSR 2023 then such item of work shall be carried out at the rate mentioned in CPWD Schedule of rates plus or minus the overall percentage as derived from the awarded price for DSR items as per CPWD schedule of rates or market rates whichever is less.

- (iv) If the rate for any altered, additional or substituted item of work cannot be determined in the manner specified in sub-para (i) to (iii) above, the Contractor shall within 14 days of the date of receipt of the order to carry out the said work, inform the Engineer-in-Charge under advice to the accepting authority of the rate which he proposes to claim for such items of work, supported by analysis of the rate claimed, and the IGM, Noida shall within three months thereafter, after giving consideration to the rate claimed by the contractor, determine the rate on the basis of market rate(s). In the event of the contractor failing to inform the Engineer-in-Charge within the stipulated period of time, the rate which he proposes to claim the rate for such item, shall be determined by the IGM, Noida on the basis of market rate(s).

**6. Rate for Extra, Altered or Substituted Items:**

The rate of extra items, altered items or substituted items etc., shall be paid as worked out above in clause 5.0 or market (Rates) which is less.

**7. SUSPENSION OF WORKS:**

- 7.1 The Contractor shall, on receipt of the order in writing of the Engineer-in-Charge, suspend the progress of the work or any part thereof for such time and in such manner as the Engineer-in-Charge may consider necessary for any of the following reasons:
- (i) On account of any default on part of the Contractor; or
  - (ii) For proper execution of the Works or part thereof for reasons other than the default of the Contractor; or
  - (iii) For safety of the Works or part thereof.
- The Contractor shall, during such suspension, properly protect and secure the Works to the extent necessary and carry out the instruction given by the Engineer-in-Charge.

**8. CONSTRUCTION PLANT & MACHINERY:** All the Construction plant & Machinery shall be arranged by the agency.

**9. LABOUR**

- 9.1 The contractor shall employ labour in sufficient numbers to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the Contract and to the satisfaction of the Engineer-in-Charge. The Contractor shall not employ in connection with the works any person who has not completed his fifteen years of age.
- 9.2 The Contractor shall pay to the labour employed by him either directly or through subcontractor wages not less than fair wages as defined in the Contractor Labour Regulations.
- 9.3 The Contractor shall in respect of labour employed by him or his sub-contractors comply with or cause to be complied with the Contractors Labour Regulations in regard to all matters provided therein.
- i) The Contractor shall at his own expense comply with up-to-date amendments, if any and other law relating thereto and rules made thereof from time to time. The acts mentioned herein are only illustrative and not exhaustive.
- a) Payment of Wages Act, 1936
  - b) Minimum Wages Act, 1948
  - c) Employer's Liability Act, 1938
  - d) Workmen's Compensation Act, 1923
  - e) Industrial Dispute Act, 1947
  - f) Maternity Benefit Act, 1961
  - g) Mines Act, 1952
  - h) Contract Labour Regulation Act, 1970
  - i) Industrial Employment Act, 1946
  - j) Personal injuries (Compensation Insurance Act.)





- k) Payment of Bonus Act, 1965
  - l) U.P. Contract Labour (Regulation & Abolition) Rules, 1975
  - m) Provident Fund Act.
  - n) EPF Code No. under the Employees Provident Funds and Miscellaneous Provision Act 1952.
  - o) ESI Code No. under Employees State Insurance Act, 1948.
  - p) Building & other construction workers (Regulation of Employment and conditions of services) Act, 1996 along with Rules, 1996 of Cess Act and Rules.
- (ii) The Contractor shall be liable to pay his contribution and the employee contribution to the state insurance & regional provident fund commissioner Scheme in respect of all labour employed by him for the execution of the contract, in accordance with the provision of "The employees State Insurance Act, 1948 as amended from time to time. In case the contractor fails to submit full details of his account of labour employed and the contribution payable, the Engineer-in-Charge shall recover from the running bills of Contractor an amount of contribution as assessed by him. The amount so recovered shall be adjusted against the actual contribution payable for Employee State Insurance.
- 9.4 Contractor shall indicate their GST No. & P.F. code no issued by concerned authorities.
- 9.5 The Engineer-in-charge shall, on report having been made by an inspection officer as defined in the Contractors Labour Regulation, have the power to deduct from the money due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfillment of the Conditions of the Contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the contract or non-observance of the said Contractors Labour Regulations.
- 9.6 The Contractor, shall indemnify the IGM, Noida against any payments to be made under and for observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractor.
- 9.7 In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid Contractors Labour Regulations as amended from time to time or furnishing any information or submitting or filling any Form/Register/Slip under the provisions of these Regulations which is materially incorrect, then on the report of the inspection officers as defined in the Contractors Labour Regulations the contractor shall without prejudice to any other liability pay to the IGM, Noida a sum as demanded under the contractor's default containing in this respect, the liquidated damages may be enhanced to Rs. 50.00 per day for each day of default subject to maximum of ten percent of the estimated cost of the Works put to tender. The Engineer-in-Charge shall deduct such amount from bills or security deposit of the Contractor and credit the same to the Welfare Fund constituted under Regulation.
- 9.8 Model Rules for Labour Welfare:**  
The contractor shall at his own expenses comply with or cause to be complied with Model Rules for Labour as appended to this Conditions or rules framed by Government from time to time for the protection of health and for making sanitary arrangements for workers employed directly or indirectly on the works. In case the contractor fails to make arrangement as aforesaid, the Engineer-in-Charge shall be entitled to do so and recover the cost thereof from the Contractor. But this will not absolve the Contractor of his responsibility or otherwise thereof.
- 9.9 Safety Code:**  
The Contractor shall at his own expense make arrangement for the safety provision as appended to this G.C.C. or as required by the Engineer-in-Charge, in respect of all labour directly or indirectly employed for performance of the works and shall provide all facilities in connection therewith. In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid, the Engineer-in-Charge shall be entitled to do so and recover the cost thereof from the contractor. But this will not absolve the Contractor of his responsibility or otherwise thereof.
- 9.10 Failure to comply with model Rules for Labour Welfare, and to grant of maternity benefits



to female workers shall make the contractor liable to pay damage as imposed by Labour Department/Court for each default. The decision of the Engineer-in-Charge in such matters based on reports from the inspecting Officers as defined in the Contractor's Labour Regulations as appended to this G.C.C. shall be final and binding and deduction for recovery of such damages may be made from any amount payable to the contractor.

**10. Materials Obtained from Excavation:**

Materials of any kind obtained from excavation on the Site shall remain the property of the IGM, Noida direct.

**11. Treasure, Trove, Fossil, Etc.**

All fossils, coins, articles of value or antiquity and structures and other remains or things of geological or archeological interest discovered on the Site shall be the absolute property of the IGM, Noida and the Contractor shall take reasonable precautions to prevent his workmen or any other person from removing or damaging any such article or thing and shall immediately upon discovery thereof and before removal acquaint the Engineer-in-Charge with such discovery and carry out as per the Engineer-in-Charge's directions.

**12. PROTECTION OF TREES:**

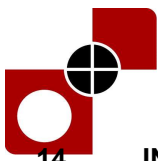
Trees designated by the Engineer-in-Charge shall be protected from damage during the course of the Works and earth level within 1 meter of each such tree shall not be changed. Where necessary, such trees shall be protected by providing temporary fencing.

**13. CONTRACTOR'S SUPERVISION:** The Contractor shall either himself supervise the execution of the Works or shall appoint a competent agent approved by the Engineer-in-Charge. If the Contractor has himself not sufficient knowledge and experience to be capable of receiving instructions or cannot give his full attention to the Works, the Contractor, shall at his own expense, employ as his accredited agent an engineer approved by the Engineer-in-Charge. Orders given to the contractor's agent shall be considered to have the same force if these had been given to the Contractor himself. If the Contractor fails to appoint a suitable agent as directed by the Engineer-in-Charge, the Engineer-in-Charge shall have full powers to suspend the execution of the Works until such date a suitable agent is appointed and the Contractor shall be held responsible for the delay so caused to the works.

**GENERAL GUIDELINES FOR FIXING REQUIREMENT OF TECHNICAL STAFF: -**

Cost of Work (Rs. in Crores)	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)
	Qualification	Number of Major+ Minor component			
More Than 1.5 to 5 Crores	Graduate Engineer or Diploma Engineer	1+1	2 or 5 respectively	Project Manager cum Planning/ Quality/Site/Billing Engineer	Rs.15,000/- per month per person.
More Than 15 Lacs to 1.5 Crore	Graduate Engineer or Diploma Engineer	1 of Major component	2 or 5 respectively	Project Manager cum Planning/ Quality/Site/Billing Engineer	Rs.15,000/- per month per person.

**Notes: -**1. 'Cost of work,' in table above, means the estimated cost of the work put to tender.



14.

**INSPECTION AND APPROVAL:**

All works embracing more than one process shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice to the Engineer-in-Charge or his QA authorized representative when each stage is ready. In default of such notice, the Engineer-in-Charge shall be entitled to appraise the quality and extent thereof.

- 14.1 No work shall be covered up or put out of view without the approval of the Engineer-in-Charge or his authorized representative and the contractor shall afford full opportunity for examination at every stage and measurement of any work which is about to be covered up or put out of view and for examination of foundations before permanent work is placed thereon. The Contractor shall give due notice to the Engineer-in-Charge or his authorized representative whenever any such work or foundation is ready for examination and the Engineer-in-Charge or his representative shall without unreasonable delay unless he considers it unnecessary advise the Contractor accordingly, attend for the purpose of examining and measuring such work or of examining such foundations. In the event of the failure of the Contractor to give such notice he shall, if required by the Engineer-in-Charge, uncover such work at the contractor's expenses.
- 14.2 The Engineer-in-Charge or his representative or representative of Department shall have powers at any time to inspect and examine any part of the Works and the Contractor shall give such facilities as may be required for such inspection and examination.

**15. DUTIES AND POWERS OF ENGINEER-IN-CHARGE AND ENGINEER-IN-CHARGE'S REPRESENTATIVE:**

- 15.1 The Engineer-in-charge shall carry out the duties specified in the contract which includes direction, supervision, and be in-charge of the works for purposes of this contract.
- 15.2 The Engineer-in-Charge may exercise the authority specified in or necessarily to be implied from the Contract, provided however, that if the Engineer-in-charge is required to obtain the specific approval from a Competent Authority other than him before exercising any such authority, he will do so and convey the decision to the Contractor.
- 15.3 The Engineer-in-Charge's Representative will be appointed by and be responsible to the Engineer-in-Charge and will carry out such duties and exercise such authority as may be delegated to him by the Engineer-in-charge. He shall have no authority to relieve the Contractor of any of his duties or obligations under the Contract nor, except as expressly provided hereunder or elsewhere in the Contract, to order any work involving delay or any extra payment by the IGM, NOIDA nor to make any variation in the works.
- 15.4 The Engineer-in-charge may, from time to time, delegate to the Engineer-in-charge's representative any of the powers and authorities vested in the Engineer-in-charge and he may at any time revoke such delegation. Any communication issued by the Engineer-in-charge's representative to the contractor in accordance with such delegation shall have the same effect as though it had been issued by the Engineer-in-Charge. Provided that:
  - a) Any failure of the Engineer-in-Charge's representative to disapprove any work or materials shall not prejudice the authority of the Engineer-in-Charge thereafter to disapprove such work or materials and to give instructions for the removal or for the rectification thereof.
  - b) If the Contractor questions any communication of the Engineer-in-Charge's representative, he may refer the matter to the Engineer-in-Charge who will confirm, reverse or vary the contents of such communication.
- 15.5 The Engineer-in-Charge or the Engineer-in-Charge's Representative may appoint any number of persons to assist the Engineer-in-Charge's representative in the carrying out of his duties. Such assistants shall have no authority to issue any instructions to the Contractor save in so far as such instructions may be necessary to enable them to carry out their duties and to secure their acceptance of materials, plant, equipment and machinery or workmanship as being in accordance with the Contract, and any instructions given by any of them for those purposes shall be deemed too has been given by the Engineer-in-Charge's representative.
- 15.6 Instructions given by the Engineer-in-Charge shall be in writing, provided that if for any reason the Engineer-in-Charge considers it necessary to give any such instruction orally, the Contractor shall comply with such instruction. Confirmation in writing of such oral instruction



given by the Engineer-in-charge, whether before or after the carrying out of the instruction, shall be deemed to be an instruction within the meaning of this sub-clause. Provided further that if the contractor, within seven days, confirms in writing to the Engineer-in-Charge any oral instructions of the Engineer-in-Charge and such confirmation is not contradicted in writing within seven days by the Engineer-in-Charge, it shall be deemed to be an instruction of the Engineer-in-Charge. The provisions of this sub clause shall equally apply to instructions given by the Engineer-in-Charge's Representative and any assistants of the Engineer-in-Charge or the Engineer-in-Charge's Representative appointed.

**16. REMOVAL OF WORKMEN:**

The Contractor shall employ in and about the execution of the Works only such persons as are skilled and experienced in their several trades and the Engineer-in-Charge shall be at liberty to object to and require the Contractor to remove from the Works any person employed by the Contractor in or about the execution of the Works who in the opinion of the Engineer-in-Charge misconducts himself or is incompetent or negligent in the proper performance of his duties and such person shall not be again employed upon the Works without permission of the Engineer-in-Charge.

**17. WORK DURING NIGHT OR ON SUNDAYS AND HOLIDAYS:** Subjects to any provisions to the contrary contained in the Contract, none of the permanent works shall be carried out during night or on Sundays or on authorized holidays without the permission in writing of the Engineer-in-Charge.

**18. COMPLETION CERTIFICATE:**

As soon as the work is completed, the contractor shall give notice of such completion to the Engineer-in-Charge and within thirty days of receipt of such notice the Engineer-in-Charge shall inspect the work and shall furnish the Contractor with a certificate of completion indicating (a) date of completion (b) defects to be rectified by the Contractor and/or (c) item for which payment shall be made at reduced rates. When separate periods of completion have been specified for items or groups of items, the Engineer-in-Charge shall issue separate completion certificates for such item or groups of items. No certificate of completion shall be issued nor shall the work be considered to be complete till the Contractor shall have removed from the premises on which the work has been executed all scaffolding, shed and surplus materials except such as are required for rectification of defects, rubbish and all huts and sanitary arrangements required for his workmen on the site in connection with the execution of the work, as shall have been erected by the Contractor or the workmen and cleaned all dirt from the part to buildings (s) in, upon or about which the work has been executed or of which he may have had possession for the purpose of the execution thereof, cleaned the floor, gutters and drains, eased doors and sashes, oiled locks and fastenings labeled keys clearly and handed them over to the Engineer-in-Charge and made the whole premises fit for immediate occupation or use to the satisfaction of the Engineer-in-Charge. If the Contractor shall fail to comply with any of the requirements of this clause as aforesaid, on or before the date of completion of the Works, the Engineer-in-Charge may at the expense of the Contractor fulfill such requirements and dispose of the scaffoldings, surplus materials and rubbish, etc. as he thinks fit and the Contractor shall have no claim in respect of any such scaffoldings or surplus materials except for any sum actually realized by the sale thereof less the cost of fulfilling the requirements and any other amount that may be due from the Contractor. If the expense of fulfilling such requirements is more than the amount realized on such disposal as aforesaid, the Contractor shall forthwith on demand pay such excess.

**18.1** If at any time before completion of the entire work, items or groups of items for which separate periods of completion have been specified, have been completed, the Engineer-in-Charge can take possession of any part or parts of the same (any such part (s) being hereinafter in this clause referred to as the relevant part) then notwithstanding anything expressed or implied elsewhere in this Contract:

a) Within thirty days of the date of completion of such items or groups of items or of possession of the relevant part, Engineer-in-Charge shall issue completion certificate for the relevant part as in clause 30 above provided the contractor fulfils his obligations under the clause for the relevant part.

b) The defects Liability period in respect of such items and the relevant part shall be



deemed to have commenced from the certified date of completion of such items or the relevant part as the case may be.

c) The Contractor may reduce the value insured by the full value of the completed items or relevant part as estimated by the Engineer-in-Charge for this purpose. This estimate shall be applicable for this purpose only and not for any other purposes.

d) For the purposes of ascertaining compensation for delay under clause No.33.0 in respect of any period during which the works are not complete the relevant part will be deemed to form a separate items or group, with date of completion as given in the Contract or as extended and actual date of completion as certified by the Engineer-in- Charge under this clause.

**19. NOTICES TO LOCAL BODIES:**

19.1 Contractor shall comply with and give all notices required under any Governmental authority, instrument, rule or order made under any Act of Parliament, State laws or any regulation or bye-laws of any local authority relating to the Works. He shall, before making any variation from the contract drawings necessitated by such compliance, give to the Engineer-in-Charges a written notice giving reasons for the proposed variation and obtain the Engineer in charge's instructions thereon.

19.2 The Contractor shall pay and indemnify the IGM, Noida against any liability in respect of any fees or charges payable under any Act of parliament, State laws or any Government instrument rule or order and any regulations or bye laws of any local authority in respect of the works.

**20. INSTRUCTIONS AND NOTICES:**

20.1 Subject to as otherwise provided in this contract, all notices to be given on behalf of the IGM, Noida and all other actions to be taken on its behalf may be given or taken by the Engineer-in-Charge or any officer for the time being entrusted with the functions, duties and powers of the Engineer-in-Charge.

20.2 All instructions, notices and communications, etc., under the contract shall be given in writing and if sent by registered post to the last known place of abode or business of the Contractor shall be deemed to have been served on the date when in the ordinary course of post these would have been delivered to him.

20.3 The Contractor or his agent shall be in attendance at the site (s) during all working hours and shall superintend the execution of the works with such additional assistance in each trade as the Engineer-in-Charge may consider necessary. Order given to the contractor's Agent shall be considered to have the same force as if they had been given to the contractor himself.

20.4 The Engineer-in-Charge shall communicate or confirm the instructions to the Contractor in respect of the execution of works in a Works Site Order Book maintained in the office of the Engineer-in-Charge and the Contractor or his authorized representative shall confirm receipt of such instructions by signing the relevant entries in this Book. If required by the Contractor he shall be furnished a certified true copy of such instruction(s).

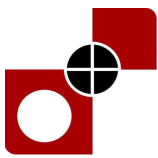
**21. Foreclosure of Contract in Full or In Part Due to Abandonment or Reduction in Scope of Work.**

21.1 If at any time after acceptance of the tender, the IGM, Noida shall decide to abandon or reduce the scope of the work for any reason whatsoever and hence not require the whole or any part of the Works to be carried out, the Engineer-in-Charge shall give notice in writing to that effect to the Contractor and the Contractor shall have no claim to any payment of compensation or otherwise whatsoever on account of any profit or advantage which he might have derived from the execution of the works in full but which he did not derive in consequence of the foreclosure of whole or part of the works.

21.2 The Contractor shall be paid at Contract rates full amount of work executed at site and any other amount as admissible under contract.

**22. LIABILITY FOR DAMAGE DEFECTS OR IMPERFECTIONS AND RECTIFICATION THEREOF:**

22.1 If the Contractor or his workman or employees shall injure or destroy any part of the building in which they may be working or any building, road, fence etc. Contiguous to the premises



on which the work or any part of its is being executed or if any damage shall happen to the work while in progress, the Contractor shall upon receipt of a notice in writing in that behalf make the same good at his own expense. If it shall appear to the Engineer-in- Charge or his representative at any time during construction or re-construction or prior to the expiration of the Defects Liability Period that any work has been executed with unsound, imperfect or unskilled workmanship or that any materials or articles provided by the Contractor for execution of the work are unsound or of a quality inferior to that contracted for, or otherwise not in accordance with the contract, or that any defect, shrinkage or other faults have appeared in the work arising out of defective or improper materials or workmanship, the Contractor shall upon receipt of a notice in writing in that behalf from the Engineer-in-Charge, forthwith, rectify or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be and/or, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own expense, notwithstanding that the same may have been inadvertently passed, certified and paid for and in the event of his failing to do so within the period to be specified by the Engineer-in-Charge in his notice aforesaid, the Engineer- in-Charge may rectify or remove and re-execute the work and/or remove and replace with others, the materials or articles complained of, as the case may be, by other means at the risk and expense of the Contractor.

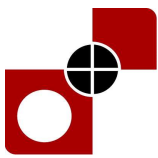
22.2 In case of repairs and maintenance works, splashes and droppings from white washing, painting etc. shall be removed and surfaces cleaned simultaneously with completion of these items of work in individual rooms, quarters or premises, etc. where the work to be done, without waiting for completion of all other items of work in the contract. In case the Contractor fails to comply with the requirements of this condition, the Engineer-in-Charge shall have the right to get the work done by other means at the cost of the Contractor. Before taking such action, however the Engineer-in-Charge shall give three days' notice in writing to the Contractor.

**23. URGENT WORKS:**

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

**24. Examination by Chief Technical Examiner (CTE), Govt. of India:**

The work(s) will be open to examination by CTE (Chief Technical Examiner) or by any other agency of Govt. of India. The IGM, Noida will in no way be responsible if as a result of the above said examination, some discrepancies/ defects are noticed and that it will be the responsibility of the contractor to make good/ rectify all the defects/ discrepancies/ shortcomings and any recovery, if advised on such examination will be effected by the IGM, Noida and the contractor shall agree to it without demur or reservation.



## **SECTION V: SPECIAL CONDITIONS OF CONTRACT (SCC)**

The following Special Conditions of Contract (SCC) will apply for this Purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.

These Special Conditions will modify/ substitute/ supplement the corresponding (GCC) clauses. Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

(Clauses of GCC listed below include a possibility for variation in their provisions through SCC. There could be other clauses in SCC as deemed fit)

<b>S. No</b>	<b>GCC Clause No.</b>	<b>Topic</b>	<b>Modify/ Substitute/ Supplement</b>	<b>SCC Provision</b>
1	6.1, 6.3	Performance Bond/ Security	Modify	SCC -1 (Mentioned below)
2	8.2	Packing and marking		Not applicable
3	9.1	Pre-shipment Inspection		Not applicable
4	11.2	Transportation of Domestic Goods		As applicable
5	12	Insurance	Modify	SCC-2(Mentioned below)
6	14.1	Incidental Services		As applicable
7	15	Distribution of Dispatch Documents for clearance / Receipt of Goods		Not applicable
8	16.2,16.4	Warrantee Clause	Modify	SCC-3(Mentioned below)
9	19.3	Option Clause	Modify	SCC-4(Mentioned below)
10	20.1	Price Adjustment Clause		Not applicable
11	21.	Taxes and Duties	Modify	SCC-5 (Mentioned below)
12	22.	Terms and Mode of payments	Modify	SCC-6 (Mentioned below)
13	24.1	Quantum of LD		SCC-7 (Mentioned below)
14	25.1	Bank Guarantee and Insurance for Material Loaned to Contractor		Not applicable
15	29	Termination for convenience	Modify	SCC-8 (Mentioned below)
16	33.1	Resolution of Disputes		As applicable

### **SCC-1: Performance Bond/ Security:**

The successful bidder shall furnish Security Deposit within 21 days of issue LOA in the form of unconditional Bank Guarantee (including e-Bank Guarantee)Account Payee Demand Draft or Fixed Deposit Receipt or online payment, from any scheduled commercial Bank of India in favor of the "India Government Mint, Noida", for 10% value of the purchase/work order valid upto 60 days beyond the date of completion of all contractual obligations by the supplier, including the warranty obligations. EMD shall be refunded/ returned without any interest on request of the bidder and after receipt of Performance Bank Guarantee and signing of the contract with successful bidder.



## **SCC-2: INSURANCE**

- i. During the Contract period, all insurance shall be taken by the Contractor and related expenses shall be borne by the Contractor. The Owner shall not incur any financial loss.
- ii. In case of any loss or damage or pilferage or theft or fire accident or combination of the said incidents etc. under the coverage of insurance, the Contractor shall lodge the claim as per rules of insurance. Any FIR required to be lodged to local Police Station shall be the responsibility of the Contractor.
- iii. The Contractor shall arrange for providing insurance coverage to its workmen under Workmen's Compensation Act or similar Rules and Acts as applicable during execution of work for covering risk against any mishap to its workmen. The Contractor shall also undertake a Third-Party Insurance. The Owner shall not be responsible for any such loss or mishap.

## **SCC-3: Warranty Clause (Defects liability period)**

The defect liability period for the work is 12 months from the date of completion of the work. The Contractor shall be responsible to make good and remedy at his own expense within such period, any defect which may develop or may be noticed before the expiry of the defect liability period from the certified date of completion and intimation of which has been sent to the Contractor within seven days of the expiry of the said period by a letter sent by hand delivery or by registered post or by email.

## **SCC-4: Option Clause**

India Government Mint, Noida reserves the right to increase the ordered quantity (Scope of work) up to 25% at any time, till final delivery of the contract, by giving reasonable notice even though the quantity delivered initially has been completed in full before the last date of delivery.

## **SCC 5: - Taxes and Duties**

Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until completion of the contracted works to SPMCIL. If the tenderer fails to include taxes and duties as per law of the land in the tender, no claim thereof will be considered by purchaser at a later stage.

## **SCC 6: - Terms and Mode of payments:**

### **(A) Payment shall be done as per site condition and actual measurement as follows:**

- (i) The contractor shall be paid on monthly running bill basis for 80% of the value of the work actual, executed on site duly certified by concerned Mint Officials.
- (ii) Balance 20% payment shall be released after successful completion of work on submission of 'Completion Certificate' duly certified by concerned Mint Officials.

### **(B) Records and Measurement**

- (i) Engineer-in-Charge i.e. authorized executive or officer of IG Mint, Noida shall, except as otherwise provided, ascertain and determine by measurement the value of work done in accordance with the contract.
- (ii) All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book (CMB) / Computerized Level Book (CLB) having pages of A-4 size as per the format of the department so that a complete record is obtained of all the items of works executed under the contract.
- (iii) All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the Engineer-in-Charge or his/her authorized representative as per interval or program fixed in consultation with Engineer-in-Charge or his/her authorized representative.
- (iv) In case of CMB/CLB, after the necessary corrections made by the Engineer-in-Charge or his/her authorized representative, the measurement sheets/ shall be returned to the contractor

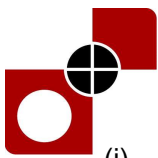




for incorporating the corrections and for resubmission to the Engineer-in-Charge for the dated signatures by the Engineer-in-Charge and the contractor or their representatives in token of their acceptance.

- (v) Whenever bill is due for payment, in case of CMB, the contractor would initially submit draft computerized measurement sheets and these measurement(s) would be got checked from the Engineer-in-Charge and/ or his/her authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks in his draft computerized measurement(s) and submit to the department a computerized measurement book, duly bound, and with its pages machine numbered.
- (vi) The Engineer-in-Charge and/ or his/her authorized representative would thereafter check this CMB and record the necessary certificates for their checks/ test checks.
- (vii) The final, fair, computerized measurement book (CMB) given by the contractor, duly bound, with its pages machine numbered, should be 100% correct, and no cutting or over-writing in the measurement(s) would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit afresh CMB with its pages duly machine numbered and bound, after getting the earlier MB cancelled by the department.
- (viii) The contractor shall submit two spare copies of such CMBs for the purpose of reference and record by the various officers of the department.
- (ix) The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages machine numbered along with two spare copies of the bill.
- (x) The contractor shall, without extra charge, provide all assistance with every appliance, labour and other things necessary for checking of measurements/levels by the Engineer-in-Charge or his/her authorized representative.
- (xi) Except where any general or detailed description of the work expressly shows to the contrary, measurements shall be taken in accordance with the procedure set forth in the specifications notwithstanding any provision in the relevant Standard Method of measurement or any general or local custom. In the case of items which are not covered by specifications, measurements shall be taken in accordance with the relevant standard method of measurement issued by the Bureau of Indian Standards and if for any item no such standard is available then a mutually agreed method shall be followed.
- (xii) The contractor shall give not less than seven days' notice to the Engineer-in-Charge or his/her authorized representative-in-charge of the work before covering up or otherwise placing beyond the reach of checking the measurement of any work in order that the same may be checked and correct dimensions thereof be taken before the same is covered up or placed beyond the reach of checking and shall not cover up and place beyond reach of measurement any work without consent in writing of the Engineer-in-Charge or his/her authorized representative- in-charge of the work who shall within the aforesaid period of seven days inspect the work, and if any work shall be covered up or placed beyond the reach of checking and/or test checking measurements without such notice having been given or the Engineer-in-Charge's consent being obtained in writing the same shall be uncovered at the Contractor's expense, or in default thereof no payment or allowance shall be made for such work or the materials with which the same was executed.
- (xiii) Engineer-in-Charge or his/her authorized representative may cause either themselves or through another officer of the department to check the measurements/levels recorded by contractor and all provisions stipulated herein above shall be applicable to such checking of measurements or levels.
- (xiv) It is also a term of this contract that checking the measurements/levels of any item of work in the CMB or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defect's liability period.

**(C) METHODS OF MEASUREMENT:**



- (i) Except where any general or detailed description of the work in quantities expressly shows to the contrary, Schedule of Quantities shall be deemed to have been prepared and measurement shall be taken in accordance with the procedure set forth in the Schedule of rates/ Specification notwithstanding any provision in the relevant standard method of measurement of any general or local custom. In the case of item which are not covered by the Schedule of Rates/Specification, measurement shall be taken in accordance with the relevant standard method of measurement issued by the Indian Standard Institution/or CPWD specifications 2019 (volume I & II) with up-to-date correction slips.

**(D) PAYMENT OF FINAL BILLS:**

(a) The final bill shall be submitted by the Contractor within three months of physical completion of the work along with the following: -

- (i) Work completion certificate
- (ii) Submission of as built drawings
- (iii) No claim certificates
- (iv) Extension of bank guarantee.
- (v) Rectification of defects, if any.

No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished.

(b) Payment towards extra items substituted items and deviated items etc. shall be made only after issue of Amendment to letter of Award indicating rates and quantity and their acceptance by the contractor.

**(E) OVER PAYMENT AND UNDERPAYMENTS:**

- (i) Wherever any claim for the payment of a money or sum of money to the IGM, Noida arises out of or Under this Contract against the Contractor the same may be deducted by the IGM, Noida from any sum then due or which at any time thereafter may become due to the Contractor under this contract and failing that under any other contract with the IGM, Noida or from any other sum due to the Contractor from the IGM, Noida which may be available with the IGM, Noida or from his security deposit/or he shall pay the claim on demand.
- (ii) The IGM, Noida reserve the right to carry out post payment audit and technical examination of the final bill including all supporting vouchers, abstracts, etc. the IGM, Noida further reserve the right to recover any overpayment when detected notwithstanding the fact that amount of final bill may be included by one of the parties as an items of dispute before an arbitrator appointed under this contract and notwithstanding the fact that the amount of the final bill figures in the arbitration award or that the amount under the final bill stands already paid to the contractor.
- (iii) If as a result of such audit and technical Examination any overpayment is discovered in Respect of any work done by the Contractor or alleged to have been done by him under the contract, it shall be recovered by the IGM, Noida from the Contractor by any or all of the methods prescribed above. If any underpayment is discovered, the amount shall be duly paid to the Contractor by the IGM, Noida.
- (iv) Provided that the aforesaid right of the IGM, Noida to adjust overpayments against amount due to the Contractor under other contract with IGM, Noida shall not extend beyond the period of 3 years from the date of Payment of the final bill or in case the final bill is a MINUS bill from the date the amount payable by the Contractor under the MINUS final bill is communicated to the contractors.
- (v) Any sum of money due and payable to the contractor (including the security deposit returnable to him) under the contract may be withheld or retained by way of lien by the Engineer-in-Charge or IGM, Noida against any claim of the IGM, Noida or such other person or persons in respect of payment of a sum of money arising out of or under any



other contract made by the Engineer-in-Charge or IGM, Noida or with such other person or persons. The sum of money withheld or retained under this clause by the Engineer-in-Charge or IGM, Noida or will be kept withheld or retained as such by the Engineer-in-Charge or IGM, Noida till his dues arising-out-of in the same contract or any other contract is either mutually settled or determined by the arbitrator, if the contract is governed by the arbitration clause by the competent court hereinafter provided, as the case may be, and the contractor shall have no claim for interest or damages whatever on this account or any other ground in respect of any sum of money withheld or retained under this clause.

**(F) NO CLAIM FOR INTEREST OR DAMAGE:**

No claim for interest or damage will be entertained or be payable by the IGM, Noida in respect of any amount or balance which may be lying with the IGM, Noida or may become due upon settlement of any dispute, difference or misunderstanding between the parties by way of arbitration or otherwise or in respect of any delay or omission on the part of the Engineer-in-charge in making intermediate or final payment or in respect of any amount/ damage which may be claimed through arbitration or in any other respect whatsoever.

**(G) INTEREST ON MONEY DUE TO THE CONTRACTOR**

No Omission on the part of the IGM, Noida to pay the amount due upon measurement or otherwise shall vitiate or make void the contract, nor shall the Contractor be entitled to interest upon any guarantee/ security/ retention money or payments neither in arrears nor upon any balance which may on the final settlement of his account be due to him.

**(H) PAYMENTS PROCEDURE**

Subject to any deduction which the Owner may be authorized to make under this Contract, and or to any additions or deductions provided for in this Contract, the Contractor shall be entitled to payment as follows

- a. All payments shall be made in Indian Rupees (INR). All payment shall be made on the basis of actual measurement for the quantified items as per schedule of works as mentioned in clause SCC- 6
- b. The Contractor shall submit the bill for claim in three copies with all supporting documents as per the Contract condition to IGM, NOIDA After due verification and recommendation, IGM, NOIDA shall process verified bills for release of payment. Payments shall be released in 30 (Thirty) days by A/c payee cheque / RTGS/ NEFT from date of submission of clear invoice.
- c. The Contractor shall submit the bill / invoice for the work executed showing separately GST and any other statutory levies in the bill / invoice.
- d. All taxes and deductions shall be applicable as per prevailing income tax and other statutory rules and provisions in force.
- e. In case Contractor fails to submit the invoice with all the required documents to process payments, IGM, NOIDA reserves the right to hold the payment of the Contractor against such bills.

**SCC 7: - Liquidated Damages (Compensation for Delay):**

- (i) If the contractor fails to maintain the required progress in term of time schedule to complete the



- work and clear the site on or before the scheduled date or extended date of completion, he shall without prejudice to any other right or remedy of the IGM, Noida on account of such breach, pay as liquidated damages, not as penalty, an amount equivalent to the value calculated at the rate of half percent (1/2%) of contract value for every week or part thereof for delay in execution of completion of work.
- (ii) The total amount of liquidated Damages for delay in completion under the contract will be subject to a maximum of 10 % (Ten percent) of the total contract value.
  - (iii) The amount of liquidated damages may be adjusted against any sum payable to the contractor or from any money(s) of contractor available with IGM, Noida.
  - (iv) Any strike / lockouts at works or site of the Contractor or his sub-supplier/sub-contractor, normal rainy seasons and monsoon shall not be considered as force majeure condition.
  - (v) For calculation of LD, date of issue of LOA shall be the reference date.

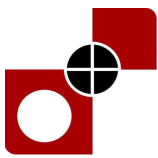
### **SCC 8: - TERMINATION FOR CONVENIENCE**

1. If the Contractor:
  - (a) At any time make default in proceeding with the works with due diligence and continues to do so after a notice in writing of 7 days from Owner, or
  - (b) Commits default in complying with any of the terms and conditions of the Contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by the Owner, or
  - (c) Fails to complete the works or items of the work with individual dates of completion, on or before the date(s) of completion, and does not complete them within the period specified in a notice given in writing in that behalf by the Owner, or
  - (d) Shall offer, or give or agree to give to any person in IGM, Noida's service or to any other person on his behalf any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or having done or forborne to do any act in relation to the obtaining or execution of this or any other Contract for the IGM, Noida, or
  - (e) Shall enter into any contract with the IGM, Noida in connection with which commission has been paid or agreed to be paid by him or to his knowledge, unless the particulars of any such commission and terms of payment thereof have previously disclosed in writing to the Accepting Authority/Engineer-in-Charge, or
  - (f) Shall obtain a Contract from the IGM, Noida as a result of ring tendering or other non-bonafide methods of competitive tendering, or
  - (g) Being an individual, or if a firm, any partner thereof, shall at any time be adjudged insolvent or have a receiving order or order for administration of his Estate made against him or shall take any proceedings for liquidation or composition (other than voluntary liquidation for the purpose of amalgamation or reconstructions) under any insolvency Act for time being in force for the sequestration of his estate or if trust deed be executed by him for benefit of his creditors, or
  - (h) Being a company, shall pass a resolution or the court shall make an order for the liquidation of its affairs, or a receiver or manager on behalf of the debenture holders shall be appointed or circumstances shall arise which entitle the Court or debenture holders to appoint a receiver or manager, or
  - (i) Shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days or
  - (j) Assigns, transfers, sublets (engagement of labour on piece work basis or of labour with the materials not being incorporated in the work, shall not be deemed to be subletting) or attempts to assign, transfer or sublet the entire works or any portion thereof without the prior written approval of the Accepting Authority.

The Accepting Authority may without prejudice to any other right to remedy which shall have accrued or shall accrue thereafter to the IGM, Noida by written notice cancel the contract as a whole or only such items of the work in default from the Contract.



2. The Accepting Authority shall on such cancellation have powers to:
  - (a) Take possession of the site and any materials, constructional plant, implements, stores etc. thereon, and or
  - (b) Carry out the incomplete work/ part work/ part incomplete work of any item(s) by any means at the risk and cost of the Contractor.
3. On the cancellation of the contract in full or in part the Accepting Authority shall determine what amount, if any, is recoverable from the Contractor for completion of works or part of the works, or in case the Works or part of Works is not completed the loss or damage suffered by the IGM, Noida in determining the amount, credit shall be given to the contractor for the value of the work executed by him up to the time of cancellation, the value of Contractors material taken over and incorporated in the work, and use tools & tackles and machinery belonging to the Contractor. The plant & machinery and materials etc. deployed at site by the Contractor for the works shall be in the custody of Engineer-in-Charge or his representative.
4. The certificate of the Engineer-in-Charge as to the value of works done shall be final and conclusive against the contractor provided always that action under this clause shall only be taken after giving notice in writing to the contractor. Provided also that if the expenses incurred by the IGM, Noida are less than the amount payable to the contractor at his agreement rates, the difference shall not be payable to the contractor.  
Any excess expenditure incurred or to be incurred by the IGM, Noida in completing the works or part of the works or the excess loss or damages suffered or may be suffered by the IGM, Noida as aforesaid after allowing such credit shall be recovered from any money due to Contractor on any account, and if such money are not sufficient, the Contractor shall be called upon in writing to pay the same within 30 days.
5. If the Contractor shall fail to pay the required sum within the aforesaid period of 30 days, the Engineer-in-Charge shall have the right to sell any or all of the Contractor's unused materials, constructional plant, implements, temporary building, invoke Bank guarantees etc. and apply the proceeds of sale thereof towards satisfaction of any sum due from the contractor under the Contract and if thereafter there be any balance outstanding from the Contractor it shall be recovered in accordance with the provisions of the Contract.
6. Any sum in excess of the amounts due to the IGM, Noida and unsold materials, constructional plant, etc. shall be returned to the contractor, provided always that its cost or anticipated cost of completion by the IGM, Noida of the Works or part or the works is less than the amount which the contractor would have been paid had he completed the works or part of works, such benefit shall not accrue to the Contractor.



## **SECTION VI: LIST OF REQUIREMENTS**

<b>Schedule No.</b>	<b>Brief description of goods and services (Related specifications etc. are in Section-VII)</b>	<b>HSN Code</b>	<b>Accounting unit</b>	<b>Qty.</b>	<b>Amount of Earnest Money (INR)</b>	<b>Place of Delivery for GST purpose</b>
1	<b>Construction of a new Store Building at IGM, Noida.</b>		Job	01	Rs.4,90,000/- (Rupees Four lakh Ninety thousand only)	India Govt. Mint, D-2, Sector-1, Noida – 201 301 UP

**Required Delivery Schedule:** -The work is to be completed within 5 (Five) months from the date of issue of LOA.

### **BRIEF SCOPE OF WORK**

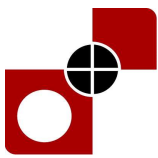
**SCOPE OF WORK:** The brief scope of work is as follows:

1. The proposed building should be constructed in R.C.C. framed structure.
2. The outer walls shall be constructed with AAC Blocks.
3. The staircase and Lift are proposed at the LHS of the building.
4. Aluminium windows with M.S. grill are to be provided in the building.
5. Rolling shutter is provided at the entrance of the building.
6. Plinth protection is to be provided all-round the building.
7. Kota stone flooring is proposed on the floors and staircase.
8. The terrace is to be provided with integral cement-based water proofing treatment.
9. Stainless steel railing is proposed in the staircase portion.
10. PVC rain water system shall be provided in the building.
11. The space of 8 meter between RBI store and proposed building shall be covered with steel truss and profile sheet at the first-floor roof level and 52 mm thick cement concrete flooring at the ground.
12. Internal and external walls along with steel work are to be suitably painted.
13. Provision for one toilet block has been made in the estimate.
14. Provision has been made for Anti-termite treatment in the estimate.
15. Provision for internal electrical installation has been made in the estimate.
16. Provision for firefighting (with sprinkler system) has been made in the estimate.
17. Provision has been made for CCTV system with cameras in the estimate.
18. Provision has been made for one Lift in the estimate.
19. Provision for HVAC has been made in the estimate.

The detailed Scope of Work with costing/estimates for the proposed new store building at IGM Noida is attached in following Annexures: -

- (a) Annexure - 1 (Abstract of Cost- Civil works)
- (b) Annexure - 2 (Abstract of Cost- HVAC work)
- (c) Annexure - 3 (Abstract of Cost- Plumbing works)
- (d) Annexure - 4 (Abstract of Cost- Electrical works)
- (e) Annexure - 5 (Abstract of Cost- Security System works)
- (f) Annexure - 6 (Abstract of Cost- Fire Fighting works)
- (g) Annexure - 7 (Estimate for Lift work)

**Site Visit:** - Interested contractors may please visit the site before quoting.



## **INSTRUCTION TO BIDDERS: -**

1. The Bidder is advised to visit and examine the site conditions, location, surroundings, climate, entry permission, availability of power, water and other utilities for performance of work, access to site, handling and storage of materials, weather data, applicable laws and regulations, and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into the Contract Agreement. The costs of visiting the Site shall be at Bidder's own expense. The tenderer 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. If water & Electricity are requested and arranged by IGM, Noida then its recovery @ 1% for each of the tendered/ executed cost shall be recovered from the bill of the contractor. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and local conditions and other factors having a bearing on the execution of the work.

### **2. Local Regulatory Frame Work:**

- i) It shall be imperative for each Bidder to fully inform itself of all local conditions, laws and factors which may have any effect on the execution of the Contract as described in the Bidding Documents. The Owner shall not entertain any request for clarification from the Bidder, regarding such local conditions.
- ii) It is the responsibility of the Bidder that such factors have properly been investigated and considered while submitting the Bid proposals and that no claim whatsoever including those for financial adjustment to the Contract awarded under the Bid document shall be entertained by the Owner and that neither any change in the time schedule of the Contract nor any financial adjustments arising thereof shall be permitted by the Owner

3. The contractor shall submit a detailed program of work within 7 days of the date of LOA. The Mint executives can modify the program and the contractor shall have to work accordingly.

4. The contractor shall be responsible for behavior and conduct of his worker. No worker with doubtful integrity or having a bad record shall be engaged at site of work by the contractor.

5. Work site will be kept neat and clean to the satisfaction of Mint executives.

6. The contractor shall maintain following records at site: -

- a) Site order book.
- b) Hindrance register.
- c) MAS register.
- d) Material test register.

### **7. PROGRESS REPORT:**

The contractor has to furnish "Progress Report" indicating details of labour and equipment deployed and the quantum of work done, and other relevant information during the fortnight to the Engineer-in-Charge in the prescribed proforma as he may require to assess and ensure proper progress of work. The progress report is to be submitted on 1st and 16th of every month to the Engineer-in-Charge. One copy of the progress report may be sent to the authority issuing Letter of Award and Planning department.



The Bidder has to upload/submit the Check list as per Format given below along with the Techno-commercial Documents.

Sl. No.	Description	Submitted/Not Submitted	Page No.
1	Tender form fee	Not applicable	
2	EMD (Earnest Money Deposit)		
3	Documentary evidence towards Experience as per clause 1 (A) of section IX.		
4	Documentary evidence towards Financial Standing 1 (B) as per clause 1 of section IX.		
5	Undertakings/Declarations as per clause 3 (e), (f) & (g) of section IX.		
6	Power of Attorney/ Authorization with the seal of company indicating that authorized signatory is competent and legally authorized to submit the tender and/ or to enter into legally binding contract.		
7	Copy of GST Registration No. and PAN Card details. Permanent EPF account no. and ESI registration No. (if applicable)		
8	All pages of the tender documents (including GIT, GCC, SIT, SCC, List of requirements, Technical specification, quality requirements, etc.) duly signed and stamped by the Authorized signatory of the bidder		
9	Adherence to the Technical Specification as per Section VII on Bidder's Letter Head and other required information		
10	Adherence to the Quality Control Requirements as per Section VIII on Bidder's Letter Head		
11	Adherence to the Delivery Schedule as per Section VI on Bidder's Letter Head		
12	Duly filled Tender form as per Section X		
13	Duly filled Section XII: Vendor details & along with required documents		
14	NEFT mandate as per Section XIX		

The Bidder has to submit the Check list as per Format given below along with the **Price Bid:**

Sl. No.	Description	Submitted/Not Submitted	Page No.
1	Duly filled Section XI: Price bid		





## **SECTION VII TECHNICAL SPECIFICATIONS**

### **GENERAL**

The quoted rates for various items in the tender shall be inclusive of all the additional conditions and particular specifications and for adherence to all these conditions and specifications, no extra payment shall be made to the contractor. Any infringement and/or breach of these specification and condition(s) etc. shall render the contractor liable to action(s) under various clauses of the contract and such action stipulated in conditions therein.

**Technical Conditions:** All the work shall be carried out as per the detail's technical specifications and conditions as per the CPWD Works Manual 2022. Also, if the technical specification is not covered in the CPWD Specifications-2019 Volume (I and II) then technical specification of UPPWD shall be followed.

### **[A] ADDITIONAL CONDITIONS**

1. The Contractor shall maintain safe custody of materials brought to the site. The Contractor shall also employ necessary watch and ward establishment for the work and other purposes as required at his own cost.
2. For Cement and Steel and other materials, as prescribed, the quantities brought at site shall be entered in the respective material at site accounts and shall be treated as issued for construction purpose.
3. The procurement of Cement and Reinforcement Steel, and, their issue and consumption shall be governed as per conditions laid down hereunder.

### **SPECIAL CONDITIONS**

#### **1. SPECIAL CONDITIONS FOR CEMENT**

- 1.1. The contractor shall procure 43 grade ordinary Portland cement conforming to IS 8112 as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by ADG for that sub region.

The tenderers may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer, fully or partially.

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.

- 1.2. The cement shall be brought at site in bulk supply of approximately 200 bags or as decided by the Engineer- in- charge. The cement godown of the capacity to store a minimum of 300 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.
- 1.3. The cement shall be got tested by the Engineer-in-charge and shall be used on the work



only 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. The cost of tests shall be borne by the contractor/Department in the manner indicated below:

- 1.3.1. By the contractor, if the results show that the cement does not conform to relevant BIS codes.
- 1.3.2. By the Department, if the results show that the cement conforms to relevant BIS codes.
- 1.4. 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.
- 1.5. 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.
- 1.6. Engineer-in-Charge may change the brand of Cement depending upon availability in local market, if needed. Instructions in this respect can be issued by them at regular intervals. The name of manufacturers should be finalized after taking into consideration the suggestions of contractors during pre-bid meeting, if any.
- 1.7. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been built in the items and nothing extra shall be payable or extra cement considered in consumption on this account.

## **2. SPECIAL CONDITIONS FOR STEEL REINFORCEMENT BARS**

- 2.1. The Contractor shall procure IS marked TMT bars of various grades from –
  - a) The Steel Manufacturers such as SAIL, TATA steel Ltd., RINL, Jindal Steel & Power Ltd, and JSW steel Ltd. or their authorized dealers having valid BIS license for IS: 1786-2008 (Amendment-I November 2012)
  - b) The steel manufacturers or their authorized dealers (as per following selection criteria) having valid BIS license for IS: 1786- 2008 (Amendment-1 November 2012). 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.
- 2.2 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.
- 2.3 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.
- 2.4 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.



2.5 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.

2.6 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:

<b>Size of bar</b>	<b>For consignment below 100 Tonnes</b>	<b>For consignment above 100 tonnes</b>
Under 10 mm dia bars	One sample for each 25 tonnes or part thereof	One sample for each 40 tonnes or part thereof
10 mm to 16 mm dia bars	One sample for each 35 tonnes or part thereof	One sample for each 45 tonnes or part thereof
Over 16 mm dia bars	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

2.7 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests 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 needs to be made.

2.9 The steel brought to site and the steel remain in go down. The steel shall not be removed from site without the written permission of the Engineer-in-charge.

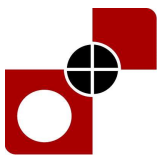
### **3. REMOVAL OF REJECTED/SUB-STANDARD MATERIALS**

The following procedure shall be followed for the removal of rejected/sub-standard materials from the site of work:

3.1 Whenever any material brought by the contractor to the site of work is rejected, entry thereof should invariably be made in the Site Order Book under the signature of the Engineer-in-Charge, giving the approximate quantity of such materials.

3.2 As soon as the material is removed, a certificate to that effect shall be recorded by the Engineer-in-Charge against the original entry, giving the date of removal and mode of removal, i.e., whether by truck, carts, or by manual labour. If the removal is by truck, the registration number of the truck should be recorded.

4. In case of works where Ready Mixed Concrete (RMC) is stipulated to be used from an approved source/ manufacturer, such registers need not be maintained. However, the computerized dispatch slips that are sent with each dispatch of RMC shall be kept on record.



## **PARTICULAR SPECIFICATIONS**

### **1. PROCUREMENT OF RAW MATERIALS**

**1.1. Stone Aggregate:** Stone aggregate used in the work shall be crushed or broken hard stone to be obtained from approved source/ quarry and shall conform to the relevant provisions in the CPWD specifications

**1.2. Coarse Sand:** Coarse sand used in the work shall be obtained from approved source and shall conform to the relevant provision in the CPWD specifications.

**1.3. Fine Sand:** Fine sand used in the work shall be obtained from approved source and shall conform to the relevant provision in the CPWD specifications. In case, sand available at above source does not conform to the required specifications, coarse sand shall be mixed in it to bring it to the required specifications. Nothing extra shall, however be paid for it

**1.4. NOTE:**

1.4.1. Where only one variety of sand is available, the sand will be sieved for use in finishing work, as directed by the Engineer-in-charge, in order to obtain smooth surface and nothing extra will be paid on this account.

1.4.2. The use of manufactured sand (M sand) is also allowed wherever there is scarcity of natural/ river sand. The manufactured sand shall be of good quality and should conform to CPWD specifications regarding grading of sand for its use in different civil works. Use of filter sand should not be used for civil works in any case.

**1.5. Sand for filling in Plinth:** The sand for filling in plinth under floor shall be obtained from approved source and shall conform to Clause-2.22.1 of CPWD specifications.

**1.6. The fineness modulus of sand** to be used in different works shall be as follows:

<b>Coarse Sand</b>	Fineness modulus between 2.5 to 3.5	As specified in the item like plain concrete, RCCwork, flooring work etc.
<b>Fine Sand</b>	Fineness modulus between 1.2 to 1.6	As specified in the items like, finishing coat of cement plaster, skirting, dado etc.

**1.7. Water:** It shall conform to requirements laid down in IS: 456-2000 and CPWD Specifications.

**1.8. Bricks for Brick Work:** Bricks used in the work shall be well burnt FPS bricks of uniform colour throughout the cross section to be obtained from approved kilns. In all other respect they shall conform to Class designation-75.

**1.9.** All above materials like stone aggregates, coarse sand, fine sand, Bricks, Stone etc. confirming to the CPWD specifications to be brought from the sources approved by Engineer-in-Charge. In case, at any stage during execution of work, the material from the approved source being not available or otherwise, and, is required to be arranged from other sources conforming to relevant CPWD specifications and duly approved of Engineer-in-Charge, involving extra lead etc., nothing extra shall be paid on this account.

### **2. PROCUREMENT OF READYMADE MATERIALS**

**2.1.** The manufactured materials brought at site of work shall, in general, conform to the relevant specifications. The source for supply of the manufactured materials shall be approved by the Engineer-in-Charge. The contractor shall have no claim if the manufactured materials brought to the site are rejected by the Engineer-in-Charge in part or in full due to bad workmanship/ quality etc.

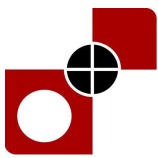
**2.2.** The preference amongst the various alternative materials available shall be as follows:

2.2.1. The materials shall be as per the Brand specified in the schedule of items.

2.2.2. If the brand specified in the schedule of item is not available then the material shall be used as per the brand specified in the list of preferred makes.

2.2.3. If the brand specified is not available in the preferred list, then the material shall be ISI marked.

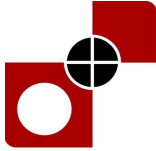
2.2.4. If ISI marked item is not available then it should be from ISO certified Company.



- 2.2.5. If the ISI marked or ISO certified items are not available then the best available items in the market to be procured as decided by the Engineer-in-charge.
- 2.3.** Equivalent for the various materials and the materials of approved make shall be got approved from the Engineer-in-Charge of work in writing before using them on the work.
- 2.4. Variation in basic cost of material in specified items:** In case of some items, the basic cost of primary material conforming to the nomenclature varies in a very wide range, for eg. decorative veneers, granite slab, marble stone, laminated sheet etc. In these items, the basic cost of primary material proposed to be used has been mentioned in the nomenclature of item. In such cases, cost-adjustment shall be done as per following procedure.
- 2.4.1. In those items where basic rate is mentioned in the nomenclature, no deduction or extra- payment shall be made if the actual basic rate of material approved & provided is within +/- 10% of the basic rate mentioned in the nomenclature.
- 2.4.2. It shall be the responsibility of contractor to provide sufficient documentary proof such as bills, invoice, quotations, and price list etc. regarding variation in pricing. The Engineer-in- charge may independently verify the lowest market rates and decide the admissibility and quantum of cost-adjustment which shall be final and binding upon the contractor.
- 2.4.3. This condition of extra payment for variation in basic cost of materials shall be applicable only for those items of schedule of quantities where the basic rate of material adopted in the estimate has been specifically mentioned in the nomenclature of item.

### **3. TESTING OF MATERIALS & RELATED ASPECTS**

- 3.1.** Materials brought at site of work shall not be used in the work before getting satisfactory Mandatory test results. For details, relevant provisions in the CPWD specification shall be referred to.
- 3.2.** If the testing specifications for any material are not available in the CPWD Specifications cited above, relevant BIS Specifications should be followed.
- 3.3.** The contractor shall procure all the materials/ samples in advance, so that there is sufficient time for testing of the same before use in work.
- 3.4.** Samples of various materials required for testing shall be provided free of charge by the contractor.
- 3.5.** All other expenditures incurred for testing such as packing, sealing, transportation, loading, unloading etc shall be borne by the contractor himself.
- 3.6.** Part rate payment shall be allowed in the running account bills only if the materials conforming to the CPWD specifications for works as mentioned in the work are tested and test results are found to be satisfactory by the Engineer-in-Charge.
- 3.7.** The Engineer-in-Charge of work shall check the test results and satisfy himself before allowing any payment in the running/final bill.
- 3.8.** No claims of any kind whatsoever including the claim of extension of time shall be entertained due to incorporation of above requirements for testing of materials.
- 3.9. CC Cube Test:** With a view to avoid controversy about quality of cement concrete as revealed in the test result of 7 days cubes falling short of the prescribed standard by over 10% to 20% and pending testing of balance 3 cubes for 28 days as final confirmatory acceptance test, crushed samples of cement concrete from the failed 7 days cubes should be preserved in a sealed bag.

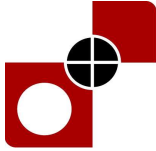


#### **4. PARTICULAR SPECIFICATIONS FOR EARTHWORK**

- 4.1. Earthwork in excavation, in general, shall be carried out as per the CPWD Specifications.
- 4.2. The earthwork in excavation, wherever required, shall be carried out in slushy position. Rates for earthwork shall include cost of the element for working in or under water / liquid mud including pumping of water / liquid mud. Nothing extra shall be payable on this account. Therefore, the Contractor shall quote his rates after studying the site conditions.
- 4.3. During excavation and trenching work etc. the contractors shall ensure compliance to the guidelines in such matters laid down by the local body/bodies to ensure that there is minimum hazard to the operating personnel's and users, minimum inconvenience to the users, minimized damage to the underground plant/services of other utilities in a coordinated way, in the interest of public convenience and overall safety.
- 4.4. Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machinery and materials have been arranged and closing of the trench (s) thereafter shall be ensured within the least possible time.
- 4.5. The excavated earth (or building materials) shall not be stacked on areas where other buildings, road, services or compound wall or any other structure are to be constructed.

#### **5. PARTICULAR SPECIFICATIONS FOR CONCRETE AND RCC WORKS**

- 5.1. The work in general shall be carried out as per the CPWD specifications.
- 5.2. **Non-destructive Testing for Concrete/R.C.C Work:** • The Engineer-in-Charge shall, at his discretion, get the non-destructive testing (Such as Ultrasonic Pulse Velocity Test etc.) done and the Contractor shall make all necessary arrangements for getting such tests done and make good the same after the test, for which nothing extra shall be paid. The results of such tests shall be binding on the Contractor. In case of nonconformity of the test to the standards, the contractor shall be liable to redo the concrete work at his cost including the cost of test, subject however, to the acceptability of the work as laid down in the mandatory test defined in the relevant CPWD specifications.
- 5.3. Cement slurry, if any, added over base surface (or) for continuation of concreting for better bond is deemed to have been in built in the items (Unless otherwise explicitly stated) and nothing extra shall be payable (or) extra cement considered in consumption on this account.
- 5.4. Proper Grooves shall be provided in plaster along junctions of RCC Work and Brick/Stone work as per directions of the Engineer-in-charge and nothing extra will be paid on this account.
- 5.5. In the item of RCC walls, railings and roofs etc. nothing extra shall be paid for making designs as per pattern given by Architects or for thickness of sections.
- 5.6. The rate of item for reinforcement in R.C.C. work includes all operations including straightening, cutting, bending, binding with annealed steel wire and placing in position at all the floors with all leads and lifts complete.
- 5.7. Before taking up the RCC (wall / box) work for external façade as mentioned in the structural drawings of the respective buildings, the contractor shall submit a method statement for carrying out shuttering and RCC work, for approval of Engineer-in-Charge. The work for this portion shall be executed only after approval of method statement, after taking into consideration the observations of Engineer-in-Charge, if any.
- 5.8. In case, expansion strip is required to be provided as per the structural requirement in any of the buildings, the contractor shall follow the scheme provided by Engineer-in-Charge including keeping the shuttering in position for extended period. Nothing extra shall be paid on this account.
- 5.9. Construction joints in RCC shall be provided only at places as per approved structural drawings. It shall not in any manner structurally or functionally affect the structure. If, any



additional construction joint is required to be provided, it shall be done with approval of the Engineer-in-Charge.

- 5.10. The centering, shuttering, strutting etc., required for the construction joint in RCC shall be provided as per the CPWD Specifications.

## 6. CENTRING AND SHUTTERING FOR R.C.C. WORK

- 6.1. The concrete surface shall be free from honeycombing, offsets, superfluous mortar, cement slurry and foreign matter. The formwork shall be assembled in such a way as to facilitate removal of their parts in proper sequence without any damage to the exposed cement concrete surfaces and corners etc.
- 6.2. The contractor shall keep skilled staff for special care and supervision to check the formwork and concreting so that every member is made true to its size, shape, level and alignment so that it does not result in any deformation, snag, bulges etc. The contractor shall also take suitable precautionary measure to prevent breaking and chipping of corners and edges of completed work until the building is handed over.
- 6.3. The size of shuttering plates for slabs shall not be less than 0.6m x 0.9m in general. However, contractor has to provide tape or wooden fillets or rubber gaskets to seal the joint properly to get smooth surface.
- 6.4. Further, shuttering shall be of such quality that there are no undulations and surfaces will be fairly even and no extra thick ceiling plaster shall be permitted to make the surface even. Any honeycombed or poorly formed concrete shall be repaired with polymer concrete of any suitable design by the Contractor at his own cost, in accordance with the specifications laid down in hand book of Repairs and Rehabilitation of RCC Buildings by CPWD.
- 6.5. Steel centring & shuttering, scaffolding and props shall be used for all the items of RCC. All propping and centring shall be either of steel tubes with extension pieces or built-up sections of rolled steel. Shuttering used for concreting shall be sufficiently stiffened and of good quality mild steel plates free from dents, bends or warping and rusting. For shuttering of beam bottom, staircase and fins and for other places where use of steel shuttering is not found to be feasible, waterproof shuttering ply shall be used with prior approval of the engineer-in-charge.
- 6.6. All scaffolding, centring and shuttering shall be with properly designed system which shall be got approved from Engineer-in-Charge and centring and shuttering required for RCC work will be brought to site by the contractor well in advance so that the progress of the upper floors is not hampered due to non-availability of the same. Nothing extra shall be paid for this.
- 6.7. In respect of projected balconies, projected slabs at roof level and projected verandah, payment for the RCC work shall be made under the item of RCC slabs. The payment for centring and shuttering of such item shall similarly be paid under the item of centring and shuttering of RCC slab. Nothing extra shall be paid for the side shuttering at the edges of these projected balconies and projected verandahs, all the exposed edge shall however, be finished as per specification and nothing extra shall be paid for this.

## 7. PARTICULAR SPECIFICATIONS FOR WOOD WORK, FACTORY MADE DOORS SHUTTERS

### 7.1. General

- 7.1.1. The work in general shall be carried out as per the CPWD specifications.
- 7.1.2. The glue / wooden adhesive to be used for this sub-head shall be PVAc based adhesive, of approved make (Fevicol of Pidilite Industries Ltd. or Korlok of National).

### 7.2. Wood work

- 7.2.1. The work in general shall be carried out as per the CPWD specifications.

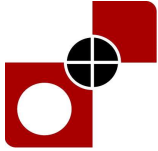


- 7.2.2. The wood shall be selected best quality second-class teak wood.
- 7.2.3. The work shall be carried out in accordance with the architectural drawings issued by the department. The architectural drawings shall at all times be properly correlated and architectural requirements have to be fully satisfied.
- 7.2.4. All the wood used for the manufacturing of the door shutters including the door frames, internal & external lipping, beading for fixing glazing etc. shall be seasoned as per the requirements of the CPWD Specifications.
- 7.2.5. All the screws used for woodwork shall be fully threaded, counter sunk stainless steel screws, grade 304 and they shall be suitably concealed or plugged.
- 7.2.6. Factory made doors
- 7.2.7. The work shall be carried out as per the CPWD specifications.

## **8. PARTICULAR SPECIFICATIONS FOR FLOORING & DADO / CLADDING**

- 8.1. The work under this sub-head in general shall be carried out as per the CPWD Specifications, as per the architectural drawings and as per the direction of Engineer-in-Charge.
- 8.2. The Engineer-in-Charge or his representative may, if required, visit the source of supply of the various stones to assess the quality as well as availability of the material in the required quantities. The Department shall bear the cost of such visits of the officers of the Department.
- 8.3. Based on the samples approved by the Engineer-in-Charge for various flooring and dado / cladding materials as specified hereinafter, the contractor shall prepare mock up(s) at site of work as specified under relevant flooring and dado / cladding items, for approval of quality of workmanship and material specified. If the quality of the workmanship and the material is as per the required standards and approved by the Engineer-in-Charge, the mock up shall be allowed as part of the work and measured for payment. Otherwise, it shall be dismantled by the contractor as directed by the Engineer-in-Charge and taken away from the site of the work at his own cost. The mock up(s) so made shall be kept till completion of respective works for reference. Nothing extra shall be payable on this account.
- 8.4. The stones / tiles shall be transported to site well packed in boxes or otherwise. These shall be handled carefully to prevent any damage. The various types of stones and tiles, procured shall be free of any surface defect or any edge damage. The damaged stones and tiles shall not be allowed to be used in the work. So, the contractor shall procure additional quantity of the stone and tiles to cover such contingencies. However, nothing extra shall be payable on this account.
- 8.5. For the enclosures with circular or curved profile, only the actual area of the flooring shall be measured for payment and nothing extra shall be payable for labour, material, wastages and any other incidental charges.
- 8.6. For the skirting in the enclosures with curvilinear profiles, the tiles / stones shall be cut to the required size and the shape to match the profile and/ or the joints as per the architectural drawings. Similarly, the skirting shall be fixed in a manner as to flush or project from the finished face of the wall as per the architectural drawings and as directed by the Engineer – in– Charge. Any chasing of the C.C masonry blocks required for such fixing is deemed to be included in the cost of masonry. Nothing extra shall be payable on this account.
- 8.7. For flooring work, the joints between the different types of flooring shall be located as per the architectural drawings and the measurement shall be done as per item description. Also, the Contractor shall maintain the uniform level of the finished flooring of the different types unless specifically mentioned on the architectural drawings. Nothing extra shall be payable on these accounts.
- 8.8. All the flooring works specified under this sub-head shall be adequately protected by a layer of plaster of Paris which shall be laid over a 400-micron PVC film. The protective layer shall





be maintained throughout the execution of works and removed just before handing over of the site for which nothing extra shall be payable.

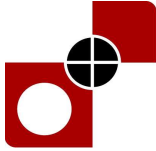
- 8.9.** At the time of handing over, flooring & dado / cladding shall be free of any scratches, stains etc. The flooring & dado / cladding shall be properly cleaned before handing over. However, abrasive cleaners shall not be used to clean the marks and other scratches.

## **9. KOTA STONE WORK**

- 9.1.** The Contractor shall procure and submit the samples of the Kota stone for flooring as well as risers and treads in the staircase, for the approval of the Engineer-in-charge prior to the execution of the item.
- 9.2.** Mock up (one no.) shall be prepared for staircase (tread as well as riser).
- 9.3.** All the Kota stones shall have uniform colour and shade. So, the entire quantity shall be obtained, preferably, in one lot from one location (in one quarry) to keep variation to the minimum. The Contractor shall also sort, segregate and use the stone slabs, according to colour, shade, etc. at any one location to keep variation in the colour, shade etc. in stones used to the minimum. Any stone slab with a variation, not acceptable to the Engineer-in-Charge, shall not be used in the work and shall be removed and replaced by the Contractor at his own cost. Nothing extra shall be payable on these accounts. Also, no claim of any kind shall be entertained from the Contractor on this account.
- 9.4.** The exposed cut edges of the Kota Stone slab in risers and treads along its width (sides of the risers and treads of the steps i.e. along the shorter dimensions of the Kota stone slab for the risers and treads) shall be polished in a workmanlike manner. The top exposed edge of the Kota stone skirting shall also be polished in a workmanlike manner. Nothing extra shall be payable on this account.
- 9.5.** Nosing / edge moulding shall be provided to the front edge of the Kota stone slab treads along its length i.e. along the longer dimensions of the Kota stone slab, as per the architectural drawings. The payment of the same shall be made separately under relevant item.

## **10. VITRIFIED AND CERAMIC TILES WORK**

- 10.1.** The contractor shall procure and submit the samples of approved make, shade and thickness of different types of vitrified and ceramic tiles, for the approval of the Engineer-in-charge prior to the execution of the item.
- 10.2.** The mock up (one each) shall be prepared for flooring and dado, for vitrified tiles etc.
- 10.3.** The entire supply for each type of tiles shall be procured from one manufacturer / authorized dealer, preferably, in one lot to keep variations to the minimum.
- 10.4.** The tiling work may be required to be carried out in patterns, design and / or in combination with tiles of different colour and shade and in combination of different stone slabs / tiles for which nothing extra shall be payable. The tiles shall be provided as per the architectural drawings and wastages and incidental costs, if any, shall be deemed to be covered in the cost of the relevant items. Nothing extra shall be payable on this account.
- 10.5.** For the flooring portions curved in plan, the tiles (at the edge) shall be cut to the required profile and shape as per the architectural drawings. Nothing extra shall be payable on this account and any consequent wastages and incidental charges on such accounts shall be deemed to be included in the cost of such items.
- 10.6.** The Contractor shall obtain and submit to the Department the manufacturer's test certificate for compliance of various parameters for the material as per the manufacturer's specifications, with each lot of material received at site.
- 10.7.** The flooring and dado / cladding should be set out such that the perimeter/ corner tiles are in excess of half a tile so that the edge panels on both the sides are of equal sizes, as far as possible. The tiles shall be cut to required size and shape in a workman like manner but with



all precautions, as per the manufacturer's specifications.

- 10.8.** For dado / cladding / skirting work, the tiles shall be chamfered at the meeting edges on the corners in a manner that butt edges are not visible. It shall be ensured that the edges shall be ground / filed to chamfer the edges so that the glazing layer at the edges of the tiles is not chipped off otherwise the work shall be rejected and redone by the Contractor at his own cost.

## **11. PARTICULAR SPECIFICATIONS – FINISHING**

**11.1.** General (applicable for all items under this sub-head)

- 11.1.1.** The work shall in general be carried out as per the CPWD specifications and the manufacturer's specifications (where CPWD specifications are not available).
- 11.1.2.** The theoretical consumptions of the various materials like plaster, primer, paint, etc. shall be as per the CPWD specifications and the various coefficients specified herein. Wherever coefficients are not mentioned in CPWD specifications, the same shall be as specified under relevant items. Nothing extra shall be payable on account of actual consumption exceeding the theoretical consumption. However, in exceptional cases, if the actual consumption is lesser than the theoretical consumption, cost adjustment shall be made for lesser consumption of material at the prevailing market rate.

**11.2.** The material for melamine polish shall be of the approved make as specified.

## **12. PARTICULAR SPECIFICATIONS FOR SANITARY INSTALLATIONS, WATER SUPPLY & DRAINAGE**

- 12.1.** The work under this sub-head in general shall be carried out as per the CPWD specifications, as per architectural drawings and as per directions of Engineer-in-Charge.
- 12.2.** Before taking up the work, the contractor shall prepare integrated shop drawings showing details of various pipe lines running horizontally and vertically and obtain approval of Engineer-in-Charge. Integrated services drawings shall conform to local byelaws. The work shall be carried out as per approved integrated shop drawings for sanitary installations, watersupply, rain water and drainage pipes.
- 12.3.** Samples of all the pipes, fittings, fixtures etc., of make as per the list of approved materials shall be brought to site, well in advance, prior to start of any of the works and got approved by the Engineer-in-charge.
- 12.4.** The chasing, cutting and making holes in the masonry and / or cement concrete and / or RCC works shall be done carefully without causing any damage to the structure. As far as possible, mechanical cutters & core cutting machines shall be used in a workman like manner, for concealing the pipelines and fittings. The chases / holes, so made, shall be made good with the cement mortar of mix 1: 4 (1cement: 4 coarse sand) after testing of the pipe lines for leakage. The cost of cutting cores in RCC, cutting holes in masonry & making good the same shall be inclusive in the respective item of drainage/water supply lines.
- 12.5.** All vertical sanitary & GI pipes shall be fixed to hot dipped galvanized M.S supporting frame with "U" shaped G.I bolts, threaded at both ends, as specified, with GI nuts, GI washers, GI cleats etc. as approved by the Engineer-in-charge. Supporting frame shall be fixed with approved anchor fasteners as directed by the Engineer-in-charge. In all cases, pipelines shall be fixed, minimum 50 mm away from the finished wall face and shall not be fixed directly to the walls. The cost of providing and fixing GI supporting frame shall be paid for separately under relevant items.
- 12.6.** All horizontal pipes shall be fixed to the soffit of beams / slabs etc. with G.I. hanger rods & G.I. frame work as per the approved shop drawings and as directed by the Engineer-in-charge. The pipelines shall be clamped to the structural steel frame work with "U" bolts and



nuts, washers, cleats etc., of length and diameter as required and as specified. The G.I. framework shall be paid for separately under relevant items.

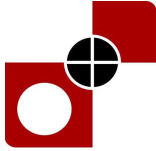
- 12.7. The contractor shall sequence the activities for external drainage and other pipe lines work in such a way that no hindrance is caused to other activities like laying of external electrical cable, development, landscape and road work etc.

### **13. PARTICULAR SPECIFICATIONS – ALUMINIUM WORK**

- 13.1. The material for the work shall be procured from the approved manufacturer as per the list attached with the tender documents. 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 anodized aluminium sections, neoprene 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.
- 13.2. The Contractor shall prepare the shop drawings for the aluminium windows giving details of the various aluminium sections, neoprene gaskets, cleats, anchor fasteners, hardware, sealants, glass etc. and submit the same for the approval of Engineer-in-Charge.
- 13.3. Only after the approval of the samples and the shop drawings 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.
- 13.4. 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.
- 13.5. Aluminium sections to be used for various works shall be appropriate to meet technical, structural, functional and aesthetic considerations. The anodizing shall be carried out in an approved factory / workshop as specified in the tender documents or approved by Engineer-in-charge.

#### **13.6. Fabrication**

- 13.6.1. All joints shall be accurately fabricated and be hairline in appearance. The finished surface shall be free from visible defects.
- 13.6.2. 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.
- 13.6.3. All doors, windows, ventilators and glazing etc. shall be made water tight with neoprene gaskets and weather silicone sealants to the satisfaction of the Engineer-in- Charge, for which nothing extra shall be payable.
- 13.6.4. 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 aluminium cleats, stainless steel screws etc. shall not to cause any bi-metallic reaction by providing separators, wherever required.
- 13.6.5. Vertical members of the aluminium frame work shall be embedded in the floors, wherever



required, by cutting and making good of the floor.

### **13.7. Fixing of Aluminum frame work**

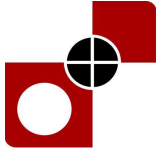
- 13.7.1. The screws used for fixing fixed aluminium frames of the aluminium windows to masonry walls/ RCC members and aluminium members to other aluminium members shall be of stainless steel of approved make and quality and of stainless-steel grade 304. Threads of machine screws used shall conform to requirement of I.S. 4218.
- 13.7.2. 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. Nothing extra shall be payable for the above.
- 13.7.3. 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.

### **13.8. Anodizing**

- 13.8.1. Aluminum sections shall be anodized as per I.S. 7088 – 1973. Anodizing to be as per grade AC20 and not less than 20 microns thick when measured as per I.S. 6012, in colour and shade as approved by the Engineer-in-charge
- 13.8.2. The anodic coating shall be properly sealed by steam or dipping in de-ionized water as per I.S.1868-1982 and / or I.S. 6057. Sealing quality shall be tested in accordance with the relevant standards. Nothing extra shall be payable on this account.
- 13.8.3. The Contractor shall satisfy himself by checking in the factory that the thickness of the anodic coating is found to be minimum 20 microns and sealing quality is appropriate everywhere. The testing shall be done in an approved laboratory by EDDY CURRENT METHOD as per I.S. 6012 for thickness. For testing the thickness of anodic coating of the anodized aluminum sections, the calibration shall be done on bare (un-anodized) aluminium sections of same type. If any material is found sub-standard, it shall be rejected.
- 13.8.4. All anodized aluminum works shall conform to relevant I.S. Codes relating to materials, workmanship, fabrications, finishing, erection, installations etc. In this connection I.S. Codes including I.S. 1868 – 1982, I.S. 733 – 1983, I.S. 1948-1961, I.S. 7088-1973, I.S. 6012-1970, I.S.1285 – 1975, I.S. 740-1975 are considered relevant and applicable.
- 13.8.5. The exposed surface of the aluminium sections shall be protected against surface damage, dents, scratches etc. It shall, therefore, be provided with protective tape. After fixing and assuring of proper functioning of doors, windows, frame work for partitions /false ceiling etc. Such protective tape shall be cleaned out / removed as per the directions of Engineer-in-Charge. Nothing extra shall be payable for above.

### **13.9. Glazing**

- 13.9.1. All glass panes shall be retained within aluminium framing by use of exterior grade neoprene 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:
- 13.9.2. All glazing rebates shall be square, to plumb, true to plane, dry and free from dust.



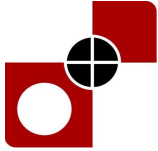
- 13.9.3. Glass edge shall be clean and cut to exact size and grounded
- 13.9.4. Annealed float glass in doors, windows, ventilators and fixed glazing etc. shall be of approved make and standard quality conforming to C.P.W.D. Specifications and as listed in the approved make list.

**13.10. Measurement and rates:**

- 13.10.1. Aluminium frame work shall be measured as per CPWD specifications.
- 13.10.2. 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.
- 13.10.3. Stainless steel adjustable friction hinges and the aluminium handles for the openable side-hung windows shall be of "Earl Bihari", make or equivalent as approved by the Engineer-in-Charge. 2 nos. friction hinges shall be provided per shutter.
- 13.10.4. 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.
- 13.10.5. The item for aluminium for fixed portions for aluminium windows and frame work for partitions shall include cost of all inputs of labour, material (anodized aluminium sections, including cleats, other fixtures, weather silicone sealants, 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. 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.
- 13.10.6. The item of aluminium for the openable aluminium shutters for windows and door etc., shall include cost of all inputs of labour, material (anodized aluminium sections, including such as cleats / angles, other fixtures, stainless steel screws nuts, bolts, stainless steel hinges, weather silicone sealant 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.
- 13.10.7. The glass shall be paid for separately under relevant item. The cost providing and fixing neoprene gasket, felt etc. is included in the cost of this item and shall not be measured separately for payment.
- 13.10.8. 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 (handle, lock and buffer) shall be paid for separately).

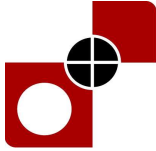
**14. PARTICULAR SPECIFICATIONS FOR WATERPROOFING TREATMENT**

- 14.1.1 All the water proofing treatment shall be got executed through one of the specialized agencies as approved by the Engineer-in-charge The water proofing agency shall carry out water proofing work with one of the approved water proofing compounds mentioned in the tender. If so, specifically requested by the contractor, he will be allowed to use other water proofing compound meeting various technical parameters, subject to prior approval of



Engineer-in-Charge.

- 14.1.2 The work under this sub-head in general shall be carried out as per the CPWD specifications, as per the manufacturer's specifications, as per architectural drawings and as per directions of Engineer-in-Charge
- 15.** The contractor shall maintain following records at site:
- a) Site Order Book
  - b) Hindrance Register
  - c) MAS Register
  - d) Material Test register



### **List of Preferred Makes for Civil Works**

<b>Sl. No.</b>	<b>Name of Materials</b>	<b>Preferred Makes</b>
1.	Reinforcement Steel	SAIL, TISCO, RINL, Jindal Steel and Power Limited
2.	Structural Steel, Bar, Flats, Angle, Tee Sections	SAIL, TATA(TISCO), RINL, JINDAL
3.	M.S. Pipe, Tubes	TATA, Jindal
4.	Stainless steel (Grade 304)	SAIL, Jindal
5.	Water Proofing Compound	Fosroc, CICO, Pidilite, Sika.
6.	PVC (SWR) Pipe & Fittings	Supreme, Finolex, Jindal, Astral
7.	Acrylic Distemper / OBD	Asian Paints, Nerolac, ICI, Burger,
8.	Plastic Emulsion Paint	First quality of Asian, Louis Berger, ICI Dulux, Nerolac
9.	Synthetic Enamel Paint	ICI (Dulux Gloss) & Asian Paint (Premium Apcolite Gloss), Nerolac
10.	Steel Primer	ICI, Asian Paints, Burger, Nerolac
11.	Wood Primer	ICI, Asian Paints, Burger, Nerolac
12.	Admixtures	Dr. Fixit, Fosroc & Sika
13.	Mirror Glass	Atul, Modi Guard, Saint Gobain
14.	White Cement	Birla White / J. K. White
15.	Aluminium Sections	Hindalco, Jindal, Indal
16.	Aluminium Fittings	Ebco, Dorma, Ozone, Classic & Everite
17.	Hydraulic Door Closer	Dorset, Dorma, Ozone, Hardwyn, Everite
18.	Floor Springs	Hardwyn, Hyper
19.	Exterior Paint	Apex of Asian paints or equivalent of Berger, ICI, Nerolac
20.	Friction Hinges	Zipco, AKS, Dorma, EBCO
21.	Vitrified Tile	RESTILE, RAK, NITCO FULL BODY (Non Printed/Non-Glazed), KAJARIA, ORIENT, SOMANY
22.	Ceramic Glazed Tiles for flooring.	Nitco, Somany, Asian, Orient, Kazaria



23.	Glazed ceramic Wall Tiles Rectified (Pure Matt/ Satin Finish)	Nitco, Orient,Kajaria, Marbitto, Asian. NITCO SPA series/MRIDUL Glass/PALLADIO MOSAIC TILES
24.	Granite 20mm thick	Samples as approved by Engineer in charge & of minimum rate of Rs. 2400/Sqm.
25	Italian Marble in flooring	Samples as approved by Engineer in charge & of minimum rate of Rs. 5100/Sqm.
26	Italian Marble in wall claddings	Shade "Bottichinoflorito" or samples as approved by Engineer in charge.
27.	Wall Putty	Birla Care , JK White
28.	UPVC windows and ventilators.	Eternia/SHUCO/AWANEER/PONZIO
29.	Fire rated doors.	Sukriti, Radiant Safe door, MPP system schrodgers,Ozone,KuttyDoors,Signum Fire protection
30.	Flush doors	Centuryply, Coast to coast, Archidply, Marino, Green ply, Kit ply.
31.	Compact grade solid phenolic board door shutters	Merino, Besco, Archidply, Duralam
32.	Tinted float glass of structural glazing	Saint gobain, Asahi glass.
33.	Pre coated galvanised sheet	TATA, JSW.
34.	Pedestal type wash basin	Approved model of Jaquar/Hindware/Cera make.

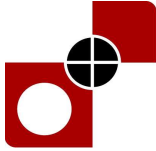




35.	All sanitary fittings such as Extended Wall Mounted Closet, Counter Wash Basin, Sensor Urinal, Division Plate, Bottle Trap, Waste Coupling etc., Overhead Shower, Wall Mixer with Provision For Overhead Shower, White vitreous china flat back half stall urinal, Soap dispenser push button type, Wall mounted Glass shelf, Double coat hook, Toilet paper roll holder, Bib cock, Pillar cock & Long Body Bib Cocks, Health faucet, stop cock, Angular stop cock etc.,	Approved model of Jaquar/kajaria/Parryware/Hindware/Cera make/
36.	Pipes	Astral, Ashirwad, Finolex, Dutron & Apollo Pipes
37.	Polyethylene water storage tank	Sintex (ISI), Supreme
38.	Plastered board for false ceiling.	USG Boral, Anutone, Saint Gobain, Armstrong
39.	Water proofing on curved surfaces	Saint Gobain Certainteed Roofing – Landmark AR Hunter Green
40.	Underground FRP fuel storage tank	Sintex
41.	Wooden flooring	Armstrong make
42.	Tile/Stone Adhesive	Pidilite, Balendura, Fosroc
43.	GI Pipe	TATA/Jindal (Hissar)
44.	GI Pipe Accessories	Zoloto, AVR, NMC

**ELECTRICAL WORK**

Sl. No.	Material		Brand /Manufacturers Or Equivalent
1	KV VCB Panel Board	:	Siemens/Alstom/S&SPower/Easun/Voltas
2	KV XLPE Cable	:	Incab/ Universal/ NICCO/ CCI
3	Transformer	:	Crompton Greaves/ GECAIstom/Voltamp Areva/ ABB
4	Bus Duct/rising mains (Sandwich)-	:	L&T/ Siemens/ ABB/Legrand
5	Diesel Engine	:	Cummins/Kirloskar/Cotton
6	Alternator	:	Stamford/ Kirloskar/ Leroy Somer & Control/ Crompton Greaves/ Cater pillar

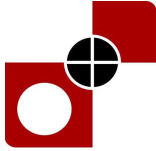


7	Battery	:	Exide/StandardFurrukawa/Amar ,Raja
8	L.T. Cables	:	Universal/ICC/NICCO/INCAB/Rallison Cables
9	PVC insulated Wires/Telephone wires & cables India Co-axial cables	:	Finolex/ Skytone/PolyCab/R.R Kabel
10	Telephone Tag Blocks	:	Krone Type
11	Modular Range of Switches,sockets etc	:	Anchor- Roma /Legrand/C&S
12	Industrial Sockets & Plugs	:	Siemens//Legrand/Gewiss/ Havell"s
13	M.S. Conduit	:	BEC/ AKG/ M Kay/ NIC/ Siddarth/ Harsh
14	LED Light fixtures	:	Philips, Bajaj, Legero, Crompton
	External Light (LED)		K-Lite, Shaffer
15	Ceiling Fan/ Exhaust fan	:	Crompton Greaves/ R.R Electric/ Usha/ Bajaj.
16	Main LT Panel	:	Manufactured at the works of L&T, Siemens,Legrand , Schneider only.
17	MV Panels	:	Venus Controls,Neptune,Advance,ASG control & Switchboard Pvt. Ltd.Anand Power Ltd.,System & Power Control.Amptech.,Nitya Electrical Controls,Ambit Switchgear Pvt. Ltd,Adlec.
18	Air Circuit Breakers	:	L&T,Legrand,Siemens,ABB,C&S
19	MCCB	:	L&T/ Siemens/ C&S
20	MCB-DB"s, MCB, ELCB	:	L&T/ Siemens/C&S
	RCCB/ MCB-Isolator etc.	:	Schneider, Legrand,C&S
21	SDFU	:	L&T/ GE Power Controls/ Siemens/ Schneider
22	Power Contactors	:	L&T/ Legrand/ Siemens/C&S
26	FDA Panel	:	Honeywell/Edwards/Minimax
27	CCTV	:	Milesight, Palco , mobitics
	i. LCD Monitor	:	Dell, Sony, HP, LG
	ii.PC/server	:	Dell, HP, IBM
28	BMS	:	ABB, L&T, Trane, Honeywell
29	UPS	:	Schneider Numeric, Emerson, Eton,Power ware



### **FIRE-FIGHTING WORK**

<b>Sl. No.</b>	<b>Material</b>	<b>Brand/Manufacturers Or Equivalent</b>
1	G.I./M.S. Heavy class pipe	Jindal-Hissar, Tata, Prakash -Surya,B.S.T., SAIL
2	Gate Air Valve	Leader, Zoloto, SBI,
3	Butterfly valves	Audco, Keystone, Intervolve, C & R, Zoloto, Castle
4	Portable Fire Extinguisher	Minimax, Safex, Nitin, Firex,Ceasefire, Newage, Eversafe
5	First aid Fire hose reels	Minimax, Safex, Firex, Newage, Eversafe
6	Fire hose pipes	Newage, Safex, Eversafe, Jyoti
7	Fire Hydrant valves	Minimax, Newage, Eversafe,Ceasefire, Vijay, Agnice
a)	Pendent type	Tyco, Vikink-usa, Spray safe, HD,Newage
b)	Side wall type	Newage, Reliable, Tyco, Vikink-usa
c)	Sprinkler Side wall extended through	Spray safe, HD, Vikink-usa, Tyco.
8	Sluice and non return/ check valve foot valve strainer	Kirloskar, I.V.C., Kilburn, Zoloto,Leader
9	Rubber hose 12/20mm dia	Dunlop, Good year, Jyoti Eversafe
10	Reinforced rubber lined/canvas	Newage, Jayshree, CRC, Eversafe
11	Standby battery lead acid	Exide, Standard, Amco
12	PVC Insulated Copper Conductor.	Finolex, Plaza, National
13	Recessed/concealed type	Spraysafe., Reliable
14	Horizontal centrifugal/Fire pumps	Kirloskar, Mather & Platt(WILO),Max-Flow, GRUNDFOS,
15	Diesel engine	Kirloskar Cummins, Ashok Leyland
16	Electric motors	Kirloskar, GEC, Siemens, NGEF, ABB,Crompton
17	Electrical switch gear & starters	As per Electrical Works
18	Cables	As per Electrical Works
19	Flow meter	Scientific Equipment (P) Ltd. Hyderabad ,System Sensor
20	Suction strainer	Leader, ZOLOTO, AUDCO
21	Vibration eliminator connectors	Resistoflex, or equivqlent
22	Single phase preventor	L & T, GEC, SIEMENS
23	G.I. Fittings	Unik, K.S., Zoloto Zenith
24	Yard Hydrant Stand Post,4 way suction	Eversafe, Minimax, Newage



### **HVAC WORK**

<b>Sl.</b>	<b>EQUIPMENT/MATERIAL</b>		<b>APPROVED MANUFACTURER</b>
<b>A.</b>	<b>HVAC Items:</b>		
1	VRV Units/Ductable		Daikin, LG, Hitachi, Blue Star
2	Heavy Duty PVC Drain Piping		Polypack, Supreme, Prince
3	Anchor Fasteners		Hilti, Ficher
4	Refrigerant copper piping		Rajco, Mandev, Maxflow
5	PVC insulated copper conductor stranded flexible wires (FRLS)		Polycab, Finolex, Lappe Cable

It is certified that I have gone through the above list of preferred makes of materials and the rates has been quoted accordingly, wherever there is no specific mention of make in the item/schedule.

(Signature of Contractor)

#### **Note:**

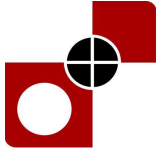
1. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material or engaging any of the specialized agencies. The Contractor shall make a detailed submittal with catalogues and highlighted proposed specifications, as well as full details of the works proposed to be executed by the specialized agency, as specified.

The contractor at his own cost shall ensure before tendering samples for approval of material/article that the material/article of above mentioned Manufacturers/Agencies/brand/make shall fully comply with the item nomenclature, drawings, Agreement specifications, CPWD Specifications 2019 ( Volume I & II ) , Test results etc. Any deviation shall be brought to the notice of the Engineer-in-

2. charge. Failure on all or any of the aforementioned accounts, the sample shall be rejected. The decision of Engineer-in-charge in this regard shall be final and binding on the contractor.

3. Wherever applicable, the Engineer-in-charge may approve any material equivalent to that specified in the tender subject to proof being offered by the Contractor for equivalence to his satisfaction.

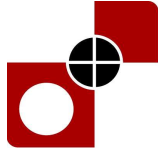
4. For any material apart from the above list, decision of Engineer-in-charge shall be final and binding to the contractor.



## **SECTION VIII: QUALITY CONTROL REQUIREMENTS**

### **Mandatory Tests**

<i>Clause</i>	<i>Material</i>	<i>Test</i>	<i>Field/ laboratory test</i>	<i>Test procedure</i>	<i>Min. quantity of material for carrying out the Test</i>	<i>Frequency of testing</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
3.1.1	Water	(i) pH Value (ii) Limits of Acidity (iii) Limits of Alkalinity (iv) Percentage of solids (a) Chlorides (b) Suspended matter (c) Sulphates (d) Inorganic solids (e) Organic solids	Lab Lab Lab Lab	IS 3025	-	Water from each source shall be got tested before the commencement of work and thereafter once in every three months till the completion of the work. Water from municipal source need be tested only once in six months. Number of Tests for each source shall be 3



3.1.2	Cement	(a) Physical requirement (i) Fineness (ii) Soundness (iii) Setting time(Initial & Final) (iv) Compressive strength (v) Consistency of standard cement paste	Lab Lab Lab  Lab Lab	IS 4031 (Part II) IS 4031 (Part III) IS 4031 (Part V) IS 4031 (Part VI) IS 4031 (Part IV)-1988 (Reaffirm 2014)	Each lot	Every 50 tonnes or part thereof. Each brand of cement brought to site shall be tested as per this frequency.
3.1.3.5	Sand	Bulking of Sand	Field	Appendix D	20 cum	Every 20 cum or part thereof by Engineer-in-Charge.
4.1.2.2	Stone aggregate	(a) Percentage of soft or deleterious material	Field or Laboratory - Test as required	IS 2386-Part II	As required By Engineer in- Charge	For all quantities
4.1.2.3		Particle size	Field/ Lab	Appendix 'A'	45 cum	For every 45 cum or part thereof for RCC Work only. For rest of items as decided by Engineer-in Charge
4.1.2.5		(a) Estimation of organic impurities	Field/ Lab	IS 2386-Part II	10 cum	For every 40 cum or part thereof
		(b) Surface moisture	Field/ Lab	IS 2386	10 cum	-do-
		(c) Determination of 10% fine value	Field/ Lab	IS 2386	10 cum	-do-
		(d) Specific gravity	Field/ Lab	IS 2386	10 cum	-do-
		(e) Bulk density	Field/ Lab	IS 2386	10 cum	-do-
		(f) Aggregate crushing strength	Field/ Lab	IS 2386	10 cum	-do-
		(g) Aggregate impact value	Field/ Lab	IS 2386	10 cum	-do-
4.2.2	Concrete	Slump test	Field	Appendix 'D'	10 cum	15 cum or part Thereof



5.4.1	Reinforced cement concrete (Nominal Mix)	(a) Slump test	Field/Lab	Appendix 'D' of Chapter 4	(i) 5 cum in case of column	(ii) Every 20 cum or part thereof
					(ii) 20 cum for slabs, beams and connected columns	(i) Every 5 cum of part thereof
					(iii) 20 cum for other R.C.C. work for all other small items and where R.C.C. done in a day is less than 5 cum test may be carried out as required by Engineer-in-Charge	(iii) -Do-
5.4.9.1		(b) Cube Test	Lab	Appendix 'A'	(i) 5 cum in case of column	(i) Every 5 cum or part thereof
					(ii) 20 cum for slabs, beams and connected Columns	(ii) Every 20cum or part thereof
					(ii) 20 cum for slabs, beams and connected Columns	(ii) Every 20cum or part thereof
					(iii) 20 cum for other R.C.C. work for all other small items and where R.C.C. done in a day is less than 5 cum test may be carried out as required by Engineering Charge	(iii) -Do

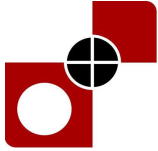


Reinforced Cement Concrete (Design Mix)	Coarse Aggregates				50 cum or part thereof & also on each change of Source	
	Fine Aggregates				50 cum or part thereof & also on each change of source	
	Cement				50 MT or on each change of source	
	Fresh Concrete	(a) Slump test	Field	Appendix 'D' of Chapter 4	10 cum	50 cum for R.C.C. work including in all other small location. R.C.C. done in a day is less than 50 cum test may be carried out as required by Engineer-in-Charge
	Fresh Concrete	(b) Cube Test	Lab	Appendix 'A'	10 cum or part thereof	50 cum or 10 batches of 5-7 cum each for R.C.C. work in all location by Engineer-in-Charge
Reinforced Cement Concrete (Ready Mix)	Coarse Aggregates				50 cum or part thereof & also on each change of Source	





	Fine Aggregates				50 cum or part thereof & also on each change of source	
	Cement				50 MT or on each change of source	
	Fresh Concrete	(a) Slump test	Field/Lab	Appendix 'D' of Chapter 4	10 cum	50 cum for R.C.C. work including in all other small location. R.C.C. done in a day is less than 50 cum test may be carried out as required by Engineer-in-Charge
5.1.3	Steel for Reinforced cement concrete	(A) Physical Test and chemical tests			(a) For consignment below 100 tonnes	(b) For consignment over 100 tonnes
					(i) under 10 mm dia, one Sample for each 25 tonnes or part thereof	(i) Under 10 mm dia, one sample For each 40 tonnes or part thereof
					(ii) 10 mm to 16 mm dia one sample for each 35 tonnes or part thereof	(ii) 10 mm to 16 mm, one sample for each 45
					(iii) over 16 mm dia one sample for each 45 tonnes or part thereof	(iii) over 16 mm dia, one sample for each 50 tonnes or part thereof



**Note:**

1. These tests are to be got done through any government lab such as IIT/ Engineering College/National Test House/NSIC/NABL approved lab/CPWD (Ghaziabad Central Circle or Noida Central Division) empanelled lab etc. The testing charges including packing transportation to shall be borne by the contractor/Vendor. No reimbursement shall be made towards testing charges by the mint.
2. Test report for factory products like cement, paver blocks & others products have to be produced and attached with every brand & lot of materials.
3. \* Test for Water, if requested & supplied by IGM, Noida, shall not be done.



### **SECTION IX: QUALIFICATION/ ELIGIBILITY CRITERIA**

<b>Criteria</b>	<b>Description</b>
<b>(A) Experience &amp; Past Performance</b>	The bidder should have experience of having successfully completed similar works during last 7 years ending on 31.03.2023. a. Three similar completed works each costing not less than the amount equal to <b>0.97 Crore</b> . or b. Two similar completed works each costing not less than the amount equal to <b>1.22 Crore</b> . or c. One similar completed work costing not less than the amount equal to <b>1.95 Crore</b> .
<b>(B) Capability - Equipment &amp; Manufacturing</b>	The bidder should be enlisted in either Central Public Works Department (CPWD) or Military Engineering Services (MES) or any other Government / PSU / Autonomous bodies <b>(Please attach a copy of registration certificate)</b>
<b>(C) Financial Standing</b>	The average annual financial turnover of the bidder during the last three years, ending on 31.03.2023, should be at least 0.97 Crore as per the annual report (audited balance sheet and profit & loss account) of the relevant period, duly authenticated by a Chartered Accountant/ Cost Accountant in India. The bidder should not have suffered any financial loss for more than one year during the last three years, ending on 31.03.2023. i) The net worth of the Bidder should not be negative on 31.03.2023 and also ii) should not have eroded by more than 30% in the last three years, ending on 31.03.2023.

1. All experience, past performance and capacity /capability related / date should be certified by the authorized signatory of the bidder firm. The credentials regarding experience and past performance to the extent required as per eligibility criteria submitted by bidder may be verified from the parties for whom work has been done.

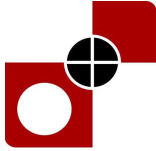
2. All financial standing data should be provided in the format Annexure -A (Financial Standing of the firm) enclosed at the end of the tender document duly certified by certified accountant's e.g. Chartered Accountants (CA).

3. Bidder to furnish stipulated documents in support of fulfillment of qualifying criteria.

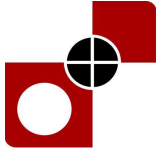
4 Non-submission or incomplete submission of documents may lead to rejection of offer/bid.

Note: -

- (i) The experience list shall include only works executed by Bidder himself as a turnkey Contractor that shall include entire work of civil construction as per the site conditions and not as a Sub-Contractor.
- (ii) The Bidder shall furnish documentary evidence by way of copies of Contract/Purchase Order, CV/Resume of Team Members or any other equivalent document, Audited Balance Sheet and Profit & Loss Account etc., along with the Bid to establish experience / track record and financial capabilities meeting Bid Evaluation Criteria.
- (iii) The Bidder or its Proprietor / Partner(s) / Director(s) of the Firm should not have been convicted by a Court of Law for an offence involving moral turpitude in relation to business dealings during the past seven (7) years



<p><b>Applicability in Special Cases</b></p>	<p><b>1) Applicability to 'Make in India' :Bidders</b> (manufacturer or principal of authorised representative) If the product is being manufactured in India under a license from a foreign manufacturer who holds intellectual property rights and where there is a technology collaboration agreement/ transfer of technology agreement for indigenous manufacture of a product developed abroad with clear phased increase in local content, and who while meeting all other criteria above, except for any or more of sub-criteria in Experience and Past Performance above, would also be considered to be qualified provided: i) their foreign manufacturer who holds intellectual property rights, meets all the criteria above without exemption, and ii) the Bidder submits appropriate documentary proof for technology collaboration agreement/ transfer of technology agreement for indigenous manufacture of a product developed abroad with clear phased increase in local content. iii) the bidder (manufacturer or principal of authorised representative) furnishes along with the bid a legally enforceable undertaking jointly executed by himself and such foreign Manufacturer for satisfactory manufacture, Supply (and erection, commissioning if applicable) and performance of 'The Product' offered including all warranty obligations as per the general and special conditions of contract.</p>
--	--



**SECTION X: TENDER FORM**

Date.....

To

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

(complete address of SPMCIL)

Ref: Your Tender document No..... dated .....

We, the undersigned have examined the above-mentioned tender enquiry document, including amendment No. -----, dated ----- (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver..... (description of goods and services) in conformity with your above referred document for the sum shown in the price schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 6, read with modification, if any, in Section V – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance for a period upto -----, as required in the GIT clause 19, read with modification, if any in Section-III – “Special Instructions to Tenderers” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender upto the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

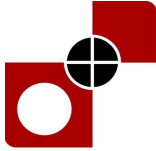
We confirm that in case of downloaded Tender Document, we have not changed/edited its contents. We realise that in case any such change is noticed at any stage including after the award of contract, we would be liable to action under clause 44 of the GIT.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry. We also solemnly declare as under:

**1. MSMEs Status:**

Having read and understood the Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 (as amended and revised till date), and solemnly declare the following:

- (a) Company /Partnership Firm /Proprietary Concern/Society/Trust/NGO/ Others (Please Specify):.....
- (b) Micro/ Small / Medium Enterprise/ SSI/ Govt. Deptt. / PSU/ Others:....
- (c) Name of MSME Registering Body (NSIC/ DIC/ KVIC/KVIB etc.):.....
- (d) MSME Registration no. (with copy of registration):.....
- (e) Udyog Aadhaar Memorandum no.....
- (f) Whether Proprietor/ Partner belongs to SC/ ST or Women category. (Please specify names and percentage of shares held by SC/ST Partners):.....



**2. Make in India Status:**

Having read and understood the Public Procurement (Preference to Make in India PPP\_MII) Order, 2017 (as amended and revised till date) and related notifications from the relevant Nodal Ministry/ Department, and solemnly declare the following:

(a) Self-Certification for category of supplier:

- Class-I Local Supplier/
- Class-II Local Supplier/
- Non-Local Supplier.

(b) We also declare that

- There is no country whose bidders have been notified as ineligible on reciprocal basis under this order for offered product, or
- We do not belong to any Country whose bidders are notified as ineligible on reciprocal basis under this order

**3. Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017**

Having read and understood the Order (Public Procurement No. 1) issued vide F.No.6/18/2019-PPD dated 23rd July 2020 (and its amendments if any) by Department of Expenditure, Ministry of Finance under the above provision and solemnly declare the following:

- We do not belong to any Country whose bidders are notified as ineligible under this order

**4. Debarment Status:** Please state whether business dealings with you currently stand suspended/ banned by any Ministry/ Deptts. of Government of India or by any State Govt:

- Yes (with period of Ban)
- No, We, solemnly declare that neither we nor any of our affiliates or subsidiaries – including subcontractors or suppliers for any part of the contract – do not stand declared ineligible/ blacklisted/ banned/ debarred by any Government Agency anywhere in the world, for participating in its tenders, under that country’s laws or official regulations.

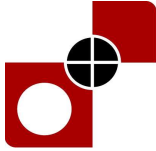
**5. Penalties for false or misleading declarations:** I/we hereby confirm that the particulars given above are correct and complete and also undertake to advise any future changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of code of Ethics and would attract penalties as mentioned in this tender document, including debarment.

.....  
(Signature with date)

.....  
(Name and designation)

Duly authorized to sign tender for and on behalf of

.....



## **SECTION XI: PRICE SCHEDULE**

To,

The Chief General Manager  
India Government Mint,  
Noida

**OFFER FORM** for Tender No .....Date of opening .....Time.....Hours .....

We ..... hereby certify that we are established firm of manufacturers / authorised agents of M/s..... with factories at ..... which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of ....(Name of Purchaser). We hereby offer to undertake the following works at the prices indicated below:

Sl. No.	Description of Goods/Services	Accounting unit	Qty.	Price
1.	Construction of a new Store Building at India Government Mint, Noida.	EA	01 Job	

The bidder shall quote as a Lump sum amount in the bid as per estimated cost of work mentioned in Annexure – 1 to 7 (Abstract Sheet for construction of new store building at IG Mint, Noida) prepared on basis of Rate DSR). The L-1 bidder shall be decided based on the lowest cost to India Govt. Mint, Noida.

Further, the difference in amount quoted by the bidder (above or below the estimated cost of work) in terms of % shall be uniformly applicable to all the schedule items of the estimate. Furthermore, the actual quantity executed shall be measured & amount worked out with this % (above or below) shall be certified for payment purpose

**Statutory Compliance:** All statutory compliance like PF, ESI shall be in the part of bidder a declaration in this regard is required to be submitted by the bidder.



**1. Scope of Supply:** (Cost break-up of the quoted cost, showing inter-alia costs of all the concomitant Installation/ Commissioning/ Training/ Technical Support/ incidental services/ software/ accessories, considered necessary to make the proposal self-contained and complete must be indicated here.)

**2. Taxation Details:**

- a) PAN number
- b) Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.)
- c) GSTIN number
- d) Registered Address as per GST registration and Place of Delivery for GST Purpose
- e) Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts).....

**3.** It is hereby certified that we have understood the General and Special Instructions to Tenderers (GIT and SIT), and also the General and Special Conditions of Contract (GCC and SCC) attached to the tender and have thoroughly examined specifications/ Quality Control Requirements and other stipulations in Section VII & VIII – Technical Specifications and Quality Control Requirements; and are thoroughly aware of the nature of stores required and our offer is to supply stores strictly in accordance with the requirements and according to the terms of the tender. We agree to abide solely by the General and Special Conditions of Contract and other conditions of the tender in accordance with the tender documents if the contract is awarded to us.

**4.** We hereby offer to supply the stores detailed above or such portion thereof, as you may specify in the acceptance of tender at the price quoted and agree to hold this offer open for acceptance for a period of ---- days from the date of opening of tender (i.e., upto -----), We shall be bound by the communication of acceptance despatched within the prescribe time.

**5.** Earnests Money/Bid Guarantee for an amount equal to .....N.A. .... is enclosed in form of -----N.A. -----(form and reference number, date) as per the Tender Documents.

Dated.....

Signature and seal of *Manufacturer/Bidder*





**SECTION XII: VENDOR DETAILS**

The tenderer should furnish specific details mentioned below. In case a question/ issue does not apply to a tenderer, the same should be answered with the remark “not applicable”.

Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.

In case a tenderer furnishes a wrong or misleading answer against any of the under mentioned question/ issues, its tender will be liable to be ignored.

**1. Vendor/ Contractor particulars:**

- (a) Name of the Company:.....
- (b) Corporate Identity No. (CIN): .....
- (c) Registration if any with SPMCIL: .....
- (d) Complete Postal Address: .....
- (e) Pin code/ ZIP code: .....
- (f) Telephone nos. (with country/area codes): .....
- (g) Fax No.: (with country/area codes): .....
- (h) Cell phone Nos.: (with country/area codes): .....
- (i) Contact persons /Designation: .....
- (j) Email IDs: .....

**2. Taxation Details:**

- (a) PAN number: .....
- (b) Type of GST Registration (Registered, Unregistered, Composition, SEZ, RCM etc.): .....
- (c) GSTIN number: .....
- (d) Registered Address as per GST registration and Place of Delivery for GST Purpose: .....
- (e) Contact Names, Nos. & email IDs for GST matters (Please mention primary and secondary contacts): .....

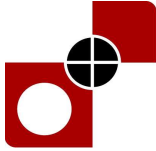
- We solemnly declare that our GST rating on the GST portal / Govt. official website is NOT negative / blacklisted during the last three financial years.

.....  
(Signature with date)  
.....  
.....

(Full name, designation & address of the person duly authorized sign on behalf of the tenderer)

For and on behalf of  
.....  
.....

(Name, address, and stamp of the tendering firm)



**SECTION XV: BANK GUARANTEE FORM FOR PERFORMANCE SECURITY**

**PROFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE  
GUARANTEE BOND**

***(ON BANK'S LETTERHEAD WITH ADHESIVE STAMP)***

Ref .....

Date .....

Bank Guarantee No .....

To,  
***(Insert Name & Address of the Purchaser)***

Dear Sir,

1. Against contract vide Notification for Award of the Tender No .....dated ..... covering supply of .....(hereinafter called the 'contract') entered into between the .....***(insert name of Purchaser)*** (herein after called as the Purchaser) and M/s....., (here in after called the 'Contractor'), this is to certify that, at the request of the Contractor, we ..... ***(name of the bank)***, are holding in trust in favour of the Purchaser, the amount of .....***(write the sum here in words)***, to indemnify and keep indemnified the Purchaser, against any loss or damage that may be caused to, or suffered by the Purchaser, by reason of any breach by the Contractor of any of the terms and conditions of the said contract and/or in the performance thereof. We agree that the decision of the Purchaser, whether any breach of any of the terms and conditions of the said contract and/or in the performance thereof has been committed by the Contractor; and the amount of loss or damage that has been caused or suffered by the Purchaser, shall be final and binding on us, and the amount of the said loss or damage shall be paid by us, forthwith on demand and without demur to the Purchaser.

2. We ..... ***(name of the bank)***, further agree that, the guarantee herein contained, shall remain in full force and effect, for sixty days after the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period whichever is later, i.e. till ....., (hereinafter called the 'said date') and that if any claim accrues or arises against us ..... ***(name of the bank)***, by virtue of this guarantee before the said date, the same shall be enforceable against us ..... ***(name of the bank)***, notwithstanding the fact that the same is enforced within six months after the said date, provided that notice of any such claim has been given to us ....., ***(name of the bank)***, by the Purchaser, before the said date. Payment under this bond of guarantee shall be made promptly, upon our receipt of notice to that effect, from the Purchaser.



- 3. It is fully understood that this guarantee is effective from the date of the said contract and that we ..... **(name of the bank)**, undertake not to revoke this guarantee during its currency, without the consent in writing of the Purchaser.
- 4. We undertake to pay to the Purchaser, any money so demanded, notwithstanding any dispute or disputes raised by the Contractor, in any suit or proceeding pending before any Court or Tribunal, relating thereto, our liability under this present, being absolute and unequivocal. The payments so made by us under this bond, shall be a valid discharge of our liability for payment thereunder, and the Contractor shall have no claim against us, for making such payments.
- 5. We..... **(name of the bank)**, further agree that the Purchaser shall have the fullest liberty, without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said contract, or to extend time of performance by the Contractor, from time to time, or to postpone for any time or form, time to time, any of the powers exercisable by the Purchaser, against the said Contractor and to for bear or enforce any of the terms and conditions relating to the said contracts and we..... **(name of the bank)**, shall not be released from our liability under this guarantee, by reason of any such variation or extension being granted to the said Contractor, or for any forbearance and/or omission on the part of the Purchaser, or any indulgence by the Purchaser towards the said Contractor, or by any other matter or thing whatsoever, which under the law relating to sureties, would, but for this provision, have the effect of so releasing us from our liability under this guarantee.
- 6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor.

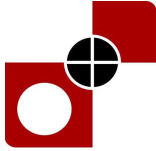
Date

Place

Signature  
**(Printed Name)**  
**(Designation)**

Witnesses

**(Bank's Common Seal)**



**SECTION XVI: CONTRACT FORM**

(Address of SPMCIL’s office issuing the contract)

Contract No..... dated.....

This is in continuation to this office’ Notification of Award No..... dated .....

1. Name & address of the Supplier: .....
2. SPMCIL’s Tender document No..... dated..... and subsequent Amendment No....., dated..... (If any), issued by SPMCIL
3. Supplier’s Tender No..... dated..... and subsequent communication(s) No..... dated ....., (If any), exchanged between the supplier and SPMCIL in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as part of this contract:

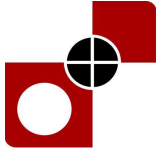
- (i) General Conditions of Contract;
- (ii) Special Conditions of Contract;
- (iii) List of Requirements;
- (iv) Technical Specifications;
- (v) Quality Control Requirements;
- (vi) Tender Form furnished by the supplier;
- (vii) Price Schedule(s) furnished by the supplier in its tender;
- (viii) Manufacturers’ Authorisation Form (if applicable for this tender);
- (ix) SPMCIL’s Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under Section – V - ‘General Conditions of Contract’ of SPMCIL’s Tender document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

(i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Schedule No.	Brief description of goods/ services	Accounting unit	Quantity to be supplied	Unit Price (in Rs.)	Total price



Any other additional services (if applicable) and cost there of: .....

Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

- (ii) Delivery schedule
- (iii) Details of Performance Security
- (iv) Quality Control
  - (a) Mode(s), stage(s), and place(s) of conducting inspections and tests.
  - (b) Designation and address of SPMCIL's inspecting officer
- (v) Destination and despatch instructions
- (vi) Consignee, including port consignee, if any
- (vii) Warranty clause
- (viii) Payment terms
- (ix) Paying authority

.....  
(Signature, name, and address of SPMCIL's authorized official)

For and on behalf of.....  
Received and accepted this contract .....

(Signature, name, and address of the supplier's executive duly authorized to sign on behalf of the supplier)

For and on behalf of .....

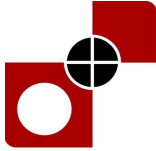
(Name and address of the supplier)

.....

(Seal of the supplier)

Date:

Place:



## **SECTION XIX: NEFT MANDATE**

(Refer clause 22.2 of GCC)

From: M/s. ....

Date: .....

To:

(Insert Name and Address of Purchaser's Paying Authority as per NIT Clause 1)

Sub: NEFT payments

We refer to RBI's NEFT scheme. Our mandate SPMCIL for making payments to us through the above scheme to our under noted account.

### NATIONAL ELECTRONIC FUNDS TRANSFER MANDATE FORM

1	Name of City	
2	Bank Code No.	
3	Branch Code No.	
4	Bank's Name	
5	Branch Address	
6	Branch Telephone / Fax No.	
7	Supplier's Account No.	
8	Type of Account	
9	IFSC code for NEFT	
10	IFSC code for RTGS	
11	Supplier's name as per Account	
12	MICR Code No.	
In Lieu of Bank Certificate to be obtained as under, please attach a bank cancelled cheque or photocopy of a cheque or front page of your bank passbook issued by your bank for verification of the above particulars.		

I hereby declare that the particulars given above are correct and complete. If the transaction is delayed or not effected at all for reasons of incomplete or incorrect information, I would not hold the user institution responsible. I have read the option intimation letter and agree to discharge responsibility expected of me as a participant under the scheme.

Date

Signature of the Customer

Certified that the above particulars are correct as per our record.

Stamp and  
Signature of authorized  
official of the bank



## Annexure - A

(Name of the firm)

### FINANCIAL STANDING OF THE FIRM

The bidder should intimate their financial standing in the following format duly certified by a Chartered Accountant / cost Accountant

- a) Average Annual turnover of the firm during last three years ending 31.03.2023.  
(Exempted for MSME firms)

Sl.No.	Financial Year	Turnover (in lakh)
1.	2020-2021	_____
2.	2021-2022	_____
3.	2022-2023	_____

- b) Profit and Loss Account of the firm during last three years ending 31.03.2023.

Sl.No.	Financial Year	Profit/Loss (in lakh)
1.	2020-2021	_____
2.	2021-2022	_____
3.	2022-2023	_____

- c) Net worth of the firm during last three years ending 31.03.2023.

Sl.No.	Financial Year	Net Worth (in lakh)
1.	2020-2021	_____
2.	2021-2022	_____
3.	2022-2023	_____

## NAME OF WORK :- CONSTRUCTION OF NEW STORE BUILDING AT IGM , NOIDA

## ABSTRACT OF COST : CIVIL WORK

S.N	DESCRIPTION OF ITEM	QUANTITY	UNIT	RATES	AMOUNT
<b>A Earth Work</b>					
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	All kinds of soil.	422.253	CUM	286.85	121,123.36
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.	170.487	CUM	253.95	43,295.07
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	150.000	CUM	2161.20	324,180.00
4	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	150.000	CUM	368.65	55,297.50
4(a)	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared	300.000	sqm	17.60	5,280.00
4(b)	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	300.000	sqm	8.95	2,685.00
5	Supplying chemical emulsion in sealed containers including delivery as specified				
	Chlorpyrifos emulsifiable concentrate of 20%	537.930	litre	200.90	108,070.14
6	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :				
	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 : 2 (1 cement : 2 Coarse sand) to match the existing floor:				
	With Chlorpyrifos E.C. 20% with 1% concentration	537.930	sqm	256.15	137,790.77
<b>B Concrete Work</b>					
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	75.000	CUM	6326.05	474,453.75
8	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived FROM NATURAL sources)	82.797	SQM	370.85	30,705.27
9	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	1352.911	per 50kg cement	57.15	77,318.84



10	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	82.797	SQM	113.85	9,426.44
11	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	39.435	SQM	681.65	26,880.87
<b>C Reinforced Cement Concrete</b>					
12	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
(a)	Foundations, footings, bases of columns, etc. for mass concrete.	92.585	SQM	307.95	28,511.49
(b)	Suspended floors, roofs, landings, balconies and access platform.	513.529	SQM	766.55	393,645.65
(c)	Lintels, beams, plinth beams, girders, bressumers	520.174	SQM	608.35	316,447.79
(d)	Columns, Pillars, Piers, Abutments, Posts and Struts.	409.800	SQM	804.25	329,581.65
(e)	Stairs, (excluding landings) except spiral-staircases	63.992	SQM	657.75	42,090.74
13	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>upto plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500D or more.	10500.000	kg	89.65	941,325.00
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete <b>above plinth level</b> . Thermo-Mechanically Treated bars of grade Fe-500 D or more.	32500.000	kg	89.65	2,913,625.00
15	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland / Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
(I)	<b>All works upto plinth level</b>				
	<b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>				
	(i) R.C.C. work in Footing	113.421	CUM	8683.80	984,923.30
	(ii) R.C.C. work in Beam+slab	34.541	CUM	8683.80	299,945.40
	<b>Concrete of M30 grade with minimum cement content of 350 kg /cum</b>				
	(iii) R.C.C. work in Columns	6.303	CUM	8825.35	55,627.50
			CUM	8826.35	-
(II)	<b>All works above plinth level upto floor V level</b>				
	<b>Concrete of M25 grade with minimum cement content of 330 kg /cum</b>				
	(i) R.C.C. work in Lintel		CUM	10306.20	-
	(ii) R.C.C. work in Beam	57.218	CUM	10306.20	589,700.15
	(iv) R.C.C. work in Slab	77.832	CUM	10306.20	802,152.16

*de*

*Mr*

	<b>Concrete of M30 grade with minimum cement content of 350 kg /cum</b>				
	(iii). R.C.C. work in Columns	36.964	CUM	10477.75	387,299.55
<b>D</b>	<b>Masonry Work</b>				
16	Providing and laying autoclaved aerated cement blocks masonry with 100 mm thick AAC blocks in super structure above plinth level up to floor V level in cement mortar 1:4 (1 cement : 4 coarse sand ). The rate includes providing and placing in position 2 Nos 6 mm dia M.S. bars at every third course of masonry work.	60.803	CUM	8890.80	540,590.87
<b>F</b>	<b>Door And Window</b>				
17	Providing and fixing glazing in aluminium door, window, ventilatorshutters and partitions etc. with EPDM rubber / neoprene gasketetc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
(a)	With float glass panes of 5 mm thickness (weight not less than 12.50 kg/sqm)	117.960	SQM	1325.55	156,361.88
18	Providing and fixing aluminium work for doors,windows, ventilators and partitions with extruded builtup standard tubular sections/appropriate Z sections andother sections of approved make conforming to IS: 733and IS: 1285, fixing with dash fasteners of required diaand size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with requiredEP DM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointedmechanically wherever required including cleat angle,Aluminium snap beading for glazing / paneling, C.P.brass/ stainless steel screws, all complete as perarchitectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to bepaid for separately) :Anodised aluminium (anodised transparent or dyed torequired shade according to IS: 1868, Minimum anodised coating of grade AC 15)One KilogramPowder coated aluminium (minimum thickness ofpowder coating 50 micron)One KilogramPolyester powder coated aluminium (minimumthickness of polyester powder coating 50 micron)One KilogramFor shutters of doors, windows & ventilators includingproviding and existing hinges/ pivots and making provision for existing of fittings wherever required including thecost of EPDM rubber / neoprene gasket				
(a)	Anodised aluminium (anodised transparent or dyed torequired shade according to IS: 1868, Minimum anodiccoating of grade AC 15)	411.840	Kg	433.95	178,717.97
19	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge completeUpto 5mm depth and 5 mm width	215.600	RM	85.25	18,379.90
<b>G</b>	<b>Steel Work</b>				
20	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
(a)	Fixed to steel windows by welding	738.566	kg	181.00	133,680.52
21	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters.				
a)	80x1.25 mm M.S. laths with 1.25 mm thick top cover.	11.52	Sqm	3009	34,663.68
b)	Providing and fixing ball bearing for rolling shutters.	2	Each	424.2	848.40

ds



	Extra for providing mechanical device chain and crank operation for operating rolling shutters.				
c)	Exceeding 16.80 sqm in area.	11.52	Sqm	1108.7	12,772.22
22	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	15256.00	KG	142.30	2,170,928.80
23	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, 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.	150.00	kg	612.25	91,837.50
<b>H Flooring</b>					
24	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : 25 mm thick	635.253	SQM	1706.60	1,084,122.77
25	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	63.525	SQM	2038.55	129,499.50
26	Providing and fixing 1st 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.	75.896	sqm	1063.45	80,711.71
27	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	252.000	SQM	855.90	215,686.80
<b>I Finishing</b>					
28	12mm cement plaster in single coat on fair side of single or half brick wall for exterior plastering up to floor two level including internal rounded angles chamfers, and/or rounded angles not exceeding 80mm in girth and finished even and smooth no extra for mixing any additive. 1:6 (1 cement: 6 coarse sand)	960.034	SQM	294.35	282,585.98
29	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)	1186.773	SQM	339.10	402,434.72
30	6 mm cement plaster on ceiling (a) 1:3(1 cement:3 fine sand)	625.653	SQM	253.05	158,321.49

31	Distempering with oil bound washable distemper of approved brand and manufacture to give even shade:				
a)	New Work (two or more coats) over and including water thinnable priming coat with cement primer.	750.000	SQM	162.55	121,912.50
32	Finishing walls with water proofing cement paint of required shade :				
a)	New work (Two or more coats applied @ 3.84 kg/10 sqm).	1000.000	SQM	97.60	97,600.00
33	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.	1750.000	SQM	123.85	216,737.50
<b>Water Proofing</b>					
34	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:				
(a)	Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment.				
(b)	Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.				
(c)	After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge.				
(d)	Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineerin- charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.				
(e)	The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	250.000	SQM	1522.95	380,737.50
<b>ROOFING</b>					
35	Providing and fixing precast galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineerin- charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	240.000	SQM	671.55	161,172.00
				<b>TOTAL</b>	<b>16,171,686.60</b>

Annexure-2

Annex-3

CONSTRUCTION OF NEW STORE BUILDING AT IGM , NOIDA				
HVAC WORKS				
S.No.	SUB HEAD	DESCRIPTION		AMOUNT (RS.)
1	A	MACHINERY	RS.	1,598,467.00
2	B	PLUMBING	RS.	196,364.00
3	C	AIR DISTRIBUTION	RS.	550,069.00
4	D	ELECTRICAL	RS.	262,240.00
		<b>TOTAL (A)</b>	<b>Rs.</b>	<b>2,607,140.00</b>



Construction of New Store Building at IGM, Noida (UP)						
ESTIMATE FOR HVAC WORKS						
S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
<b>A</b>		<b>MACHINERY</b>				
<b>1</b>	<b>1</b>	<b>Variable Refrigerant Volume System</b>				
		Supply Installation, Testing & Commissioning of modular type Variable Refrigerant Flow/Variable Refrigerant Volume air cooled Outdoor units suitable for cooling and heating, having all hermetically sealed inverter type Scroll Compressor(s), minimum two compressors for above 14 HP modules, microprocessor based Controller, top discharge type condensing unit(s), with R 410 A Refrigerant, vibration isolators, with suitable foundation etc. complete as required. The unit shall deliver the rated capacity at AHRI Conditions and work even at 50°C ambient temperature without tripping. The unit shall be suitable to work on 400V +/- 10%, 3 Phase, 50Hz AC power supply. The unit shall be filled with first charge of the refrigerant and ready for use as required. The COP at AHRI conditions shall not be less than 3.1 and IEER not less than 6.5.				
		<b>Outdoor VRV Unit (Heat Pump Type)</b>				
1.1		20 HP Capacity (for Ground Floor)	Nos.	1.00	3,28,300	3,28,300.00
1.1		14 HP Capacity (for First Floor)	Nos.	1	2,29,810	2,29,810.00
<b>2</b>	<b>2</b>	<b>INDOOR UNIT-CASSETTE TYPE</b>				
		Supply, installation, testing and commissioning of following minimum capacity 4-way flow VRV/VRF Cassette Type Indoor ceiling mounted unit equipped with synthetic washable media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cord less remote control etc., suitable for operation on single phase 230 V ± 10%, 50Hz AC supply, complete, as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature.				
2.2	2.4	1.6 TR	Nos.	1	30204	30,204.00
<b>3</b>	<b>4</b>	<b>INDOOR UNIT-DUCTABLE TYPE</b>				

S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
		Supply, installation, testing and commissioning of following minimum capacity and external static pressure VRF/VRV ceiling mounted ductable type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, corded remote control, outer cabinet, vibration isolators, drain pan, other necessary supports etc., suitable for operation on single phase AC supply 230 V ± 10%, 50 Hz complete as required. The unit shall have automatic force shut down provision in case of fire on receiveing signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature.				
3.2	4.17	5.5 TR	Nos	5	85766	4,28,830.00
4	3	<b>High Wall Type</b>				
		Supply, installation, testing and commissioning of following minimum capacity VRV/VRF High wall type Indoor unit equipped with washable synthetic media pre-filter, fan section with low noise fan/dynamically balanced blower, multispeed motor, coil section with DX copper coil, electronic expansion valve, outer cabinet, cord less remote control, drain pan, necessary accessories etc., suitable for operation on 230 V ± 10%, 50 Hz, single phase AC supply, complete as required. The unit shall have automatic force shut down provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature.				
4.1	3.7	2.0 TR	Nos	2	22100	44,200.00
4	MR	<b>Desiccant Dehumidifier</b>				
		Supplying, installation, testing and commissioning of factory built ceiling suspended, sigle skin Desiccant Dehumidifier made of powder coated 18 gauge GI sheet containing one metal silicate rotor, complete with process blower, reactivation blower, dehumidifier section, heaters, digital humidistat, TEFC drive motor suitable for 415+10% volts, 50 Hz, 3 phase, A.C. supply, and necessary vibration isolation arrangement etc. complete as per specifications and drawings of following capacities. Motor efficiency shall be IE3. Dehumidifier must covers area of 2785 square feet with 12 feet height at 24 C and maintain 35 +5 % Relative Humidity.				

WAREHOUSE AT MINT NOIDA

BILL OF QUANTITIES

S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
4.1	MR	<b>DEH-01 for Paper Storage at Ground Floor (Ceiling/Wall/Floor Mounted Type)</b>				
		Process Air Flow : 350 CFM				
		Fresh Air : 120 CFM				
		Exhaust Air : 120 CFM				
		Process Motor : 0.37 KW				
		React Motor : 0.37 KW				
		Heater : 7.2 KW	Set	1	5,37,123.00	5,37,123.00
		<b>TOTAL OF SUM HEAD- A</b>				<b>15,98,467.00</b>



S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
<b>B</b>		<b>PLUMBING</b>				
		<b>PIPING &amp; INSULATION</b>				
<b>1</b>	<b>5.0</b>	<b>Copper Refrigerant Piping</b>				
		Supply, Installation, testing and commissioning including vacuumization and Nitrogen testing of following nominal sizes of soft/hard drawn copper refrigerant piping for VRV/VRF system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of specified thickness as given below for Suction and Liquid lines, all accessories as per specifications etc, as required :				
1.1	5.1	6.4 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	5	245	1,225.00
1.2	5.3	12.7 mm dia (OD) (Soft drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	60	466	27,960.00
1.3	5.5	19 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	30	707	21,210.00
1.4	5.8	28.58 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	55	1108	60,940.00
1.5	5.10	34.9 mm dia (OD) (Hard drawn) with tube thickness 1.2 mm with 19 mm thick insulation	Rmt	28	1230	34,440.00
		NOTE:- (1) The Copper Piping & Piping Circuit should be with Minimum Number of joints, which shall be attained by : (i) Using One End Expanded Tubes (ii) Bending the tubes instead of using elbow joints wherever 90 degree bending is required. (2) Piping should be routed at site in such a manner, that brazed joints in the refrigeration piping are kept to a minimum. (3) The makes of tube fittings shall be same as that of tubes. (4) The thickness of fittings used shall be same as that of the pipe.				
<b>2</b>	<b>MR</b>	Supply Installation, Testing and commissioning of Imported fittings (Ref Net) Y-joints etc.	Nos	5	3020.00	15,100.00

WAREHOUSE AT MINT NOIDA

BILL OF QUANTITIES

S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
3	MR	<b>PVC Drain Piping</b>				
		Supply, Installation, testing and commissioning of PVC drain piping duly insulated with 6 mm thick with XPLE and complete with fittings, supports accessories in surface/recess as per specifications & site requirements				
3.1	MR	25 mm dia	Rmt	15	193.00	2,895.00
3.2	MR	40 mm dia	Rmt	35	358.00	12,530.00
4	MR	<b>MS Stand for VRV ODU</b>				
		Supply, installation, testing and commissioning of MS fabricated outdoor unit stand for placing outdoor unit of VRV and split system. The stand shall be manufactured from MS C channel of minimum 4 mm thick. It shall be finished with enamel paint as per client/architect approval	Nos.	2	10032.00	20,064.00
		<b>TOTAL OF SUM HEAD- B</b>				<b>1,96,364.00</b>

S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
C		<b>AIR DISTRIBUTION</b>				
1	16.12.1	<b>GSS Ducting</b>				
		Factory fabricated GSS sheet metal rectangular/round ducting of following sheet thickness				
1.1	16.12.1.1	Thickness 0.63 mm sheet	Sqm	120	1080	1,29,600.00
1.2	16.12.1.2	Thickness 0.80 mm sheet	Sqm	85	1263	1,07,355.00
2	MR	<b>Duct Insulation</b>				
		Supplying , installation, testing & commissioning of external thermal insulation on ducts with Duly laminated aluminum foil of mat finish Closed Cell Cross Linked Polyethylene (class "O") insulation shall be $27 \pm 3$ Kg/m <sup>3</sup> . The product shall have temperature range of -40 oC to 105oC. Thermal Conductive not exceeding 0.033 W/mK at an average Temperature of 23°C. The insulation material shall be fire rated for Class 1 as per BS 476 Part 6 : 1989 for fire propagation test and for Class 0 as per BS 476 Part 7, 1987 for surface spread of flame test. Water vapour permeability shall be not less than 0.024 per inch ( $2.48 \times 10^{-14}$ Kg/m.s,Pa i.e. $\mu > 7000$ : Water vapour diffusion resistance).The Material shall have Fire Approval from CBRI - Roorkee				
2.1	MR	19 mm thick Closed Cell Cross Linked Polyethylene( XLPE) Foam with Factory Laminated Aluminium Foil for Supply Air Duct	Sqm	170	788.00	1,33,960.00
3	MR	<b>Acoustic Lining</b>				
		Supply, Installation, Testing and Commissioning of Acoustic lining inside ducts using Non Fibrous fire retardant crosslinked polyethylene foam of 60+/- 3 Kg/m <sup>3</sup> density & thickness of 15mm /25mm having porous surface on one side & a flat surface on other side using Synthetic rubber based Adhesive preferably Low VOC & high strength characteristic.(Initial portion of ducting and main plenum) as per specifications				
3.1	MR	15mm thick ecosound (FR-Open Cell Cross Linked Polyethylene) for supply & return air ducts	Sqm	30	1218.00	36,540.00
4	MR	<b>Continuous Grille</b>				
		Supplying & fixing of powder coated extruded aluminium continuous Griles with louvers but without volume control dampers complete as required.				

WAREHOUSE AT MINT NOIDA

BILL OF QUANTITIES

S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
4.1	MR	200 MM Height	Rmt	95	1290.00	1,22,550.00
5	MR	<b>Box Type AL. Damper For Above Grilles</b> Supplying, fixing, testing and commissioning of aluminium volume control dampers as per specifications.	Sqm	4	5016.00	20,064.00
<b>TOTAL OF SUM HEAD- C</b>						<b>5,50,069.00</b>

S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
D		<b>ELECTRICAL</b>				
		<b>PANELS</b>				
1	MR	<b>Weather Proof Panel for Outdoor Units (IP-65)</b>				
1.1		<b>Electrical Panel for VRV Outdoor Units &amp; Dehumidifiers (32 HP &amp; )</b>				
		Supplying, installation testing and commissioning of cubical type main MV panel board suitable for 3 phase, 415 ± 10% volts, 50 ± 3% Hz and of 35 KA rupturing capacity at 415 volts, fabricated from minimum 2 mm thick and doors of 1.6 mm thick CRCA sheet powder coated through seven tank process facility for pickling and degreasing complete with mountings, interconnections, earthing etc including mechanical and Electrical Inter locking as required.				
		<b>Incoming</b>				
		1 No. 500 Amps 415 volt 50 kA TPN MCCB with microprocessor release having overcurrent and short circuit protection and CBCT & ELR complete with rotary operating mechanism with spreader.				
		<b>Metering</b>				
		i. Red/Green/Amber/ ON/OFF trip indicating lamps with MCB,s protection-1set.				
		ii. Communicable type Multi Function Meter (MFM) of accuracy class - 1 with 3 nos, 500/5 amps 10 VA CT's to measure real time, total active energy, maximum demand, instant Power factor, frequency, harmonics etc. - 1 set				
		<b>Bus-bar</b>				
		Main bus bar rated at 750 amps 4 pole, 25 KA with heat shrinkable sleeve and shall be of aluminium.				
		<b>Outgoings</b>				
		1 Nos. 63 amps 4P MCCB with outgoing feeder to 1 Nos. 20 HP VRV outdoor unit. 1 Nos. 40 amps 4P MCB with outgoing feeder to 1 Nos. 14 HP VRV outdoor unit.. The compartment shall contain an indicating lamp with MCB for 'ON' status of compressor motor.	Set	1	32245.00	32,245.00
2	MR	<b>POWER CABLES</b>				

S.NO	DSR ITEM CODE	DESCRIPTION OF ITEM	UNIT	quantity	RATE (RS.)	AMOUNT (RS.)
		Supply and laying of the following 1100 volt grade armoured XLPE insulated and PVC sheathed -aluminium conductor cable in trench / cable tray /clamped to wall with suitable clamps saddles & fixing bolts/including testing & commissioning complete as required. The costs shall include crimping tinned heavy duty aluminium lugs, compression glands requisite materials for all cables and to provide with 1D gap & shall be properly clamped with cable clamps & ties. Identification tags shall be provided for all cables including cable end termination.				
2.1	MR	3.5 core 25 Sq mm	Rmt	125	358.00	44,750.00
2.2	MR	4 core 16 Sq mm	Rmt	60	259.00	15,540.00
2.3	MR	4 core 4 Sq mm	Rmt	110	130.00	14,300.00
2.4	MR	3 core 4 Sq mm	Rmt	20	113.00	2,260.00
3	MR	<b>CONTROL CABLING</b>				
		Supply, laying, testing and commissioning of control cabling, as per Standard specification including end termination as required.				
		Power Cabling ( PVC insulated and PVC sheathed, armoured, Copper Conductor of 1,1 KV grade on existing cable trays).				
3.1	MR	2C x 1.5 Sq mm	Rmt	210	282.00	59,220.00
4	4.1 (E&M)	<b>CABLE TRAY</b>				
		Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
4.1	4.1.2	150 mm width X 50 mm depth X 1.6 mm thickness	Rmt	105	543	57,015.00
5		<b>EARTHING</b>				
5.1	5.15 (E&M)	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Rmt	110	206	22,660.00
5.2	5.16 (E&M)	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Rmt	250	57	14,250.00
		<b>TOTAL OF SUM HEAD-D</b>				<b>2,62,240.00</b>

de

Annexure-3

CONSTRUCTION OF NEW STORE BUILDING AT IGM , NOIDA			
PLUMBING WORKS			
S.No.	Description	AMOUNT (₹)	
		DSR	NON DSR
1.	SANITARY INSTALLATIONS	27971.35	0.00
2.	SOIL, WASTE, RAIN & VENT PIPES	90225.05	15850.00
3.	WATER SUPPLY INTERNAL	28564.10	0.00
4.	EXTERNAL	95759.75	23400.00
	<b>SUB TOTAL- PLUMBING WORKS (₹)</b>	<b>242520.25</b>	<b>39250.00</b>
	<b>GRAND TOTAL- PLUMBING WORKS (₹)</b>	<b>281770.25</b>	

|

*[Handwritten signature]*

*[Handwritten signature]*

## Annexure-3

## Estimate Of Plumbing Works For Construction of New Store Building at IGM, Noida (UP)

S.NO.	(DSR- 2023	DESCRIPTION	UNIT	QTY.	RATE	AMOUNT	
						DSR	NON DSR
<b>SCHEDULE ITEMS</b>							
<b>A. SANITARY INSTALLATIONS</b>							
1	17.78	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	Each	1	14999.15	14999.15	
2	17.77A	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:-					
		(a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	Each	1	2301.75	2301.75	
3	18.53	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
	18.53.1	15 mm nominal bore	Each	10	574.30	5743.00	
4	17.31	Providing and fixing 600X450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	1	1607.95	1607.95	
5	18.74	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour.					
	18.74.1	15 mm nominal bore with 45 cm length	Each	10	96.35	963.50	



6	17.22A	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	1	1034.80	1034.80	
7	17.34	Providing and fixing toilet paper holder :	Each	1	803.70	803.70	
	17.34.1	C.P. brass					
8	17.16A	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 approved by Engineer - in - charge.	Each	1	349.15	349.15	
9	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	1	168.35	168.35	
		<b>TOTAL C/F SANITARY-A</b>				<b>27971.35</b>	<b>0.00</b>
<b>B.</b>		<b>SOIL, WASTE, RAIN &amp; VENT PIPES</b>					
10	17.35	Providing and fixing soil, waste and vent pipes :					
	17.35.1	100 mm dia					
	17.35.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	metre	28	1169.30	32740.40	
11	17.35.2	75 mm diameter :					
	17.35.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	metre	0	964.25	0.00	
12	17.39	Providing and fixing plain bend of required degree.					
	17.39.1	100 mm dia					
	17.39.1.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	Each	16	368.00	5888.00	
13	17.39.2	75 mm dia					
	17.39.2.3	Hubless centrifugally cast (spun) iron pipes epoxy coated inside & outside IS:15905	Each	0	252.50	0.00	
14	17.57A	Providing and fixing shielded coupling for Hubless centrifugally cast iron pipe					
	17.57A.1	100 mm dia					
	17.57A.1.1	SS 304 grade coupling with EPDM rubber gasket	Each	75	432.05	32403.75	

*[Handwritten mark]*

*[Handwritten mark]*

15	17.57A.2	75 mm dia						
	17.57A.2	SS 304 grade coupling with EPDM rubber gasket	Each	0	389.05	0.00		
16	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :						
	17.60.1	100 mm inlet and 100 mm outlet						
	17.60.1.3	Hubless centrifugally cast (spun) iron epoxy coated inside & outside as per IS:15905	Each	2	854.55	1709.10		
17	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes.						
	12.41.2	110 mm diametre	Each	24	377.40	9057.60		
18	12.42	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.						
	12.42.1	Coupler	Each	4	136.15	544.60		
	12.42.1.2	110 mm						
18.2	12.42.3	Single tee with door	Each	4	221.35	885.40		
	12.42.4.2	110x110x110 mm						
18.3	12.42.5	Bend 87.5°	Each	4	150.35	601.40		
	12.42.5.2	110 mm bend						
18.4	12.42.6	Shoe (Plain)	Each	4	131.85	527.40		
	12.42.6.4	110mm Shoe						

*Handwritten signature and scribble*

19	12.43	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.	Each	12	371.30	4455.60	
	12.43.2	110mm					
20	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	4	54.70	218.8C	
21	12.22	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	4	298.25	1193.00	
22	NS	Providing and fixing 100% stainless steel grating with frame of approved make and quality grade 304 on top of floor trap. The rate includes the cost of all ancillary works and material as required to complete the works.	Each	2	2000.00		4000
		125 x 125 x 1mm	Each	1	1250.00		1250
		75x75 x1 mm	Each				
23	NS	Providing and fixing 100mm Dia Hubless Cast Iron with epoxy coated inside & outside as per IS:15905 inlet fitting approximately 450/600 mm long with one or more 32/40/75mm dia. Hubless CI sockets complete in all respects	Each	2	3000.00		6000
24	NS	Providing and fixing 100mm dia Hubless Cast Iron with epoxy coated inside & outside as per IS:15905 approximately 450 mm long with one reducer elbow 100x75 mm complete in all respects.	Each	1	2800.00		2800



Handwritten signature in blue ink.

25		Providing and fixing SS Floor clean out/clean out plug with SS cover and EPDM seal complete in all respects including fixing of SS cleanout plug with CP brass screws. (Make:Chilly)	Each	2	900.00	90225.05	15850.00	1800
	NS	100mm dia						
		<b>TOTAL C/F SOIL WASTE &amp; VENT PIPES-C</b>						
		<b>WATER SUPPLY INTERNAL</b>						
C.								
1.	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including 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. <b>Internal work - Exposed on wall</b>						
1.1	18.7.2	20 mm nominal outer dia Pipes	metre	1	335.00	335.00		
1.2	18.7.3	25 mm nominal outer dia Pipes	metre	8	401.55	3212.40		
1.3	18.7.4	32 mm nominal outer dia Pipes	metre	10	578.75	5787.50		
2	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. <b>Concealed work</b> , including cutting chases and making good the walls etc.						
2.1	18.8.2	20 mm nominal outer dia Pipes	metre	12	537.00	6444.00		
2.2	18.8.3	25 mm nominal outer dia Pipes	metre	6	627.25	3763.50		
3	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :						
3.1	18.17.1A	20 mm dia nominal bore	Each	1	539.95	539.95		

*SS*

*W*

3.2	18.17.1	25 mm dia nominal bore	Each	1	622.00	622.00	
3.3	18.7.2	32 mm dia nominal bore	Each	1	689.60	689.60	
3.4	18.7.3	40 mm dia nominal bore	Each	1	826.10	826.10	
4	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :					
	18.18.3	25 mm nominal bore	each	1	464.05	464.05	
5	18.20	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main :					
	18.20.2	25 mm nominal bore	each	1	380.00	380.00	
6	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.					
	18.48A	Circular tank	PER LITRE	500	11.00	5500.00	
		<b>TOTAL C/F WATER SUPPLY-B</b>				<b>28564.10</b>	<b>0.00</b>
		<b>EXTERNAL</b>					
1.	MR	Providing and laying cement concrete 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size) up to haunches of RCC/DWC pipes including bed concrete as per standard design :					
		150 mm dia. DWG/RCC Pipe	metre	60	375.00		22500
		200 mm dia. DWC Pipe	metre	1	900.00		900
2	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed. within a lead of 50 m : All kinds of soil					

*ds*

*M*

		Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia	metre	45	549.75	24738.75	
3	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	30	196	5880	
4	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :					
	19.7.1	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :					
	19.7.1.2	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	4	12711.80	50847.20	
5	19.8	Extra for depth for manholes :					
	19.8.1	Size 90x80 cm					
	19.8.1.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	1	8825.4	8825.4	



6	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design.					
	19.4.2	150 x 100 mm size P type	Each	2	2734.2	5468.4	
	19.4.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5					
		Total				95759.75	23400.00

*Handwritten signatures in blue ink.*

Annexure-4									
CONSTRUCTION OF NEW STORE BUILDING AT IGM, NOIDA									
ELECTRICAL WORKS									
GROUND+FIRST FLOORS									
S. No.	M.R.	DSR-2022	DESCRIPTION	UOM	DSR RATE(₹)	M.R. RATE(₹)	Qty	DSR AMOUNT(₹)	M.R. AMOUNT(₹)
1.0		1.10	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq mm FRLS PVC insulated copper conductor single core cable etc. as required.						
1.1		1.10.3	Group C	Point	1467.00		12	17604.00	
2.0	M.R.-10		Wiring for One light point controlled by 10A MCB with 2x1.5 sq.mm FRLS PVC insulated copper conductor wire and earthing with 1.5 sq mm PVC insulated copper conductor earth wire.	Point		700.00	20		14000.00
3.0		1.14	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.						
3.1		1.14.2	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Metre	60.00		300	18000.00	
3.2		1.14.3	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	334.00		180	60120.00	
4.0		1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A Modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	477.00		6	3816.00	
5.0		1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	586.00		25	14650.00	
6.0		1.55	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/recessed PVC conduit, and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.						
6.1		1.55.3	Group C	Point	858.00		18	15444.00	
7.0		2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with lined copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/ Isolator)						
7.1		2.4.2	6 Way (4+18), Double Door	Each	4974.00		2	9948.00	
8.0		2.10	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, 'C' curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
8.1		2.10.1	Single pole	Each	256.00		36	9216.00	
8.2		2.10.2	Single pole and neutral	Each	599.00		6	3594.00	
9.0		2.13	Supplying and fixing following rating, four pole, 415V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
9.1		2.13.2	63A	Each	1034.00		1	1034.00	
10.0		2.14	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
10.1		2.14.1	25A	Each	2028.00		3	6084.00	
11.0		2.15	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
11.1		2.15.3	63A	Each	2872.00		2	5744.00	
12.0	M.R.-30		Supply, installation & testing of following type led Compact light fixtures, on wall/ Ceiling including all fixing accessories, etc complete as required. The led shall be complete with Low loss copper driver all prewired upto the terminal block. All fixtures shall be supplied with lamps as required.						
12.1		3.2	20W wall mounted light	Each		1050.00	10		10500.00
12.2		3.3	10W bulk head light	Each		1614.53	2		3229.07
12.3		3.4	12W led ceiling light	Each		1350.00	20		27000.00
12.4		3.5	12W wall bracket light	Each		1037.21	5		5186.05
12.5		3.0	36W led ceiling light	Each		1350.00	20		27000.00
13.0	M.R.-40		Design, manufacture, supplying & installing at site in positioning, connecting, testing and commissioning of the following cubical type, dead front, 2mm thick sheet steel enclosed, free standing indoor type extendible Sub Distribution Panel with vermin proof hinged lockable doors for each compartment provide bus bar interconnections for incoming and outgoing including feeders earthing and painting and as per specifications.						
		Note	Provide insulated dedicated earth link in all UPS Panels All MCCB's 250 Amps and above shall be Microprocessor based All Light & Power panel, UPS and A.C. Panel incoming MCCB shall have Over current, Earth fault and short circuit protection. All Incoming & Outgoing MCCB's in UPS Panels shall be Microprocessor based The microprocessor based MCCB's shall have						



## Annuxure-4

## CONSTRUCTION OF NEW STORE BUILDING AT IGM, NOIDA

## ELECTRICAL WORKS

## GROUND+FIRST FLOORS

		<p>Over Load (Phase) Current setting <math>I_r(I_r=XI_n)</math> OFF 0.4 to 1.0 in steps of 0.1 Time delay, <math>t_r</math> (Inverse) 10 sec at 6/r</p> <p>Over Load (Neutral) Current setting <math>I_n</math> (IntrI=<math>XI_r</math>) 0.5, 0.75&amp;1.00 IntrI Inverse 10 sec at 6 IntrI/Fixed 200ms</p> <p>Short Circuit Current setting <math>I_s</math> ( <math>I_s+XI_r</math>) 1.5, 4 &amp; 6/r Time delay, <math>t_s</math> inst/100 msec Instantaneous Over ride Current setting <math>I_p</math> 3 Pole -400 12In, 3 Pole 630 8In, 4 Pole 8 In Time delay, <math>t_s</math> inst/100 msec All MCB's in UPS Panels shall be D Curve In all Electrical panels protective acrylic sheet to be provided in cable alley and feeders. The meters shall be able to monitor all major power quality parameters Voltage, current, frequency, KVAH, KWH, Power factor and harmonics.</p> <p>SDB LIGHT &amp; POWER The SDB Light &amp; Power shall consists of: <b>MAIN INCOMER</b> 1 Nos. 250 A 4P MCCB ( 35 kA) (O/c, S/c ) terminal suitable for XLPE Aluminium cable connection on one side and Busbar connection on the other side. <b>BUS BAR</b> 300 amps TPN busbar chamber of suitable length with aluminium busbars. All busbars and interconnections shall be of suitable size aluminium strips current density of aluminium shall not be more than 0.8 Amps/ sq.mm provide 100% capacity for neutral bus bar. <b>INDICATING PANEL</b> 3 Nos. phase indicating lamps for all incomer &amp; sub incomer feeders, each backed up with MCB and switch shall be provided for incomer. Provide under voltage and over voltage releases in the incomer with automatic reset and earth fault in the incomer Provide Intelligent Panel Meter - Schneider EM 6400NG with RS 485 port for all incoming feeder <b>OUTGOING</b> 3 Nos. 63 A 4P MCB (10 kA/1 sec) terminals to receive suitable Cable connection on one side and Busbar connection on the other side. 2 Nos. 32 A 4P MCB (10 kA/1 sec) terminals to receive suitable Cable connection on one side and Busbar connection on the other side.</p> <p>SDB Light &amp; Power as described above and specifications complete.</p>	Set	105000.00	1	105000.00
14.0	MR-5.0	Supplying, laying, receiving, shifting, testing and commissioning of following sizes of 1.1 KV XLPE insulated Aluminium / Copper conductor armoured cables underground complete as required and as per specifications including cost of end terminations(indoor/outdoor).				
14.1		3.5 x 150 sq.mm. Aluminium Cable	Meter	600.00	480	384000.00
14.2		4 x 16 sq.mm. Aluminium Cable	Meter	271.00	40	10840.00
15.0	5.4	<b>EARTHING</b> Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	7472.00	4	29888.00
16.0	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Each	13838.00	2	27676.00
17.0		Supply and laying in position the following GI tape/wires including providing all fixing accessories and effecting proper connections including clamping to wall with suitable clamp / Saddle and fixing bolts / Soldering / rivetting in ground including the cost of digging & back filling as required & complete as required to comply with IS 3043. All joints shall be tinned.				
17.1	5.5	25 x 5 mm GI tape	Meter	1162.00	20	23240.00
17.2	5.4	25 x 5 mm Cu tape	Meter	1800.00	20	36000.00
18.0		<b>CABLE TRAY</b> Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				
18.1	4.6.2	150 mm width X 50 mm depth X 1.6 mm thickness	Meter	716.00	25	17900.00
		<b>TOTAL</b>				299958.00
		<b>TOTAL DSR + MR ITEMS</b>				586755.12
						₹ 886,713.12

ds

m

## CONSTRUCTION OF NEW STORE BUILDING AT IGM , NOIDA

## SECURITY SYSTEM

S.NO.	DESCRIPTION	UNIT	QUANTITY	UNIT RATE	AMOUNT
1	<b>NAS with 128 TB HDD LOCKERSTOR 8Model AS6508T</b> SITC of 8 Bay NAS, Intel ATOM C3538 Quad-Core, 8GB DDR4, 10 GbE x 2, 2.5 GbE x 2, USB 3.2 Gen-1 x 2, M.2 SSD (2280/2260/2242 SATA/PCIe SSD) x 2, with lockable tray, AES-NI hardware encryption, MyArchive, SSD Caching, Snapshot, EZ connect, EZ Sync, HDD support 8 x 2.5" / 3.5" SATA or SSD, 2 x M.2PCIe (NVMe) or SATA SSD CPU Intel ATOM C3538 Quad-Core Denverton 2.1GHz, Memory 8GB DDR4, (Max. 32GB) with 16 TB HDD enterprises lable 16 TB each with 5 year non returnable warranty Including supply Installation Integration Testing Commissioning, & warranty Charges		No. 1	613,600.00	613,600.00
2	<b>IP PTZ High Speed Dome 5 MP Camera</b>				




	<p>SITC of Vandal Proof, weather proof, IP PTZ cameras  Grade Full HD IP PTZ Camera  250 Mtr</p> <p>* Industrial  * IR (Night Vision),  * CMOS or Better image sensor,  * Effective</p> <p>* Minimum 36x Optical Zoom,  Pixels 2560*1920 @30 fps,  with WDR. With SD CARD  * High speed Pan &amp; tilt at 360*  * 5 MP IP PTZ Camera</p> <p>* Arrey LED Lamps/ IR LED lamps  * Day time  range &gt;350 mtr Night time range &gt; 250 mtr. * 5.0 mega HD lens 4.5-  178 mm auto iris or better, * Video Compression H.265,H.264,  MJPEG, MPEG4, * Auto AGC, Auto AWB, Auto AEC</p> <p>* Support Mh. 2 Layers OSD, IPV4/V6, TCP/IP, UDP, RTP, RTSP,  RTCP, HTTP, HTTPS, * Make: E Vision EV IP  5 MP PTZ 45</p>		Nos. 2	141,600.00	283,200.00
3	<p><b>5MP Vertical Lens Network Bullet Camera IR LED Type</b></p> <p>SITC of Vandal Proof, weather proof, IP Bullet cameras * Vari-focal  Auto Iris 2.8-13.5 mm * 5.0 mega Pixel Bullet  cameras Star light * Effective pixel 2048x1536@25 fps,  * POE, (IEEE 802.3af class 3) * Inbuilt on  bord analytics, * Night Vision 60 mtr  * IP 66/67 Housing, SD Card Support &amp; Audio * Intelligent  H.265/H.264 with multicasting protection Chip, * DWDR, Digital noise  OSD, 4A auto control (AWB;AGC;AES;AD) * Power consumption less than 10 watt.  reduction, audio format G711A. * Make: E Vision Model No EV IPVF 5MP</p>		Nos. 10	21,240.00	212,400.00
4	<p><b>10-Port Gigabit Smart Managed PoE Switch8</b></p>				

*Handwritten signature*

	SITC of 10-Port Gigabit Smart Managed PoE Switch 8 x 10/100/1000BASE-T PoE ports, 2 x Gigabit SFP ports Advanced L2 switching and security features, L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface, 120 W PoE budget	Nos. 2	14,160.00	28,320.00
5	<b>6-Port Gigabit Smart Managed PoE Switch</b> SITC of 6-Port Gigabit Smart Managed PoE Switch 8 x 10/100/1000BASE-T PoE ports, 2 x Gigabit SFP ports Advanced L2 switching and security features, L2+ Static Routing Optional "standard mode" or "surveillance mode" management user interface, 60 W PoE budget	Nos. 4	5,900.00	23,600.00
6	<b>LIU 6 Port Loaded Rack Mount with Pigtail/ Fiber Splitter</b> SITC of LIU 6 Port SC Fully Loaded Units are the smaller basic patch panel & cabinets used in interconnecting, cross-connecting, or splicing applications in LANs at a premise location. The LIU (optical fiber interconnecting unit) is modular and suitable for optical cable installation, bare fibers splicing & protection, pigtails storage & management. Make E Vision EV-LIU6 / Giber Splitter Box	Nos. 4	3,540.00	14,160.00
7	<b>Patch Cord 3 Mtrs Length</b> SITC of Material LSZH, Cord Type Single Mode Fiber Length 3 meter, Usage/Application Networking Fiber Optic Patchcord Type Single Mode, Type SC-LC Fibre Core Duplex, Fibre Diameter 9/125 micron Color Aqua, Brand Dax, Number Of Cores 2 Make :- E VISION EV Patch Cord	Nos. 12	590.00	7,080.00
8	<b>Camera PVC box 5x5 inch waterproof</b>	Nos. 12	354.00	4,248.00
9	<b>Cat 6 Cable Shielded</b> SITC of CAT6 UTP 23AWG Barew Solid Copper Cable, 6.0 mm Diameter, 4 Twisted Pair, PVC * UTP/FTP cable, non plenum slate jacket * 4 pair count length box with information outlet orange for CCTV/ Rack side. Make :- Amp/ Dlink / E Vision	Metre 910	47.20	42,952.00
10	<b>1.5 sq mm 3 Core Power Cable</b>			

*[Handwritten signature]*

	SITC of 1.5 sq mm 3 Core Power Cable Category: Multicore Flexible Cables, Color: Black, Conductor: Copper Core: 3, Type: PVC, Voltage: 1.1 KV Make :- Polycab /Finolex /E Vision		Metre 500		94.40	47,200.00
11	<b>PVC Conduit 25mm with all accessories</b> Supplying and fixing of PVC Conduit * 25 mm sizes of medium class PVC conduit along with accessories in surface/recess & drill & Sedel etc. * including cutting the wall and making good the same in case of recessed conduit as reqd * Make :-AKG/ PLAZA/SATIA/JINDAL/ ISI Mark		Metre 500		47.20	23,600.00
12	<b>Optical Fibre Cable 12 Core Single Mode</b> SITC of Fiber Optics cable (Armoured ) * UTP/FTP cable, non plenum slate jacket * 4 pair count length box with information outlet orange for CCTV/ Rack side. Amp/ Dlink / Digilink/ Digisol/Angel/paramount		Metre 250		150.00	37,500.00
13	<b>Splicing of Optical Cable</b> Splicing of Optical Cable		Each Job 2		5000.00	10,000.00
14	<b>CABLING &amp; INSTALLTION</b> Survey, Layout, Drawing, Installation, Testing & Integrition Commissioning, tagging & training Charges of whole System		Each Job 1		59000.00	59,000.00
15	<b>Trenching - Hard soil / Soft soil</b> Trenching - Hard soil / Soft soil 75 cm depth with refilling		Metre 400		50.00	20,000.00
16	Supply & laying of unarmoured Cat 6 UTP Cables for CCTV's signal/power including cable gland and other required accessories shall be laid in existing conduit/cable tray etc. complete as required in accordance with laid specification or upto the satisfaction of engineer in charge.		Metre 400		55.00	22,000.00
17	Supply and installation of 3 KVA online UPS for minimum 30 minutes backup of approved make.		Nos. 1		52,798.00	52,798.00
<b>Total=</b>						<b>1,501,658.00</b>



## CONSTRUCTION OF NEW STORE BUILDING AT IGM , NOIDA

## FIRE-FIGHTING

Sr. No.	Ref. No.	Description of Items	Qty	Unit	Rate (Rs.)	Amount (Rs.)
<b>WATER SPRINKLER SYSTEM</b>						
<b>Non Schedule Item</b>						
1.0)	R.A-1	Supplying, fixing, testing and commissioning of Local fire authority approved single stage Centrifugal End suction, back pull type Terrace pump with Bronze impellor, SS shaft, mechanical seal coupled with Squirrel cage induction motor for automatic operation suitable for three phase, 415 V, 50 Hz AC supply, T.E.F.C type conforming to IP:55 with flexible coupling and coupling guard with the pump, Common bed plate fabricated from mild steel channel, Suitable cement concrete foundation duly plastered with anti vibration pads along with suitable rating Control panel as per rating of Motor including 4 pole MCCB, automatic star delta starter, Single phase Preventor, overload protection rely, contactors, MCBs, interlocking wiring, ferruling etc complete in all respect. 900 LPM with 35 mtr head	2	Set	93966.00	187932.00
2.0)	R.A-2	Providing, laying, fixing, testing and commissioning of 'C' class heavy duty M.S. pipes conforming to IS 3589 and 1239 including fittings like elbows, tees, flanges, tapers, nuts, bolts and gaskets etc. fixing the pipe on the wall/ceiling with suitable clamps and painting with two or more coats of anti corrosive primer and two coats of synthetic enamel paint of required shade complete as required. 100 mm dia	15	Metre	1370.00	20550.00
3.0)		Supplying, fixing, testing and commissioning of Butterfly valve PN 1.6 with Bronze/Gunmetal seat duly ISI marked complete with Nuts, Bolts, Washers, Gaskets. Conforming to IS 13095, of following sizes as required.				
a)	R.A-3	100 mm dia	2	Nos.	5781.00	11562.00
b)	R.A-4	50 mm dia	2	Nos.	4303.00	8606.00
4.0)	R.A-5	Supplying and fixing ISI marked single headed internal hydrant valve with instantaneous stainless steel of 63 mm dia with cast iron wheel, conforming to type "A" of IS:5290 with blank ABS cap and steel chain etc complete as required.	2	Nos.	9876.00	19752.00
5.0)	R.A-6	Supplying and fixing 63 mm dia, 15 mtr. Long RRL hose pipe with 63 mm dia Male and Female Stainless steel duly binded with copper wire, rivets etc. conforming to IS 636 (type-A) as required.	2	Nos.	5747.00	11494.00
6.0)	R.A-7	Supply & Fixing of Fire Man's Axe with heavy Insulated rubber tested up to 20 KV and conforming to IS :926 as required.	2	Nos.	910.00	1820.00
7.0)	R.A-8	Providing installing and commissioning of first aid hose reel with MS construction spray painted in post office red (swinging type hose reel drum) conforming to IS: 884/1995 with up to date amendments complete with the following as required. 30 Mtr Long 20 mm nominal internal dia as per IS 12585 water hose thermoplastic (Textile reinforced) Type II 20 mm dia Gun Metal Globe Valve and nozzle Drum and bracket for fixing equipments on wall. Connection from riser with 25 mm dia gun metal stop valve and M.S pipe as reqd.	2	Nos.	10102.00	20204.00
8.0)	R.A-9	Supplying and fixing 63 mm dia Stainless steel branch pipe with 20 mm (nominal internal diameter) size Stainless steel nozzle conforming to IS 903, suitable for instantaneous connection to inter-connect hose pipe coupling as required.	2	Nos.	3313.00	6626.00
9.0)	R.A-10	Supplying and fixing of Hose Cabinet of size 2100 mm x 900 mm x 715 mm made of 1.6 mm thick MS sheet with 6 mm thick glazed glass doors including necessary locking arrangement suitable to accommodate Internal hydrant with butterfly valve, 2 Nos 15 Mtr. Long Hose pipe, 1 No. branch pipe, first aid hose reel drum etc. & mounted on wall OR raised brick platform & duly painted with post office red externally and white internally with synthetic enamel paint complete in all respect, for external hydrant, as required.	2	Nos.	14872.00	29744.00
10.0)	R.A-11	Providing & Fixing Pressure switch in the M.S Pipe Line including connection etc. as required.	2	Nos.	3120.00	6240.00
11.0)	R.A-12	Providing, fixing, testing and commissioning 100 mm dia pressure gauge of range 0 -015 Kg / sqcm conforming to IS - 3624 having bourdon tube of stain steel 316 in cast aluminium, stove enamelled, black, weather proof case with outer, screwed aluminium bezel and complete with necessary U-type stainless steel siphon tube and cock complete as required.	2	Nos.	985.00	1970.00
12.0)	R.A-13	Providing and fixing flow switches in 100mm dia M.S Pipe as required.	2	Nos.	2005.00	4010.00

ds

M

13.0)		Providing, laying, testing & commissioning of c class heavy duty MS pipe confirming to IS-1239 /3589 including fitting like elbows, tees, flanges, tapers, nuts, bolts & gaskets etc.Fixing the pipe on the wall/ceiling with suitable clamps and painting with two coats of synthetic enamel paints of required sheds complete as required				
a)	R.A-14	25 mm dia	170	Metre	395.00	67150.00
b)	R.A-15	32 mm dia	25	Metre	495.00	12375.00
c)	R.A-16	40 mm dia	20	Metre	545.00	10900.00
d)	R.A-17	50 mm dia	25	Metre	715.00	17875.00
e)	R.A-18	65 mm dia	25	Metre	885.00	22125.00
f)	R.A-19	80 mm dia	20	Metre	1140.00	22800.00
g)	R.A-20	100 mm dia	20	Metre	1370.00	27400.00
14	R.A-21	Providing Fixing testing & commissioning of Sprinkler glass bulb type (Standard response) as per IS:15106/TAC guidelines 68 degree temperature rating pendent type.	87	Each	315.00	27405.00
15	R.A-22	Providing & fixing flow switches in 100 mm dia M.S. Pipe complete in all respect etc as required.	2	Each	6371.00	12742.00
16	R.A-23	Supplying, fixing, testing commissioning of butterfly valve PN 1.6, with Bronze/ Gunmetal seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, conforming to IS 13095, of following sizes as required. 50mm dia	2	Each	3256.00	6512.00
17	R.A-24	Supplying and fixing air vessel of continuous welded construction fixed at riser top made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia Gun Metal wheel valve, with required accessories, pressure gauge and painting with two coats of Red Oxide and two coat of post office red enamel paint as required.	2	Each	8901.00	17802.00
18	R.A-25	Supply & Fixing ISI marked ( IS : 15683 ) Portable fire Extinguisher, Carbon-dioxide type flat base including valve, discharge hose of not less than 10 mm dia. min. 600 mm long & complete in all respects including initial fill with CO2 gas confirming to IS:307-1966 filled to a filling ratio of not more than 0.667and wall suspension bracket of following capacity. 4.5 Kg. CO2 type Fire Extinguisher	2	Each	9679.00	19358.00
19	R.A-26	Supply & Fixing ISI marked ( IS : 15683 ) Portable Fire Exitnguisher, ABC type,finished externally with red enamel paint, complete in all respects including initial fill and wall suspension of following capacity. 4.0 Kg. ABC type Fire Extinguisher	2	Each	5833.00	11666.00
20	R.A-27	Supply, installation testing and commissioning of conventional type Manual call point complete with Glass, hammer and chain etc. as required.	2	Each	710.00	1420.00
21	R.A-28	Supply, installation testing and commissioning OF Hooter suitable for Conventional type fire alarm system with storb light with minimum 85 db audible etc. as required.	2	Each	770.00	1540.00
22	R.A-29	Supply, installation testing and commissioning of wall / floor type following zone (each zone accessing minimum 20 units (detectors/ devices ) Conventional Type microprocessor based with LCD display main control panel/ floor panel fabricated from 16 SWG CRCA sheet steel sealed maintenance free (SMF) batteries of min2X7AH of 12 V or as required. 2-Zone Fire Alarm Control Panel	2	Each	8801.00	17602.00
23	R.A-30	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. 25mm dia	45	Rm	147.00	6615.00
24	R.A-31	Supplying and Wiring following sizes of FRLS PVC insulated armoured copper conductor, single core cable in the existing surface/recessed steel / PVC conduit as required. Armoured Cable copper conductor size 1.5 x 2 core sqmm	60	Rm	78.00	4680.00
25	R.A-32	Supplying and fixing Exit Signs Board. Size - 6"x12" (Make : Agni)	4	Each	675.00	2700.00
		<b>TOTAL</b>				<b>641177.00</b>

*ds*

*M*

## CONSTRUCTION OF NEW STORE BUILDING AT IGM , NOIDA

## LIFT

S.No.	DESCRIPTION	Qty.	AMOUNT (RS.)	Ref. No.
1	Supply, Installation, Testing & Commissioning of LIFT, 8 passengers lift, speed 1 metre per second, 2 stop ( G+1) complete in all respect.	1 No.	1424420	CPWD PAR 2023 3.1.1
TOTAL =			1424420	

