



सेंट्रल बैंक ऑफ इंडिया
Central Bank of India

CENTRAL TO YOU SINCE 1911

निविदा प्रपत्र

सेंट्रल बैंक ऑफ इंडिया के

मार्केट यार्ड, गुलटेकड़ी, पुणे स्थित प्लॉट क्र 639 से 641 पर प्रस्तावित भवन के
इलैक्ट्रिफिकेशन, एयर कंडिशनिंग और फ़ायर फायटिंग तथा संबन्धित कार्य हेतु

प्रतिष्ठित सेवा प्रदाताओं द्वारा निविदा आवेदन

निविदाकार का नाम : - _____

PRE BID MEETING : 30/05/2024 AT 3.30

निविदा प्रस्तुत करने की अंतिम तिथि: 14/06/2024 दोपहर 03:00 बजे तक

निविदा खोलने की तिथि)केवल प्रि-क्वालीफिकेशन/टेकनिकल निविदा(: 14/06/2024 दोपहर 03:30 बजे

निविदा शुल्क: डिमांड ड्राफ्ट के रूप में `2,000.00 (दो हजार मात्र (अप्रतिदेय)

बयाना जमा राशि: डिमांड ड्राफ्ट के रूप में `23,400.00 (तेईस हजार चारसौ मात्र)

आय ई एम का विवरण:-

1) श्री. त्रिविक्रम नाथ तिवारी

2) श्री. जगदीप नारायण सिंह

ईमेल :- trivikramnt@yahoo.co.in

ईमेल :- jagadipsingh@yahoo.com

सेंट्रल बैंक ऑफ इंडिया,
व्यवसाय सहायता विभाग
पहिली मंजिल आंचलिक कार्यालय
317एम जी मार्ग, कैंप
पुणे 411001
दूरभाष:- 020-26131611-14



सेन्ट्रल बैंक ऑफ़ इंडिया
Central Bank of India

CENTRAL TO YOU SINCE 1911

Tender Document

For

Electrification, Air Conditioning, Fire Fighting and allied works to be carried out at proposed Bank's building at Plot No 639 to 641 at Market yard, Gultekdi, Pune.

Name of the Tenderer: - _____

PRE BID MEETING AT 3.30

Last Date of Submission: 14/06/2024 at 3.00 PM

Date of Opening of Pre-Qualification/Technical bid: 14/06/2024 at 3.30 PM

Tender fee : ` 2,000.00 non-refundable in the form of DD

Earnest Money Deposit: ` 23,400.00 DD in favor of Central Bank of India, Payable at Pune

Details of IEM

1) Shri. Trivikramnath Tiwari
email :- trivikramnt@yahoo.co.in
jagadipsingh@yahoo.com

2) Shri. Jagadip Narayan Singh
email :-

CENTRAL BANK OF INDIA,
General Administration Department,
1st floor, Zonal Office,
317, M G Road, Camp,
Pune 411001
Ph:- 020-26131611-14

Tender Part A
(Prequalification of Contractors)

Central Bank of India intends to undertake Electrification, Air Conditioning, Fire Fighting and allied works at Bank building at plot No. 639,/640/641) Market Yard, Gultekdi, Pune.

- 1.0 Application forms are invited for prequalification of experienced reputed and competent Electrical & HVAC contractors who fulfill the following mandatory conditions :
- 1.1 Joint ventures or consortiums shall not be permitted.
- 1.2 Contractor must have executed work under a single order of value (Electrification not less than Rs. 2.50 crores and A.C.VRF System 70Tons of over 50 Lakhs) during the last three years in Public/Commercial buildings to the satisfaction of the owners and consultant / architect.(Completion Certificate to be attached hereto)
- 1.3 The average annual turn over of the firm for last three years shall not be less than Rs. 5.0 Crores. The Contractor shall be responsible to obtain the Load Sanction from the MSEB as part of this tender while the Bank shall bear cost of the Chalan to be obtained)
- 1.4 Contractors must have previous experience of these Services of 4 storied buildings and he shall hold valid Electrical License from the Electrical Inspector, Govt. of Maharashtra..
- 2.0 Only such Contractor shall apply for prequalification in prescribed format, which can be down loaded from the web site.
- 3.0 The applicant should enclose demand draft (non refundable) for Rs. 2000/- in favor of Central Bank Of India, payable at Pune. MSME exemption shall apply as per rules.
- 4.0 Contractors shall also authorize the Bank / Architect to approach his Employers, Clients, Corporations, Organization, etc. to verify Contractor's general reputation / competence.
- 5.0 The Bank / Architect M/S Pundlik & Pundlik reserve the rights to accept or reject any application without assigning any reason. In case more no. of contractors are found suitable the Bank reserves right to revise the criteria for prequalification.
- 6.0 ***This Completed document in first envelope, marked as Technical Bid ('Part A') shall be opened first and if found acceptable the Second envelope marked as Commercial Bid shall be opened and taken into consideration, by Central Bank of India. the Employers -
Asst. General Manager (BSD, Central Bank of India),Zonal office, M .G .Road,Pune***

:

Part A (Guidelines for prequalification of contractors) for *Electrification , A.C. System and fire fighting works* for the Bank Building at P.No 639+640+641, Market Yard, Munjerl Pune.

1. The Application shall be submitted in sealed envelope super scribing '**A**' *the application for pre-qualification as contractors for Electrification , Air Conditioning & Fire Fighting for Bank building at p.no 639+640+641 Market yard , Pune.*
2. This shall be submitted strictly in the format furnished along with the supporting documents.
3. This shall be signed by the person/s on behalf of the organization having necessary Authority/ Power of Attorney to do so. Each page of the application shall be signed and copy of Power of Attorney/ Memorandum of association (Wherever applicable) shall be furnished along with application.
4. If the space in Proforma is insufficient for furnishing full details, such information may be supplemented on separate sheet stating serial page number. Separate sheets may be used for each part of application. While filling up the application with regard to list of important projects completed or on hand the applicant shall only include major works completed in past 3 years by the firm.
5. The ability and competence of the applicant to render required services within the specified time frame will be a major factor while deciding the acceptance of commercial offer tendered by the Contractor.
6. The applicant should ensure that the offer is delivered at the given address within prescribed date and time as mentioned in the advertisement.
7. Application containing false and / or incomplete information is liable for rejection.
8. The applicant should enclose demand draft (non refundable) for Rs. 2000/- in favor of Central Bank Of India, payable at Pune. MSME exemption shall apply as per rules.
9. Central Bank of India reserves right to accept or reject any or all the tenderers without assigning any reasons whatsoever and decision of the Bank in regard to selection of the Contractors shall be final.
10. The bank reserves the right to amend / revise the eligibility criteria depending upon application received.

To,

Asst. General Manager,
Business Support Department,
Central Bank Of India,
Zonal office ,M .G .Road
Pune-411001

Ref: **Prequalification as contractor for Electrification, Air Conditioning, Fire Fighting and allied works at Bank's building at P.No 639+640+641 Market yard Pune.**

Dear Sir,

I / we have read and understood the instructions and the Terms & Conditions mentioned in the Part A the tender application form. I / we do hereby declare that the information furnished in the application and the supplementary sheets are correct to the best of my knowledge and belief.

I / we authorize Bank / Architect M/s Pundlik & Pundlik to approach our employers, clients, corporation organization etc. to verify the facts submitted by us.

Signature of applicant with seal

Name:

Designation:

Address:

Place

Date:

PART A information to be furnished by the applicants

1. Name of the Organisation

2. Address with telephone no. and e-mail address if any.

Address
Telephone nos.
Fax no.
E-mail ID

3. Year of establishment

4. Status of the firm
(Enclose copy)

Proprietorship / partnership / limited /
trust / any other (please specify)

5. Name of Directors/ Partners/ Proprietor
i)
ii)
iii)

6. Name and address of Bankers

i)

ii)

iii)

iv)

7. Important major projects executed during last three years by the firm together with cost of individual projects and full address of the clients for whom the works have been executed

8. Important major projects on which the firm is engaged at present with their cost the address of clients is given against each project.
 9. Whether an assesses of income tax, if so, mention permanent account number. Furnish copies of Income Tax Clearance Certificate.
 10. Whether registered with Central Excise Department For .G.S.T. Please inform the registration number and date of registration. Those registered with MSME Act shall furnished certificate of registration
 11. Furnish copies of audited Balance Sheet and Profit & loss account (audited) for the last three years.
 12. If you are registered in Panel of other Organisation/ Statutory bodies such CPWD, PWD, MES, Banks, etc, furnish their name, Category and date of registration.
- i)
 - ii)
 - iii)
 - iv)
 - v)

DETAILS OF DIRECTORS / PARTENERS

Sr. no.	Name of partners / directors	Academic qualification	Official designation	Address / phone / fax / e-mail
1.				
2.				
3.				
4.				
5.				
6.				

DETAILS OF REGISTRATION

Sr. no	Name of organisation / department	Registration no.	Date / year of registration	Enclosed proof	
				Yes	No
1.	Registrar of firms and societies				
2.	Income tax department (mention PAN no. with copy of latest income tax clearance certificate)				
3.	Excise department (GST), (Enclose copy of latest clearance certificate / proof of depositing the tax)				
4.	C.Excise. department (Enclose copy of latest GST clearance certificate)				
5.	Details of EPF account and registration				

FINANCIAL STATUS

Sr. no	Financial year	Turnover of the firm (in Rs. lacs	Profit / loss	Enclosed certified copies of audited balance sheets / chartered accountant's certificate.	
				Yes	No
1	2020 – 2021				
2	2021 – 2022				
3	2022 – 2023				

PROFORMA –1
PARTICULARS IN RESPECT OF WORK EXECUTED DURING LAST 3 YEARS

Sr. No	Name of the work/ project executed with address	Short description of work executed	Name and address of owner / consultant	Value of work executed	Stipulated time of completion	Actual time of completion	Date of commencement and completion of the work	Any other relevant information
1								
2								
3								
4								

Signature of the Applicant contractor

Note The contractor shall mention only those works executed during last 3 years which fulfills the eligibility criteria on this page. The list is to be substantiated with the documentary evidence e.g. the work order and completion certificates in absence of which the application is liable to be rejected. (Other works should be mentioned on separate sheet.)

PROFORMA- 2
LIST OF KEY PERSONAL PERMANANTLY EMPLOYED

Sr. no.	Name	Designation	Qualification	Experience	Years with the Firm	Any other information
1						
2						
3						
4						
5						

Signature of the Applicant contractor

PROFORMA –3
PARTICULARS IN RESPECT OF WORK IN HAND

Sr.No	Name of the work/ project executed with address	Short description of work executed	Name and address of owner	Value of work executed	Stipulated time of completion	Status Of Work	Any other relevant information
1							
2							
3							
4							
5							
6							
7							

Signature of the Applicant contractor

2. list of machines and equipments
in possession of the firm

- i)
- ii)
- iii)
- iv)
- v)
- vi)

List of Documents to be enclosed with application form.

1. Status of the Firm / Registration certificate
2. GST registration certificate
3. PPF registration certificate
4. Income tax registration certificate
5. I. Tax clearance certificate.
6. EPF registration certificate
7. Proforma-I
8. Proforma-II
9. Proforma-III
10. Proforma-IV
11. Photograph of major work executed.
12. Completion certificates from clients/architects for jobs of value 4.00 Crores.
13. Solvency certificate from bank
14. Turn over certificate from Chartered Accountant.
15. Three years balance sheet.
16. Financial Standing Certificate from Chartered Accountant
17. Memorandum of association in case of partnership / limited company.
18. Demand draft / pay order of Rs. 2000/- in favor of Central Bank of India payable at Pune.
MSME exemption shall apply as per rules.

The Contractors sign

(Tender for Electrification, Air Conditioning, Fire Fighting and allied works at
Office building @ plot no. 639 to 641 of Marketyard, Pune For Central Bank of India

This is the Schedule 'A' with :-

- Covering Letter
 - Teder Notice
 - Form of Tender
 - Essence of Contract
 - Schedule 'A'
 - List Of Drawings (Annexed)
 - Amendment/ Erratta
 - Letter of Acceptance
 - Addenda
-

14/12-2078
dtd. 22/05/2024

TENDER NOTICE

1. Item rate Tender is invited from experienced Contractors for **Proposed Electrification, Air Conditioning, Fire Fighting and allied works at P.,No. 639 to 641,Market Yard Munjeri , Pune for Central Bank of India** Pune 1..
2. The work is estimated to cost about Rs. **234 Lacs** only.
3. This estimates however not a guarantee is and is given as a guideline and if the cost becomes more or less the tendered will have no claim on that account.
4. Tenders shall be based on the drawings, the specifications attached hereto together with Schedule A (item of work), the Conditions of Contract prepared by the Architect.
5. The work is to be completed within Four calendar months in accordance with the phasing, if any indicated in the Tender from the date of handing over the site.
6. Tender forms and conditions of contract and other necessary documents together with envelop (to be used for submission of the Tender form and other documents) will be issued by The Central Bank of India **after 23 / 5 / 2024 to 13/ 6 / 2024** after payment of Tender money of Rs. 2000 /- per set in the form of demand draft (nonrefundable) in favor of Central Bank Of India, payable at Pune. MSME exemption shall apply as per rules.
Pre bid meeting to be held at our Zonal Office at 317, MG Road Pune on 30/05/2024 at 3.30 PM
7. The following information about Earnest Money and Security Deposit shall be as under:-
 - (I) **Earnest Money Deposit @ 1-%** of our offer by a Demand Draft amount - in view of the Estimated cost involved - in favour of the Employers i.e. sum of **Rs.- 23,400.- (Rupees – Twenty Three Thousand Four hundred only)**
 - (ii) Amount of * **Security Deposit** shall be **1-1/2% of the tendered value** of work. This and the **EMD** shall form part of the Retention Deposit, with the Employers. (* Payable on Acceptance of the Tender) The Contractor may offer Bank Guarantee for (2.5%- valid for Six months, in the format, as required).being part of the Retention Amount.
8. Tenders will be received by, the Employers, Central Bank of India Pune 411001 up to **1500** hours on or before, **14/ 6 / 2024**, in their office together with all accompaniments.

9. This Notice of tender and form of tender including all clauses conditions etc. shall form part of the Contract. Samples of materials to be incorporated in the work by the contractors shall be approved by the Architect/employer in advance

10. The tender shall remain open for a period of **90 days** from the date of receipt of tender by the Employers. The Employers do not bind themselves to accept lowest or any tender and are at liberty to reject any/all the tenders at their entire discretion.

11. In order to clarify on query on any or interpretation or discrepancy occurring in this tender. The Architect may hold a Pre-bid meeting of all tenderer, when they shall remain present. The minutes of this Pre-bid meeting/correspondence if any, shall form part of the tender documents.

EMPLOYER

(Architects)

M/s Pundlik & Pundlik

CONTRACTORS SEAL

Name _____

Address _____

FORM OF TENDER

WORK: Item rate Tender for **Proposed Electrification, Air Conditioning & Fire Fighting work at P.,No. 639 to 641,Market Yard Munjeri , Pune for Central Bank of India , Pune 411001)**

1. I/We, the undersigned having carefully studied and understood the working drawings specifications, and Schedule of Quantities, the Essence of Contract and the Articles of Agreement, special conditions and the general conditions of contract of India Institute of Architects Bombay do hereby tender to execute and perform whole of part of the said work or such additional work as appointed contractor, at such rates as have been tendered by us, in the accompanied schedule. I/We have duly signed the tender papers.
2. I/We submit the tender to The **Central Bank of India** , Pune 1, with an Earnest Money amount @ 1-% i. e. of **Rs 23,400 /-** (***Rupees Twenty Three Thousand Four hundred only***) by a Demand Draft/ Pay order No.....dated.....drawn in favour of the Employers which amount will bear no interest.
3. I/We do hereby further undertake to pay, should this tender be accepted, an additional amount by a Demand Draft / Pay order in the manner stated above, as **Security deposit** (which is equivalent to **1-1/2% of the "Tendered value"**). Should this tender be accepted by the Employers I/we do hereby bind my /ourselves to execute at my/our cost, and sign the said Agreement, as may be required, as such time and place as may be suggested by the Employers/Architects, in default whereof I/we bind myself/ourselves to have the Earnest Money Deposit forfeited.
4. I/We have taken into account the Architect's time frame schedule of the entire project and undertake to complete the work in - **(four)**, months. In the default of which, the appropriate action as per the provisions of the contract may be taken. I/We agree to submit schedule of execution of our work, in advance.

5. I/We agreed to abide by statutory provisions such as GST, Workmen's Compensation Act, Minimum Wages, ESIS etc. and Indemnify the Employers from any claim or loss arising there from during the this work. Rates are quoted to cover all such taxes/liabilities.

6. I/We do hereby agree to execute the work in full coordination with all the contractors, specialist agencies appointed by the Employers during the course of execution of the work.

7. I/We shall submit this tender duly filled and completed as requires and understood that our/my tender may not be considered incase of any discrepancy omission while quoting and shall be rejected without assigning any reason thereof.

8. . I/We undertake to carry out the work with proper coordination with the main contractors for the building being completed and adopting with the sequence of execution of civil work and use all tools/equipment viz. drills/cutters/fasteners/anchors/screws etc. as may be necessary for this work. I/We further agree not to disturb the walls/R.C. members/plaster/door/windows etc. for laying/running/fixing our cables/wiring/piping/panels/switches etc. and in case if so permitted pay for making good the same at our cost.(Architects decision shall be final and binding in this regards). of

9. I/ We am/are willing to undertake and complete the work at Terms and Condition stated herein and shall abide by the same.

Contractor's Signature.....

Name

Reg. Address.....

Date.....

.....

Employers

(For. Central Bank of India Pune 1)

14/12-2078
dtd. 22/05/2024

To,

M/s _____

Sub: **Tender for Proposed Electrification, Air Conditioning & Fire Fighting work at P.,No. 639 to 641,Market Yard Munjeri , Pune for Central Bank of India**

Dear Sirs,

You are informed that, the Tender documents for the subject work shall be issued by Central Bank of India, Zonal Office Pune on payment of Tender fees during working hours (10to17hrs)from 23/05/2024 to 13/06/2024 or same can be downloaded from Bank's website @ www.centralbank.co.in (live tenders) and tender fees shall be submitted along with tender.

Please note that the **Sealed** tenders shall be received by the Asst. General Manager – BSD, Zonal Office, Central Bank of India, Pune by **1500 hours on or by 14/06/2024** and the Tenders (only technical bid) shall be opened on the **same day** at our office @ **15.30 hrs.**

2. Any Tender received later than the due date and time shall not be considered and the following requirements shall be strictly complied with-

a)Tender should be signed and dated at all places provided for in the documents.

(b) Tender should be accompanied by a certified true copy of the Power of Attorney of the signature to the document if not furnished earlier if the tender is from a registered firm it must be signed by either all the partners or persons holding the authority (Power of Attorney) or duly authorized by all partners constituting the firm and such authority or P. A. Shall be duly executed in his favour by such other persons/partners and that he has the authority to bind such partners of the firm in all matter concerning this Contract.

3. Every tender **must be** accompanied by an Earnest *Money Deposit amount* as stipulated. The tender shall be submitted *without any modification of terms and conditions* otherwise the same is liable to be rejected outright. (MSME exemption as per rule shall apply)

4. Articles of Agreement and conditions of Contract (printed form of IIA Bombay) shall form part of the tender documents. This can be perused by the tenderers at the office of the Architects M/s Pundlik & Pundlik, 1304/1/9, Shukrawar Peth, Pune 411002, during their working hours(11 hours to 1800 hours before submission of the tender. The tenderer shall be deemed to have full knowledge thereof whether he inspects these or not. (or the Tenderers are at liberty procure the same directly if they so desire.)

5. The time allowed for completion of work is proper and cannot be extended beyond the stipulated date of Completion.
6. Any tender wherein any modification/alteration in the Item or specifications is proposed or seeks any change in the terms and conditions, is liable to be treated 'as non –bonafied' tender and stands rejected outright.
7. The tenderer is advised to point out discrepancy(s)/omission(s) if any in the tender documents at the time of *pre-bid meeting* for seeking any clarification or corrections in the documents in the event the tenderer fails to bring to notice of the Architect/Employer such discrepancy/omissions before submission of the tender and he shall forfeit his right to make any claim on account of such discrepancy later, Amendment in clarification may be issued in response to such discrepancies/omission in the Pre-bid meeting and which shall be deemed to form part of this tender document.
8. This letter shall form part of the tender document and therefore shall be signed and returned along with the tender document.
9. No ground for escalation of cost of materials shall be considered except as provided in the "Essence of Contract" and Clause 34 of the Articles of Agreement.
It will be presumed that the tenderer has fully understood the terms, conditions situation of construction site and drawings furnished herewith and that he is willing to execute the work accordingly.

Thanking you,

Yours faithfully,

(The Employers)
For Central Bank of India Ltd.

The Essence of Contract

**Work: Electrification, A.C. & Fire Fighting System for Bank Building
at P.No.639 to641 Maarket Yard Pune**

Employers :- The Central Bank of India Pune 1

The Contractors.....M/S.....

*Conditions of Contract as published by the Indian Institute of Architects, Bombay.)
(To be adopted for contract to be executed)*

37(1)	Defects Liability Period	One monsoon or 12 months from date of completion whichever is later. (for Pumps/Compressor (1Yrs) from Virtual Compssioning of entire installation
31(1)	Period of Final Measurement	Two- months after virtual completion of the work.
38(1)	Date of Commencement	(.. / 6 /2024) or such other date.
38 (1)	Date of Completion (from the	Stage I (3 Months/ 12 Weeks)Electrification & A.C.,Fire Protection work.
		Stagell (1 Month) For completion of external cabling/Mains panel/earthing A.C.Plant Installation, testing & obtaining NOC's/permission etc. complete (+grace period of One week making goodDefects/ omissions as reqd. by architect)
(41) *	Agreed Liquidated damage (up to max . 5% of the contract value).	Greater of Rs.11.71 Lakh or 1.00% - of the contract value per week
31(3)	Retention Percentage	7.5% (17.50 Lakh) (including the **EMD & S.D. (** Bank Guarantee may be acceptable) and @ 10% on the Extra Item value, if any.
31(1)	Value of interim certificate.:	Greater of 10% of the contract value or minimum (Rs 23 Lakh)in stages with of work. Max.6Nos of RA bills Allowed.
31(3)	Limit of Retention Fund .	Greater of Rs.11.71 Lakh- or (5%) of actualcost (inclusive of Security Deposit/EMD if any)
31 (6)	Installment after virtual completion. (on pro rata basis for completion of Stage(II) & (III) only if completed on schedule)	50% of Retention Fund (the balance shall be retained till completion of the Defects Liability Period)50% subject to due compliance thereunder
31(1)	Period for honouring the certificate	10 working days from the date of certification for RAR and for Penultimate certificate (4) weeks from the date of certification.
	Interest for delayed payment	NIL.

Note :-

1. The Retention under cl.31 (3) shall be independently calculated @ 10% on the value of authorized Extra Items, if any.

2. The date of completion for each stage of shall be strictly observed. Otherwise recovery of Liquidated Damages on pro-rata basis will be considered at the entire discretion of the Architects/employers. This is an independent of any recovery of financial loss suffered by way of any penalties, claims made by the Government or other agencies on account of such delay in completion (its occupation) of the premises or part thereof, by the Employers.

Contractor.....

Name

Date.....

Employers
The Central Bank of India , Pune 1

(Architects)
M/s Pundlik & Pundlik

The Essence of Contract contd.

Extra Items u/cl. (32) of Contract :-

1. It shall be the contractors responsibility to inform the Architect of any extra item that may be necessary and obtain authorization before proceeding with such work.
2. Any modification made at the request of the Contractors to facilitate execution of any item of work or mode of work shall not be taken as ground for claiming extra.
3. Revision of rate or fresh item rate on account of changes/modifications made by the owners shall be got settled directly prior to execution of the work.
- 4 In the event of contractor fails to comply with these provisions any such item of work or modification shall neither be treated as authorized extra and nor be considered for any additional payment and shall be at the entire discretion of the architects and employers.
5. Every extra item rate must be base (as per Sch. 'L' on correct cost of *material and the normal cost of labour and other overheads profit etc. to be calculated @15% , on the cost of (material and labour). (*as actual quantity measured and accountable as per known norms, practices approved by The Architect.) *including* supervision transport establishment etc. etc.

CERTIFICATES AND PAYMENTS (to be read with Cl.(31)

6. The Architect through the Site Engineer in charge or i. e. the (Clerk of works shall arrange for measurement of work executed jointly with the Contractors and based on which the contractors shall prepare their Bills and submit them to the Architect a week in advance for scrutiny and certification etc.
 - (a) All bills (quadruplicate) shall be accompanied by Measurement Books and Abstract sheets in triplicate; (specimen furnished hereto)
 - (b) Every bills shall enumerate each tender item fully as per the original tender schedule; in same
 - (c) Bills shall include a statement of basic materials consumed No consideration for payment
 - (d) Materials incorporated in the work and the workmanship must conform to the tender requirements Otherwise due action including appropriate reduction of payment shall be made by the Architects.
 - (e) Tendered quantity of items should be indicated in the Bill;
 - (f) On completion of the work Virtual Completion (Penultimate) certificate shall be issued by the Architects on the contractors furnishing in duplicate a consolidated Measurements. Abstract showing final and full measurement of each item included in the RA bills (Interim Bills and Final Abstract)

Material Procurement (to be read with Cl.(36)

7. The materials for the work shall be from approved known source/make and bear ISI mark and according to the specimen approved before hand from the Architect and the Employers.(In case a substandaard material is used it shall be replaced at any stage at the risk of the contractor)

8. No amount will be Advanced for any materials procured for the work and only after execution the Bills raised will be certified for payment after verification of measurements etc.

The **SITE (to be read with Cl.(12)**

9. Diversion and reinstatement of service lines if any likely to be affected by the proposed work shall be done by the contractors as directed by the Architects before commencing the work for which no payment shall be made and which shall be regarded as part of site clearance only.

10. The contractors shall take levels/ measurements Methodically etc. and submit details to Architects as required using proper as may be necessary

11. On Completion of All the work, the contractors shall clear the entire site remove all debris unwanted materials, etc. protect the work done /installation till the possession is assumed by the Employers.

CO-ORDINATION (to be read with Cl.(50)

12. In the event, other Agencies are appointed by the Employers to carry out work such as civil work & Plumbing, Drainage, Interior Decoration etc Air-conditioning, gantry cranes etc., the principal contractors shall extend reasonable facilities (other than materials and also co-ordinate civil work of the special agencies or (nominated Sub-Contractors) as required by the Architects. Due time shall also be provided for such operation For the nominated sub-contractors while programming the civil work as well as its execution.

PROGRAMME (to be read with Cl.(14)

13. The contractor shall prepare program on a bar chart basis covering major items of work and on approval of the same the execution of work

shall be in conformity with the approved program. This program shall be practical and commensurate with the time for completion and the stage as shown under Clause38 (1) hereabove, i. e.,

All the work tendered herein shall be carried out in tandem and floor to floor besides external cabling,earthing, Main Panel and necessary MSEB clearance shall be obtained simaltenously to obtain power supply etc.The chalans towards charges for power supply/3 phase L.T. meter shall be obtained from MSEB and paid by the Bank Tender rates will cover this and incidental expenses as well.

FLUCTUATIONS (Amendments to Cl. 34 of the Articles of Agreement)

14. Claim for any extra or escalation on account of fluctuation of price of material shall not be advanced and the contract item rate quoted by the contractor in the sch. of quantities *shall not be subject to any rise or fall in prices during the contract period unless where such increases are caused only due to Governmental legislation* substantially the market rate of building material which are required for incorporating in the tendered work.

15. In the event there is a radical change after Agreement in GST & other duties or increase in the cost of diesel affecting the prices of materials the contractor may forthwith submit his claim properly substantiated for consideration of the Architects. However such increase or compensation therefore shall be applicable only for the remaining items of work from the effective data of legislation. Further, delay in completion of work by the contractor at any of the appropriate stage compensation on account of such increase in tax structures/Govt. legislation etc. cannot be considered for the delayed execution and commensurate value of work and this shall be at the sole discretion of the Architects. Please refer to the Amendments to the Clause 34 of General conditions of Contract and Articles of Agreement of Indian Institute of Architects, Bombay forming part of this agreement.

EMPLOYERS

Central Bank of India Pune 1.

ARCHITECT**M/s Pundlik and Pundlik****CONTRACTORS SEAL**

NAME _____

ADDRESS _____

Section (A/B/C)

Schedule 'A'

Electrification / Air Conditioning / Fire Fighting work for proposed building at P.no 639 to 641 Market Yard , Pune.

Employer: The Central Bank of India

Notes:-

1. To be read with layout / diagrams for Electrification and Air Conditioning with schedule of rates.
2. The tenderer quoting for the work shall be understood, to have inspected the site before quoting the rate.
3. Tenderer shall ensure the adequacy of their offer. The material and component freshly procured with ISI mark ,date of manufacture, etc. Furthermore as stipulated prequalification, he shall be responsible for obtaining load sanction from the MSEB for the proposed bank.
4. The rate offered shall cater to taxes, transportation cost, fittings and fixtures, insulation material, incidental wastage, etc. all conforming to the best practices.
5. The tenderer shall execute the job on schedule in sequence necessary to permit simultaneous execution of civil/interior work and he shall provide for core cutting and or making good of the area as directed at his own cost.
6. I/We have read and understood the tender together with basic design/diagram and understand to complete the same in all respects including testing of installation for satisfactory performance. If necessary he shall effect correction / replacement of defective component at his own cost.
7. Should the offer be accepted, the tenderer shall, after receiving letter of acceptance, proceed with procurement of men and material and commence the work within a week thereafter.
8. The successful bidder shall furnish stamp paper for execution of formal contract as required by the Architect.
9. The contractor shall ensure safety of his workmen during execution and provide them with the safety gear and tool / equipment routinely required, and he shall also obtain an insurance policy valid for the duration of the work or unit its completion.

10. The contractor shall bear the cost of power consumed for his work as required by the owner and he shall ensure that no damage is caused to the work executed by other contractors engaged for the work. Or otherwise bear all the consequences determined by the Architect.(Architects decision shall be final conclusive and binding in any event)

11.a) Providing & installation of an A.C. for power-saving city multi VRF system with green gas by Mitsubishi or similar well known manufacturer system for the building.

11.b) The system should have necessary IDU's & ODU's. The Out-Door Unit shall be complete with scroll compressor, microprocessor/micro control panel. The system should have necessary combinations of IDU's & ODU's with required interconnecting refrigerant piping and cabling complete.

11.c) The rates offered shall cover the all requirement of piping ,cabling, ducting, including insulation, for the satisfactory performance of the AC system. This should be Covering all the incidental weather particularly stated in the tender or otherwise.

I/We have read and understand the terms and conditions set here above and abide to perform accordingly.

Employers

Central Bank of India,Pune

Contractors Seal

NAME M/S_____

ADDRESS_____

M/S Pundlik & Pundlik

Architects & Valuers

Schedule 'A'

Electrification / Air Conditioning / Fire Fighting work for proposed building at P.no 639 to 641 Market Yard , Pune.

Owner: The Central Bank of India.

For Brevity the description of item given may be understood as under :-

S & F	Supply & fixing
S & I	Supply & Installation
S & M	Supply and Making
S & L	Supply and laying
S.I.T & C	Supplying, Installation, Testing & Commissioning
S & E	Supplying and Erecting
S.E.T & C	Supplying, Erecting, Testing and Commissioning
S.E.T	Supplying, Erecting, Testing

- 1) The item tendered also includes for testing its proper operation / function.
- 2) No Structural work e.g. Columns / Beams / Walls etc. Shall be chiseled without Architects written permission otherwise for breach Penalty of Rs. 25000/- shall be Deducted .
- 3) Specimen of all material to be used shall be got approved beforehand from the Architect.
- 4) no changes shall be made without prior approval by Architect.
- 5) The Contractor shall complete the work at the tenderd rate including testing commissioning etc. after obtaining Load Sanction/ Clearances/ NOC's concurred with authorities (e.g. MSEB Fire Fighting dept. etc.) For the installation system carried out under this tender, the employer will liable to bear charges of the chalans obtained from the authorized authorities, while cost of Liaoning and incidents will be provided by the contractor in his rates tendered by him.

Schedule 'A'

Electrification work for proposed building at P.no 639 to 641 Market Yard , Pune.**Employer:** The Central Bank of India.

LIST OF APPROVED MAKES : ELECTRICAL WORKS		
S. No	Material	Manufacturers
1	Moulded Case Circuit Breakers	Legrand, Schneider, Siemens, L & T
2	Air Circuit Breaker	Legrand, Schneider, Siemens, L & T
3	Change Over Switch/ATS	SOCOMEK, L&T, Siemens
4	Contactors	Schneider Electric, L&T, SIEMENS
5	Voltmeter & Ammeter Digital Multifunction Meters	ABB, L&T, Schneider Electric
6	Current Transformer	BCH, C&S, Crompton Greaves
7	Indication Lamp/Push button	ABB, L&T, Schneider Electric
8	Connectors terminal Block	Elmex, Lupco, Phoenix,
9	Protection relays	L&T, GE, Schneider Electric
10	Cable thimbles and glands (Flange type Brass Gland)	Trinity Touch, Comet, Gripwell
11	Cable thimbles / lugs	Trinity Touch, Lotus, Comet
12	Capacitors with relay	Neptune, Epcos, L&T
13	Batteries	Voltstat, Amara Raja, Standard Furukawa
14	Sealed Maintenance free Battery	Standard, Amco, Exide
15	Distribution Boards	Schneider, Legrand, Siemens
16	MCB/ RCCB/ RCBO	Schneider, Legrand, Siemens
17	PVC insulated copper conductor Single Core Stranded Wires of 1100 Volt grade	Havells, Finolex, Polycab
18	XLPE insulated PVC sheathed armored cables of 1.1kv grade as per IS 7098 Part-I & II 1988/1985.	Havells, Finolex, Polycab
19	Modular type Switches, Socket etc. (ISI marked)	Legrand, Siemens, Havells, Roma
20	LT Panel, Air conditioning Panel	SPC Electrotech Pvt. Ltd, Mitsubishi, Siemens.
21	Fire Fighting Panels, Water supply Panels, Main & Sub Distribution Boards, Feeder Pillers And Meter Boards	Schneider, ABB, GE.
22	MS Conduit (ISI marked)	BEC, M-Kay, AKG
23	PVC Conduit (ISI marked)	BEC, PolyCab, AKG, Precision
24	Conduit accessories (ISI marked)	Trinity Touch, M-Kay, Rama, Precision
25	Flexible conduit	Trinity Touch
26	Industrial type sockets	ABB, Crompton, BCH
27	Exhaust Fan/ Ceiling fans	Crompton Greaves, USHA, Orient
28	Light Fixtures	Wipro, Phillips, Crompton

29	Lamps/Tube Rods	Wipro, Phillips, Crompton
30	Tel.tag Block	Krone, Pouvet, Action
31	Addressable fire Control Panel, Address Monitor modules, control relay modules etc. Addressable Detectors, Hooters, Response Indicators, Manual Call Bell point etc.	Honeywell, Notifier, Gamewell-FCI,
32	Complete Public address system	VARYODYN, Jamo, Notifier
33	Monitors	Honeywell, Pelco, LG
34	Computer	HP, DELL, IBM
35	LAN cable and data outlets, Information outlets, Patch panels, Patch cords, Cabinets and Racks	Beldon, Panduit, Legrand
36	Telephone Wire	Delton, Skyline, Havells
37	G. I. Raceway	LeGrand, MK, OBO
38	Cable Trays	Aaditya Steel, Slotco, OBO
39	Lightning arrestor	Alltec, Trinity Touch
40	Maintenance free earthing	Alltec, Trinity Touch
41	Nurses call bell system	GE, Honeywell, Ackermann
42	Access Control system	ESSL, Hikvision, Mantra
43	Video Management Server (VMS), Network Video Recorder (NVR) & Accessories	American Dynamics, GE, Qognify
44	Power Supply	Protect, Semec, Equivalent ISI Mark
45	Auditorium stage lighting	Cannera, martin, Gdox
46	Camera /Lances	Bosch, Vivotek, Sony,
47	DLP Video wall (Surveillance Room)	Barco, Delta, Mitsubishi
48	Cat-UTP Cable	AMP, Avaya-Systemax, Beldon
49	Single Cables/Control/ Power Cables	Belden, Comscope- USA, Volex
50	Personal Computer	HP, DELL, Wipro
51	Network Switch (L2/L3)	Cisco, HP, Fortinet
52	EPABX System	AVAYA, SIEMENS, PANASONIC,
53	Complete UPS with associates system	Delta, EATON Power ware, SIEMENS
54	Projector	Vivitek, Panasonic, Sony
56	Patch Panel	Extron, Kramer, Analog
57	Switching	Karmer, Lighware, Extron
58	Rising mains, Tip-offs, feed units and Bus ducts	Schneider, Siemens, Legrand
60	HDPE Pipe	Ganpati Environ, Gyatri Polymers, Narmada pipes
61	Digital Phones	Avaya, Cisco, Unify
62	Analog Phones (Non-Display Phones)	Beetel, Protel, Panasonic
63	Main Distribution Frame (MDF)	Krone, Legrand, D Link
64	Rack	APW, Comrack, Rittal
65	Call Billing Software	Telesoft, Cube, Alliance
66	Protection Module	Krone, Legrand, D Link, Tyco
67	Access control system Approved Make List	ESSL, Hikvision, Mantra

68	Lift / Elevators	Otis, Schindler, Kone
69	DG Sets	Cummins, Perkins by Sterling Generator, Caterpillar.
70	HT Transformer	Schnieder Electric, Cropmton Greaves, Kirloskar
71	LT Panels	L&T, Siemens, Schneider
72	Active LED video Wall	Christie, Delta, Mitsubishi
73	Sound / speaker / PA system	Bose, Harman, L-acoustics,
74	Firewall	Sophos, Fortinet, juniper, checkpoint
75	Enterprise Grade Core switch	Ruckus, Cisco, juniper, Arista
76	Enterprise Grade Access switch	Ruckus, Cisco, juniper, Arista
77	Switch sfp modules	Ruckus, Cisco, juniper, Arista
78	Wireless controller (virtual with hardware)	Ruckus, Cisco, juniper, Arista
79	Wireless access points	Ruckus, Cisco, juniper, Arista
Note	<p>If the makes given in the list are not available, other equivalent makes can be considered subject to approval by the Architect based on credentials of the company and test certificates of the product, subject to price adjustment.</p> <p>Wherever makes have not been specified for certain items, the same shall be as per BIS and as per approval of Architect</p>	

LIST OF APPROVED MAKES: HVAC WORKS

S.No	Material	Manufacturers
<u>1</u>	<u>Air-conditioning Machines:</u>	
2	Air-cooled VRV / VRF System	Blue Star, Daikin , Mitsubishi ,
<u>3</u>	<u>Ventilation and Exhaust Equipment:</u>	
4	Air Handling Units	Zeco, JPC Air, VTS / Edgetech / Systemair
5	Inline Ductable Fans	Kruger, Nicotra, Systemair, Maico , Ostberg
6	Ductable Extract Fans -Tube Axial	Kruger, Nicotra, Systemair, Maico
7	Cabinet Fans	Kruger, Nicotra, Systemair, Maico, Ostberg
<u>8</u>	<u>Air Distribution:</u>	
9	GS sheets - LFQ as per IS 277 Class VII-120 GSM	Jindal, SAIL, TATA,
10	Prefabricated GS Ducts as per IS-655	Zeco, ASAWA , or equivalent
11	Spiral Ducting	GP Spiro, ATCO, Western,
12	Insulated flexible ducts	Caryaire, ATCO, K-flex, Aero flex, UP twiga
13	GS Volume Control Dampers, Motorised Dampers, Back draft Dampers / Pressure relief dampers	Systemair, Cosmos, Caryaire, Airproducts, Ruskin Titus
14	Fire and Smoke Dampers	Systemair, Cosmos, Caryaire, Airproducts, Ruskin Titus
15	Al. Louvers	Systemair, Cosmos, Caryaire, Airproducts, Ruskin Titus

16	Aluminium Box Type Dampers	Systemair, Cosmos, Caryaire, Airproducts, Ruskin Titus
17	Circular GI Spigots with damper & locking arrangement	Sagar Aircon, George-Rao
18	Square Diffusers	Systemair, Cosmos, Caryaire, Airproducts, Ruskin Titus
19	Linear Grilles, Curved Grilles	Systemair, Cosmos, Caryaire, Airproducts, Ruskin Titus
20	Exhaust Disc Valves and Door Transfer Grille	Systemair, Cosmos, Caryaire, Airproducts, Ruskin Titus
21	Damper Actuated Motors with Control Panel	Belimo, Joventa
22	Air Filters	Dyna filters, Ucco-Mech, Airtech, OEM choice
23	Air Volume Regulator	Aldes-Euro register, Trox
24	<u>Refrigerant Piping:</u>	
25	Copper pipes & Fittings	Nippon, Mandev, Nissan, MaxFlow, Rajco, Indigo, Hari-Om
26	<u>Insulation:</u>	
27	Glass wool (Fibre Glass)	UP Twiga, Kimmco, Owens-Corning
28	Nitrile Foam (Closed Cell), EPDM (Closed Cell) for ducting & piping insulation	Aeroflex, K-Flex, Armacell, HEERA
29	Tarfelt/ CPRX Compound	Shalimar, Shalicoat
30	2hr fire rated wrap insulation	3M, Promat, Firewarp (Unifrax)
31	Adhesive for Closed Cell / EPDM	Pidilite / Proprietary as per Insulation Mfg
32	<u>Miscellaneous:</u>	
33	Vibration Isolators/Cushy Foot Mounts	Dunlop, Resistoflex
34	CPVC Piping	Astral, Ashirwad, Prince, Jain Pipes, Tru-Flo (Hindware)
35	Anchor Fasteners	Shakti, Hilti, Fischer
36	Hard PVC Drain Pipes	Finolex, Prince, Astral,
37	Cables	Finolex, Polycab, KEI
38	Cassette AC	Bluestar Daikin, LG, Carrier
<u>LIST OF APPROVED MAKES: FIRE FIGHTING WORKS</u>		
S.No	Material	Manufacturers
1	G. I. / M. S. Heavy class pipe	Jindal-Hissar, Tata, Prakash -Surya,
2	Gate Air Valve	Leader, Zoloto, Castle
3	Butterfly valves	Audco, KSB, Castle
4	Portable Fire Extinguisher	Minimax, Safex, Ceasefire
5	First aid Fire hose reels	Minimax, Safex, Ceasefire
6	Fire hose pipes	Minimax, Safex, Ceasefire,
7	Fire Hydrant valves	Minimax, Safex, Ceasefire
8	Sprinkler Heads	
a	Pendent type	Tyco, Viking, HD
b	Side wall type	Tyco, Viking, HD

c	Sprinkler Side Wall extended through	Tyco, Viking, HD
9	Sluice and non return/ check valve foot valve strainer	Kirloskar, I.V.C., Kilburn
10	Thermoplastic fire hose pipe	Minimax, Safex, Newage
11	Rubber hose 12/20mm dia	Dunlop, Good year, Jyoti Eversafe
12	Reinforced rubber lined/canvas	Newage, Jayshree, Eversafe, Indian Rayon
13	Standby battery lead acid	Exide, Standard, Amco
14	Horizontal centrifugal/Fire pumps	Kirloskar, Mather & Platt (Wilo) GRUNDFOS,
15	Diesel engine	Kirloskar Cummins, Ashok Leyland
16	Electric motors	Kirloskar, GEC, Siemens
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 /CPWD
20	Suction strainer	Leader, ZOLOTO, Castle
21	Vibration eliminator connectors	Resistoflex, Kanwal, D.wren
22	Single phase preventor	L & T, GEC, SIEMENS
23	G.I. Fittings	Unik, K.S., Zoloto, R
24	Yard Hydrant Stand Post, 4 way suction	Eversafe, Minimax, Newage
25	DI pipes	Jindal, TATA, Electrosteel
26	Pipe coat material (Pipe protection)	Pypkote Integrated water proofing Co. Madras / Coaltek Rustech products (P) Ltd. Syndcate Enclave
27	Fire Man's Axe	Safeguard/ Safex/ Newage
28	Pressure guage	IS:C3624 (cl-I) H.GURU/ Fiebig / BRC
29	Flow switch	Potter / Safex system sensor / Jhonson control
30	Pressure switch	Indfoss / switzer

Note : Wherever makes have not been specified for certain items, the same shall be as per BIS and as per approval of Architect.

Section (A)

Schedule of Rates

Electrification work for proposed building at P.no 639 to 641 Market Yard Pune.**Employer:** The Central Bank of India

Note- Refer to notes to schedule (A/B/C) Specification & the Tender

Sr. no.	Description	Quantity	Per	Rate (Rs.)	Amount (Rs.)
I	Internal Work				
1)	S & M point wiring work using 2 x 1.5sqmm copper FRLS ISI make (approved by Architect) wire through concealed pvc ISI 25mm HMS *conduits with deep junction box and fan box with 10mm thick fan hook ceiling/wall mounted point with holder / ceiling rose with recessed concealed modular cover plate of white/colour as reqd. complete testing with modular switch.* conduits laid in concrete.Refer Indicator diagram. Legrand /Anchor Roma/ CPL or similar with modular switch board as required for accommodating reqd. number.(IS:3854-1966)				
a)	One light control by 6A switch	92	nos.		
b)	Two light control by 6A switch	48	nos.		
c)	3/4 light control by 6A switch	37	nos.		
d)	Two light control by 6A Two way switch	12	nos.		
e)	One fan point with switch & Regulator	50	nos.		
f)	One bell point control by bell switch & switch	2	nos.		
2)	S & M 6A plug point wiring work using 3 x 1.5sqmm copper FRLS wire through concealed pvc HMS conduit with 6A modular switch & plate concealed box with inter connection complete Incl. testing. all switches has White coloured of Legrand /Anchor Roma/ CPL or similar with modular switch board as required for accommodating reqd. number.(IS:1293-1967)				
a)	One 6A P.Pt. control by 6A switch	116	nos.		
b)	Two 6A P.Pt. control by 2nos. 6A switch	72	nos.		
c)	Three 6A P.Pt. control by 3nos. 6A switch	72	nos.		
d)	Three 6A P.Pt. control by 16A switch	48	nos.		
e)	One 6A broken P.Pt. control by 6A switch	7	nos.		
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- 3) S & M of 16A plug point work using 2
 ×25sqmm+1×1.5sqmm green earthing FRLS wire through
 25mm pvc ISI HMS concealed conduit more than 4mtr
 length will be charged extra as per site requirement with 16A
 plug and 16A switch modular type with concealed box
 complete with testing.
 all switches has White coloured of **Legrand /Anchor Roma/
 CPL or similar** with modular switch board as required for
 accommodating reqd. number.(IS:1293-1967)
- | | | |
|---|------|------|
| a) One 16A Plug control by 16A switch | 36 | nos. |
| b) Two 16A Plug control by 2nos. 16A switch | 60 | nos. |
| c) One 16A broken Plug point control by 16A switch | 12 | nos. |
| 4) S & M 20A split AC portt work using
2x4.0sqmm+1x1.5sqmm green FRLS copper wire through
25mm pvc conseled conduit from MCB DB to point more
than 4meter length will be charged extra as per site
requirement with 20A power plug broken plug point / control
by MCB DB 25A SP. Complete incl. testing. | 36 | nos. |
| 5) S & L of mains from MCB DB to switch board, A/C, power
points 6A plug point for raw ke UPS power also | | |
| a) 4x10sqmm copper mudity strand wire with 2 4mm green
copper through existing 25mm conduits form main panel to
branch MCB panel with both end termination. | 72 | mtr. |
| b) 2x 10sqmm copper wire through existing conduits for UPS
incomming and outgoing panel to UPS DP switch and UPS
MCB DB | 48 | mtr. |
| c) 2x 10sqmm copper wire through existing conduits for UPS
incomming and outgoing panel to UPS DP switch and UPS
MCB DB | 0 | mtr. |
| d) 2x 4.0sqmm copper wire with 1x1.5sqmm green earthing
wire through existing conduits from power A/C MCB DB to
point of supply | 1020 | mtr. |
| e) 2x 2.5sqmm copper wire through existing conduits for UPS
point, raw plug point, lighting switch board | 1380 | mtr. |
| f) 5x 1.5sqmm copper wire through exsisting
conduits for board to board/lopping mains tolconnection. | 1800 | mtr. |

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|------|---|-----|------|
| g) | 4×2.5sqmm copper wire through existing conduits for peripheral lighting | 660 | mtr. |
|
 | | | |
| 6) | S & L of floor power distribution panel using 2mm thick CRCA sheet duly powder coated by seven tank process, wall mounted compartmentwise front operated with copper busbar and hardware. | | |
| | Incommer | | |
| i | 100A/35KA 3 Pole MCCB thermomagnetic release MSEDG & DG'set-2nos | | |
| ii | RYBN 150A copper busbar-2set. | | |
| iii | RYB LED indicating lamp with wiring -3set. | | |
| iv | 100A On load chageover switch-Inos | | |
| v | 0 to 100A VIF mainly from meter+1nos | | |
| | Outgoing | | |
| i | 63A 3 Pole 10KA MCB-Inos | | |
| ii | 40A 3 Pole 10KA MCB-1nos | | |
| iii | 25A 3 Pole 10KA MCB-Inos. | | |
| iv | 40A DP 10KA MCB-Inos. | | |
| | Complete above with 16sqmm, 10sqmm, sqmm 4sqmm, looping power wiring / control wiring with both end copper lugs and hardware. Complete with testing and site installation | 4 | nos. |
|
 | | | |
| 6A | S & I of MCB DB 6Way TPN double door IP 43 metal door with 25A 4 pole MCB Jincommer with 3nos 25A DF RCBO 10KA outgoing 6A SP MCB 12nos. With internal wiring complete for floor lighting distribution | 9 | nos. |
|
 | | | |
| 6B | S & I of MCB DB 6Way TPN double door IP 43 metal door with 63A 4 pole MCB) incommer with 3nos 63A DP RCBO 10KA outgoing 20A SP MCB 12nos. With internal wiring complete for floor AC point distribution. | 9 | nos. |
|
 | | | |
| 6C | S & I of MCB DB 12Way SPN double door IP 43 metal door with 40A DP MCB as incommer and 10A SP MCB 8nos outgoing with. internal wiring complete for UPS outgoing DB | 4 | nos. |
|
 | | | |
| 6D | S & F of 40A DP MCB with enclosure as UPS incomming supply. | 7 | nos. |

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6E	S & F of 25A 4 Pole MCB with enclosure for outside lighting.	7	nos.
6F	S & I of 40A 4 Pole MCB 40A 4 Pole RCBO with 12Way SPN DB box for lift machine room incoming 3phase supply as per lift requirement.	7	set.
6F1	S & I of 25A DP MCB 20A DP RCBO with 4Way SPN DB box for lift car, Lift duct lighting work	7	set.
6F2	S & F of 6A plug & 6A 2nos switch with 10W CFL bulkhead fitting mounted on top sunmica board for floor landing level board as lift requirement	21	nos.
7)	S & F of 6A plug & 6A 2nos switch with 10W CFL bulkhead fitting mounted on top sunmica board for floor landing level board as lift requirement		
	Incommer		
i	350A 50KA 3 Pole MCCB thermomagnetic release for MSEDCO & DG set with bus link-2nos:		
ii	400A/4 Pole on load Havells make changeover switch with bus links. - Inos.		
iii	Multy function VIF meter with CT's and control wiring - 2set.		
iv	RYB Led indicator lamp with control MCB and wiring MSEDCO & DG and load on 400A RYBN busbar-3nos.		
	Outgoing		
i	125A 35KA 3 Pole MCCB - 4nos		
ii	1000A 25KA 3 Pole MCCB-Inos.		
iii	40A 4 Pole MCB 10KA-Inos.		
iv	25A DP MCB 10KA-4nos. Complete with interconnection using copper multy strand wire with both end lugs, hardware.	4	nos.
8)	S & L of 1.1KV.grand ISI make Aluminium Armoured cable from main panel to floor distribution panel and others Clamped on wall.		
a)	240sqmm x 3.5core Alu.,Arm, Cable from DTC to main panel through RCC humepipe incl. excavation / backfilling.	144	mtr.

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b)	Do-but for 35sqmm x 3.5core Alu. Arm.,Cable for FDB '-do-	95	mtr.
c)	Do-but for 6sqmm x 4core Cu,Arm,Cable for Lift '-do-	120	mtr.
d)	Do-but for 4sqmm x 4core Cu Arm. Cable for Waterpump '-do-	360	mtr.
e)	Do-but for 2.5sqmm x 4core Cu..Arm.,Cable for Lighting '-do-	540	mtr.
f)	Do-but for 02.5sqmmx3core Cu Arm Cable foe Lift '-do-	420	mtr.
9)	Labour for Lt fittings & Fixtures, Fan etc. (Essential) Internal and External location. Incidental work as required complete.		
a)	-do for- 1x36WT tube fitting.	72	nos.
b)	-do for- 1200mm sweep ceiling fan	60	nos.
c)	-do for- 1 x bulkhead for surface mounted fitting in passage staircase, bathroom etc	36	nos.
d)	-do for- 2 x 56W CFL IP54 surface mounted fitting training hall, library, canteen, class roomy banking hall currency chest de others.	120	nos.
e)	-do for- gate light 1x 80W HPMV lamp fitting/35W LED gate light		nos.
f)	-do for- 200mmw fresh air exhauste fan for gents de ladies toilet block	36	nos.
g)	-do for- 300mm heavy duty exhauste Fan.	12	nos.
10)	S & F of bracket hanger rods using for cable work ladder type pre-galvanized tray floor to floor tray work.	1140	kg.
11)	S & M earthing job as per 15 3043 using pipe in pipe type earthing 60mm GI pipe with 40 x emm GI strip for system body earthing incl. excavation / backfilling.		
11A	S & F of 40 x 5mm GI strip form pit to pit of supply bus near panel '-rest as above-	780	mtr.
12)	S & M earthing job as per IS 3043 50mm copper pipe in pipe channel. earthing for_ UPS and DG set & neutral earthing incl. excavation / backfilling.	12	nos.
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12A	S & F of 20 x 3mm copper strip from pit to point of supply at panel/ UPS '-rest as above-	120	mtr.		
12B	S & F of 2x10sqmm copper green earthing wire through 20mm HMS pre conduits	180	mtr.		
13)	P & Installing D.G. Set of 50 KV capacity from Cummins / KOEL / Crompton as approved by Bank			Provisional sum	3Lakh

III Extra Low Voltage Systems

1	S & L & T , commissioning & termination of Cat 6, 4 Pair UTP cable for Data points in existing raceways or in pre laid FRPVC blank conduits including both side crimping & end termination. Make- AMP/D-LINK	1620	mtr.		
2	RJ 45 I/O socket (for data and telephone) with face plate & Modular box at one place. Make- AMP/SCHNEIDER/DLINK	43	nos.		
3	S & F & T and commissioning of HDMI CABLES 20 MTRS. LONG	4	Sets		
4	S & I & T and Commisioning of RG 6 TV Point	7	nos.		
5	S & I & T and Commisioning of RJ 11 Telephone Point	16	nos.		
6	S & I & T and Commisioning of RG - 6 TV Cable	211	mtr.		
7	S & I & L of 3 Pair 0.5 Sq.mm Cu Wire in Couduit	432	mtr.		
8	S & I of MMS 25 mm dia, 2 mm thick FRMS PVC Conduit of following sizes including all accessories e.g. deep junction box, bends etc. for concealing in slab / wall & spacer saddles for open on slab / wall. Colour - Grey	816	mtr.		
9	Network Certification. (Scanning and Certification) (50 points)	4	job.		

IV Cable Trays, Raceways & Fabrication

- 1 S & I of prefabricated pre galvanised cable trays of minimum 2mm thick as per details given below.
Prefabricated, bends and couplers with G.I. Nuts and bolts.
Gas cutting of cable trays at site is not permitted. If any welding is to be done on cable trays, the welded part shall be touched up with anti-corrosive primer and silver paint.
The running rate shall include bends and couplers.

 Page Total C/FD

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1A	50 X 50 mm GI perforated cable tray	263	mtr.
1B	100 X 50 mm GI perforated cable tray	128	mtr.
1C	150 X 50 mm GI perforated cable tray	64	mtr.
1D	50 x 15 mm GI tray cover	83	mtr.
1E	100 x 15 mm GI tray cover	64	mtr.
1F	150 x 15 mm GI tray cover	52	mtr.

- 2** S & L of AL. extruded raceways of various sizes as detailed below including Cutting / chasing of floor and remaking of floor with proper finishing for Power & Data cables for work stations.

2A	50 X 38 mm	119	mtr.
2B	100 X 38 mm	83	mtr.
2C	150 X 38 mm	76	mtr.

- 3** S & I, testing and commissioning of G.I. readymade type - JUNCTION BOX - 2 MM THICK

3A	75 x75 x 65 mm	52	nos.
3B	150 x 150 x 65 mm	49	nos.
3C	225 x 225 x 65 mm	47	nos.

- 4** Supply, transport, unloading, shifting & Fabrication of steel sections and erection of MS base frames, MS angle channels, flat, MS C-Channel, MS Z-Channel etc for supporting various items of equipment such as various panels/local machine switches / proper cable laying in trenches / addition support for proper cable termination/ MS Fabricated cable trays/ junction boxes/ light fittings, DB etc. The scope include welding, bolting, chipping , grouting etc.
The all MS steel assembly should be fabricated in the contractors shop and then HOT- Dip galvanisation of total assembly shall be done. Rate shall include total process of Galvanization and all allied costs.
The scope is inclusive of minor civil work as required, supply of GI hardware materials, consumables, tools & tackles and necessary labour.

860 kg.

Page Total C/FD

Page Total B/FD

V Supply of Ups

1 S & I , testing & commissioning of UPS having 2 hours. battery back up with 3ph Input & 3 Ph. Output with maintenance free acid maintained battery complete with interconnections Cu Battery cables , Battery breakers. The scope shall include terminals & busbar shrouding for Battery terminals & connections.

1D 1No. X 10 KVA UPS arrangement as per given specifications and details complete job. (for computers) 4 Location

Total of (I,III,IV,V) C/FD To Summary.....

Total in words.....

Note-

- 1) Subject to the GST.
- 2) To be read with DWG's and here by.

Contractors

Section (B)

Schedule of Rates

Air Conditioning work for proposed building at P.no 639 to 641 Market Yard Pune.**Employer:**The Central Bank of India

Note- 1. Refer to notes to schedule (A/B/C) Specification & the Tender

2. A.C system with Mitsubishi/O General/Hitachi or similar .

Sr. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
------------	-------------	------	------	---------------	-----------------

Equipment for VRF System - Part 'A'**VRF Out door units**

- 1) The VRF Condensing Units of following actual capacities for Pune
The Supply of ***Mitsubishi/ O General/ Hitachi or similar*** Electric make CITY MULTI-VRF units complete with fully Inverter driven scroll compressor, air cooled condenser with Inverter driven variable speed fan motor having interconnected control wiring and refrigerant piping housed in compact housing duly powder coated body.

20 HP ODU top discharge	3	Nos
-------------------------	---	-----

18 HP ODU top discharge	1	Nos
-------------------------	---	-----

TOTAL - 78 HP(SYSTEM 1= 20HP+18HP, SYSTEM 2= 20HP+20HP.

- 2) The Supply of ductable type AC Unit capacities as follows:

b) The HI Wall Mounted Split Indoors 1.0 TR	5	Nos
---	---	-----

c) The Ceiling Mounted Cassette COMQ Indoor 1.0 TR	2	Nos
--	---	-----

g) -do- 1.3 TR	1	Nos
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j) -do- 1.5 TR	1	Nos
----------------	---	-----

k) -do- 2.0 TR	1	Nos
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l) -do- 4 way Indoor 3.0 TR	1	Nos
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l) -do- 4 way Indoor 4.0 TR	14	Nos
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- 5) The Accessories necessary for the AC unit as follows:

a) The Cordless Remote controllers for cassette / Hi wall unit	25	Nos.
--	----	------

c) The Refnut unit	24	Nos.
--------------------	----	------

e) The Twinning Kit or out door unit	2	Nos.
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Page Total C/FD

 Page Total B/FD

Ancillary work for city multi system - Part 'B'

- 1) The Installation of Outdoor Units of the Configuration as follows.
- | | | | | |
|----------|---|-----|--|--|
| a) 78 HP | 3 | Nos | | |
|----------|---|-----|--|--|
- 2) The Installation of Indoor Units:
- | | | | | |
|---------------------|----|-----|--|--|
| b) The Cassate Unit | 20 | Nos | | |
| c) The Hi wall Unit | 5 | Nos | | |
- 3) The Refrigerant Piping using 18 G hard drawn copper along with 19mm. thick for suction & 13 mm thick for Discharge line nitrile rubber. insulation with 1" thick GI pati & 8mm full threaded rod & PVC Supporting Under copper pipe With Sutaible clamp .(RAJCO/MANDEV/INDOGO)
- | | | | | |
|-----|-----|--|--|--|
| 485 | Rmt | | | |
|-----|-----|--|--|--|
- 3.1) Cutting through the RCC Beam / slab. at predetermined location on Architects approval for gaining entry to the internal AC. Piping using core-cutting without disturbing steel reinforcement as directed.
One for ground, 1st to 3rd floor each
- | | | | | |
|---|-----|-----|------|--|
| 4 | nos | 500 | 2000 | |
|---|-----|-----|------|--|
- 4) **The Electrical cabling**
- a) The Interconnecting control cabling between IDU's&ODU's with 1/2 " pvc Conduit pipe along with copper pipe .
- | | | | | |
|-----|-----|--|--|--|
| 606 | Rmt | | | |
|-----|-----|--|--|--|
- b) The Electrical cabling from Indoor unit to supply point. @ 2Rmt /Indoor (POLYCAB/KEI/RR)
- | | | | | |
|----|-----|--|--|--|
| 47 | Rmt | | | |
|----|-----|--|--|--|
- 5) The MS stands for the Out door units of Following Units.
- | | | | | |
|----------|---|-----|--|--|
| a) 78 HP | 4 | Nos | | |
|----------|---|-----|--|--|
- 6) The Pressure Testing, Nitrogen flushing, gas charging, testing & commissioning of the airconditionign system. (GAS- FLORRON/STALION)
- | | | | | |
|----------|---|------|--|--|
| a) 78 HP | 1 | Nos. | | |
|----------|---|------|--|--|
- 7) The Hard PVC plumbing grade Drain piping as per specification with 6mm Nitrile insulation. (SUPPREME/PRINCE/JAIKISAN)
- | | | | | |
|------------------------------------|-----|-----|--|--|
| a) 32mm dia for branch connection. | 200 | rmt | | |
|------------------------------------|-----|-----|--|--|

 Page Total C/FD

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8)	Lifting & Shifting of Outdoor & IDUs	1	Lot
9)	The Cable tray for exposed piping size - 300 x 50 x 50 (JAIHIND)	10	Rmt

Ventilation work for city multi system - Part 'C'

10)	The PVC ducting for fresh air 110 mm (prince/supreme/plasto)	80	Rmt
11)	The PVC ducting for fresh air 160 mm (prince/supreme/plasto)	140	Rmt
11)	The Flexible Connection for Mouth opening of Machine to S.A. Duct	4	Nos
12)	The Flexible duct 100 mm for cassate connection.	4	Nos
13)	The Circuler Inline fans with Filter for Fresh air arrangent - 700 cfm with 15 mm static.	4	nos

Total of Part (A,B,C) C/FD To Summary.....

Total in words.....

Note-

- 1) Subject to the GST.
- 2) The revised offer includes to fresh air supply along with the A.C. supply.
- 3) SDV and ATM provided with separate split type in the system according to discussion.
- 4) To be read with DWG's and here by.

Section (C)

Schedule of Rates

Fire Protection work for proposed building at P.no 639 to 641 Market Yard Pune.**Employer:**The Central Bank of India

Note- Refer to notes to schedule (A/B/C) Specification & the Tender

Sr. No	Description	Qty.	Unit	Rate (Rs.)	Amt (Rs.)
1	S.I.R & C of main fire pump (MFP /EP) suitable for water discharge of 2280 to 2850LPM at 80 to 60 m head driven by electric motor 415 volts, 3 phase 50 Hz, AC supply of 45kW or of suitable kW capacity for manual/automatic operation and consisting of following :(a) Horizontal type, single stage,centrifugal/split casing pump of cast iron body & bronze impeller with stainless steel shaft(SS410 grade), mechanical seal conforming to IS 1520.(b) Squirrel cage induction motor, TEFC, synchronous speed 3000 RPM, suitable for operation with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (c) M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required.(d) Erected on provided suitable size cement concrete foundation duly plastered with anti vibration pads with perfect aligning, proper levelling complete pump set with accessories duly painted with two coats of synthetic enamel paint of fire red colour over a coat of primer (ISC code 536 as per IS 2932 of 2003) complete, as per specification no. FF-MFP/SSC/EP (13-1-4) (2022-23)	2	Each		
2	S.I.T & C of jockey fire pump (JP) suitable for water discharge of 180 to 240 LPM at 70 to 50 m head driven by electric motor 415 volts, 3 phase 50 Hz, AC supply of 5.5 kW or of suitable kW capacity for manual/automatic operation and consisting of following :(a) Horizontal/vertical type, multi stage, centrifugal casing pump of cast iron body & bronze impeller with stainless steel shaft (SS410 grade), mechanical seal conforming to IS 1520. (b) Squirrel cage induction motor, TEFC, synchronous speed 3000 RPM, suitable for operation with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325. (c) M.S. fabricated common base plate, coupling, coupling guard, foundation bolts etc. as required. (d) Erected on provided suitable size cement concrete foundation duly plastered with anti vibration pads with perfect aligning, proper levelling complete pump set with accessories duly painted with two coats of synthetic enamel paint of fire red colour over a coat of primer (ISC code 536 as per IS 2932 of 2003)complete, as per specification no. FF-MFP/JP (13-2-1) (2022-23)	2	Each		

 Page Total C/FD

<i>Page Total B/FD</i>		
3	S & E 75/80 mm dia Cast Iron end line strainer of Ytype flanged end pattern, PN16 pressure rating, SS screen, end connection with Flanged / Screwed / Socket Weld / Butt Weld End etc with standard OAR (open area Ratio) for positive suction complete as per specification no. FFVL/ ELS (13-7-5) (2022-23)	2 Each
4	S & E 100 mm dia Cast Iron end line strainer of Y- type flanged end pattern, PN16 pressure rating, SS screen, end connection with Flanged / Screwed / Socket Weld / Butt Weld End etc with standard OAR (open area Ratio) for positive suction complete as per specification no. FF- VL/ELS (13-7-6) (2022-23)	1 Each
5	S & E 150 mm dia Cast Iron end line strainer of Y- type flanged end pattern, PN16 pressure rating, SS screen, end connection with Flanged / Screwed / Socket Weld / Butt Weld End etc with standard OAR (open area Ratio) for positive suction complete as per specification no. FF- VL/ELS (13-7-7) (2022-23)	3 Each
6	S & E 150 mm dia. cast iron double flange sluice valve complete with PN16 pressure rating, as per specification no. FF- VL/SV (13-7-15) (2022-23)	2 Each
7	S & E 50 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF- VL/BFV (13-7-17) (2022-23)	8 Each
8	S & E 65 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF- VL/BFV (13-7-18) (2022-23)	2 Each
9	S & E 75/80 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF-VL/BFV(13-7-19) (2022-23)	6 Each
10	S & E 100 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF- VL/BFV (13-7-20) (2022-23)	10 Each
11	S & E 150 mm dia. cast iron double flange butterfly valve of size complete with PN16 pressure rating, as per specification no. FF- VL/BFV (13-7-21) (2022-23)	10 Each
<i>Page Total C/FD</i>		

<i>Page Total B/FD</i>				
12	S & E 75/80 mm dia cast iron double flange NRV complete with PN16 pressure rating, as per specification no. FF-VL/NRV (13-7-23) (2022-23)	2	Each	
13	S & E 100 mm dia cast iron double flange NRV complete with PN16 pressure rating, as per specification no. FF-VL/NRV (13-7-24) (2022-23)	1	Each	
14	S & E 150 mm dia cast iron double flange NRV complete with PN16 pressure rating, as per specification no. FF-VL/NRV (13-7-25) (2022-23)	3	Each	
15	S & E G.I. pipe above ground of „C“ class ERW of size 20 mm dia with necessary fittings complete as per specification no. FF-PP(13-6-1) (2022-23)	36	M	
16	S & E G.I. pipe above ground of „C“ class ERW of size 25 mm dia with necessary fittings complete as per specification no. FF-PP (13-6-2) (2022-23)	150	M	
17	S & E G.I. pipe above ground of „C“ class ERW of size 50 mm dia with necessary fittings complete as per specification no. FF-PP (13-6-3) (2022-23)	150	M	
18	S & E G.I. pipe above ground of „C“ class ERW of size 65 mm dia with necessary fittings complete as per specification no. FF-PP (13-6-4) (2022-23)	65	M	
19	S & E G.I. pipe above ground of „C“ class ERW of size 75/ 80 mm dia with necessary fittings complete as per specification no. FF-PP (13-6-5) (2022-23)	50	M	
20	S & E G.I. pipe above ground of „C“ class ERW of size 100 mm dia with necessary fittings complete as per specification no. FF-PP (13-6-6) (2022-23)	25	M	
21	S & E G.I. pipe above ground of „C“ class ERW of size 150 mm dia with necessary fittings complete as per specification no. FF-PP (13-6-7) (2022-23)	120	M	
22	S & E G.I. pipe above ground of „C“ class ERW of size 200 mm dia with necessary fittings complete as per specification no. FF-PP (13-6-8) (2022-23)	15	M	
23	S & E gun metal gate valve of size 25 mm dia complete as per specification no. FF-VL/GV (13-7-32) (2022-23)	12	Each	
<i>Page Total C/FD</i>				

<i>Page Total B/FD</i>		
24	S & E stainless steel single outlet hydrant valve fitted with necessary accessories complete as per specification no. FF-VL/HV (13-7-35) (2022-23)	11 Each
25	S & E stainless steel double outlet hydrant valve fitted with necessary accessories complete as per specification no. FF-VL/HV as per (13-7-37) (2022-23)	2 Each
26	S & I wall mounting swinging Hose reel drum fitted with 19 mm dia. 30m long high pressure polypropylene (Polyhose) fitted with necessary accessories complete as per specification no. FF-FFA/HV (13-8-2) (2022-23)	7 Each
27	Supplying fire fighting reinforced rubber lined (R.R.L) hose pipe, 63mm dia, 15m in length, fitted with necessary accessories complete as per specification no. FF-FFA/RRL (13-8-4) (2022-23)	11 Each
28	S & E stainless steel branch pipe 63 mm dia fitted with 20 mm dia detachable hexagonal nozzle complete as per specifications no. FF-FFA/NZ (13-8-8) (2022-23)	11 Each
29	S & E fire brigade header of 150 mm dia, supplying water in fire tank complete as per specification no. FFFA/FBC (13-8- 10) (2022-23)	1 Each
30	S & E fire brigade header (Siamese connection) of 150 mm dia for supplying water to wet riser system complete as per specification no. FF-FFA/SMC (13-8-11) (2022-23)	1 Each
31	S & E 300 mm dia 1.5m in height air vessel / tank fabricated from min 5mm thick M.S. sheet complete as per specification no. FF-FFA/ACT(13-8-12) (2022-23)	2 Each
32	S & E 20/25mm dia gun metal air release cock, with necessary G.I. coupling to be fitted on top of air vessel or on wet riser complete as per specification no. FF-FFA/ARV (13-8-13) (2022-23)	2 Each
33	S & I pressure gauge of 100 mm dia., 0-300 PSI or 0-14 kg per cm square fitted with 12/15 mm dia. pad cock valve, and G.I. pipe, elbow etc. complete as per specification no. FFFFA/PG(13- 8-14) (2022-23)	5 Each
<i>Page Total C/FD</i>		

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34	S & I pressure switch with 12/15 mm dia isolation valve, G.I. nipple, elbow, etc complete as per specification no. FF-FFA/PS (13-8-15) (2022-23)	6 Each
35	S & E M.S./CRCA cabinet for housing Floor Hydrant valve, hose pipe, hose reel and branch pipe (size 1000 x 736 x 736 mm.) made from 16 SWG sheet and angle iron 25 x 25 x 4 mm. having front doors with viewing glass (8"x6") and locking arrangement with necessary fixing material such as rubber bidding etc. duly painted in post box red colour. (13-8-20) (2022-23)	4 Each
36	S & E M.S./CRCA cabinet for housing single hydrant valve of size (400 x 400 x 400)mm or hose pipe box of size (600 x 600 x 200)mm made from min. 1.5 mm thick CRCA sheet with angle iron work of min. of size (25 x 25 x 4) mm having front doors with viewing glass of size (200x150) mm and locking arrangement with necessary fixing material such as rubber bidding etc. duly painted in post box red colour(Code 538 of IS 5). (13-8-18) (2022-23)	7 Each
37	S & E M.S./CRCA cabinet for housing Fire Brigade /SIEMESE connections (size 1250 x 400 x 300 mm.) made from 16 SWG sheet and angle iron 25 mm. x 25 mm. x 4 mm. having front doors with viewing glass (8" x 6") and locking arrangement with necessary fixing material such as rubber bidding etc. duly painted in post box red colour(Code 538 of IS 5) (13-8-19) (2022-23)	1 Each
38	S.E.T & C of 15 mm (1/2") dia. NBCM Body chrome finished quartzoid bulb sprinkler having 68° C fixed temperature rating with deflector disc of conventional construction complete as per specification no. FF-SPR(13-12-1) (2022-23)	150 Each
39	S.E.T & C vane type water flow detector suitable for detecting flow of water in wet sprinkler pipe of main line or branch lines of 75/80 mm dia having following features 1) Visual switch activation 2) Rugged switch assembly 3) Heavy duty aluminium pipe saddles 4) Durable metal enclosure 5) Steel U bolts for secure mounting 6) Two SPDT (Single pole double track) synchronised switches 7) serviceable without draining pipes (13-12-2) (2022-23)	1 Each
<i>Page Total C/FD</i>		

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|----|---|-----|------|
| 40 | S.E.T & C vane type water flow detector suitable for detecting flow of water in wet sprinkler pipe of main line or branch lines of 100 mm dia having following features 1) Visual switch activation 2) Rugged switch assembly 3) Heavy duty aluminium pipe saddles 4) Durable metal enclosure 5) Steel U bolts for secure mounting 6) Two SPDT (Single pole double track) synchronised switches 7) serviceable without draining pipes (13-12-3) (2022-23) | 1 | Each |
| 41 | S.E.T XLPE armoured cable 3 core 6 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU (7-2-16) (2022-23) | 140 | M |
| 42 | S.E.T XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB- LT/CU (7-2-33) (2022-23) | 60 | M |

Page Total C/FD

Fire main panel

- | | | | |
|------|---|---|------|
| 43 | S.E.T & C of cubicle pattern electrical control panel made of 16 SWG MS sheet duly painted with powder coating, comprising of the following - 2 nos of 250 A FP MCCB (35 kA) busbars, 1 nos of 125 A TP MCCB with neutral link (25 kA), 2 nos 63 A TP MCCB with neutral link (25 kA), 2 nos of start delta starter with overload relay suitable for 75 HP, 1 nos DOL starter with overload relay suitable for 10-20 HP jockey pump, 1 nos DOL starter with overload relay suitable for upto 10 HP booster pump, with RYB Led indicator, Digital/analog voltmeter & ammeter, selector switch, CTs, 24 volts 120 AH battery set with 15 A capacity charger complete with all required accessories. Approx panel size 1800 x 600 x 300 mm. Completed | 1 | Each |
|
 | | | |
| 44 | S & E, assembled Fully Automatic Star Delta starter, in a provided cubical panel to operate squirrel cage induction motor working on 380- 440 Volt, 3 phase, 50 Hz with no volt coil, over load relay and ON-OFF push buttons, with necessary material and connected to supply, etc complete. 7.5 HP & Up to 12.5 HP AS per MJP DSR 2018-19 Item LG 4-1 (2021-2022) | 3 | Each |
|
 | | | |
| 45 | S.& C. of Diesel Engine driven fire pump suitable for automatic / manual operation consisting of the following : End Suction Fire Pump as per approval requirement of UL/ FM with capacity of 2280 LPM at 65 meter head. The pump shall radially split top center line discharge, self venting casing. It shall be of C.I. construction. The shaft shall be fitted with S.S. sleeves and supported by two back to back thrust ball bearings and one radial roller bearing. the back pull out design allows complete rotating assembly to be removed without disturbing the casing piping connection. The pump shall be directly connected through flexible coupling to a diesel engine as per UL/FM approval requirement suitable to meet design at-ed pump's required flow and head with a net continuous rating at 1500 rpm. The D.P. shall confirm to the requirement for the IS 15301:2003 and specifically approved for the fire service. The engine shall operate at a rated speed not exceeding the rated rpm and to develop sufficient horse power to the Pump with reserve power. The Cooling Water supply for the Heat Exchanger shall be from the discharge of the pump, taken off | 1 | Each |

Page Total B/FD

The pipe connection shall include manual shut-off valves (including bypass line) 2X strainers, 2X pressure regulators, a listed automatic Solenoid valve, a pressure gauge, piping and fittings all fitted to engine by the pump manufacturer. One set of dual heavy duty batteries shall be provided and furnished in a dry charge condition with electrolyte liquid in separate containers. Suitable battery rack and 2 meter of battery cable included. The Fuel System shall consist of an above ground storage tank as recommended IS 15301:2003 fill pipe and cap, manual shutoff cock, flame arrestor, oil level gauge and braided bronze flexible connectors. The tank shall be supplied with legs for floor mounting. The Fire Pump shall be factory mounted and aligned with electric motor on common structural base. The fire pump shall be hydraulically tested to a pressure recommended by UL /FM. and subjected to a performance test at rated speed. A certified test curve shall be supplied with the pump.1 No. 400 Lits capacity day oil storage tank fabricated from 4 mm thk. M.S. plates. Tank shall be provided with inlet, outlet, overflow, vent drain connections, manhole cover (300 mm I.D.) & level indicator including floating type level indicator complete with float ball, steel rope, pulley, triangular level indicator of M.S. Sheet and scale mark on tank. Tank shall be mounted on 2 m high steel structural supports with access ladder (Painted with 2 coats of red oxide paint). Tank shall be provided with epoxy coat from inside out-side with one coat of red oxide & two or more coats of synthetic enamel paint of approved colour. (Cost included with Diesel Pumps) The contractor shall provide the first fill of Engine lubricant oil, full capacity of tank diesel and battery charging for the testing and commissioning of the system complete with piping/valves from diesel tank to engine pump. Battery 12V 180 AH , Control panel, Casing CI, Impeller bronze. RA 24-1-6

- | | | | |
|----|---|----|------|
| 46 | Providing Round bottom fire bucket of 9 Litres capacity as per IS : 2546 made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and red outside with FIRE Mark, on provided stand/ wall hook complete. (10-2-24) (2021-22) | 16 | Each |
| 47 | Providing Floor mounting stand for keeping 4 Nos. of FIRE buckets 1500mm in length, 900mm in height frame made out of 30x30x4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of silver paint complete.(10-2-25) (2021-22) | 4 | Each |

Page Total C/FD

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|----|---|----|------|
| 48 | Supplying and erecting D.C.P. type fire extinguisher 6 kg capacity cartridge type with gun metal cap 150 gram CO2 gas cartridge, powder and brackets conforming to IS 2171-1985/ IS 15683 and complete erected with necessary clamps made from 50x6 mm M.S. flat with nuts & bolts grouted in wall complete. (10-2-32) (2021-22) | 2 | Each |
| 49 | Supplying & erecting Carbon Dioxide (CO 2) fire extinguisher of 4.5 kg. capacity cartridge type conform to IS 2878 /15683 complete erected with necessary clamp made from 50 x 6 mm. M. S. flat with nut & bolts grouted in wall complete. (13-15-1) (2022-23) | 8 | Each |
| 50 | Supplying and erecting ABC powder type fire extinguisher as per IS : 13849 /15683 of 6 kg capacity with necessary clamp for erection on wall. (10-2-36) (2021-22) | 30 | Each |

Fire Alarm System

- | | | | |
|----|--|------|------|
| 51 | Supplying, installing, testing and commissioning FR, XLPE armoured cable 2 core 1.5 sq.mm. copper conductor complete erected on wall/ ceiling complete as per specification no. CBLT/CU (13-9-10) (2022-23) | 1000 | M |
| 52 | Supply, installation, testing & commissioning of Multi-Loop Microprocessor based analogue addressable type fire alarm control panel compact type suitable for 2 loops detectors along with required numbers of loop cards with 80 character LCD display, four access levels, 600 event historic logging, suitable for 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working and capable of operating the system for 2 hours during an emergency condition complete with Fire Fighter's System, Auto-Dial up, Integrated to the Emergency Voice Evacuation 2 Way Talk Back System. (At Security Room Stilt Level in each Tower). In peer to peer networking, with all required accessories etc., complete as per directions of Engineer In charge. | 1 | Each |
| 53 | Supply, installation, testing & commissioning Addressable Smoke Detectors with all required accessories etc., complete as per directions of Engineer In charge. | 48 | Each |

Page Total C/FD

<i>Page Total B/FD</i>		
54	Supply, installation, testing & commissioning Addressable Manual Call Points (Staircase Exits), with all required accessories etc., complete as per directions of Engineer In charge.	20 Each
55	Supply, installation, testing & commissioning of Addressable Hooters with Flasher complete with Control Module (Staircase Exits), with all required accessories etc., complete as per directions of Engineer In charge.	20 Each
56	Supply, installation, testing & commissioning of Addressable Monitor Module for flow switch status monitoring at every floor, with all required accessories etc., complete as per directions of Engineer In charge.	5 Each
57	Supply, installation, testing & commissioning of Addressable Control Module for staircase pressurization and lobby exhaust fans , with all required accessories etc., complete as per directions of Engineer In charge.	5 Each
58	Supply, installation, testing & commissioning of Fault Isolators, with all required accessories etc., complete as per directions of Engineer In charge.	5 Each
59	Supply, installation, testing & commissioning Addressable Repeater Panel capable of a peer to peer connection and showing status of both the Main FACP's (Main Gate Security Room), with all required accessories etc., complete as per directions of Engineer In charge.	1 Each
60	Supply installtion of Booster pump 900lpm 35mtr head	1 Set
61	Flexible drop 1000 mm	90 No
<i>Total C/FD To Summary.....</i>		
Total in words.....		

Note-

- 1) Subject to the GST.

14/12-2078
dtd.5/05/2024

Amendment /Erratta

14/12-2078
dtd.5/05/2024

Letter of Acceptance

14/12-2078
dtd.5/05/2024

Addenda