

સરદાર પટેલ સ્ટાર્ટઅપ એન્ડ અન્ટરપ્રેન્યોર્શીપ કાઉન્સિલ (SPSEC)

(સરદાર પટેલ યુનિવર્સિટી ની સેક્શન - ૮ કંપની)

CIN: U80902GJ2021NPL121082

ટેન્ડર નોટિસ

સરદાર પટેલ સ્ટાર્ટઅપ એન્ડ અન્ટરપ્રેન્યોર્શીપ કાઉન્સિલ (SPSEC), સરદાર પટેલ યુનિવર્સિટી, વલ્લભ વિદ્યાનગર-૩૮૮૧૨૦ ધ્વારા નીચે જણાવેલ કામગીરી સંદર્ભે અનુભવી અને સક્ષમ ઈજરદારો પાસેથી ભાવપત્રકો યુનિવર્સિટીની વેબસાઈટ www.spuvvn.edu પરથી ડાઉનલોડ કરી શકાશે અને જરૂરી માહિતી મેળવી શકાશે.

અનુ. નં.	કામ નું નામ	ટેન્ડર ફી (નોન રીફંડેબલ) (રૂ.)	ઈ.મ.ડી. (Bank DD) (રૂ.)	કામ ની સમય મર્યાદા
	સરદાર પટેલ યુનિવર્સિટી ખાતે આવેલ USIC બિલ્ડીંગ માં ઈન્ફ્રાસ્ટ્રક્ચર સેન્ટર તરીકે - પ્રથમ તથા બીજો માળ રેનોવેશન ડેવલપમેન્ટ (ઓફિસ રૂમ, બોર્ડરૂમ, વોશરૂમ, ફ્લોરીંગ, ઈલેક્ટ્રિકલ, ઈન્ટીરિયર, પ્લમ્બિંગ અને ફર્નિચર કામ) માટે ઓનલાઈન ટેન્ડર આમંત્રિત કરવામાં આવે છે.	રૂ. ૧૫૦૦/-	રૂ. ૪૫,૦૦૦/-	૪ મહિના

- ટેન્ડર ડાઉનલોડ શરૂ : ૧૭/૧૦/૨૦૨૫
- ટેન્ડર સબમિશન છેલ્લી તારીખ : ૧૪/૧૧/૨૦૨૫ (બપોરે ૫:૦૦ વાગ્યા સુધી)
- પ્રિ-બિડ મીટિંગ : ૦૭/૧૧/૨૦૨૫ (બપોરે ૩:૦૦ વાગ્યે)
- ટેન્ડર ઓપનિંગ : ૨૧/૧૧/૨૦૨૫ (બપોરે ૩:૦૫ વાગ્યે)

વિગતવાર ટેન્ડર ડોક્યુમેન્ટ www.nprocurement.com and www.spuvvn.edu પર ઉપલબ્ધ છે.

ટેન્ડર Id Number: 234285

નોંધ: ૧) કોઈપણ ટેન્ડર કોઈ પણ કારણ જણાવ્યા સિવાય સ્વીકરવું કે નહિ તેનો હક SPSEC, સંબંધિત રહેશે.

૨) ટેન્ડર ઓપનીંગમાં ભાવ ભરનાર પેઢીઓએ સ્વખર્ચે હાજર રહેવું.

૩) ટેન્ડર ભરતા પેહલા વલ્લભ વિદ્યાનગર ખાતે શહીદ ચોક પાસે આવેલ USIC બિલ્ડીંગ નો પ્રથમ તથા બીજો માળ SPSEC ને ફાળવામાં આવેલ જગ્યા ની અચૂક પણે visit કરવી ફરિજયાત છે અને પછી જ ટેન્ડર ભરવું આવકાર્ય છે. વધુ વિગત માટે SPU ની website visit કરવી.

નં.: SPSEC/INFRA/2025-2026/01

તા: ૧૫/૧૦/૨૦૨૫

ડૉ. ભાઈલાલભાઈ પી. પટેલ

રજીસ્ટ્રાર, SPU & ડિરેક્ટર, SPSEC

નોંધ:

૧. ઉપર જણાવેલ વિગત મુજબ, ટેન્ડર ની વધુ વિગત તરીકે તેના દસ્તાવેજો અને જાણકારી અલગ થી PDF માં આપેલ છે.

૨. ટેન્ડર ભરતા પેહલા વલ્લભ વિદ્યાનગર ખાતે શહીદ ચોક પાસે આવેલ USIC બિલ્ડીંગ નો પ્રથમ તથા બીજો માળ SPSEC ને ફાળવામાં આવેલ જગ્યા ની અચૂક પણે visit કરવી અને પછી જ ટેન્ડર ભરવું.

૩. USIC બિલ્ડીંગ નો પ્રથમ તથા બીજો માળ SPSEC ને ફાળવામાં આવેલ જગ્યા ની જયારે આપ VISIT કરી રહ્યા છો તેનો ફોટોસ પાડી ને, tender Document સાથે બીડાણ કરવો. આ માટે ભાવ ભરનાર પેઢીઓએ સ્વખર્ચે આવનું રહેશે. Visit ની વિગત નું બીડાણ કરવું અનિવાર્ય અને ફરિજયાત છે.

૪. સરદાર પટેલ યુનિવર્સિટી ખાતે આવેલ બધી જ office તા: ૧૮/૧૦/૨૦૨૫ થી ૨૮/૧૦/૨૦૨૫ સીધું દિવાળી ની રજાઓ ને લઈને બંધ રહેશે જેની નોંધ લેવી અને આપની VISIT તા: ૨૮/૧૦/૨૦૨૫ પછી કરાવી.

૫. SPSEC એ એક incubation center બનવવાનું હોવાથી તેના Drawings અને Layout નો અભ્યાસ કરવો.

૬. SPSEC દ્વારા PRE- BID મિટિંગ, SPSEC ના નીચેના address પર રાખવામાં આવેલ છે.

Address: Sardar Patel Startup Entrepreneurship Council (SPSEC) & SPU-SSIP NAVADHARA,

Room No. 405, 3rd Floor, CISST Building, Beside Shastri Maidan, Near Bus Stand,

Vallabh Vidyanagar-388001

Time: 3.00 PM (15:00Hrs)

Date: 07/11/2025, Friday

૭. વધુ વિગત માટે SPSEC દ્વારા કરવામાં આવેલ PMC નો સંપર્ક કરવો. (શ્રી, કાજલ ભાઈ – ૯૫૧૦૯ ૬૬૧૩૦) અથવા SPSEC ના સીનીયર મનેજર શ્રી. નીરવ પટેલ ને – ૯૦૯૯૨૦૮૭૯૦ પર સંપર્ક કરવો.



Tender for Renovation Work of Sardar Patel Startup Entrepreneurship Council, at USIC Building under Sardar Patel university

(1)	Estimated Cost	:	Rs. 45,00,000.00
(2)	Time Limit	:	03 months
(3)	Liquidated Damage	:	As per rules of R & B Dept ,anand and SBD TENDER RULES
(4)	Earnest Money only.)	:	Rs. 45,000.00/- by DD (Nationalized bank (No interest shall be paid)
(5)	Security Deposit	:	As per rules of R & B Dept ,anand and SBD TENDER RULES
(6)	Retention Money	:	5.00% of the bill Amount to be refunded after Satisfactory virtual completion Certificate (No interest shall be paid)
(7)	Bank Guarantee	:	As per rules of R & B Dept ,Anand and SBD TENDER RULES
(8)	Interim Certificate Value	:	Minimum 50lakhs.
(9)	Defect Liability period certificate	:	12 months from the date of completion
(10)	Period of honouring running bill	:	Payment Certificate within 35 days
(11)	Water Charges	:	½ % will be deducted from bill
(12)	Electricity Charges	:	½ % will be deducted from bill
(13)	Income Tax	:	Deduction as per Govt. Rules
(14)	Tender Fee	:	Rs 1500 /-by D.D. (Nationalized bank only) (non Refundable)
(15)	Labor cess	:	1 % of bill Amount
(16)	Validity Period of tender	:	120 days from the date of bid opening
(17)	Testing Materials	:	Necessary testing of all material like Cement, Brick, Sand. Course Aggregate cube test, core cutting, NDT etc., as per IS norms required and directed by EIC. Client may cross check and conduct the various test for quality control from appropriate agency for which 1 % shall be deducted from each and every bill of the contractor .
(18)	Passing of the Running bill	:	after satisfactory completion of said work be paid after checking and Certified by i/c Uni Engineer and joint verification by Contractor with Engineer in charge.
(19)	Period of Final Measurement	:	35 days after Virtual Completion.



(20) Tender Details : Online Tender download start date :15/10/2025

- Last date of online submission of tender :14/11/2025 15:00 hrs
- Last date of physical submission doc. :17/11/2025 15:00 hrs
- Pre–Bid Meeting : 07/11/2025 15:00 hrs
- Tender Documentation Verification : 18/11/2025 15.00 hrs
- Tender opening date : 21/11/2025 15:05 hrs

(25) No Compensation will be paid to the contractor under any circumstances. This condition over rules any other condition regarding compensation in this tender document.

(26) for extension of time limit R & B Dept , Anand and SBD Rules will be followed

(27) The rates to be quoted by the Contractor must be inclusive of all taxes (Labour cess and GST) prevailing on due date of bid submission

In any condition of dispute jurisdiction will be Anand

Note : Sardar Patel University, Vallabh Vidyanagar reserves all Rights to reject any or all the Tenders without assigning any Reason thereof.

Registrar

Sardar patelUniversity



List of approved make/Manufacturer/Brand of Materials or Equivalent for Civil items

Items	Items Approved make/Manufacturer or Equivalent as approved by Enginner-incharge
Cement	Ultratech, Ambuja ,JK Lakshmi ,hathi ,koromandal (india cement), Sanghi , ACC, Kamal ,siddhi (53 Grade OPC major plant)
Bricks	It should be as per IS standard & specifications.
Sand	Bodeli& as per IS gradation & specifications.
AAC Blocks & Panels	Ultratech, Aerocon – HIL, Accurate , Biltech
Steel Reinforcement	i.e. TMT bars Fe 500 D / 500 CRS ISI mark TATA, Jindal ,JSW, Punjab TMT, Electrotherm, Gallant,Hytuf, sail, kamdhenu,
Structural rolled steel sections- beams, Tee, Channel, Fiats, Angles, Bars	TATA, Jindal, JSW, Punjab, Hytuf, Electrotherm
Ready Mix concrete without fly ash	NA – NOT APPLICABLE
Stone Rubbles Materials	Should be as per specification and approved by EIC before use
Glass	Saint Gobain, Asahi, Modi guard ,Float, Gold Plus
Construction Chemicals/ Admixtures, Plasticizers Water Proofing Compounds	Kerakoll ,Dr.Fixit, Pidilite, Sika, Dow Corning, Krishna Conchem , Zydex , Thermax, BASF
Silicon Based Filters / Repellents	GE Silicon, Dow Corning, Wacker, Bostik
Plywood / Veneer	Century Ply , Green Ply , Archid, Kit Ply,
Paints and Polish	Asian Paints, Berger, Nerolac, British
G.I. Sheet	TATA, Jindal , JSW, National Ispat, Essar
Anti-Termite Chemical	Bayer, TATA, Dursban ,Hilban, Pidilite
Bricks for exposed Masoanry	JJB Godhra make
FRP Doors	Surya or equivalent
Tiles	Johnson, Nitco,Somani, Kajaria, AGL
Aluminium Section	Banco, Jindal, National
Flush Door	Green Ply, Laxmi
Vitriouschina kitchen sink	Cera, Hindware, Parryware
ibcock, Stop cock,Pillar cock	Crown, Cromet,Hindware,CERA



ELECTRICAL MATERIAL SPECIFICATION/MAKES:

SR.NO	LIST OF MATERIAL	SPECIFICATION
1	HT Panel / LT Panel / Feeder Pillar	CPRI APPROVED PANEL BUILDER
2	Switches/ Plugs /sockets / Regulator and other Accessories	Modular Accessories (Anchor- Roma Plus)
3	Wires	Havells-FRLSH/Finolex-house guard-FRLSH Series / Laps - FRLS/ APAR FRLS SH Series
4	Screws	N.F. make OR ANY ISI Marked
5	G.I. Saddles (Simple)	Zaral
6	Cables (Armoured as well as Un armoured)	Finolex, Lap, Polycab, APAR, Polycab
7	PVC Pipes and accessories (Rigid) Having 1.5 mm Wall Thickness	Medium Quality in Precision Plastic / Nihir / Vraj
8	PVC Trunking/ Casing Caping/ Oval Trunking/Floor trunking	Precision Plastic / Suggested in Tender Item
9	Distribution Boards	Legrand – (DX3 Series) / Schneider-(Acti-09 Series) and having IP 65 Protection.
10	MCB's/ ELCB/ MCCB/ RCCB	legrand (DPX3) OR Schneider-(Acti-09 Series
11	Change over Switch	L&T
12	Cable Gland	HMI, Comet
13	Cable Lugs	HMI OR Dowells OR OBO
14	Metal halide fixtures, lamps and accessories	Phillips only (As per Model Suggested in Tender in Item)
15	Mirror optic luminaries,/TLF,/ Down lighters / LED etc	Phillips only
16	Telephone Cable	Havelles /Finolex/D.Link
17	Networking Cable	Havelles /Dlink (Cat-6)
18	Ceiling Fan /Exhaust Fan	Crompton, (As per Model Suggested in Tender Item)
19	Cable Tray	SILVER LINE POWER / KEW
20	EPABX	MATRIX/PANASONIC
21	Public address	BOSCH
22	CCTV	DA HUA/CP PLUS/ HIKVISION & CCTV NVR MODEL

ELECTRICAL MATERIAL SPECIFICATION/MAKES:

SR.NO	LIST OF MATERIAL	SPECIFICATION
23	<u>Modular / Tissiono Type / Switch & Additional Accessories</u>	Ancho Roma Plus
24	PVC Pipe / Trunking / Flexible Pipes	Precision / Vraj Medium Clam
25	Switches/ Plugs /sockets / Regulator and other Accessories	Modular Accessories (Anchor- Roma Plus)
26	Wires	Havells-FRLSH/Finolex-house guard-FRLSH Series / Laps - FRLS/ PloyCab Green FRLS
27	Screws	N.F. make OR ANY ISI Marked
28	G.I. Saddles (Simple)/ FAN ROD	Zaral
29	Cables (Armoured as well as Un armoured)	Finolex, Havells, Lap, Polycab
30	Luminaries	Philips only
31	Celling Fan	Crompton – HS Plus or Havells or Equivalent
32	Exhaust Fan	Crompton & Havelles
33	PVC Pipes and accessories (Rigid) Having 1.5 mm Wall Thickness	Medium Quality in Precision Plastic / Nihir / Vraj
34	PVC Trunking/ Casing Caping/ Oval Trunking/Floor trunking	Precision Plastic / Suggested in Tender Item
35	Distribution Boards	Legrand - Ekinox (Lexic Series) / Schneider-(Acti-09 Series) and having IP 65 Protection.
36	MCB's/ ELCB/ MCCB/ RCCB	legrand (Lexic Series & DPX3) OR Schneider-(Acti-09 Series)
37	Earthling Rod	Coonect/ ETP with Pipe to Pipe Technology and GI Strip should be thorough out the length at Rod
38	Change over Switch	HPL
39	Cable Gland	HMI, Comet/ Dowells
40	Cable Lugs	HMI OR Dowells OR OBO/ Dowell
41	Switch Gears & Distribution Board	Legrand DX3 Series & Schneider AET 09 Series
42	Metal halide fixtures, lamps and accessories	As per Model Suggested in Tender in Item)
43	Mirror optic luminaries,/TLF,/ Down lighters / LED etc	WIPRO or (As per Model Suggested in Tender Item)
44	Telephone Cable	Havelles /Finolex/ D link
45	Networking Cable	Havelles /Finolex (Cat-6)



46	Ceiling Fan /Exhaust Fan	Crompton, (As per Model Suggested in Tender Item)
47	Cable Tray	SILVER LINE POWER / KEW
48	Panel Mounting / AVF Meter	L & T / Schneider
49	EPABX	MATRIX/PANASONIC
50	Public address	BOSCH
51	CCTV	NATALUS,HONEYWELL

STANDARD BIDDING DOCUMENT OF RENOVATION WORK COMPLETE BIDDING DOCUMENT VOLUME-I

Name of Work: - Renovation Work of Sardar Patel Startup Entrepreneurship Council, at USIC Building under Sardar Patel University



DTP Submitted for approval
@ Rs 45,00,000.00
(i.e., Forty Five Lacs rupees
only)

SARDAR PATEL STARTUP AND ENTREPRENEURSHIP COUNCIL

&

SPU SSIP NAVADHARA

SARDAR PATEL UNIVERSITY

VALLABH VIDYANAGAR

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**INVITATION FOR BID
(IFB)**

NATIONAL COMPETITIVE BIDDING

1. The **Registrar , Sardar patel University Vallabh vidyanagar** invites bids for the construction of works detailed in the table. The bidders may submit bids for following works.

TABLE

Sr no .	Name of work	Approximate value of works (Rs.)	Bid security EMD (Rs.)	Cost of document	Period of completion	#Class of Registration / Category of contractor if required
1	2	3	4	5	6	7
	Interior & Renovation work of SPSEC at USIC Building at SPU	45,00,000.00	45,000.00.	1500.00	4 months	E1Class & Above

2. Prospective / Interested bidder may download the Bid Documents from website <https://www.nprocure.com> free of cost till the Time and Date as mentioned on online NIT at website <https://www.nprocure.com>.
3. However, Bidder who is submitting the Bid Online will have to pay the Bid Document Fee / Tender Fee through Demand Draft only of any Schedule Bank payable at and in favour of '**Registrar ,Sardar patel University**'. Once the Bid is received online, Bid Document / Tender Fee will not be refundable.

The Demand Draft for Bid Document / Tender fee and Bid Security / EMD shall be submitted in electronic format through online (by scanning) while uploading the bid, this submission shall mean that bid document / tender fee and Bid Security / EMD has been received. Accordingly, the offer of only those shall be opened whose Bid Document / Tender Fee and Bid Security / EMD have been received electronically. However, for the purpose of realization of Demand Draft, and Bank Guarantee bidder shall send the same in original through R.P.A.D. so as to reach to '**Registrar ,Sardar Patel University before date of physical documents Submission**'.

Paneltative action for not submitting Demand Draft in original to registrar , Tender Inviting Authority by bidder shall be initiated.

4. Bids received online, will be opened on the time, date and place as specified in the online NIT at website <https://www.nprocure.com> in the presence of the bidders or their authorized representatives, who wish to remain present.
If the office happens to be closed on the day of opening of the bids as specified, the bids will be opened on the next working day at the same time and venue.
5. **Bid Security (EMD) is equal to 1% of Estimated Amount put to bid / tender and should be rounded off to the next thousand rupees.**
6. Other Information is asunder:
- A. Agencies can prepare and edit their offers a number of times before the end of the tender submission date and time. After the tender submission date and time, the bidder cannot modify / edit / withdraw their submitted offer in any case. No written or online request in this regard shall be granted.
- B. Offers in physical form will not be accepted in any case.

- C. Demand Draft purchased by the other then bidder **and issued after the last date of submission of Bids, will not be considered or accepted.**
- D. The cost incurred by the contractor for this offer for clarification or attending discussion, conferences or site visits will not be reimbursed by the Employer or Engineer-in-Charge.
- E. Conditional tender shall not be accepted.
- F. Any changes, addition, alternation made in the prescribed form attached with tender are liable to be rejected.
- G. Any change in format or conditional Bank Guarantee will not be accepted and the bidder will be considered on-responsive.
- H. All the bidders are instructed to fill in information strictly in accordance with the format given in the checklist /qualification document / tender document.
- I. It is mandatory for the bidders to supply each and every information as asked strictly in electronic format at appropriate places only.
- J. Blank / insufficient information shall be treated as nil information and shall result in disqualification.
- K. Even if the bidder has been qualified in a similar or larger size of project in the past, it shall not be deemed to be a ground / reason for not giving required information for this work /bid.
- L. Information supplied for earlier projects shall not be considered while evaluation of this bid. The Government will not ask for any other information, unless it is found absolutely necessary by the competent authority.
- M. If found necessary, the contractor will be intimated for negotiation,

For the works costing up to 7.5 crore (ROAD), 7.0 crore (BUILDING & BRIDGE) kindly refer to SSR-10-2015-17-C dated 03-02-2017

For the works costing under 7.5 crore for Road Works and 7.0 crore for Building and Bridge Works following documents shall be submitted in electronic format only through online by scanning and the (i) Bid Document Fee / Tender Fee (ii) Bid Security / EMD should be sent in original to the Tender opening authority through RPAD, so as to reach the registrar ,Sardar patel university till the day of physical submission of Bid.

- (i) Bid Document Fee / Tender Fee
- (ii) Bid Security / EMD
- (iii) Registration of Approved Contractors of 'E1 ' **Class & Above**
- (iv) SOLVENCY CERTIFICATEE (20% of Estimated Cost) i.e. 9,00 Lakhs (Nine Lakhs) amount in INR
- (v) GST Number, PAN NO
- (vi) Work Experience as define para 4.5.3
- (vii) Other Documents, Income tax certificate of last three years

SECTION - 1
INSTRUCTIONS TO BIDDERS
(ITB)

Section 1: Instructions to Bidders

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A. GENERAL

1. Scope of Bid

- 1.1 The Registrar (Sardar patel university) invites bids for the Construction **Interior & Renovation work of SPSEC at USIC Building at ,Sardar patel University** detailed in the table given in IFB. The bidders may submit bids for any or all of the works detailed in the table given in IFB.
- 1.2 The successful bidder will be expected to complete the works by the intended completion date specified in the Contract data.
- 1.3 Throughout these bidding documents, the terms 'bid' and 'tender' and their derivatives (bidder/ tenderers, bid / tender, bidding/ tendering, etc.) are synonymous.

2. Source of Funds

- 2.1 The expenditure on this project will be met from the budget of, Sardar patel University , Govt. of Gujarat / Govt. of India for centrally sponsored projects.

3. Eligible Bidders

- 3.1 This Invitation for Bids is open to all eligible bidders.
- 3.2 All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a statement that the Bidder is neither associated, nor has been associated, directly or indirectly, with the consultant or any other entity that has prepared the design, specifications, and other documents for the Project or being proposed as Project Manager for the Contract. A firm that has been engaged by the Employer to provide consulting services for the preparation or supervision of the works, and any of its affiliates, shall not be eligible to bid.

4. Qualification of the Bidder

- 4.1 All bidders shall provide in Section 2, Forms of Bid and Qualification Information, a preliminary description of the proposed work method and schedule, including drawings and charts, as necessary. The proposed methodology should include a program of construction backed with equipment planning and deployment duly supported with broad calculations and quality assurance procedures proposed to be adopted justifying their capability of execution and completion of work as per technical specifications, within stipulated period of completion.

4.2 Deleted

4.3 Deleted

4.4 Deleted

#4.5 QUALIFICATIONCRITERIA:

(Applicable for the works which require Post Qualification)

- 4.5.1** Qualification will be based on Applicant's meeting all the following minimum pass/fail criteria regarding the Applicant's general and particular experience, personnel and equipment capabilities and financial positions, as demonstrated by the applicant's responses in the forms attached to the letter of application (specified requirement for joint ventures are given under para 4.6 below) Subcontractors experience and resources shall not be taken in to account in determining the applicants compliance with the qualifying criteria

To qualify for more than one contract, the applicant must demonstrate having experience and resources sufficient to meet the aggregate of the qualification criteria for each contract given in paragraphs 4.5.4, 4.5.5 and 4.5.9 below

4.5.2 Base year and Escalation

The base year shall be taken as Current financial year

Following enhancement factors will be used for the costs of works executed and the financial figure to a common base value for works completed in India.

<u>Year</u>	<u>Financial Year</u>	<u>Multiplying factor</u>
Base year of inviting tender	2025-2026	1
-1	2024-2025	1.10
-2	2023-2024	1.21
-3	2022-2023	1.33
-4	2021-2022	1.46
-5	2020-2021	1.61

Applicant should indicate actual figures of costs and amount for the works executed by them without accounting for the above-mentioned factors.

In case the financial figures and value of completed works are in foreign currency the above enhanced multiplying factors will not be applied. Instead, the current market exchange rate (State Bank of India BC Selling rate as on the last date of submission of the bid) will be applied for the purpose of conversion of the amount in foreign currency into India rupees.

4.5.3. General Experience.

The Applicant shall meet with the following minimum criteria:

- (a) Experience of having successfully completed similar nature of works as a prime contractor during last five years ending last day of the month previous to the one in which bids are invited should be either of the following
- (1) Three similar works completion each costing not less than the amount equal to 40 % of the estimated cost
 - Or
 - (2) Two similar works completion each costing not less than the amount equal to 50 % of the estimated cost
 - Or
 - (3) ONE similar work completion of aggregate cost not less than Amount Equal to 80 % of the estimated cost Put to Tender

Similar works Means completed work in single order within single campus /site which includes construction of RCC Framed structure Building in immediate last five years as a main contractor for any govt dept or semi govt dept ,central or state autonomous body ,public sector under taking shall be considered 3A CERTIFICATE Should be produced issued by the concered authority not below the rank of Executive Engineer and duly signed by (schedule h I and ii)

4.5.4. Personnel Capabilities.

Availability for his work of personnel with adequate experience as required; as per **Appendix.**

4.5.5. Equipment Capabilities

Based on the studies carried out by the Engineer, the minimum suggested major equipment to attain the completion of works in accordance with the prescribed construction schedule are shown in the Appendix.

The bidders should, however, undertake their own studies and furnish with their bid, a detailed construction planning and methodology supported with layout and necessary drawings and calculations to allow the employer to review their proposals. The numbers, types and capacities of each plant/equipment shall be shown in the proposals along with the cycle time for each operation for the given production capacity to match the requirements.

4.5.6. Financial Position

The Applicant should give undertaking that he has access to, or has available, liquid assets (aggregate of working capital, cash in hand and uncommitted bank guarantees) and / or credit facilities up to 25 percent of the value of the contract / contracts applied.

- 4.5.7.** The audited balance sheets for the last five years should be submitted, which must demonstrate the soundness of the applicant's financial position, showing long – term profitability including an estimated financial projection for the next two years, If necessary, the employer will make inquiries with the applicant's bankers.

4.5.8. Litigation History

The Applicant should provide accurate information on any litigation or arbitration resulting from contracts completed or under execution by him over the last five years. A consistent history of awards against the Applicant or any partner of a joint venture may result in failure of the applicant.

4.5.9. Disqualification

Even though the applicants meet the above criteria, they are subject to be disqualified if they have:

Made misleading or false representation in the forms, statements submitted, and / or Record of poor performance such as abandoning the work, rescinding of contract for which the reasons are attributable to the non – performance of the contractor; consistent history of litigation awarded against the applicant or financial failure due to bankruptcy. The rescinding of contract of a joint venture on account of reasons other than non – performance, such as Most Experienced partner of joint venture pulling out, court directions leading to breaking up of a joint venture before the start of work, which are not attributable to the poor performance of the contractor will, however, not affect the qualification of the individual partners.

4.7. Bid Capacity.

Applicants who meet the minimum qualification criteria will be qualified only if their available bid capacity at the expected time of bidding is more than the total estimated cost of the works. The available bid capacity will be calculated as under:

Assessed Available Bid Capacity = $(A*N*2)-B$), where

A = Maximum value of construction work executed in any one year during the last five years (updated to the price level of the year indicated in appendix) taking into account the completed as well as works in Progress.

B = Value at current year price level of the existing commitments and ongoing works and LOI/LOA ISSUED TO Be completed during the period of completion of works for which bids have been invited

N = Number of years prescribed for completion of the works for which the bids has been invited

Note: - In Case of joint venture, the available bid capacity will be applied for each partner to the extent of his proposed participation in the execution of the work.

4.8 Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if theyhave:

- Made misleading or false representation in the forms, statements and Attachments the submitted in proof the qualification requirements; and /or
- Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delay in completion, litigation history, or financial failures etc.; and/or
- Participated in the previous bidding for the same work and had quoted unreasonably high bid prices and could not furnish rational justification to the employer.

5. One bid per bidder

- 5.1. Each bidder shall submit only one bid for one package. A bidder who submits or participates in more than one bid (other than as a subcontractor or in cases of alternatives that have been permitted or requested) will cause all the proposals with the bidder's participation to be disqualified.

6. Cost of Bidding

- 6.1. The bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will in no case be responsible and liable for those costs.

7. Site Visit

- 7.1. The Bidder, at the Bidder's own responsibility and risk is encouraged to visit and examine the Site of work and its surrounding and obtain all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works.

The costs of visiting the site shall be at the Bidder's own expense.

B. BIDDING

C. D OCUMENTS

8. Content of Bidding Documents

- 8.1 The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause10:

Section	Particulars	Volume No.
-	Invitation for Bids	I
1	Instructions to Bidders	
2	Qualification Information, and other forms	
3	Conditions of Contract	
4	Contract Data	
5	Technical Specifications	II
6	Form of Bid	III
7	Bill of Quantities	
8	Securities and other forms	
9	Drawings	IV
10	Documents to be furnished by bidder	V

- 8.2 Volumes I, II, III and IV are available online and documents to be furnished by the bidder in compliance to section 2 will be prepared by him and furnished as Volume-V in two parts (refer clause12).
- 8.3 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, technical specifications, bill of quantities, forms, Annexes and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. **Pursuant to clause 26 hereof**, bids which are not substantially responsive to the requirements of the Bid Documents shall be rejected.

9. Clarification Bidding Documents

- 9.1 A prospective bidder requiring any clarification of the bidding documents may notify the Employer in writing or through E-mail at the Employer's address indicated in the invitation to bid. The Employer will respond to any request for clarification which he received earlier than 15 days prior to the deadline for

submission of bids. Employer's response will be published on website including a description of the enquiry but without identifying its source.

9.2. Pre-bidmeeting

- 9.2.1. The bidder or his official representative is invited to attend a pre-bid meeting which will take place at the
Address: Sardar Patel Startup Entrepreneurship Council (SPSEC) & SSIP NAVADHARA, Room No. 405, 3rd Floor, CISST Building, Beside Shastri Maidan, Near Bus Stand, Vallabh Vidyanagar-388001
Time: 3.00 PM (15:00Hrs)
Date: 07/11/2025, Friday
- 9.2.2. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 9.2.3. The bidder shall be required to submit any questions in writing or e-mail to reach the Employer not later than 03 days before the meeting.
- 9.2.4. Minutes of the meeting, including the question raised (Without identifying the source of enquiry) and the responses given will be published without delay on the tender website i.e. www.nprocure.com. Any modification of the bidding documents listed in sub-Clause 8.1 which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause 10 and not through the minutes of the pre-bid meeting.
- 9.2.4. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

10. Amendment of Bidding Documents

- 10.1 Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.
- 10.2 Any addendum thus issued shall be part of the bidding documents. The Employer will assume no responsibility for the same.
- 10.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may, at his discretion, extend as necessary the deadline for submission of bids, in accordance with Sub-Clause 20.2 below.

D. PREPARATION OF BIDS

11. Language of the Bid

11.1 All documents relating to the bid shall be in the English language.

12. Documents Comprising the Bid

12.1. The bid to be submitted by the bidder as Volume V of the bid document (refer Clause 8.1) shall be in two separate parts:

Part I shall be named "Technical Bid" and shall comprise

- (i) Bid Security in the form specified in Section 8
- (ii) Qualification Information and supporting documents as specified in Section 2
- (iii) Certificates, undertakings, affidavits as specified in Section 2
- (iv) Any other information pursuant to Clause 4.5 of these instructions
- (v) Undertaking that the bid shall remain valid for the period specified in Clause 15.1

Part II shall be named "Financial Bid" and shall comprise

- (i) Form of Bid as specified in Section 6
- (ii) Priced Bill of Materials for items specified in Section 7

12.2. The Bidder shall submit the details / information pertaining to each part i.e. technical as well as financial and must be submitted online only.

12.3. Following documents will be deemed to be part of the bid.

Section	Particulars	Volume No.
	Invitation for Bids (IFB)	
1	Instructions to Bidders	Volume I
3	Conditions of Contract	
4	Contract Data	
5	Specifications	Volume II
9	Drawings	Volume IV

13. Bid Prices

13.1 The Contract shall be for the whole works as described in Sub-Clause 1.1, based on the priced Bill of Materials submitted by the Bidder.

13.2 The bidder shall fill in rates and prices and line-item total (both in figures and words) for all items of the Works described in the Bill of Materials along with total bid price

(Both in figures and words). Items for which no rate or price is entered by the bidder will not be paid for by the Bill of Quantities.

13.3 All duties, taxes, and other levies except GST payable by the contractor under the contract, or for any other cause shall be included in the rates, prices and total Bid Price submitted by the Bidder. (GST will be paid extra)

13.4 Deleted

13.5 The rates and prices quoted by the bidder are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 47 of the Condition of Contract **(Irrespective of the time limit and Bid Amount)**

14. Currencies of Bid and Payment

14.1 The unit rates and the prices quoted by the bidder shall be entirely in Indian Rupees. All payments shall be made in Indian Rupees.

15. Bid Validity

15.1 Bids shall remain valid for a period of not less than 120 days after the deadline date for bid submission specified in Clause 20.

15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified period. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his security for a period of the extension, and in compliance with Clause 16 in all respects.

#16. Bid Security

16.1 The Bidder shall furnish, as part of his Bid, a Bid security in the amount as shown in column 4 of the table of IFB for this particular work. This Bid security shall be in favor of **Registrar, Sardar Patel University, Vallabh Vidyanagar** and may be in one of the following forms;

a. Bank Guarantee from any scheduled Indian bank, in the format given in Volume III. **(Bank Guarantee is applicable only for Bid Estimated Amount of 01 Crore and above)** and Bank Guarantee of Schedule and Private Banks shall be considered as per GoG Finance Department's Circular No. FD/MSM/e-file/4/2023/0057/D.M.O. Date 21/04/2023 or as per their latest amendment.

b. Fixed Deposit Receipt issued by any Scheduled Indian Bank or a foreign Bank approved by the Reserve Bank of India.

c.

NOTE : EMD Exception certificate is not valid

162. Bank guarantees (and other instruments having fixed validity) issued as surety for the bid shall be valid for 45 days beyond the validity of the bid i.e. total validity of 120+45 = 165Days
163. Any bid not accompanied by an acceptable Bid Security and not secured as indicated in Sub-Clauses 16.1 and 16.2 above shall be rejected by the Employer as non-responsive.
164. The Bid Security of unsuccessful bidders will be returned within 28 days of the end of the bid validity period specified in Sub-Clause15.1
- 16.5 The Bid Security of the successful bidder will be discharged when the bidder has signed the Agreement and furnished the required Performance Security.
- 16.6. The bid Security may be forfeited
- (a) If the Bidder withdraws the bid after Bid opening during the period of Bid validity.
 - (b) If the Bidder does not accept the correction of the Bid Price, if any or
 - (c) In the case of a successful Bidders, if the Bidder fails the specified time limit to
 - (i) Sign the Agreement ;or
 - (ii) Furnish the requirement Performance Security.
 - (d) #If found necessary, the bidder will be intimated for negotiation, He will be intimated maximum three times within the validity period for negotiation, if contractor does not respond in time, his Bid Security (EMD) will be forfeited and his tender will be rejected. Punitive action will be taken on such contractors. (As per GoG R&B Dept's Gr. No. S/22/2017/6369/D,Dt.08/06/2018)

17. Alternative Proposals by Bidders.

- 17.1. Bidders shall submit offers that fully comply with the requirements of the bidding documents, including the conditions of contract (including mobilization advance or time for completion), basic technical design as indicated in the drawing and specifications. Conditional offers or alternative offers will not be considered further in the process of tender evaluation.

18. Format and signing of Bid

- 18.1. The Bidder shall prepare documents comprising the bid as described in Clause 12 of these Instructions to bidder as the "Technical Bid "and "Financial Bid" in separate parts to be uploaded.

E. SUBMISSION OF BIDS

19. Deleted

20. Deadline for Submission of the Bids

- 20.1. Complete Bids must be received online by the Employer at the tender website specified above not later than the date indicated in appendix.
- 20.2. The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all right and obligation of the Employer and the bidders previously subject to the original deadline will then be subject to the new dead line.

21. Deleted

22. Modification and Withdrawal of Bids

- 22.1. Bidders may modify or withdraw their bids online before the deadline prescribed in Clause 20 or pursuant to Clause 23.
- 22.2. Deleted
- 22.3. No bid shall be modified or withdrawn after the deadline for submission of Bid.
- 22.4. Withdrawal or modification of a bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in Clause 15.1 above or as extended pursuant to Clause 15.2 may result in the forfeiture of the Bid security pursuant to Clause 16.

F. BID OPENING AND EVALUATION

23. Bid Opening

- 23.1 The Employer will open all the Bids received including modifications made pursuant to Clause 22, in the presence of the Bidders or their representatives who choose to attend at time, date and the place specified in Appendix in the manner specified in Clauses 20 and 23.3, In the event of the specified date of Bid opening being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.
- 23.2. Deleted.
- 23.3. The “Technical Bid” shall be opened. The amount, form and validity of the bid security furnished with each bid will be announced. If the bid security furnished does not conform to the amount and validity period as specified in the invitation for bid (ref. Column 4 and paragraph 3), and has not been furnished in the form specified in Clause 16, the technical bid will not be opened.
- 23.4. (i) Subject to confirmation of the bid security by the issuing Bank, the bids accompanied with valid bid security will be taken up for evaluation with respect to the Qualification information and other information furnished in part I of the bid pursuant to Clause 12.1.
- (ii) If required, the bidder will be asked in writing to clarify his Qualification Documents with respect to any required clarification.
- (iii) The bidders will respond in not more than 7 days of issue of the clarification letter.
- (iv) Immediately (usually within 3 or 4 days), on receipt of these clarification the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for consideration.
- 23.5. Deleted
- 23.6 At the time of opening of “Financial Bid”, the names of the bidders were found responsive in accordance with Clause 23.4(iv) will be announced. The bids of only these bidders will be opened. The responsive Bidders’ names, the Bid prices, the total amount of each bid, any discount and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening.
- 23.7 the time of opening of “Financial Bid”, the names of the bidders were found responsive in accordance with Clause 23.4(iv) will be announced. The bids of only these bidders will be opened. The responsive Bidders’ names, the Bid prices, the total amount of each bid, any discount, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening.
- 23.8 In case bids are invited for more than one package, the order for opening of the “Financial Bid” shall be in order of Estimated amount of Bids from highest to lowest.
- 23.9 The Employer shall prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Sub-Clause 23.6.

24 Process to be Confidential

- 24.1 Information relating to the examination, clarification, evaluation, and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any effort by Bidder to influence the Employer's processing of Bids or award decisions may result in the rejection of his Bid.

25. Clarification of Financial Bids

- 25.1. To assist in the examination, evaluation, and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by e-mail, but no change in the price or substances of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids.
- 25.2 Subject to sub-clause 25.1, no Bidder shall contact the Employer on any matter relating to his Bid opening to the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Employer, it should do so in writing.
- 25.3. Any effort by the Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decision may result in the rejection of the Bidders' bid.

26. Examinations of Bids and Determination of Responsiveness

- 26.1 During the detail evaluation of "Technical Bid", the Employer will determine whether each Bid (a) meets the eligibility criteria defined in Clause 3 and 4; (b) has been properly signed; (c) is accompanied by the required securities and; (d) is substantially responsive to the requirements of the Bidding document. During the detailed evaluation of the "Financial Bid", the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications, and drawings.
- 26.2 A substantially responsive "Financial Bid" is one which confirms all the terms, conditions and specifications of bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial way the scope, quality, or performance of the Works; (b) which limits in any substantial way, inconsistent with the Bidding documents, the Employer's rights or the Bidder's obligations under the Contract; or (c) whose rectification would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
- 26.3 If a "Financial Bid" is not substantially responsive, it will be rejected by the Employer, and may not subsequently be made responsive by correction or withdrawal of the non-conforming deviation or reservation.

27. Deleted

28. Deleted

29. Evaluation and Comparison of Financial Bids

- 29.1. The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Sub-Clause 26.2.
- 29.2. Deleted.
- 29.3. The Employer reserves the right to accept or reject any variation or deviation. Variation and deviations and other factors, which are in excess of the requirements of the Bidding documents or otherwise result in unsolicited benefits for the Employer, shall not be taken in to account in Bid evaluation.
- 29.4. The estimated effect of the price adjustment conditions under Clause 47 of the Conditions of Contract, during the period of implementation of the Contract, will not be taken in to account in Bid evaluation.
- 29.5. If the Bid of the successful Bidder is seriously unbalanced in relation to the Engineer's estimate of the cost of work to be performed under the contract the Employer may require the Bidder to produce detailed consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the performance security set forth in Clause 34 be increased at the expense of the successful /bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.
- 29.6. A bid which contains several items in the bill of Quantities which are unrealistically priced low and which cannot be substantiated satisfactorily by the bidder may be rejected as non-responsive.

30. Deleted

G. AWARD OF CONTRACT

31. Award Criteria

31.1. Subject to Clause 32, the Employer will award the contract to the Bidder whose Bid has been determined.

- (i) to be substantially responsive to the Bidding documents and who has offered the lowest evaluated Bid Price ;and
- (ii) to be within the available bid capacity adjusted to account for his bid price which is the lowest evaluation in any of the packages opened earlier than the one consideration.

In no case, the contract shall be awarded to any bidder whose available bid capacity is less than the evaluated bid price, even if the said bid is the lowest evaluated bid. The contract will in such cases be awarded to the next lowest bidder at his evaluation bid price.

32. Employer's Right to Accept any Bid and to Reject any or all Bids

32.1. Notwithstanding Clause 31, the Employer reserves the right to accept or reject any Bid, and to cancel the Bidding process and reject all Bids, at any time prior to the award of contract, without thereby incurring any liability to the affected bidder or Bidder or any obligation to inform the affected Bidder or Bidders of the grounds for the Employer's action.

33. Notification of Award and Signing of Agreement

33.1. The Bidder whose Bid has been accepted will be notified of the award by the Employer prior to expiration of the Bid validity period by cable, telex or facsimile confirmed by registered letter. This letter (hereinafter and in the condition of contract called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

33.2 The notification of award will constitute the formation of the contract, subject only to the furnishing of a performance security in accordance with the provisions of Clause.

33.3. The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and to the successful Bidder, within 28 days following the notification of award along with the Letter of Acceptance. Within 21 days of receipt, the successful Bidder will sign the Agreement and deliver it to the Employer.

33.4. Upon the furnishing by the successful Bidder of the Performance Security, the Employer will promptly notify the other Bidders that their Bids have been unsuccessful.

34. Performance Security

34.1. (A) Within 10 (Ten) days of receipt of Letter of Acceptance, the successful Bidder shall furnish to the Employer an irrevocable and unconditional guarantee from a Bank in the form set forth in Section 8 (the "Performance Security") for an amount equal to 5% (five percent) of its Contract Price. In case of bids mentioned below, the successful Bidder, along with the Performance Security,

shall also furnish to the Authority an irrevocable and unconditional guarantee from a Bank in the same form given at Section 8 towards an Additional Performance Security (The “Additional Performance Security”) for an amount calculated as under:

- (a) If the Contract Price offered by the Selected Bidder is lower than 10% but up to 20% of the Estimated Project Cost, then the Additional Performance Security shall be calculated @ 20% of the difference in the (i) Estimated Project Cost (as mentioned in Bid Document) - Minus 10% of the Estimated Project Cost and (ii) Contract Price offered by the selected Bidder.
 - (b) If the Contract Price offered by the Selected Bidder is lower than 20% of the Estimated Project Cost, then the Additional Performance Security shall be calculated @ 30% of the difference in the (i) Estimated Project Cost (as mentioned in Bid Document) - Minus 10% of the Estimated Project Cost and (ii) Contract Price offered by the selected Bidder.
 - (c) This Additional Performance Security shall be treated as part of the Performance Security.
- (B) The Performance Security shall be valid beyond 60(sixty) days of the Defects Liability Period and the Additional Performance Security shall be valid beyond 28 (twenty-eight) days of Project Completion Date.

- 34.2. If the performance security is provided by the successful Bidder in the form of a Bank Guarantee, it shall be issued either (a) at the Bidder's option, by a Nationalized/Scheduled Indian bank or (b) by a foreign bank located in India and acceptable to the Employer. As per GoG Finance Department's Circular No. FD/MSM/e-file/4/2023/0057/D.M.O. Date 21/04/2023 or as per their latest amendment.
- 34.3. Failure of the successful Bidder to comply with the requirement of Sub-Clause 34.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Bid Security.

35 Deleted

36. Deleted

37. Corrupt of Fraudulent Practices

- 37.1 The Employer will reject a proposal if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in completing for the contract in question and will declare the firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract with National Highways Authority of India/ State PWD and any other agencies, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in completing for the contractor, or in execution.
- 37.2 Furthermore, Bidders shall be aware of the provision stated in Sub- Clause 59.2 of the Conditions of Contract.

APPENDIX TO ITB

Clause Reference

With respect to

Section -I

1. The Name of the Employer is Registrar ,Sardar Patel University ,Vallabh vidyanagar [Cl.1.1]
2. The last five years.
2019 – 2020
2020 – 2021
2021 – 2022
2022 – 2023
2023 – 2024
3. This Annual Financial Turnover Amount is **AS PER CL 4.5.3** [Cl.4.5.3 (a)]
4. **Value of Work is Rs. 45,00,000/- INR**
 5. Deleted
 6. The cost of electric work is **Rs. 14,00,000/-**
 7. The cost of water supply / sanitary works is: **31,00,000/-**
 8. Liquid assets and / or availability of credit facilities is [Cl.4.5.6]
 9. Price level of the financial year **2025 – 2026** [Cl. 4.5.2]
 10. The pre-bid meeting will take place on 07.11.2025 at **SPSEC, V V Nagar, Anand** [Cl. 9.2.1]
 11. The technical Bid will be opened at the office of the **,SARDAR PATEL UNIVERSITY**
Ondt. **21.11.2025 at 3.00 PM**
 12. Address of the Employer: Registrar ,Sardar Patel University ,Vallabh vidyanagar
 13. Deleted
 14. The bid should be submitted latest by as stated on [Cl. 20.1 & 20.2]
online NIT
 15. The bid will be opened at as stated on online NIT [Cl. 23.1]
 16. The Bank Draft in favor of .Registrar ,Sardar Patel University ,Vallabh vidyanagar
 17. Deleted
 18. Escalation factors (for the cost of works [Cl.4.5.2]
executed and financial figure to a common base value) for
works completed

<u>Year</u>	<u>Financial Year</u>	<u>Multiplying factor</u>
Base year of inviting tender	2025-2026	1.00
-1	2024-2025	1.10
-2	2023-2024	1.21
-3	2022-2023	1.33
-4	2021-2022	1.46
-5	2020-2021	1.61

#LIST OF KEY PLANT & EQUIPMENT TO BE DEPLOYED ON CONTRACT WORK

[Reference CL. 4.5.5]

The contractors shall also give a list of machineries in his possession and which they propose to use on the work.

[illegible]

List of Key Personnel to be deployed on Contract Work

(Reference Cl. 4.5.4)

Employment of a qualified site Engineer by the Contractor.

The Contractor shall employ full-time technically qualified staff during the execution of this work as under: -

1. Two graduate Civil Engineers and three diploma Civil Engineers when cost of the work to be executed is more than Rs.50lakhs.
2. One graduate & two Diploma, Civil Engineers when the cost of the work to be executed is more than Rs.15 lakhs but less than Rs.50lakhs.
3. Minimum one Diploma Civil Engineer when the cost of work is less than Rs.15 lakhs but more than Rs.5lakhs.
4. Minimum two Diploma Civil Engineers for the work when the cost of work to be executed is less than Rs. 5 lakhs. The Engineer so employed for the Government work must have sufficient experience to handle the work independently. Such an Engineer shall have to stay at the site of work and he shall not be entrusted with other duty except this work.

In case the contractor or partner of the contractor firm is a Civil Graduate Engineer, Employment of a separate Engineer will not be necessary provided that the Engineer partner himself attends the execution of the work on the site.

Within 15 days of issue of work-order the Contractor will have to furnish to the Deputy Executive Engineer-in-charge of the work the Name, Qualifications, copy of mark sheet, Colour Photograph and the appointment order issued such engineers engaged for this contract work. If 15 days after issue of work order such designated Site Engineers do not resume or do not remain present on site of work, the recovery at the rate of Rs.15,000.00 per month per Engineer will be made from the bills/deposit/dues of the contractor. Such recovery shall be non-refundable.

5. The contractor shall employ one diploma Electrical Engineer on duty execution of Electrification work in said project without fail.
6. The Vendor who is executing Electrification Work will have to submit Electrical Contractors license as a part of work execution and the technician who are into execute the work will have to submit the Electrical Wirmmare's Certificate.

SECTION - 2

QUALIFICATION INFORMATION

QUALIFICATION INFORMATION

The information to be filled in by the Bidder in the following pages will be used for the purpose of post qualification as provided for in Clause 4 of the Instruction to Bidders. This information will not be incorporated in the Contract.

1. For Individual Bidders

1.1 Constitution or legal status of Bidder (AttachCopy)

Place of registration _____

Principal place of business _____

Power of attorney of signatory of Bid
(Attach)

1.2 Total value of Civil engineering constructions 2025- 2026
Work performed in the last five years 20 20 (inRs.
Lakhs) 2020
20__20__
20__20__

1.3.1 Work performed as prime contractor, work performed in the past as a nominated sub-contractor will also be considered the sub-contract involved execution of all main items of work described in the bid documents, provided further that all other qualification criteria are satisfied (in the same name) on works of a similar nature over the last five years** and in current year before the submission of the bid.

Project Name	Name of the Employer	Description of work	Contract No.	Value of contract (Rs. Crore)	Date of issue of work order	Stipulated period of completion	Actual date of completion*	Remark explaining reasons for delay & work Completed

*Attach certificate(s) from the Engineer(s) in-charge

** Immediately preceding the financial year in which bids are received.

#1.3.2 Quantities of work executed as prime contractor, work performed, in the past as a nominated sub-contractor, will also be considered provided the sub-contract involved execution of all main items of work described in the bid document, provided, further that all other qualification criteria are called (in the same name and style) in the last five years** and in current year before the submission of the bid.

Year	Name of the work	Name of the Employer	Quantity of work performed (Cum/MT)				Remarks* (indicate contract Ref)
			Cement Concrete (Including RCC & PCC)	Masonry	Earth Works	Bituminous Work	
2023-24							
2022-23							
2021-22							
2020-21							
2019-20							

1.4 Information on Bid Capacity (works for which bids have been submitted and works which are yet to be completed) as on the date of this bid.

(A) Existing commitments and on-going works:

Description of works	Place & State	Contract No.	Name & Address of Employer	Value Contract (Rs. Cr)	Stipulated Period of Completion	Value of Works* remaining to be completed (Rs. Cr)	Anticipated of completion
1	2	3	4	5	6	7	8

*Attach certificate (s) from the Engineer(s) in-charge

** Immediately preceding the financial year in which bids are received.

1.5 Availability of key items of Contractors Equipment for carrying out the works (Ref. Clause 4.5.5). The Bidder should list all the information requested below.

Item of Equipment	Requirement		Availability Proposals			Remarks (from whom to be purchased)
	NO	Capacity	Owned/ Leased to be procured	Nos/. Capacity	Age/ Conditions	

- 1.6 Qualifications and experience of key personnel required for administration and execution of the contract. Attach biographical data. Refer also to Sub Clause 9.1 of the Conditions of Contract.

Position	Name	Qualification	Year of Experience (General)	Year of experience in the proposed position
Project Manager				
Etc.				

- 1.7 Proposed sub-contract and firms involved

Sections of the works	Value of Sub-Contractor	Sub-Contractor (Name& Address)	Experience in similar work

Attach copies of certificates on possession of valid license for executing water supply/ sanitary work/ building electrification works.

- 1.8 Financial reports for the last five years: balance sheets, profit and loss statements, auditors' reports (in case of companies/corporations), etc. List them below and attach copies.
- 1.9 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List them below and attach copied documents.
- 1.10 Name, address, and telephone, telex, and fax numbers of the Bidders bankers who may provide references if contacted by the Employer.
- 1.11 Information on Litigation history in which the Bidder is involved.

Other Party (ies)	Employer	Cause of Dispute	Amount Involved	Remarks showing Present Status

- 1.12. Statement of compliance under the requirements of Sub Clause 3.2 of the instruction to Bidders. (Name of Consultant engaged for project preparation is*)

- 1.13 Proposed work method and schedule. The Bidder should attach descriptions, drawings and charts as necessary to comply with the requirements of the Bidding documents. (Refer ITB Clause 4.1)
- 1.14 Programme

2. Deleted

3. Additional Requirements

- 3.1 Bidders should provide any additional information required to fulfill the requirements of Clause 4 of the Instructions to the Bidders, if applicable.

- (i) Affidavit
- (ii) Undertaking

* Fill the name of consultant

**SAMPLE FORMAT FOR EVIDENCE OF ACCESS TO OR
AVAILABILITY OF CREDIT FACILITIES**

(CLAUSE 4.5.6 OF ITB)

BANK CERTIFICATE

This is to certify that M/s. _____ is a reputed company with a good financial standing.

If the contract for the work, namely _____ is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. _____ to meet their working capital requirements for executing the above during the contract period.

(Signature)

Name of Bank

Senior Bank Manager

Address of the Bank

AFFIDAVIT

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s. _____ have not abandoned any work of Government of Gujarat/Government of India/any Board or Corporation under Government of Gujarat/Government of India nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.
3. The undersigned hereby authorize(s) and request (s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding any (our) competence and general reputation.
4. The Undersigned understands and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department/ Project implementing agency.

(Signed by an Authorized Officer of the Firm)

Title of Officer

Name of Firm

Date

UNDERTAKING

I, the undersigned do hereby undertake.....that our firm M/s
.....would invest a minimum cash
up to 25% of the value of the work during implementation of the contract.

(Signed by an Authorized officer of the firm)

Title of officer

Name of firm

DATE

SECTION - 3

CONDITIONS OF CONTRACT

Conditions of Contract

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CONDITIONS OF CONTRACT

A. GENERAL.

1. Definitions

- 1.1 Terms which are defined in the Contract Data are not also defined in the Conditions of Contract but keep their defined meaning.

Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid

Compensation Events are those defined in Clause 44 hereunder

The **Completion Date** is the date of completion of the Works as certified by the Engineer in accordance with Sub Clause 55.1

The Contract is the contract between the Employer and Contractor to execute, complete and maintain the Works **till the completion of Defects Liability Period**. It consists of the documents listed in Clause 2.3 below.

The **Contract data** defines the documents and other information which comprise the Contract.

The **Contractor** is a person or corporate body whose Bid to carry out the Work has been accepted by the Employer.

The **Contractor's Bid** is the completed Bidding document submitted by the Contractor to the Employer and includes Technical and Financial Bids.

The **Contract Price** is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

Days are calendar days; **months** are calendar months.

The **Defects Liability Period** is the period named in the Contract Data and calculated from the Completion Date.

The **Employer** is the party who will employ the Contractor to carry out the Works.

The Engineer is the person named in the Contract Data (or any other competent person appointed and notified to the contractor to act in replacement of the Engineer) who is responsible for supervising the Contractor, administering the Contract, certifying payments due to the Contractor, issuing and valuing Variations to the Contract, awarding extensions of time, and valuing the Compensations Events.

Equipment is Contractor's machinery and vehicles brought temporarily to the site to construct the Works.

The **Initial Contract Price** is the Contract Price listed in the Employer's Letter of Acceptance.

The **Intended Completion Date** is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time.

Materials are all supplies, including consumables, used by the contractor for incorporation in the works.

Plant is any integral part of the work which is to have mechanical, electrical, electronic or chemical or biological functions.

The **Site** is the area defined as such in the Contract Data.

Site Investigation Reports are those which were included in the Bidding documents and are factual interpretive reports about the surface and subsurface conditions at the site.

Specifications means the Specifications of the works included in the Contract and any modification or addition made or approved by the Engineer.

The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the works. It does not necessarily coincide with any of the Site Possession Dates.

A **Subcontractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract which includes work on the Site.

Temporary Works are works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.

A **Variation** is an instruction given by the Engineer, which varies the Works.

The **Works** are what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the Contract Data.

2. Interpretation

- 2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter and the other way around. Heading have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about Conditions of Contract.
- 2.2 If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion date, and Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion date for the whole works)
- 2.3 The documents forming the Contract shall be interpreted in the following order of priority
 - (1) Agreement
 - (2) Letter of Acceptance, notice to proceed with works
 - (3) Contractor's Bid

- (4) Contract Data
- (5) Conditions of Contract including Conditions of Contract
- (6) Specifications
- (7) Drawings
- (8) Bills of quantities and
- (9) Any other document listed in the Contract Data as forming part of the Contract.

3. Language and Law

- 3.1 The language of the Contract and the law governing the Contract are stated in the Contract Data.

4. Engineers Decisions

- 4.1 Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

5. Delegation

- 5.1 The Engineer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

6. Communications

- 6.1 Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

7. Sub-Contracting

- 7.1 The Contractor may subcontract any portion of work, up to a limit specified in contract data, with the approval of the engineer but may not assign the Contract without the approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations. **Sub-contracting of supply or specific items of work is not allowed.**
- 7.2 The sub-contractor must be registered in appropriate class and category for the part of work to be subcontracted.

8. Other Contractors

- 8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities and the Employer between the dates given in the Schedule of another Contractor. The Contractors shall as refer to in the Contract Data, also provide facilities and services for them as described in the Schedule. The employer may modify the schedule of other contractors and shall notify the contractor of any such modifications.

9. Personnel

- 9.1 The Contractor shall employ the key personnel named in the Schedule of Key Personnel as referred to in the Contract Data to carry out the functions stated in the Schedule or other personnel approved by the Engineer. The Engineer will approve any proposed replacement of key personnel only if their qualifications, abilities, and relevant experience are substantially equal to or better than those of the personnel listed in the Schedule.
- 9.2 If the engineer asks the Contractor to remove a person who is a member of the Contractor Staff or his work force stating the reasons the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

10. Employer's and Contractors Risks

- 10.1 The Employer carries the risk which these Contract states are Employer's risks, and the Contractor carries the risks which these Contracts states are Contractor's risk.

11. Employer's Risks

- 11.1 The employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works, the risks of war, hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot commotion or disorder (unless restricted to the Contractor's employees), and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive.

12. Contractor's Risks

- 12.1 All risks of loss of or damages to physical property and of personal injury and death which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

13. Insurance

- 13.1 The Contractor shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start date to the end of the Defects Liability Period, in the amounts and deductibles stated in the Contract data for the following events which are due to the Contractor's risks:
- (a) Loss of or damage to the works, Plant and materials,
 - (b) Loss of or damage to Equipment
 - (c) Loss of or damages of property (except the Works, Plant, Materials and Equipment) in connection with the Contract; and
 - (d) Personal injury or death.
- 13.2 Policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

133 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.

134 Alterations to the terms of an insurance shall not be made without the approval of the Engineer.

135 Both parties shall comply with any conditions of the insurance policies.

14. Site Investigation Report

14.1 The Contractor in preparing the Bid shall rely on any site Investigation reports referred to in the Contract Data, supplemented by any information available to the Bidder.

15. Queries about the Contract data

15.1 The engineer will clarify queries on the Contract Data

16. Contractor to Construct the Works

16.1 The Contractor shall construct and install the works in accordance with the specification and Drawings.

17. The Works to be completed by the Intended Completion Date

17.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion date

18. Approval by the Engineer

18.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary works to the Engineer, who is to approve them if they comply with the Specifications and drawings.

18.2 The Contractor shall be responsible for design of temporary works.

18.3 The Engineer's approval shall not alter the contractor responsibility for design of the Temporary works.

18.4 The Contractor shall obtain approval of third parties to the design of the Temporary works where required.

18.5 All Drawings prepared by the Contractors for the execution of the temporary or permanent work are subject to prior approval by the Engineer before their use.

19. Safety

19.1 The Contractor shall be responsible for the safety of all activities on the Site.

20. Discoveries

- 20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the site is the property of the Employer. The contractor is to notify the engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

21. Possession of the Site

- 21.1 The Employer shall give possession of all parts of the site to the Contractor. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be a Compensation Event.
- 21.2 If within 25% of the time limit of the project, 80% of possession of the site is not handed over to the Contractor, then contractor/ Employer may fore-close the contract. Contractor/Employer has to foreclose the work within 30 days after lapse of 25%-time limit and after 30 days foreclosure option will be closed.

22. Access to the Site

- 22.1 The Contractor shall allow the Engineer and any person authorized by the Engineer access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plants are being manufactured/ fabricated/ assembled for the works.

23. Instructions

- 23.1 The Contractor shall carry out all instructions of the Engineer pertaining to works which comply with the applicable laws where the site is located.
- 23.2 The Contractor shall permit the Employer to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Employer, if so, required by the Employer.

24. Disputes

- 24.1 If the Contractor is of the view that a decision taken by the Engineer was either outside the authority given to the Engineer by the Contract or that the decision was wrongly taken, the decision shall be referred to **registrar ,Sardar patel university**, (Higher Authority) within 14 days of the notification of the Engineer's decision. If the issue is not resolved, any party can refer the matter for conciliation within 15 days from the decision given by the registrar
- 24.2
- (a) For the work up to Rs.100 Cr., if any of the parties is not satisfied with the decision of the **registrar ,Sardar patel university** both the parties have to refer to the honourable **vice chancellor ,saradar patel university** concern for the conciliation process.
 - (b) For the work more than Rs.100 Cr., if any of the parties is not satisfied with the decision of the **registrar ,Sardar patel university** both the parties have to refer to the **Executive council ,sardar patel university** for the conciliation process.

If the dispute is not resolved through the conciliation process, he may refer the dispute to Gujarat Public Works Contract Dispute Arbitration Tribunal. If the Contractor fails to refer a claim / dispute to the Higher Authority within 14 days of the notification of the Engineer's decision, the Contractor shall not be entitled to any additional payment/claim if he doesn't follow the above sequence in stipulated time and he should not stop the work.

25. Procedure for Disputes

- 25.1 The arbitration shall be conducted in accordance with the arbitration procedure stated in the Special Conditions of Contract.

26. Deleted

B. TIMECONTROL

27. Programme

- 27.1 Within the time stated in the Contract Data the Contractor shall submit to the Engineer for approval a Programme showing the general methods, arrangements orders, and timing for all the activities in the works along with monthly cash flow forecast.
- 27.2 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work including any changes to the sequence of the activities.
- 27.3 The Contractor shall submit to the Engineer, for approval an updated programme at intervals no longer than the period stated in the Contract data. If the Contractor does not submit an updated programme within this period, the Engineer may withhold the amount stated in the Contract data from the next payment after the date on which the overdue programme has been submitted.
- 27.4 The Engineer's approval of the programme shall not alter the Contractor's obligations. The Contractor may revise the programme and submit it to the Engineer again at any time. A revised programme is to show the effect of Variations and Compensations events.

28. Extension of the Intended Completion Date

- 28.1 The Engineer shall extend the Intended Completion Date if a compensation Event occurs or a Variation is issued which makes it impossible for completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining work and which would cause the Contractor to incur additional cost.
- 28.2 The Engineer shall decide whether and by how much to extend the Intended Completion Date within 35 days of the Contractor asking the Engineer for a decision upon the effect of a compensation event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new Intended Completion Date.
- 28.3 The Engineer shall within 14 days of receiving full justification from the contractor for extension of Intended Completion Date refer to the Employer his decision. The employer shall in not more than 21 days communicate to the engineer the acceptance or otherwise of the Engineer's decision. If the employer fails to give his acceptance, the Engineer shall not grant the extension and the contractor may refer the matter under Clause 24.1

29. Deleted

30. Delays Ordered by the Engineer

- 30.1 The Engineer may instruct the Contractor to delay the start or progress of any activity within the works.

31. Management Meetings

- 31.1 Either the Engineer or the Contractor may require the other to attend a management meeting. The business of a management meeting shall be to review the plans for remaining work and to deal with matters raised in accordance with the early warning procedure.
- 31.2 The Engineer shall record the business of management meetings and is to provide copies of his record to those attending the meeting and to the Employer. The responsibility of the parties for actions to be taken is to be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all who attended the meeting.

32. Early Warning

- 32.1 The Contractor is to warn the Engineer at the earliest opportunity of specific likely future events or circumstances that may adversely affect the quality of the work, increase the Contract price or delay the execution of works. The Engineer may require the contractor to provide an estimate of the expected effect of the future event or circumstance on the contract price and completion date. The estimate is to be provided by the Contractor as soon as reasonably possible.
- 32.2 The Contractor shall cooperate with the Engineer in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced by anyone involved in the work and in carrying out any resulting instruction of the Engineer.

C. QUALITYCONTROL

#33. Identifying Defects/ Defect liability period

33.1 : Defect liability period: The contractor shall be responsible to make good and remedy at his own expense any defect which may develop or may be noticed before the period mentioned hereunder from the certified date of completion. The Engineer in charge shall give the contractor a notice in writing about the defects and the contractor shall make good the same within 15 days of receipt of the notice. In the case of failure on the part of the contractor, the Engineer-in-charge may rectify or remove or re-execute the work at the risk & cost of the contractor. The Engineer-in-charge shall be entitled to appropriate the whole or any part of the amount of security deposit towards the expenses, if any, Incurred by him in rectification, removal or re-execution. The Defects Liability period shall be asunder....

- (a) For all works costing up to Rs. 50,000 (amount put to tender), the period shall be 3 Months from the certified date of completion.
- (b) For all works costing more than Rs. 50,000 and up to Rs. 1 crore (amount put tender), the period shall be 12 (Twelve) months from the certified date of completion or one monsoon, whichever is later.
- (c) For major projects costing more than Rs. 1 crore, the period shall be 36 Months from the certified date of completion which should include three monsoons.
- (d) For original building works the defect liability period will be 4 years or elapse of 4 monsoon period following date of possession of building taken over by user agency following the certified date of completion, whichever is later. For the purpose of deciding the monsoon period, the 30th September shall be treated as the last date.

Modified vide R & B D Circular No. PAC - 11 - 102008 - 2076-N, dated: 31/8/2009, PRCH/102013(2976) 2759-N, dated: 27/05/2013 and Circular No.TNC/10/2016/Clause 17A (Correction/(1)C Dated: 12/05/2016]

33.2 Free maintenance guarantee period for works of Road/Bridge construction

- (a) For resurfacing work of road free maintenance guarantee period one year from the date of completion.
- (b) In case of widening of the road/strengthening of the road/bridge, the contractor shall have to give four years free maintenance guarantee from the certified date of completion. During this period the contractor shall visit the site every six months along with the concerned Section Officer / Deputy Executive Engineer and will examine the work already carried out in this contract like road work, jungle cutting, side shoulders, side gutter, road furniture, patta etc. and will prepare Km. wise inspection report duly signed by all concerned and any defect observed shall be done within 15 days by the contractor at his risk and cost as per the direction of Engineer in charge. The contractor needs to do videography of these visits and require to submit at the time of release of FMG. If B.T. the surface during the maintenance period of 4 years is worn out then agency shall have to provide renewal coating as per tender item as directed by the Engineer-in-charge. The amount equivalent to 5% of each running bill shall be withheld and will be released after the free maintenance guarantee period (i.e. 4 years) is over.

However, this amount shall be released against fixed deposit or bank guarantee pledged in the name of Executive Engineer after completion certificate of work is issued.

(1) The flakiness and elongation index (combined) for coarse aggregates under no circumstances shall exceed the allowable limit set forth in the relevant clause for the material in question.

(2) 2% of the amount eligible for the payment of bituminous items shall be withheld till the miscellaneous items like earthwork in embankment / cutting for side shoulders, side gutters, kilometer / indicator / guard stones, sign boards etc. are completed in all respect by the contractor. After completion of the miscellaneous items, the above said 2% withheld amount shall be released.

(Govt. of Gujarat's G.R. No.: TNC-10-2013-3(Part-3)/C, Dtd. 13/12/2013).

(3) Videography for the surface under Maintenance Guarantee is to be done as per Govt. letter No.: SSR/10/2015-16/26/C, Dtd. 26/11/15 for the work costing more than Rs. 5.00Crore.

(4) Setting up of adequate laboratory & deployment of quality engineers.

The contractor shall have to set up the laboratory with adequate equipment. Till the setting up of adequate laboratory is completed & reported of this to the engineer (subject to due verification by engineer's representative) by contractor in writing, Rs.2,00,000/- shall be withheld. The qualified quality Engineer shall be deployed exclusively for this contract by the contractors. If quality Engineer is not deployed by contractor within one month after the date of work order, the amount equivalent to Rs.20,000/- per month shall be recovered till the actual deployment of quality engineer. The amount so recovered towards the deployment of quality engineers shall not be refunded.

(5) Asphalt work will have to be cross checked as per G.R. No.: RGN/60/2006/35/C, dated: 31/05/07 before final bill is paid.

(6) Maintenance during Construction Period

During the Construction Period, the Contractor shall maintain, at his own risk and cost, the existing lane(s) of the road so that the traffic worthiness and safety thereof are at no time materially inferior as compared to their condition 10 (ten) days prior to the date of the Agreement, and shall undertake the necessary repair and maintenance works for this purpose; provided that the Contractor may, at his cost, interrupt and divert the flow of traffic if such interruption and diversion is necessary for the efficient progress of works and conforms to Good Industry Practice; provided

further that such interruption and diversion shall be undertaken by the Contractor only with the prior written approval of the Executive Engineer which approval shall not be unreasonably withheld. For the avoidance of doubt, it is agreed that the Contractor shall at all times be responsible for ensuring safe operation of the road.

- 33.3 The Engineer shall check the Contractor's work and notify the Contractor of any defects that are found. Such checking shall not affect the Contractor's responsibilities the Engineer may instruct the Contractor to search for a Defect and to uncover and test any work that the Engineer considers may have a Defect.

34. Tests

- 34.1 If the engineer instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect the test shall be a Compensation Event.
- 34.2 1% of the amount of **work done** should be deducted from R.A. Bill of the contractor for testing the quality of material workmanship, irrespective of actual charges.
- 34.3 Agency has to establish testing laboratory on site for the various test to be carried out in the work for this purpose agency shall construct a pukka laboratory building with all facility on site at location specified by the engineer in charge.

35. Correction of defects

- 35.1 The engineer shall give notice to the Contractor of any defects before the end of the defects Liability Period, which begins at Completion and is defined in the contract data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 35.2 Every time notice of a Defect is given; the Contractor shall correct the notified defect within the length of time specified by the Engineer's notice.

36. Uncorrected Defects

- 36.1 If the Contractor has not corrected a defect within the time specified in the Engineer's notice, the Engineer will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

D. COST CONTROL

37. Bill of Quantities

- 37.1 The bill of Quantities shall contain items for the constructions, installation, testing and commissioning work to be done by the Contractor.
- 37.2 The bill of Quantities is used to calculate the Contract price. The Contractor is paid for the quantity of the work done at the rate in the Bill of Quantities for each item.

38. Change in the Quantities

- 38.1 The Engineer shall have power to make any alterations in or addition to the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the work and the contractor shall be bound to carry out the work in accordance with any instruction in this connection which may be given to him in writing signed by the Engineer and such alteration shall not invalidate the contract and any additional work which the contractor may be directed to do in the manner above specified as part of the work shall be carried out by the contractor on the same conditions in all respects on which he agreed to do the main work and at the same rate as are specified in the tender for the main work.

Except that when the quantity of any item exceeds the quantity as in the tender by more than 130%, the contractor will be paid for the quantity in excess of 130%, at the rate entered in the SOR of the year during which the excess in quantity is first executed.

39. Variations

- 39.1 All Variations shall be included in updated programmes produced by the Contractor.

40. Payments for Variations

- 40.1 If the additional or altered work includes any class of work for which no rate is specified in this contract, then such class of work shall be carried out as under.

- (i) At the rate derived from the item within the contract which is comparable to the one involving additional or altered class of work; where there is more than one comparable item, the item of the contract which is nearest in comparison with regard to class or classes of the work involved shall be selected and the decision of the Superintending Engineer as to the nearest comparable item shall be final and binding on the contractor.
- (ii) If the rate cannot be derived in accordance with (i) above, such class of works shall be carried out at the rate entered in the Schedule of Rates of the division

for the year in which the tender was received, increased or decreased by the percentage by which the tender amount is more or less as compared to the amount arrived at the rates in the "Schedule of Rates" of the Division in the year in which the tender was received. If the Schedule of rates of the Division does not contain all the items, the percentage increase or decrease of the tender shall be calculated considering such items which were included in the "Scheduled Rates" of the division for the year and for materials consumed on such item the rate to be charged would be the basic rate taken into account for fixing the rate in S.O.R. referred to above.

- (iii) If it is not possible to arrive at the rate from (i) and (ii) above, such class of work shall be carried out at the rate decided by the competent authorities on the basis of detailed rate analysis after hearing the contractor before a Committee of two Superintending Engineers stationed at the same place or the nearest place.
- 402 If the additional or altered work, for which no rate is entered in the "Schedule of Rates" of the Division is ordered to be carried out before the rate is agreed upon, then the contractor shall within seven days of the date of receipt by him of the order to carry out the work, inform the Engineer-in-charge of the rate, which it is his intention to charge for such class of work and if the Engineer in charge does not agree to this rates, he shall by notice in writing be at liberty to cancel his order to carry out such class of work and arrange to carry it out in such manner as he may consider it advisable, provided always that if the contractor shall commence work or incur any expenditure in regard thereof before the rates shall have been determined as lastly herein before mentioned, then in such cases he shall only be entitled to be paid in respect of the work carried out or expenditure incurred by him prior to the date of the determination of the rate as aforesaid according to such rate or rates as shall be fixed by the Engineer-in-charge. In the event of the dispute, the decision of the Superintending Engineer of the Circle shall be final.

Where, however, the work is to be executed according to the designs, drawings and specifications recommended by the contractor and accepted by the competent authority, the alternation above referred to shall be within the scope of such designs, drawings and specifications appended to the tenders.

The time limit for the completion of the work shall be extended in the proportion that the increase in the cost occasioned by alterations bears to the cost of the original work and the certificate of the Engineer-in-charge as to such proportion shall be final and conclusive.

41. Cash Flow Forecasts

- 41.1 When the programme is updated, the contractor is to provide the engineer with an updated cash flow forecast.

42. Payment certificates.

- 421 The Contractor shall submit to the Engineer monthly statements of the estimated value of the work completed less the cumulative amount certified previously.
- 422 The Engineer shall check the Contractor's monthly statement within 14 days and certify the amount to be paid to the Contractor after taking in to account any credit or debit for the month in question in respect of materials for the works in the relevant amounts and under conditions set forth in sub-clause 32.3 of the Contract Data (secured Advance).
- 423 The value of work executed shall be determined by the Engineer.
- 424 The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 425 The value of work executed shall include the valuation of variations and compensation events.
- 426 The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information

43. Payments

- 431 Payments shall be adjusted for deductions for advance payments, retention, other recoveries in terms of the contract and taxes at source, as applicable under the law. The Employer shall pay the Contractor the amounts certified by the Engineer within 28 days of the date of each certificate.
- 432 Payment of GST (prevailing rates) on the amount payable under the contract to the Contractor will be made by the Employer. Hence, it is the responsibility of the contractor to pay the GST to the concerned Authority.
- 433 Items of the works for which no rate or price has been entered in will not be paid by the Employer and shall be deemed covered by other rates and prices in the Contract.

44. Compensation events

- 441 The following are compensation Events unless they are caused by the Contractor:
 - (a) The Employer does not give access to a part of the Site by the site Possession date stated in Contract data to the Contractor
- 442 In case of compensation event occurs and it prevents the work being completed beyond the Intended Completion Date then Authority will approve EOT with eligible contractual price escalation.

45. Tax

- 45.1 The rates quoted by the Contractor must be inclusive of all taxes prevailing on due date of bid submission except GST. However, any subsequent changes in the tax structure by Government after due date of bid submission will be compensated (+/-) on availability or submission of actual documentation. Contractor will have to intimate Engineer regarding changes occurred in the tax structure after bid submission. If the contractor fails to provide such information and if any financial obligation may arise due to change in tax structure, same will be recovered from the contractor.
- 45.2 GST will be paid separately on the bills. Hence, it is the responsibility of the contractor to pay the GST to the concerned Authority.

46. Currencies.

- 46.1 All payment shall be made in Indian Rupees.

47. Price Adjustment

- 47.1 Contract price shall be adjusted for increase or decrease in rates and price of labour, materials, fuels and lubricants in accordance with the following principles and procedures and as per formula given in the contract data:
- (a) The price adjustment shall apply for the work done from the start date given in the contract data up to end of the initial intended completion date or extensions granted by the Engineer and shall not apply to the work carried out beyond the stipulated time for reasons attributable to the contractor.
 - (b) The price adjustment shall be determined during each month from the formula given in the contract data.
 - (c) Following expressions and meanings during to the work done during each month
R = Total value of work done during the month. It would include the amount of secured advance granted, if any, during the month less the amount of secured advance recovered, if any during the month. It will exclude value for works executed under variations for which price adjustment will be worked separately based on the terms mutually agreed.
- 47.2 To the extent that full compensation for any rise or fall in costs to the contractor is not covered by the provisions of this or other clause in the contract, the unit rates and prices included in the contract shall be deemed to include amounts to cover the contingency of such other rise or fall in costs.

48. Retention

- 48.1 The Employer shall retain from each payment due to Contractor the proportion stated in the Contract Data until Completion of the whole of the Works.

- 482 On Completion of the whole of the Works half the total amount retained is repaid to the Contractor and half when the Defects Liability Period has passed and the Engineer has certified that all Defects notified by the Engineer to the Contractor before the end of this period have been corrected.
- 483 On completion of the whole works, the contractor may substitute retention money with an “on demand” Bank guarantee.

In case, Contractor requests for refund of the Retention Money deducted by the Employer under the provision of this clause, Employer shall consider the said request of the Contractor provided that the refund hereunder shall be made in tranches of not less than 1% (One Percent) of the Contract Price and Contractor furnishes an irrevocable and unconditional Bank guarantee for an equal amount substantially in the format of Bank Guarantee for Performance Guarantee enclosed with SBD and valid up to 60 day beyond the scheduled / extended Defects Liability Period. On completion of the whole works, the contractor has however an option to submit a fresh irrevocable and unconditional Bank Guarantee for an amount equal to 5% of the total value of work executed substantially in the format of Bank Guarantee for Performance Guarantee enclosed with SBD and valid up to 60 days beyond the Defect Liability Period and yet refund the Retention Money Bank Guarantee submitted for refund of Retention Money.

49. Liquidated Damages

- 491 The Contractor shall pay liquidated damages to the Employer at the rate per day stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date (for the whole works or the milestone as stated in the contract data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payment due to the Contractor. Payment of liquidated damages does not affect the Contractor’s liabilities.
- 492 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate. The Contractor shall not be entitled for any interest on the over payment calculated from the date of payment to the date of repayment.
- 493 If the contractor fails to comply with the time for completion as stipulated in the tender, then the contractor shall pay to the employer the relevant sum stated in the Contract Data as Liquidated damages for such default and not as penalty for everyday or part of day which shall elapse between relevant time for completion and the date stated in the taking over certificate of the whole of the works on the relevant section, subject to the limit stated in the contract data.
- The employer may, without prejudice to any other method of recovery deduct the amount of such damages from any monies due or to become due to the contractor. The payment or deduction of such damages shall not relieve

the contractor from his obligation to complete the works on from any other of his obligations and liabilities under the contract.

- 494 If, before the Time for Completion of the whole of the Works or, if applicable any Section, a Taking Over Certificate has been issued for any part of the Works or of a Section, the liquidated damages for delay in completion of the remainder of the Works or of that Section shall, for any period of delay after the date stated in such Taking-Over-Certificate, and in the absence of alternative provisions in the Contract, be reduced in the proportion which the value of the part so certified bears to the value of the whole of the Works or Section, as applicable. The provisions of this Sub-clause shall only apply to the rate of liquidated damages and shall not affect the limit theorem.

50 Bonus

- 501 If the contractor achieves completion of the whole of the works prior to the intended Completion Date prescribed in Contract Data the Employer shall pay to the contractor a sum stated in Contract Data as bonus for every completed month **but subjected to maximum amount as stated in Contract Data**; which shall elapse between the date of completion of all items of works as stipulated in the contract, including variations ordered by the Engineer and the time prescribed in Clause-17.
- 502 Bonus shall be paid only to works amounting to above INR 5 crore with time limit of the works is equal or more than 6 months. The bonus would be paid asunder

% of Time Saved	% of Initial Contract Price entitled for Bonus
50 %	5%
40 %	4%
30 %	3%
20 %	2%
10 %	1%
Less than 10%	0%

51. Advance Payment.

- 51.1 The Employer shall make advance payment (not to be paid less than two installments except in special circumstances for which the reason to be Recorded in writing) to the Contractor of the amounts stated in the Contract Date by the date stated in the Contract Date, against provision by the Contactor of an Unconditional Bank Guarantee in a form and by a bank acceptable to the Employer in amounts and currencies equal to be at least 110%oftheadvancepayment.Theguaranteeshallremaineffectiveuntilthe

advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. The Mobilization advance would be deemed as interest bearing advance at an interest rate of 10 % to be compounded, quarterly.

512 The Contractor is to use the advance payment only to pay for Equipment, plant and Mobilization expenses required specifically for execution of the Works. The Contractor shall demonstrate that advance payment has been used in this way by supplying copies of invoices or other documents to the engineer.

513 The advance payment shall be repaid by deduction proportionate amount from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works on a payment basis. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, variations, price adjustments, Compensation Events, or Liquidated damages.

514 Deleted

52. Securities

521 The performance Security (including additional security for unbalanced bids) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer, and denominated in Indian Rupees. The performance Security shall be valid until a date 60 days from the date of expiry of Defects Liability Period and the additional security for unbalanced bids shall be valid until a date 28 days from the date of issue of the certificate of completion.

53. Deleted

54. Cost of Repairs.

541 Loss or damage to the Works or Materials to be incorporated in the Works between the Start date and the end of Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damages arises from the Contractor's acts or omissions.

E. FINISHING THE CONTRACT

55. Completion

- 55.1 The Contractor shall request the Engineer to issue a Certificate of Completion of the works and the Engineer will do so upon deciding that the work is completed.

56. Taking Over

- 56.1 The Employer shall take over the Site and the Works within seven days of the Engineer issuing a certificate of Completion.

57. Final Account

- 57.1 The Contractor shall supply to the Engineer a detailed final account of the total amount that the Contractor considers payable as full and final settlement of all claims under the Contract for items before the end of the Defects Liability Period. The Engineer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate, within 56 days of receiving the Contractor's revised account.
- 57.2 If reversal in characteristic of tender (L1 becoming L2) on account of excesses and savings in final account is observed, the Engineer/Employer shall be at liberty to restrict the final payment of BOQ items to the lowest amount evaluated of the bids considering the final quantities and the rates quoted including the rebates if any. Payment of variation items shall however be made at the rates approved by the Employer, within 90 days from the physical completion of work.

58. Operating and Maintenance Manuals

- 58.1 If "as built" drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract data.
- 58.2 If the Contractor does not supply the Drawings and/or manuals by the dates stated in the Contract data, or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

59. Termination

- 59.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract.

592 Fundamental breaches of Contract include, but shall not be limited to the following:

1. The contractor stops work for 28 days when no stoppage of work is shown on the current programme and the stoppage has not been authorized by the Engineer
2. The Engineer instructs the Contractor to delay the progress of the Works and the instructions is not withdrawn within 28days;
3. The Employer or the Contractor is made bankrupt or goes into liquidation other than for a reconstructions or amalgamation
4. A payment certified by the Engineer is not paid by the Employer to the Contractor within 56 days of the date of the Engineer's certificate
5. The Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
6. The Contractor does not maintain a security which is required;
7. The Contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined in the Contract data; and
8. If the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

For the purpose of this paragraph: "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution. "Fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.

593 When either party to the Contract gives notice of a breach of contract to the Engineer for a cause other than those listed under Sub Clause 59.2 above, the Engineer shall decide whether the breach is fundamental or not.

594 Notwithstanding the above, the employer may terminate the Contract for convenience.

60. Payment upon Termination

60.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a Certificate for the value of the work done less advance payments received up to the date of the issue of the

certificate, less other recoveries due in terms of the contract, less taxes due to deducted at source as per applicable law and less the percentage to apply to the work not completed as indicated in the Contract data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor the difference shall be a debt payable to the Employer.

- 602 If the Contract is terminated at the Employer's convenience or because of a fundamental breach of Contract by the Employer, the Engineer shall issue a certificate for the value of the work done, the cost of balance material brought by the contractor and available at site, the reasonable cost of removal of equipment, repatriation of the Contractor's personnel employed solely on the works, and the Contractor's cost of protecting and securing the Works and less advance payment received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to deducted at source as per applicable law.

61. Property

- 61.1 All materials on the Site, Plant Equipments, Temporary Works and Works are deemed to be property of the Employer, if the Contract is terminated because of a contractor's default.

62. Release from Performance

- 62.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of either the Employer or the Contractor the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which commitment was made.

F. SPECIAL CONDITIONS OF CONTRACT

63. LABOUR

The Contractor shall, unless otherwise provided in the Contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment of housing, feeding and transport.

The Contractor shall, if required by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the site and such other information as the Engineer may require.

64. COMPLIANCE WITH LABOUR REGULATIONS

During continuance of the contract, the Contractor and his sub-contractor shall abide at all times by all existing labour enactments and rules made the reunder, regulations, notification and bye laws of the State or central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notifications that may be issued under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to the construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made the reunder, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, the Engineer/employer shall have the right to deduct any money due to the Contractor including his amount of performance security. The Employer/Engineer shall also have the right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point to time.

SALIENT FEATURES OF SOME MAJOR LABOUR AND OTHER LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTIONS WORK

- A) **Workmen Compensation Act 1923:** - The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- B) **Payment of Gratuity Act. 1972:** - Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed 5 years' service or more on death, the rate of 15 days wages for every completed year of service. The Act is applicable to all establishments employing 10 or more employees.
- C) **Employees P.F. and Miscellaneous Provision Act 1952:** -The Act Provides for monthly contributions by the employer plus workers @ 10% or 8.33% The benefits payable under the Act are:
1. Pension or family pension on retirement or death, as the case maybe.
 2. Deposit linked insurance on the death in harness of the worker.
 3. Payment of P.F. accumulation on retirement/death etc.
- D) **Maternity Benefit Act 1951:** - The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- E) **Contract Labour (Regulation & Abolition) Act 1970:** The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer, if they employ 20 or more contract labour.
- F) **Minimum Wages Act 1948:-**The Employer is supposed to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act, if the employment is a scheduled employment. Construction of Building, Roads, Runways are scheduled employment.
- G) **Payments of wages Act 1936:** -It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- H) **Equal remunerations Act 1979:** - The Act provides for payment of equal wages for work of equal nature to Male and Female workers and for not making discrimination against female employees in the matter of transfer, training and promotion etc.
- I) **Payments of Bonus Act 1965:** - The Act is applicable to all establishments employing 20 or more employees. The Act provides for payments of annual bonus subject to a minimum of 8.33% of wages and maximum of 20 % of wages to employees drawing Rs. 3500/- per month or less. The bonus to be paid to employees getting Rs, 2500/- per month or above Rs. 3500/- per month shall be worked out by taking wages as Rs.2500/- per month only. The Act does not

apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. Some of the State Governments have reduced the employment size from 20 to 10 for the purpose of applicability of this Act.

- J) **Industrial Disputes Act 1947:** - The Act lays down the machinery and procedure for resolutions of Industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- K) **Industrial employment (standing Orders) Act 1946:** -It is applicable to all establishments employing 100 or more workmen (employment size reduced by some of the State and Central Government to 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get the same certified by the designated Authority.
- L) **Trade Unions Act 1926:** -The Act lays the procedure for registration of trade unions of workmen and employers. The Trade Unions registered under the Act have given certain immunities from civil and criminal liabilities.
- M) **Child Labour (Prohibition & Regulation Act 1986:** -The Act prohibits employment of children below 14 years of age in certain occupations and process and provides for regulation of employment of children in all other occupations and processes. Employment of Child labour is prohibited in Building and Construction Industry.
- N) **Inter – State Migrant workmen’s (Regulation of Employment & Conditions of service) Act 1979:-**The Act is applicable to an establishment which employs 5 or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state).The inter-state migrant workmen, is an establishment to which this Act becomes applicable, are required to be provided certain facilities such as housing, medical aid, traveling expenses from home upto the establishment and back, etc.
- O) **The Building and Other Construction workers (Regulation of employment and Conditions of Service) Act 1996 and the cess Act of 1996:** -All the establishments who carry on any building or other constructions work and employ 10 or more workers are covered under this Act.
All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, First Aid facilities, Ambulance, Housing accommodations for workers near the workplace etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officers appointed by the Government.

- P) **Factories Act 1948:** -The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing 10 persons or more with aid of power or 20 or more persons without the aid of power engaged in the manufacturing process.
- Q) **Royalty charges**-The contractor shall pay the royalty to the competent authority as per rule. The **royalty** charges paid shall be borne by the contractor and shall not be reimbursed by the Employer.
- R) **Following Pollution control Acts and amendments made thereof from time to time shall be applicable.**
1. Water (Preservation and control of Pollution) Act,1974
 2. Air (Prevention and Control of Pollution Act)1981
 3. Environmental (Protection) Act1986

The contractor must commit to adopting Environmental management plan for best energy use, waste management, the reduction of pollution as in EMS (Environmental Management system)ISO-14001- 2015

65. **ARBITRATION (GCC Clause24)**

The procedure for arbitration will be as follows: -

24.1 If the Contractor is of the view that a decision taken by the Engineer was either outside the authority given to the Engineer by the Contract or that the decision was wrongly taken, the decision shall be referred to **#Registrar ,Sardar patel university** (Higher Authority) within 14 days of the notification of the Engineer's decision. If the issue is not resolved, any party can refer the matter for conciliation within 15 days from the decision given by the **Registrar ,Sardar patel university**

24.2

(a) For the work up to Rs.100 Cr., if any of the parties is not satisfied with the decision of the **Registrar ,Sardar patel university**, **both the** parties have to refer to the honourable vice chancellor ,sardar patel university concerned for the conciliation process.

(b) For the work more than Rs.100 Cr., if any of the parties is not satisfied with the decision of the **Registrar ,Sardar patel university** both parties have to refer to **the Executive council ,sardar patel university for the conciliation process.**

If the dispute is not resolved through the conciliation process, contractor may refer the dispute to Gujarat Public Works Contract Dispute Arbitration Tribunal. If the Contractor fails to refer a claim / dispute to the Higher Authority within 14 days of the notification of the Engineer's decision, the Contractor shall not be entitled to any additional payment/claim if he doesn't follow the above sequence in stipulated time. However, during such period, he would not stop the work in any case.

SECTION - 4
CONTRACT DATA

#CONTRACT DATA

Clause Reference With respect to section 3

Item marked "N/A" do not apply to this Contract.

1. The Employers is [CL.1.1]
Name: **Registrar ,Sardar patel university,vallabh vidyanagar**
Address: **,Sardar patel university,vallabh viyanagar ,Anand**
Name of authorized Representative (will be intimated later)
2. The Engineer is _____
Name of Authorized Representative:
3. The Defects Liability Period is **_12 months** from the date of completion. [CL.1.1&33]
4. The Start Date shall be **1st**days for the date of issue of the Notice to proceed with the work. [CL.1.1]
5. The Intended Completion Date for the whole of the works is [CL.1.1,17&2]
03 Months after start of work with the following milestones:
Milestone dates: [CL.2.2& 49.1]
Physical works to be completed Period from the start date
Milestone1i.e. 25%_____days.
Milestone2i.e. 50%_____ days.
Milestone3i.e. 75 %_____ days.
Milestone4i.e. 100 %_____ days.
6. The Site is located at **vallabh vidyanagar** [CL.1.1]
7. The name and identification number of the Contract is: **Addition and Alteration Work Sadar Patel University Campus Building** [CL.1.1]
8. The works consist of **Building Work** with items as per B.O.Q. The works shall, inter realia, include the following, as Specified or as directed: [CL.1.1]

(A) Building works

Brick Masonary ,plaster ,flooring ,dedo,doors,ventilations ,railing all aspects of quality assurance; clearing the site and handing over the works on completion; rectification of the defects during the Defects Liability Period and submission of "As-built" drawings and other related documents; and other items of work as may be required to be carried out for completing the works in accordance with the drawings and the provisions of the contract and to ensure safety

(C) Other Items

[CL.1.1]

Any Other Items as required to fulfill all contractual obligations as per the Bid documents.

10. The following documents also form part of the Contract: [CL.2.3(9)]
_____As per clause2-3_____
11. The law which applies to the Contract is the law of Union of India [CL.3.1]
12. The language of the Contract documents is English [CL.3.1]
13. Limit of sub contracting 25% of the Initial Contract Price [CL.7.1]
14. The Schedule of Other Contractors [CL.8]
15. The Schedule of Key Personnel As per Annex – II to Section I [CL.9]
16. The minimum insurance cover for physical property, injury and death is Rs. 5 lakhs per occurrence with the number of occurrences limited to four. After each occurrence, the contractor will pay an additional premium necessary to make insurance valid for four occurrences always. [CL.13]
17. Site Investigation report [CL.14]
18. The Site Possession dates shall be **from the issue of Letter of Work order.** [CL.21]
19. The period for submission of programme for approval of the engineer shall be 21 days from the issue of Letter of Acceptance. [CL. 27.1]
20. The period between program updates will be _____days. [CL.27.3]
21. The amount to be withheld for late submission of an updated programme shall be **Rs _____lakhs** [CL. 27.3]
22. The following events shall also be Compensation Events [CL. 44]
Substantially adverse ground conditions encountered during the course of execution of work not provided for in the bidding document.
 - (i) Removal of underground utilities detected subsequently
 - (ii) Significant changes in classification of soil requiring additional mobilization by the contractor, e.g. ordinary soil to rock excavation,
 - (iii) Removal of unsuitable material like marsh, debris dumps, etc. not caused by the contractor.

- (iv) Artesian conditions
 - (v) Seepage, erosion landslide
 - (vi) River training requiring protection of permanent work
 - (vii) Presence of historical, archeological or religious structures, monuments interfering with the works
 - (viii) Restriction of access to ground imposed by civil, judicial, or military authority
23. The currency of the Contract is Indian Rupees [CL. 46]
24. **The formula (e) for adjustment of prices is as under:** [CL.47]
- If any of the commodities like Cement, Steel or Bitumen are not found applicable in a work, the weight component of that commodities {i.e. 'Cement' (Pc), 'Steel' (Ps) or 'Bitumen' (Pb) as indicated in SBD for the purpose of Price Adjustment} shall be clubbed with the weight component of 'Other Material' (Pm), such that the gross % weight of the components shall remain as 100%.
- R = value of work as defined in Clause 47.1 of Conditions of Contract

Adjustment for labour component

- (i) Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the following formula:

$$V_L = 0.85 \times (P_l/100) \times R \times (L_i - L_0)/L_0$$

V_L = Increase or decrease in the cost of work during the month under consideration due to changes in rates for local labour

L_0 = The consumer price index for industrial workers for the State on 28 days preceding the scheduled date of opening of technical Bids as published by Labour Bureau, Ministry of Labour, Government of India

L_i = The consumer price index for industrial workers for the State for the month under consideration as published by the Labour Bureau, Ministry of Labour, Government of India.

P_l = Percentage of labor component of the work.

Adjustment for cement component.

- (ii) Prices adjustment for increase or decrease in the cost of cement procured by the contractor

$$V_c = 0.85 \times (P_c/100) \times R \times (C_i - C_0)/C_0$$

V_c = Increase or decrease in the cost of work during the month under consideration due to changes in rates for cement.

C_0 = The all-India wholesale price index for Ordinary Portland Cement on 28 days preceding the scheduled date of opening of technical bid as published by the **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

C_i = The all-India average wholesale price index for Ordinary Portland Cement for the month under consideration as published by **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

P_c = Percentage of cement component of the work

Adjustment for steel component

- (iii) Price adjustment for increase or decrease in the cost of steel procured by the contractor shall be paid in accordance with the following formula

$$V_s = 0.85 \times (P_s/100) \times R \times (S_i - S_0)/S_0$$

V_s= Increase or decrease in the cost of work during the month under consideration due to changes in the rates for steel

S₀= The all-India wholesale price index for steel **(Mild Steel -Long Products Rebars)** on 28 days preceding the date of opening of Bids as published by the **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

S_i= The all-India average wholesale price index for steel **(Mild Steel - Long Products Rebars)** for the month under consideration as published by **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

P_s = Percentage of steel component of the work

Note: For the application of this clause, the index of **Mild Steel- Long products Rebars** has been chosen to represent the steel group.

Adjustment of POL (fuel and lubricant) component

- (iv) Price adjustment for increase or decrease in cost of POL (fuel and lubricant) shall be paid in accordance with the following formula

$$V_f = 0.85 \times (P_f/100) \times R \times (F_i - F_0)/F_0$$

V_f = Increase or decrease in the cost of work during the month under consideration due to changes in rates for fuel and lubricants.

F_0 = The official retail price of High-Speed Diesel (HSD) at the existing consumer pumps of IOC at the nearest centre on the day 28 prior to the date of opening of Bids.

F_i = The official retail price of HSD at the existing consumer pumps of IOC at the nearest centre for the 15th day of the month of the under consideration.

P_f = Percentage of fuel and lubricants component of the work

Note: For the application of this clause, the price of High-Speed diesel Oil has been chosen to represent the fuel and lubricants group.

Adjustment for Construction Machinery

- (v) Price adjustment for increase or decrease in the cost of plant and Machinery spare procured by the Contractor shall be paid in accordance with the following formula

$$V_p = 0.85 \times (P_p/100) \times R \times (P_i - P_0)/P_0$$

V_p = Increase or decrease in the cost of work during the month under consideration due to changes in rates for plant and machinery spares

P_0 = The all-India wholesale price index for **manufacturer of machinery for mining, quarrying and Construction** for the month under consideration as published **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

P_i = The all-India average wholesale price index for **manufacturer of machinery for mining, quarrying and Construction** for the month under consideration as published **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

P_p = Percentage of plant and machinery spares component of the work.

Note: For the application of this clause, index of Heavy Machinery and parts has been chosen to represent the Plant and Machinery Spares group

Adjustment of another materials Component

- (vi) Price adjustment for increase or decrease in cost of local materials other than cement, steel, bitumen and POL procured by the contractor shall be paid in accordance with the following formula

$$V_m = 0.85 \times (P_m/100) \times R \times (M_i - M_0)/M_0$$

V_m = Increase or decrease in the cost of work during the month under consideration due to change in rates for local materials other than cement, steel, bitumen and POL.

M_0 = The All-Indian wholesale price index (all commodities) on 28 days preceding the scheduled date of opening of technical Bids, as published by the **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

M_i = The All-India wholesale price index (all commodities) for the month under consideration as published by the **Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade, Ministry of Commerce & Industry.**

P_m = Percentage of local material components (other than cement, steel, bitumen and POL) of the work.

The following percentage will govern the price adjustment for the entire contract:

1.	Labour - P_l	:	_____	%
2.	Cement - P_c	:	_____	%
3.	Steel - P_s	:	_____	%
4.	Bitumen - P_b	:	_____	%
5.	POL- P_f	:	_____	%
6.	Plant & Machinery Spares - P_p	:	_____	%
7.	Other Materials - P_m	:	_____	%
		Total	:	_____ %

25. The proportion of payments retained (retention money) shall be 6% {CL. 48} from each bill subject to a maximum of 5% of final contract price.

26. Amount of Liquidated damages for delay in completion of works
- For Whole of work {CL.49} (1/2000)th of the Initial contract price, rounded off to the nearest Thousand, per day. For sectional Completion (wherever specified In item 6 of Contract data) (1/2000)th of initial contract price for #5 km Section, rounded off to the nearest thousand per day.

- | | | |
|-----|--|---|
| 27. | Maximum limit of liquidated damages
For delay in completion of work | 10 percent of the Initial Contract Price rounded off to the nearest thousand {CL.49} |
| 28. | Amount of Bonus for early completion | Amount of bonus for early completion of work shall be given as per CL.50 of Section-3 |
| 29. | Maximum limit of bonus for early Completion of work | 5 percent of the Contract Price {CL. 50} |
30. Deleted
31. The securities shall be for the following minimum amounts equivalent {CL. 52}
As a percentage of the Contract Price:
Performance Security for 5 percent of contract price plus Rs. (to be decided after evaluation of the bid) as additional security in terms of ITB Clause 29.5
- The standard form of Performance security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as presented in Section 8 of the Bidding Documents.
32. The Schedule of Operating and maintenance Manuals....N/A. {CL.58}
33. The date by which “as-built” drawings (in scale as directed) in 2 sets {CL. 58} are required within 28 days of the issue of certificate of completion of the whole or section of the work, as the case maybe.
34. The amount to be withheld for failing to supply “as built” drawings {CL. 58} by the Date required is **Rs 0.10 lakhs**.
35. The following events shall also be fundamental breach of contract: {CL.59.2}
“The Contractor has contravened Sub-clause 7.1 and Clause 9 of GCC”
36. The percentage to apply the value of the work not completed representing {Cl 60} the Employer’s additional cost for completing the Works shall be 20 percent.

SECTION - 5
TECHNICAL SPECIFICATION

SECTION - 6
FORM OF BID

FORM OF BID

Description of the Works:

BID

To :

Address :

1. We offer to execute the Works described above and remedy any defects therein in conformity with the conditions of Contract, specification, drawings, Bill of Quantities and Addenda for the sum (s) of

(-----)

2. We undertake, if our Bid is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Engineer's notice to commence, and to complete the whole of the Works in the Contract within the time stated in the document.
3. We agree to abide by this Bid for the period of 120 Days from the date fixed for receiving the same, and it shall remain binding upon it and may be accepted at any time before the expiration of that period.
4. Unless and until a formal Agreement is prepared and executed this Bid, together with your written acceptance thereof, shall constitute a binding contract between us.
5. We understand that you are not bound to accept the lowest or any tender you may receive.

Dated this----- day of----- 20

Signature ----- in the capacity of -----

----- duly authorized to sign bids for and on behalf of -----

(in block capitals or typed)

Address

Witness

Address

Occupation

SECTION - 7
BILL OF QUANTITIES

BILL OF QUANTITIES

Preamble

1. The bill of Quantities shall be read in conjunction with the Instructions to Bidder, Conditions of Contract, Technical Specifications and Drawings.
2. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Contractor and verified by the Engineer and valued at the rates and prices tendered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
3. The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, layout, supervision, materials, erection, maintenance, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract.
4. The rates and prices shall be quoted entirely in Indian Currency.
5. A rate or prices shall be entered against each item in the Bill Quantities, whether quantities are stated or not. The cost of Items against which Contractor has failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities (in case of Item ratecontract).
6. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no Items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related items of Work.
7. General direction and descriptions of work and materials are not necessarily repeated or summarized in the Bill of Quantities. References to the relevant sections of the contract documentation shall be made before entering rates or prices against each item in the Bill of Quantities.
8. The method of completed work of payment shall be in accordance with the specification for Road and Bridge works. For building works specifications for building are to be followed.
9. Errors will be corrected by the Employer for any arithmetic errors pursuant to **Clause-29** of the Instructions to Bidder.
10. Rock is defined as all materials which, in the opinion of the Engineer, required blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for its removal, and which cannot be extracted by ripping with a tractor of at least 150 kw with a single rear mounted heavy duty ripper.

BILL OF QUANTITIES

(A) Percentage Rate Tender (Up to INR 50 Cr.)

Item No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate In figures	Amount
AS PER SEPARATE SHEET ATTACHED					

I/We am/are willing to carry out the work at... % above/below percent(Should be written in figures and words) of the estimated rate mentioned above. Amount of my /our tender works out as under.

Estimated amount put to tender

Estimated amount put to tender

Deduct.....% below

Add.....% Above

Net

Net

In words

In words

(B) For Item Rate Tender (For above INR 50Cr.):

Item No	Description of Item (with brief specification and reference to book of specifications)	Quantity	Unit	Rate		Amount
				In figures	In Words	
NA						

(A) Total Tendered Amount

(B) Rebate on above tendered amount (if any) % (in figure)
(in words)

(C) Net Tendered Amount (A-B) (in figure)
(in words)

#

1	The Contractor shall exhibit a board with detailed specification and details of work as directed by the Engineer-In-Charge for which no extra payment shall be made.
2	The labour cess will be deducted as per prevailing rules i.e. 1% of the work done.
3	GST and Income tax TDS will be deducted at a source while making payments of bills
4	In all R.C.C. Items in Rate Analysis Standard Cement Consumption has been taken as per Govt. G.R.: PRC-10/2017 Cement Consumption/16/C Date:11/05/2017 as stated in S.O.R. therefore in R.C.C. items where there is a change as per actual mix design the cost of difference of cement consumption have been deducted from the rate of original item at the rate of input rate mentioned in all the tender.

SECTION - 8

SECURITIES AND OTHER FORMS

BID SECURITY (BANK GUARANTEE)

WHEREAS, ----- (name of Bidder) (hereinafter called the "The Bidder") has submitted his bid Dated ----- (Date) for the construction of ----- (Name of Contractor hereinafter called "the Bid")

KNOWALLPEOPLE by the se represents that We-----
(name of Bank) of ----- (name of country) having our
registered office at ----- (here in after called
"the bank") are bound unto ----- (name of Employer)
(here in after called "The Employer") in the sum of ----- *

for which payment well and truly to be made to the said Employer the Bank itself, his
successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ----- day of ----- 20

THE CONDITIONS of these obligations are:

(1) If after Bid opening the Bidder withdraws his bid during the period of Bid validity
specified in the Form of Bid;

Or

(2) If the Bidder has been notified of the acceptance of his bid by the Employer
during the period of Bid Validity:

A Fails or refuses to execute the Form of Agreement in accordance with the
Instructions to Bidders, if required; or

B. Fails or refuse to furnish the Performance Security, in accordance with the
Instructions to Bidders; or

C. does not accept the correction of the Bid Price pursuant to Clause 27
(Correction of Errors)

We undertake to pay to the Employer up to the above amount upon
receipt of his first written demand, without the employer having to substantiate
his demand, provided that in his demand the Employer will note that the amount
claimed by him is due to him owing to the occurrence of one or any of the three
conditions, specifying the occurred conditions or conditions.

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

DATE-----

SIGNATURE-----

WITNESS-----

SEAL-----

(Signature, name and address)

* The Bidder should insert the amount of the guarantee in words and figures
denominated in Indian Rupees. This figure should be the same as shown in
Clause 16.1(Bid Security) of the Instructions to Bidders.

****45 days** after the **end of the validity period** of the Bid. Date should be
inserted by the Employer before the Bidding documents are issued.

PERFORMANCE SECURITY

TO,

----- (Name of Employer)
----- (Address of Employer)

WHEREAS ----- (name and address of contractor) (hereafter called "the Contractor") has undertaken, in pursuance of Contracts No. ----- dates ----- to execute-----
----- (name of Contract and brief description of Works) (hereinafter called "The Contract")

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractors such a bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the contractor, up to a total of-----
(amount of guarantee)*----- (in words), such sum being payable in types and proportions of currencies in which the Contract prices is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of -----
(amount of guarantee) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting is with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract to of the Works to be performed the reunder or of any of the Contract documents which may be made between your and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such charge, addition or modifications.

This guarantee shall be valid until 60 days from the date of expiring of the Defect Liabilities period.

Signature and Seal of the guarantor -----

Name of Bank -----

Address -----

Date -----

*An amount shall be inserted by the Guarantor, representing the percentage the Contract price specified in the Contract denominated in Indian Rupees.

ADDITIONAL PERFORMANCE SECURITY

[Clause 34.1. (A)]

TO,

----- (Name of Employer)
----- (Address of Employer)

WHEREAS ----- (Name and address of contractor) (hereafter called "The Contractor") has undertaken, in pursuance of Contracts No. ----- dates ----- to execute-----
----- (Name of Contract and brief description of Works) (hereinafter called "The Contract")

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligation in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractors such a bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor, up to a total of-----
(amount of guarantee) ----- (in words), such sum being payable in types and proportions of currencies in which the Contract prices is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of -----
(amount of guarantee) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the contractor before presenting is with the demand

We further agree that no change or addition to or other modification of the terms of the Contract to of the Works to be performed ther eunder or of any of the Contract documents which may be made between your and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such charge, addition or modifications.

This guarantee shall be valid until **28 days** from the project completion date.

Signature and Seal of the guarantor -----

Name of Bank -----

Address -----

Date -----

BANK GUARANTEE FOR ADVANCE PAYMENT

TO,

----- (Name of Employer)

----- (Address of Employer)

----- (Name of Contractor)

Gentlemen:

In accordance with the provisions of the Conditions of Contract, sub-clause 51.1 ("Advance Payment") of the above-mentioned Contract,-----
----- (name and address of Contractor) (hereinafter called "the Contractor") shall deposit with (name of Employer) a bank guarantee for his proper and faithful performance under the said Clause of the Contract in an amount of ----- (amount of Guarantee) *-
----- in words).

We, the ----- (bank of financial institution), as instructed by the Contractor, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to -----
(name of Employer) on his first demand without whatsoever right of obligation on our part and without his first claim to the Contractor, in the amount not exceeding ---
----- (amount of guarantee) * ----- (in words)

We further agree that no change or addition to or other modifications of the terms of the Contractor or Works to be performed thereunder or of any of the Contract documents which may be made between ----- (name of Employer) and the Contractor, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modifications.

This guarantee shall remain valid and in full effect from the date of the advance payment under the Contract until ----- (name of employer) receives full repayment of the same amount from the contractor.

YOUR'S TRULY

Signature and Seal _____
Name of Bank/Financial Institution _____
Address _____
Date _____

* An amount shall be inserted by that Bank or Financial Institution representing the amount of the Advance Payment, and denominated in Indian Rupees.

Letter of Acceptance
(Letter head paper of the Employer)

_____(date)

To, _____(Name and address of the Contractor)

Dear Sirs,

This is to notify you that your Biddated _____for execution of the _____(Name of the contract and identification number, as given in the Instructions to Bidders) for the Contract Price of Rupees _____ (_____) (amount in words and figures) as corrected and modified in accordance with the Instructions to Bidders* is hereby accepted by our agency.

You are requested to furnish performance security, in the form detailed in para 34.1 of ITB for an amount equivalent to Rs. within **10 days** of the receipt of this letter of acceptance up to beyond **60 days** from the date of expiry of defects Liability period i.e. up to _____ and the Additional Performance Security for an amount equivalent to Rs. _____ shall be valid beyond 28 (twenty-eight) days of Project Completion Date i.e. up to _____ and sign the contract, failing which action as stated in Para 34.3 of ITB will be taken.

Yours Faithfully

Authorized Signature
Name and title of Signatory
Name of Employer

* Delete "Corrected and" or and modified if only one of these actions applies. Delete as corrected and modified in accordance with the Instructions to Bidders, if corrections or modifications have not been affected.

Issue of Notice to proceed with the work

(Letterhead of the Employer)

----- (date)

To,

_____(Name and address of the Contractor)

Dear Sirs,

Pursuant to your furnishing the requisite security in ITB Clause 34.1 and
signing of the Contract for the construction of _____

_____ at a bid Price of Rs.

_____.

You are hereby instructed to proceed with the execution of the said works in
accordance with the contract documents.

Yours faithfully

(Signature, name and title of signatory authorized
to sign on behalf of Employer)

AGREEMENT FORM

This agreement, made on the _____ Day of _____ between _____ (name and address of Employer) (Hereinafter called "the Employer) and _____ (name and address of contractor) hereinafter called "the Contractor" of the other part.

Whereas the Employer is desirous that the Contractor execute

Name and identification number of contract (hereinafter called "the works") and the employer has accepted the Bid by the Contractor for the execution and completion of such works and the remedying of any defects therein, at a cost of Rs.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS

1. In this Agreement, words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to and they shall be deemed to form and be read construed as part of this Agreement.
2. In Consideration of the payment to be made by the Employer to the contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to executive and complete the works and remedy any defects therein in conformity in all aspects with the provisions of the contracts.
3. The employer hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying the defects wherein contract price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the contract.
4. The Following documents shall be deemed to form and be ready and construed as part of this Agreement viz
 - i) letter of Acceptance
 - ii) Notice to proceed with the works:
 - iii) Contractor's Bid

- iv) Conditions of contract: General and Special
- v) Contract Data
- vi) Additional conditions
- vii) Drawings
- viii) Bill of Quantities and
- ix) Any other documents listed in the Contract
data as forming part of the Contract.

In witness whereof the parties there to have caused this Agreement to be
executed the day and year first before written

The Common seal of _____
Was hereunto affixed in the presence of:

Signed, sealed and delivered by the said _____

In the presence of

Binding signature of Employer _____

Binding Signature of Contractor _____

UNDERTAKING
(For Investment)

I, the undersigned do hereby undertake that our firm M/s
..... would invest a minimum cash up
to **25%** of the value of the work during implementation of the contract.

(Signed by an Authorized officer of the firm)

Title of officer

Name of firm

DATE

UNDERTAKING
(For Validity)

I, the undersigned do hereby undertake that our firm M/s.....
..... agree to abide by this bid for a periodday
for date fixed for receiving the same and it shall be binding on us and may be accepted at
any time before the expiration of that period.

(Signed by an Authorized officer of the firm)

Title of officer

Name of firm

DATE

SECTION - 9
DRAWINGS

SECTION - 10
DOCUMENTS TO BE FURNISHED BY BIDDER

SARDAR PATEL UNIVERSITY

Name of Work: Addition and Alteration Work Sadar Patel University Campus Building

A B S T R A C T

(R & B Sor 2024-25, Add 1%, add 18% GST, Market Rate)

Sr. No.	Item	Quantity	Rate	Final Rate	Per	Amount
	Item No.01					
1	Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift.(i) Not exceeding 3 Sq.M. in area.	4.00	190.19	192.09	Nos.	768.36
	R&B SOR (Ch.20/ It.20013A/ Pg.155)					
	Item No.02					
2	Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	4.70	1071.63	1082.35	Cum	5,087.05
	R&B SOR (Ch.20/ It.20002/ Pg.154)					
	Item No.03					
3	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	1.00	557.32	562.89	Cum	562.89
	R&B SOR (Ch.20/ It.20003B/ Pg.154)					
	Item No.04					
4	Dismantling tiled of stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.	223.20	48.63	49.12	Sqm	10,963.58
	R&B SOR (Ch.20/ It.20005/ Pg.154)					
	Item No.05	612.66+53.89 = 666.55				
5	Half brick masonry in common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:5 (1- Cement : 5 - coarse sand) in superstructure above plinth level upto floor two level. (B) Conventional					-
		27.80	666.55	673.22	Sqm	18,715.52
	R&B SOR (Ch.6 /It. / 06008B2A / 6.31 / Pg.86) + (Ch.6 / It.06010B / 6.32 / Pg.88)					
	Item No.06					
6	Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in.(I) cement mortar 1 :3 (1 cement : 3 sand) Inside Plaster					
		103.40	201.76	203.78	Sqm	21,070.85
	R&B SOR (Ch.17 / It.17002A / 17.6 / Pg.143)					

Sr. No.	Item	Quantity	Rate	Final Rate	Per	Amount
	Item No.07					
7	Applying two coats of Birla or Asian acrylic lappy (putty) and two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.	1385.40	40.19	40.59	Sqm	56,233.39
	R&B SOR (Ch.19/ It.Co.19032/ P.153)					
	Item No.08					
8	Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	1385.40	49.29	49.78	Sqm	68,965.21
	R&B SOR (Ch.18/ It.Co.18016/ P.149)					
	Item No.09					
9	P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for antiskit	313.70	1333.02	1346.35	Sqm	422,350.00
	R&B SOR (Ch.14/ It.Co.14020A/ P.137)					
	Item No.10					
10	Providing and laying granite stone for kitchen platform of size 60 cm x 70 cm and respected length with dhar polish or moulding and spport & base with s.s. steel frame table as per site requirement and top with selected shed of granite with gas pipe provision and sink including all material and labour also executed as per directed by engineer incharge.	2.70	6456.00	6520.56	Sqm	17,605.51
	(R.A - 1)					
	Item No.11					
11	Providing and fixing standared extruded of alluminium section of size 63.50 x 38.10 x 1.95 mm,@ Wt 1.094Kg / Rmt with colour Powder Coated alluminium frame with 5 mm thick transparent bronze colour tinted float glass as well as bakelite sheet as details etc complete for Fix Fold Partition with door. as per directed by engineer incharge.	200.10	1815.14	1833.29	Sqm	366,841.33
	R&B SOR (Ch.11/ It.Co.11037/ P.124)					

Sr. No.	Item	Quantity	Rate	Final Rate	Per	Amount
	Item No.12					
12	Providing & fixing 35 mm thick Single shutter flush door solid core finished with both side 1 mm thick lamination both side like 'NOVAPAN 'or equivalent, of natural wood grain shade as approved by this office having telephone black granite 18 mm thick frame with double stone including fixed ventilation above lintel level as per drg and as per the instruction of Engineer in charge with necessary SS hinges and fixtures etc . complete.	33.60	8842.80	8931.23	Sqm	300,089.33
	(R.A - 2)					
	Item No.13					
13	Providing and fixing FRP frame size 125x65 mm and 35mm thick FRP shutter having extra reinforcement on sides & edges in polish finish. The core of the shutter & frame is to be filled up with injected polyurethane foam done in situ along with embedded wooden pieces for stiffening & also taking hinges & fixtures. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with necessary screws & aluminium S.S fixtures & fastenings & fastener sleeve. Note: Consider the Door Frame should be Stone or Granite.	9.50	2589.15	2615.04	Sqm	24,842.88
	R&B SOR (Ch.10/It.10038/0/Pg.104)					
	Item No.14					
14	Providing and fixing window having extruded aluminum Colour Powder Coated section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt, horizontal Three track member size 92mm x 31.75mm x 1.30mm @ Wt.1.07 Kg/mt, vertical member of size 92mm x 31.75mm x 1.50mm ,@ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mmx18mm x1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc	38.40	1576.11	1591.87	Sqm	61,127.81
	R&B SOR (Ch.11/It.11033/0/Pg.123)					
	Item No.15					
15	Providing and fixing standard extruded of aluminium section of size 63mm x 38.10mm x 1.2mm , @ Wt. 0.643 Kg/mt with colour Powder Coated aluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation	16.00	1163.92	1175.56	Sqm	18,808.96
	R&B SOR (Ch.11/It.11033/0/Pg.123)					

Sr. No.	Item	Quantity	Rate	Final Rate	Per	Amount
	Item No.16					
16	Providing & Fixing Excecutive table size 5' x 2.5' with 2 drawer, 2 cabinet, laminate top and side cabinet as per directed by Engineer in charge (R.A. & designs will be shared to the selected Contractor).	2.00	15000.00	15150.00	Nos.	30,300.00
	(Market Rate)					
	Item No.17					
17	Providing & Fixing table size Modular Table with Particle Board Table Top and Metal Understructure, table top size 3' x 6' height 3'6" as per directed by Engineer in charge (R.A. & designs will be shared to the selected Contractor).	2.00	6000.00	6060.00	Nos.	12,120.00
	(Market Rate)					
	Item No.18					
18	Providing & Fixing table size Modular Table with Particle Board Table Top and Metal Understructure, table top size 4' x 2', it includes low height cabinet 18"x18"x27" = 31 nos. single drover and below shutter, as per directed by Engineer in charge	45.00	14000.00	14140.00	Nos.	636,300.00
	(Market Rate)					
	Item No.19					
19	Providing & Fixing Executive Hydraulic Revolving Chair with foam & rubber handle as per directed by Engineer in charge	2.00	7500.00	7575.00	Nos.	15,150.00
	(Market Rate)					
	Item No.20					
20	Providing & Fixing Revolving Chair with foam & rubber handle as per directed by Engineer in charge	59.00	4500.00	4545.00	Nos.	268,155.00
	(Market Rate)					
	Item No.21					
21	Structural steel work (Confirming to IS 4923-1997) riveted, boltedor welded in builtup for all type sections, in framed work,including cutting, hoisting, fixing in position and aincluding applying a priming coat of red lead paint and two coats of oil painting all complete as per the structural designs and directions of Engineer in charge. (PEB structure)	766.50	136.20	137.56	Kg	105,439.74
<u>PLUMBING WORK</u>						
	Item No.44					
44	Providing and fixing in position cowl vent to pipes. (B) 75 mm. dia.	2.00	389.15	393.04	No.	786.08
	R&B SOR (Ch.23/ It.Co.23006B/ 0/ P.178)					
	Item No.45					
45	Providing and fixing in position cowl vent to pipes. (C) 100 mm. dia.	2.00	500.17	505.17	No.	1,010.34
	R&B SOR (Ch.23/ It.Co.23006C/0/ P.178)					
	Item No.46					

Sr. No.	Item	Quantity	Rate	Final Rate	Per	Amount
46	Providing and fixing cast iron (spun) nahni trap of the following nominal diamter of self cleaning design with C.I screwed down or hinged grating including cost of cutting and making good the walls and floors 100 mm. inlet and 50 mm. outlet	7.00	628.43	634.71	No.	4,442.97
	R&B SOR (Ch.23/ It.Co.23008/ 23.857/ P.178)					
	Item No.47					
47	Providing and fixing 100 mm sand cast iron grating for gully, floor or nahni trap.	7.00	36.61	36.98	No.	258.86
	R&B SOR (Ch.23/ It.Co.23022/ 23.139/ P.180)					
	Item No.48					
48	Providing and fixing 600mm x 450 mm Bevelled edge mirror of supperior glass mounted on 6 mm Thick A.C. Sheet or plywood sheet and fixed to wooden plugs with C.P. Brass screws and washers.	2.00	850.90	859.41	No.	1,718.82
	R&B SOR (Ch.23/ It.Co.23024/ 23.143/ P.180)					
	Item No.49					
49	Providing and fixing screw down bib taps of follwing size (A) Brass screw down bib tap polished bright. (ii) 20 mm dia	10.00	212.68	214.81	No.	2,148.10
	R&B SOR (Ch.23/ It.Co.23028B2/ 23.92/ P.181)					
	Item No.50					
50	Providing and fixing screw down stop tap (B) 20 mm. dia.	5.00	221.59	223.81	No.	1,119.05
	R&B SOR (Ch.23/ It.Co.23030B/ 23.96/ P.181)					
	Item No.51					
51	Providing and fixing gun metal check or non return fullway wheel valve (C) 25 mm. dia.	3.00	416.47	420.63	No.	1,261.89
	R&B SOR (Ch.23/ It.Co.23031C/ 23.99/ P.181)					
	Item No.52					
52	Providing and fixing gun metal check or non return fullway wheel valve (B) 20 mm. dia.	2.00	201.80	203.82	No.	407.64
	R&B SOR (Ch.23/ It.Co.23031B/ 23.99/ P.181)					

Sr. No.	Item	Quantity	Rate	Final Rate	Per	Amount
	Item No.53					
53	Providing and fixing chromium plated brass half turn flush cock of approved quality including fixing in pipe line etc. complete (ii) 25 mm dia	4.00	261.16	263.77	No.	1,055.08
	R&B SOR (Ch.23/ It.Co.23032B/ 0 / P.181)					
	Item No.54					
54	Providing and fixing ball cock of approved quality as directed. (A) Copper Metal (i) 25 mm. dia.	2.00	131.57	132.89	No.	265.78
	R&B SOR (Ch.23/ It.Co.23037A1/ P.182)					
	Item No.55					
55	Providing and fixing Table top Basin having Granite of 18 to 20 mm thick having minimum single piece length of 210 mm to be fixed on Walls to act as Study Table / Wash Basin , including fixing the same using cement mortar in proportion 1:1 etc. comp , Necessary Groove in Walls By Machine , Front Side Round the edge and cutting hole in granite stone for washbasin / Computer Wire , including rubbing and polishing finishing jointed with grey cement slurry including rubbing and polishing finishing get complete. etc complete.. with all labour & material & equipment.....etc. Completed as directed by Engineer-in-charge (A) Granite slab 18mm thick	4.00	9158.70	9250.28	No.	37,001.12
	(R.A - 3)					
	Item No.56					
56	Providing and fixing wash down water closet (European type, W.C. Pan) with integral P or S trap including jointing the trap with soil pipe in Cement Mortar 1:1 (1-Cement : 1-fine sand) including providing & fixing plastic seat and cover for wash down WC with C.P. brass hinges and rubber buffer back plastic seat and including providing & fixing PVC Flushing tank with a pair of CI or MS bracket with polythene float CP Brass handle unions, Angle cock including hand faccet and couplings for connection with inlet outlet and overflow pipes 40mm dia. porcelain enameled flush bend including cutting hole in walls and making good the same connection the flush bend, flush tank capacity of 10 Lit. with cistern and closet of vitreous china.	4.00	4135.00	4176.35	No.	16,705.40
	(R.A - 4)					

Sr. No.	Item	Quantity	Rate	Final Rate	Per	Amount
	Item No.57					
57	Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	20.00	71.93	72.65	Rmt	1,453.00
	R&B SOR (Ch.23/ It.Co.23061/ P.176)					
	Item No.58					
58	Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	22.00	90.93	91.84	Rmt	2,020.48
	R&B SOR (Ch.23/ It.Co.23062/ P.184)					
	Item No.59					
59	Providing laying and jointing in true line and level 40 mm dia. U.P.V.C. Pipe (SCH - 40) including fittings of PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent make or as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.	35.00	146.65	148.12	Rmt	5,184.20
	R&B SOR (Ch.23/ It.Co.23064/ P.184)					

Sr. No.	Item	Quantity	Rate	Final Rate	Per	Amount
	Item No.60					
60	Providing laying and jointing in true line and level 110 & 75 mm diameter U.P.V.C. SWR Type B pipe conforming to IS 13592-1992 with one end plain and other end socketed with rubbering, & fitting conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm high at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pies and joints and jointed with adhesive solvent cement including cost of all materials	30.00	868.22	876.90	Rmt	26,307.00
	R&B SOR (Ch.23/ It.Co.23067/ P.185)					
	Item No.61					
61	Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300 mm x 300 mm Size (inside) with standard weight (i) Square mouth traps. (C) 150 mm x 100 mm size - P or R type	4.00	1234.57	1246.92	No.	4,987.68
	R&B SOR (Ch.24/ It.Co.24006B/ 24.19/ P.187)					
	Item No.62					
62	Constructing brick masonray road gully chamer 500 mm x 450 mm x 660 mm including 500mm x 450mm C.I. horizontal grating with frame complete.	2.00	1997.22	2017.19	No.	4,034.38
	R&B SOR (Ch.24/ It.Co.24013a/ 24.4/ P.191)					
	Item No.63					
63	Constructing brick masonry road gully chamer 1100 mm x 500 mm x 775 mm including 500 mm x 450 mm C.I. horizontal grating with frame and vertical grating complete.	1.00	8680.45	8767.25	No.	8,767.25
	R&B SOR (Ch.24/ It.Co.24015A/ 24.42/ P.191)					
	Item No.64					
64	Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil	10.80	121.72	122.94	Cmt	1,327.75
	R&B SOR (Ch.4/ It.04001A/ Pg.60)					
	Item No.65					
65	Providing erecting and fixing double coated Syntex or equivalent PVC. (ISI) mark water tank of reqd capacity each with all necessary fittings & connection etc. comp on terrace	1000.00	3.91	3.95	Ltr.	3,950.00
	R&B SOR (Ch.22/ It.Co.22014/ P.172)					
	Total Rs.					2,587,710.27
	Add 18% GST.					465,787.85
	Total with GST Rs.					3,053,498.12
	Contingency Charge					46,501.88
	Say Rs.					3,100,000.00

SARDAR PATEL UNIVERSITY

Name of Work: Addition and Alteration Work Sadar Patel University Campus Building

M E A S U R E M E N T

	No.	Length	Breadth	Depth	Quantity	Unit
Item No.01						
Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift.(i) Not exceeding 3 Sq.M. in area.						
Window	1	4.00			4.00	Nos.
				Total	4.00	Nos.
				say	4.00	Nos.
Item No.02						
Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work						
For First Floor						
Conference Room	1	21.00	0.60	0.15	1.89	Cu.m.
For Second Floor						
Staff Room	1	6.50	0.60	0.15	0.59	Cu.m.
	1	11.00	0.60	0.15	0.99	Cu.m.
	1	8.70	0.60	0.15	0.78	Cu.m.
	1	4.50	0.60	0.15	0.41	Cu.m.
				Total	4.65	Cu.m.
				say	4.70	Cu.m.
Item No.03						
Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.						
For First Floor						
Lift Area	1	1.00	0.23	0.90	0.21	Cu.m.
For Second Floor						
Lift Area	1	1.00	0.23	0.90	0.21	Cu.m.
Door	1	1.20	0.23	2.10	0.58	Cu.m.
				Total	0.99	Cu.m.
				say	1.00	Cu.m.
Item No.04						
Dismantling tiled of stone floors laid in mortar including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.						
For First Floor						
For Flooring	1	21.00	6.00		126.00	sq.m.
For Second Floor						
Toilet Block	1	2.30	1.45		3.34	sq.m.
	2	2.30		0.90	4.14	sq.m.
	2	1.45		0.90	2.61	sq.m.
	1	2.00	1.45		2.90	sq.m.
	2	2.00		0.90	3.60	sq.m.
	2	1.45		0.90	2.61	sq.m.
For Flooring	1	12.00	6.50		78.00	sq.m.
				Total	223.20	sq.m.
				say	223.20	sq.m.

	No.	Length	Breadth	Depth	Quantity	Unit
Item No.05						
Half brick masonry in common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:5 (1- Cement : 5 -coarse sand) in superstructure above plinth level upto floor two level. (B) Conventional						
For First Floor						
Toilet Area	2	1.79		2.40	8.59	sq.m.
	1	3.15		2.40	7.56	sq.m.
	1	4.55		2.40	10.92	sq.m.
	1	2.90		2.40	6.96	sq.m.
Deduction						
Door	-4	0.75		2.10	-6.30	sq.m.
				Total	27.73	sq.m.
				say	27.80	sq.m.
Item No.06						
Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in.(I) cement mortar 1 :3 (1 cement : 3 sand) Inside Plaster						
For First Floor						
Toilet Area	4	1.79		2.40	17.18	Sq.m.
	2	3.15		2.40	15.12	Sq.m.
	2	4.55		2.40	21.84	Sq.m.
For Door	4	2.90		2.40	27.84	Sq.m.
	4	2.10		0.30	2.52	Sq.m.
	2	0.90	0.30		0.54	Sq.m.
For Second Floor						
For Door	4	2.90		2.40	27.84	Sq.m.
	4	2.10		0.30	2.52	Sq.m.
	2	0.90	0.30		0.54	Sq.m.
Deduction						
Door	-8	0.75		2.10	-12.60	Sq.m.
				Total	103.34	Sq.m.
				say	103.40	Sq.m.
Item No.07						
Applying two coats of Birla or Asian acrylic lappy (putty) and two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.						
	Plaster Qty				103.34	Sq.m.
For First Floor						
Toilet Ceiling	1	4.51	3.00		13.53	Sq.m.
Conference Room to Guest Room Ceiling	1	21.00	5.70		119.70	Sq.m.
Passage Ceiling	1	1.52	5.64		8.57	Sq.m.
Wall Color	1	21.00		3.50	73.50	Sq.m.
	1	5.67		3.50	19.85	Sq.m.
	1	7.27		3.50	25.45	Sq.m.
	1	5.90		3.50	20.65	Sq.m.
	1	3.10		3.50	10.85	Sq.m.
	1	4.51		3.50	15.79	Sq.m.
For Second Floor						
Working Area Ceiling	1	11.78	6.43		75.75	Sq.m.
Wall Color	2	11.78		3.50	82.46	Sq.m.
	2	6.43		3.50	45.01	Sq.m.
Lab Area	1	11.78	6.65		78.34	Sq.m.
Wall Color	2	11.78		3.50	82.46	Sq.m.
	2	6.65		3.50	46.55	Sq.m.

	No.	Length	Breadth	Depth	Quantity	Unit
Working Area Ceiling	1	5.50	8.90		48.95	Sq.m.
Wall Color	2	5.50		3.50	38.50	Sq.m.
	2	8.90		3.50	62.30	Sq.m.
Working Area Ceiling	1	3.01	4.22		12.70	Sq.m.
Wall Color	2	3.01		3.50	21.07	Sq.m.
	2	4.22		3.50	29.54	Sq.m.
Pantry Area Ceiling	1	2.64	4.82		12.72	Sq.m.
Wall Color	2	2.64		3.50	18.48	Sq.m.
	2	4.82		3.50	33.74	Sq.m.
Cabin 1	1	3.01	4.21		12.67	Sq.m.
Wall Color	2	3.01		3.50	21.07	Sq.m.
	2	4.21		3.50	29.47	Sq.m.
Cabin 2	1	2.64	3.20		8.45	Sq.m.
Wall Color	2	2.64		3.50	18.48	Sq.m.
	2	3.20		3.50	22.40	Sq.m.
Passage Ceiling	1	4.40	1.91		8.40	Sq.m.
Wall Color	2	4.40		3.50	30.80	Sq.m.
	2	1.91		3.50	13.37	Sq.m.
Passage Ceiling	1	1.53	5.17		7.91	Sq.m.
Wall Color	2	1.53		3.50	10.71	Sq.m.
	2	5.17		3.50	36.19	Sq.m.
Passage Ceiling	1	4.63	1.41		6.53	Sq.m.
Wall Color	2	4.63		3.50	32.41	Sq.m.
	2	1.41		3.50	9.87	Sq.m.
Toilet Block Ceiling	1	3.71	3.02		11.20	Sq.m.
	2	3.71		3.50	25.97	Sq.m.
	2	3.02		3.50	21.14	Sq.m.
Deduction						
For First Floor Window	-7	1.50		1.20	-12.60	Sq.m.
For Working Area Window	-5	1.52		1.20	-9.12	Sq.m.
For Lab Area Window	-5	1.50		1.20	-9.00	Sq.m.
For Working Window	-3	1.50		1.20	-5.40	Sq.m.
For Working & Cabin Area Window	-3	1.50		1.20	<u>-5.40</u>	Sq.m.
	Total				1385.32	Sq.m.
	say				1385.40	Sq.m.
Item No.08						
Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.						
	as per putty qty				<u>1385.32</u>	Sq.m.
	Total				1385.32	Sq.m.
	say				1385.40	Sq.m.
Item No.09						
P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with color cement slurry including finised with flush pointing & cleaning the surface etc. complete for antiskit						
For First Floor						
Toilet Block	2	1.69	1.52		5.14	sq.m.
	4	1.69		2.10	14.20	sq.m.
	4	1.52		2.10	12.77	sq.m.
	1	1.69	1.36		2.30	sq.m.
	2	1.69		2.10	7.10	sq.m.
	1	1.36		2.10	2.86	sq.m.

	No.	Length	Breadth	Depth	Quantity	Unit
	1	4.51		2.10	9.47	sq.m.
	1	0.40		2.10	0.84	sq.m.
	1	0.30		2.10	0.63	sq.m.
For Flooring	1	21.00	6.00		126.00	sq.m.
	2	21.00		0.10	4.20	sq.m.
	2	6.00		0.10	1.20	sq.m.
Passage	1	1.55	5.65		8.76	sq.m.
For Second Floor						
Toilet Block	1	2.30	1.45		3.34	sq.m.
	2	2.30		2.10	9.66	sq.m.
	2	1.45		2.10	6.09	sq.m.
	1	2.00	1.45		2.90	sq.m.
	2	2.00		2.10	8.40	sq.m.
	2	1.45		2.10	6.09	sq.m.
For Flooring	1	12.00	6.50		78.00	sq.m.
	2	12.00		0.10	2.40	sq.m.
	2	6.50		0.10	<u>1.30</u>	sq.m.
				Total	313.63	Sq.m.
				say	313.70	Sq.m.
Item No.10						
Providing and laying granite stone for kitchen platform of size 60 cm x 70 cm and respected length with dhar polish or moulding and support & base with s.s. steel frame table as per site requirement and top with selected shed of granite with gas pipe provision and sink including all material and labour also executed as per directed by engineer incharge.						
For First Floor						
Pantry	1	1.85	0.60		1.11	Sq.m.
For Second Floor						
Pantry	1	2.65	0.60		<u>1.59</u>	Sq.m.
				Total	2.70	Sq.m.
				Say	2.70	Sq.m.
Item No.11						
Providing and fixing standard extruded of aluminium section of size 63.50 x 38.10 x 1.95 mm, @ Wt 1.094Kg / Rmt with colour Powder Coated aluminium frame with 5 mm thick transparent bronze colour tinted float glass as well as bakelite sheet as details etc complete for Fix Fold Partition with door. as per directed by engineer incharge.						
For First Floor						
	1	5.00		3.50	17.50	Sq.m.
	1	5.70		3.50	19.95	Sq.m.
	1	5.30		3.50	18.55	Sq.m.
	1	2.90		3.50	10.15	Sq.m.
	2	2.30		3.50	16.10	Sq.m.
	1	2.20		3.50	7.70	Sq.m.
	1	5.72		3.50	20.02	Sq.m.
	1	1.60		3.50	5.60	Sq.m.
For Second Floor						
	1	6.45		3.50	22.58	Sq.m.
	1	3.00		3.50	10.50	Sq.m.
	1	6.65		3.50	23.28	Sq.m.
For 4.5' Partition	7	1.55		1.25	13.56	Sq.m.
	1	1.25		1.25	1.56	Sq.m.
	1	2.21		1.25	2.76	Sq.m.
	1	1.58		1.25	1.98	Sq.m.
	1	1.45		1.25	1.81	Sq.m.
	1	1.82		1.25	2.28	Sq.m.
	1	1.74		1.25	2.18	Sq.m.

	No.	Length	Breadth	Depth	Quantity	Unit
	1	1.62		1.25	<u>2.03</u>	Sq.m.
				Total	200.07	Sq.m.
				say	200.10	Sq.m.
Item No.12						
Providing & fixing 35 mm thick Single shutter flush door solid core finished with both side 1 mm thick lamination both side like 'NOVAPAN 'or equivalent, of natural wood grain shade as approved by this office having telephone black granite 18 mm thick frame with double stone including fixed ventilation above lintel level as per drg and as per the instruction of Engineer in charge. with necessary SS hinges and fixtures etc . complete.						
For First Floor						
Nr. Toilet Block	3	0.75		2.10	4.73	Sq.m.
	4	0.95		2.10	7.98	Sq.m.
For Second Floor						
	4	1.20		2.10	10.08	Sq.m.
	4	0.90		2.10	7.56	Sq.m.
	1	1.55		2.10	<u>3.26</u>	Sq.m.
				Total	33.60	Sq.m.
				say	33.60	Sq.m.
Item No.13						
Providing and fixing FRP frame size 125x65 mm and 35mm thick FRP shutter having extra reinforcement on sides & edges in polish finish. The core of the shutter & frame is to be filled up with injected polyurethane foam done in situ along with embedded wooden pieces for stiffening & also taking hinges & fixtures. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with necessary screws & aluminium S.S fixtures & fastenings & fastener sleeve. Note: Consider the Door Frame should be						
For First Floor						
	2	0.75		2.10	3.15	Sq.m.
For Second Floor						
	4	0.75		2.10	<u>6.30</u>	Sq.m.
				Total	9.45	Sq.m.
				say	9.50	Sq.m.
Item No.14						
Providing and fixing window having extruded aluminum Colour Powder Coated section frame main outer size 95mm x 24mm x 1.17mm @ wt.of 0.738 Kg/mt, horizontal Three track member size 92mm x 31.75mm x 1.30mm @ Wt.1.07 Kg/mt, vertical member of size 92mm x 31.75mm x 1.50mm ,@ Wt. 1.06 Kg/mt with sliding shutters of horizontal member size 40 mmx18mm x1.29mm @ wt.of 0.456 Kg/mt, vertical member of size 40mm x 18mm x 1.29 mm @ wt.of 0.456Kg/mt with 5 mm thick transparent bronze colour tinted float glass with powder coated aluminum fittings and fixtures and transparent silicon sealant glass fixing to frame as per details etc						
For First Floor						
Window	6	1.50		1.20	10.80	Sq.m.
For Second Floor						
Window	9	1.55		1.20	16.74	Sq.m.
	6	1.50		1.20	<u>10.80</u>	Sq.m.
				Total	38.34	Sq.m.
				Say	38.40	Sq.m.
Item No.15						
Providing and fixing standard extruded of aluminium section of size 63mm x 38.10mm x 1.2mm , @ Wt. 0.643 Kg/mt with colour Powder Coated aluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation						
Ventilation	5	0.60		0.60	1.80	Sq.m.
For Second Floor Ventilation	15	1.50		0.45	10.13	Sq.m.
For First Floor Ventilation	6	1.50		0.45	<u>4.05</u>	Sq.m.
				Total	15.98	Sq.m.
				Say	16.00	Sq.m.

	No.	Length	Breadth	Depth	Quantity	Unit
Item No.16						
Providing & Fixing Excecutive table size 5' x 2.5' with 2 drawer, 2 cabinet, laminate top and side cabinet as per directed by Engineer in charge (R.A. & designs will be shared to the selected Contractor).						
	1	2.00			<u>2.00</u>	Nos.
				Total	2.00	Nos.
				Say	2.00	Nos.
Item No.17						
Providing & Fixing table size Modular Table with Particle Board Table Top and Metal Understructure, table top size 3' x 6' height 3'6" as per directed by Engineer in charge (R.A. & designs will be shared to the selected Contractor).						
For Second Floor	1	2.00			<u>2.00</u>	Nos.
				Total	2.00	Nos.
				Say	2.00	Nos.
Item No.18						
Providing & Fixing table size Modular Table with Particle Board Table Top and Metal Understructure, table top size 4' x 2', it includes low height cabinet 18"x18"x27" = 31 nos. single drover and below shutter, as per directed by Engineer in charge						
For First Floor	1	11.00			11.00	Nos.
For Second Floor	1	34.00			34.00	Nos.
				Total	45.00	Nos.
				Say	45.00	Nos.
Item No.19						
Providing & Fixing Executive Hydraulic Revolving Chair with foam & rubber handle as per directed by Engineer in charge						
For Second Floor	1	2.00			<u>2.00</u>	Nos.
				Total	2.00	Nos.
				Say	2.00	Nos.
Item No.20						
Providing & Fixing Revolving Chair with foam & rubber handle as per directed by Engineer in charge						
For First Floor	1	25.00			25.00	Nos.
For Second Floor	1	64.00			<u>64.00</u>	Nos.
				Total	89.00	Nos.
				Say	89.00	Nos.
Item No.21						
Structural steel work (Confirming to IS 4923-1997) riveted, boltedor welded in builtup for all type sections, in framed work,including cutting, hoisting, fixing in position and aincluding applying a priming coat of red lead paint and two coats of oil painting all complete as per the structural designs and directions of Engineer in charge. (PEB structure)						
	1	7.00		3.65	<u>25.55</u>	Smt
35kg /smt Required						
	25.55		30.00		<u>766.50</u>	Kg
				Total	766.50	Kg.
				say	766.50	Kg.
ELECTRICAL WORK						
Item No.22						
LIGHT POINT : Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete CATIII						

	No.	Length	Breadth	Depth	Quantity	Unit
For First Floor	1	49.00			49.00	Pt.
For Second Floor	1	106.00			<u>106.00</u>	Pt.
				Total	155.00	Pt.
				Say	155.00	Pt.
Item No.22 (A)						
COMMON POINTS : Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. For 6A Plug and 6 A switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard / mcb db board CAT. III						
For Second Floor	1	54.00			<u>54.00</u>	Pt.
				Total	54.00	Pt.
				Say	54.00	Pt.
Item No.22 (B)						
INDIVIDUAL POINTS : Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board. CAT. III						
For Second Floor	1	23.00			<u>23.00</u>	Pt.
				Total	23.00	Pt.
				Say	23.00	Pt.

	No.	Length	Breadth	Depth	Quantity	Unit
Item No.23						
Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (i) 5-9 watts, Surge-2 KV CATIII						
(ii) 11-15 watts, Surge-2 KV						
For First Floor & For Second Floor	1	18.00			<u>18.00</u>	Ea
				Total	18.00	Ea
				Say	18.00	Ea
(iii) 16-20 watts, Surge-2 KV						
For First Floor & For Second Floor	1	140.00			<u>140.00</u>	Ea
				Total	140.00	Ea
				Say	140.00	Ea
Item No.24						
Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete CATIII						
For First Floor	1	16.00			16.00	Pt.
For Second Floor	1	26.00			<u>26.00</u>	Pt.
				Total	42.00	Pt.
				Say	42.00	Pt.
Item No.24 (A)						
(5) Electronic hum Free steps EME Fan regulator.						
For First Floor	1	16.00			16.00	Pt.
For Second Floor	1	26.00			<u>26.00</u>	Pt.
				Total	42.00	Pt.
				Say	42.00	Pt.
Item No.25						
Supply, Installation, Testing and Commissioning of suitable sweep, BEE 5 Star rated, Ceiling fan with Brush Less Direct Current (BLDC) permanent ferrite magnet Motor, class of insulation: B, Rust free 3 nos.Aluminium blades, 2 nos. canopies, shackle kit with earthing provision, copper winding, Power factor not < 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM,230v (tolerance as per IS : 374-2019), THD < 10%, with remote unit for Speed Control and all remaining accessories including safety pin, nut bolts, washers, temperature rise = 75 degree C (Max.), suitable for 140 to 285 Voltage and rectifier circuit with surge, over current and overload protection , 50 Hz, Single phase AC Supply, earthing etc. Complete as required.[Make shall be approved by Engineer in Charge] (A)900 mm sweep (36")						
For First Floor & For Second Floor	1	42.00			<u>42.00</u>	Ea
				Total	42.00	Ea
				Say	42.00	Ea
Item No.26						
Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.						

	No.	Length	Breadth	Depth	Quantity	Unit
For First Floor & For Second Floor	1	42.00			42.00	Ea
				Total	42.00	Ea
				Say	42.00	Ea
Item No.27						
Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (a) single door (IP-30) (ii) 6 way						
For First Floor	1	1.00			1.00	Ea
For Second Floor	1	1.00			1.00	Ea
				Total	2.00	Ea
				Say	2.00	Ea
Item No.28						
Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (a) single door (IP-30) (i) 4 way						
For Second Floor	2	1.00			2.00	Ea
				Total	2.00	Ea
				Say	2.00	Ea
Item No.29						
Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (a) single door (IP-30) (iii) 8 way						
For Second Floor	1	1.00			1.00	Ea
				Total	1.00	Ea
				Say	1.00	Ea
Item No.30						
Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (a) single door (IP-30) (iv) 12 way						
For Second Floor	1	1.00			1.00	Ea
				Total	1.00	Ea
				Say	1.00	Ea
Item No.31						
providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed. (ii) 40Amps. FP, CAT - III						
For First Floor		1.00			1.00	Ea
For Second Floor	1	1.00			1.00	Ea
				Total	2.00	Ea
				Say	2.00	Ea
Item No.32						
providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark CAT - III (4way TPN 20 Amp. SP MCB = 24 Nos.) (6way TPN 16 Amp. SP MCB = 12 Nos., 20 Amp. SP MCB = 12 Nos., 24 Amp. SP MCB = 12 Nos.) (8way TPN 10 Amp. SP MCB = 24 Nos.) (12way TPN 6 Amp. SP MCB = 18 Nos., 10 Amp. SP MCB = 18 Nos.) = 120 Nos.						
For First Floor	1	18.00			18.00	Ea

	No.	Length	Breadth	Depth	Quantity	Unit
For Second Floor	1	102.00			<u>102.00</u>	Ea
				Total	120.00	Ea
				Say	120.00	Ea
Item No.33						
Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame. 200mm with 1350RPM Cat.II						
For First Floor	1	4.00			4.00	Ea
For Second Floor	1	7.00			<u>7.00</u>	Ea
				Total	11.00	Ea
				Say	11.00	Ea
Item No.34						
Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. 3 1/2 core 25 Sq. mm						
For Second Floor	1	60.00			60.00	
				Total	60.00	
				Say	60.00	
Item No.35						
Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. 3 1/2 core 25 Sq. mm						
For First Floor	1	55.00			55.00	
				Total	55.00	
				Say	55.00	
Item No.36						
Providing & erecting weather proof, dust & vermin proof, with three compartment individual doors wall mounted front operated indoor type cubical panel board necessary IP-65 and above protection as per approval from engineer incharge made from 16 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accesories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of locally fabricated panel board with powder coating Simens grey colour. Feeder) : Power supply MCCB 16 KA 1 No., 3 Nos. (63A 4 Pole MCCB 16 KA 2 Nos., 40A 4 Pole MCCB 16 KA 1 Nos.) Alu. Bushbar - 1 set, Indicator Lamp - 3 Nos., Function Meter (92x92 mm) L&T						
For Lift, First and Second Floor	1	1.00			1.00	
				Total	1.00	
				Say	1.00	
Item No.37						
Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size						
First and Second Floor						
(a) 2 wire 1.5 sq. mm	1	450.00			<u>450.00</u>	Rmt.
				Total	450.00	Lit.
				Say	450.00	Lit.
Item No.38						

	No.	Length	Breadth	Depth	Quantity	Unit
Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size						
First and Second Floor						
(a) 2 wire 2.5 sq. mm	1	350.00			<u>350.00</u>	Rmt.
				Total	350.00	Lit.
				Say	350.00	Lit.
Item No.39						
providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size						
First and Second Floor						
(a) 2 wire 4 sq. mm	1	300.00			<u>300.00</u>	Rmt.
				Total	300.00	Lit.
				Say	300.00	Lit.
Item No.40						
Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed						
First and Second Floor						
(a) 25 mm pvc for CCTV, Lan etc.	1	1750.00			<u>1750.00</u>	Rmt.
				Total	1750.00	Lit.
				Say	1750.00	Lit.
Item No.41						
Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in following type of pipe to be erected concealed in / flushed on wall / ceiling complete with 6A Tissino Type ISI marked accessories with earth continuity erected on Metal/PVC//Wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet. with necessary Lamp holder/ceiling rose / H.D.Connector as directed.						
For First Floor	1	2.00			2.00	Ea
For Second Floor	1	4.00			<u>4.00</u>	Ea
				Total	6.00	Ea
				Say	6.00	Ea
Item No.42						
Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories. (ii) For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. wire from MCB db board. (5/15 A plug point)						
For First Floor	1	1.00			1.00	Pt.
For Second Floor	1	5.00			<u>5.00</u>	Pt.
				Total	6.00	Pt.
				Say	6.00	Pt.
Item No.43						
Chemical Earthing 50 mm Dia. 3 mtr. Length with chemical bag GI/ copper coated.						
	1	1.00			1.00	set
				Total	1.00	set
				Say	1.00	set

	No.	Length	Breadth	Depth	Quantity	Unit
PLUMBING WORK						
Item No.44						
Providing and fixing in position cowel vent to pipes. (B) 75 mm. dia.						
	1	2.00			2.00	No.
				Total	2.00	No.
				Say	2.00	No.
Item No.45						
Providing and fixing in position cowel vent to pipes. (C) 100 mm. dia.						
	1	2.00			2.00	No.
				Total	2.00	No.
				Say	2.00	No.
Item No.46						
Providing and fixing cast iron (spun) nahni trap of the following nominal diamter of self cleaning design with C.I screwed						
	1	7.00			7.00	No.
				Total	7.00	No.
				Say	7.00	No.
Item No.47						
Providing and fixing 100 mm sand cast iron grating for gully, floor or nahni trap.						
	1	7.00			7.00	No.
				Total	7.00	No.
				Say	7.00	No.
Item No.48						
Providing and fixing 600mm x 450 mm Bevelled edge mirror of superior glass mounted on 6 mm Thick A.C. Sheet or plywood sheet and fixed to wooden plugs with C.P. Brass screws and washers.						
	1	2.00			2.00	No.
				Total	2.00	No.
				Say	2.00	No.
Item No.49						
Providing and fixing screw down bib taps of follwing size (A) Brass screw down bib tap polished bright. (ii) 20 mm dia						
	1	10.00			10.00	No.
				Total	10.00	No.
				Say	10.00	No.
Item No.50						
Providing and fixing screw down stop tap (B) 20 mm. dia.						
	1	5.00			5.00	No.
				Total	5.00	No.
				Say	5.00	No.
Item No.51						
Providing and fixing gun metal check or non return fullway wheel valve (C) 25 mm. dia.						
	1	3.00			3.00	No.
				Total	3.00	No.
				Say	3.00	No.
Item No.52						
Providing and fixing gun metal check or non return fullway wheel valve (B) 20 mm. dia.						
	1	2.00			2.00	No.
				Total	2.00	No.
				Say	2.00	No.
Item No.53						
Providing and fixing chromium plated brass half turn flush cock of approved quality including fixing in pipe line etc. complete (ii) 25 mm dia						
	1	4.00			4.00	No.

	No.	Length	Breadth	Depth	Quantity	Unit
				Total	4.00	No.
				Say	4.00	No.
Item No.54						
Providing and fixing ball cock of approved quality as directed. (A) Copper Metal (i) 25 mm. dia.						
	1	2.00			<u>2.00</u>	No.
				Total	2.00	No.
				Say	2.00	No.
Item No.55						
Providing and fixing Table top Basin having Granite of 18 to 20 mm thick having minimum single piece length of 210 mm to be fixed on Walls to act as Study Table / Wash Basin , including fixing the same using cement mortar in proportion 1:1 etc. comp , Necessary Groove in Walls By Machine , Front Side Round the edge and cutting hole in granite stone for washbasin / Computer Wire , including rubbing and polishing finishing jointed with grey cement slurry including rubbing and polishing finishin get complete. etc complete.. with all labour & material & equipment.....etc. Completed as directed by Engineer-in-charge (A) Granite slab 18mm thick						
	1	3.00			<u>3.00</u>	No.
				Total	3.00	No.
				Say	3.00	No.
Item No.56						
Providing and fixing wash down water closet (European type, W.C. Pan) with integral P or S trap including jointing the trap with soil pipe in Cement Mortar 1:1 (1-Cement : 1-fine sand) including providing & fixing plastic seat and cover for wash down WC with C.P. brass hinges and rubber buffer back plastic seat and including providing & fixing PVC Flushing tank with a pair of CI or MS bracket with polythene float CP Brass handle unions, Angle cock including hand faccet and couplings for connection with inlet outlet and overflow pipes 40mm dia. porcelain enameled flush bend including cutting hole in walls and making good the same connection the flush bend, flush tank capacity of 10 Lit. with cistern and closet of vitreous china.						
	1	4.00			<u>4.00</u>	No.
				Total	4.00	No.
				Say	4.00	No.
Item No.57						
Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings make PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be cancelled as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.						
	1	20.00			<u>20.00</u>	Rmt
				Total	20.00	Rmt
				Say	20.00	Rmt
Item No.58						
Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe (SCH- 40) for cold water including fittings						
	1	22.00			<u>22.00</u>	Rmt
				Total	22.00	Rmt
				Say	22.00	Rmt

	No.	Length	Breadth	Depth	Quantity	Unit
Item No.59						
Providing laying and jointing in true line and level 40 mm dia. U.P.V.C. Pipe (SCH - 40) including fittings of PRINCE / SUPREME / ASTRAL / FINOLEX or equivalent make or as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two meter C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.						
	1	35.00			<u>35.00</u>	Rmt
				Total	35.00	Rmt
				Say	35.00	Rmt
Item No.60						
Providing laying and jointing in true line and level 110 & 75 mm diameter U.P.V.C. SWR Type B pipe conforming to IS 13592-1992 with one end plain and other end socketed with rubbering, & fitting conforming to ISI 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 110 mm diameter x 149 mm length x 145 mm high at every 2000 mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pipes and joints and jointed with adhesive solvent cement including cost of all materials						
	1	30.00			<u>30.00</u>	Rmt
				Total	30.00	Rmt
				Say	30.00	Rmt
Item No.61						
Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300 mm x 300 mm Size (inside) with standard weight (i) Square mouth traps. (C) 150 mm x 100 mm size - P or R type						
	1	4.00			<u>4.00</u>	No.
				Total	4.00	No.
				Say	4.00	No.
Item No.62						
Constructing brick masonry road gully chamber 500 mm x 450 mm x 660 mm including 500mm x 450mm C.I. horizontal grating with frame complete.						
	1	2.00			<u>2.00</u>	No.
				Total	2.00	No.
				Say	2.00	No.
Item No.63						
Constructing brick masonry road gully chamber 1100 mm x 500 mm x 775 mm including 500 mm x 450 mm C.I. horizontal grating with frame and vertical grating complete.						
	1	1.00			<u>1.00</u>	No.
				Total	1.00	No.
				Say	1.00	No.
Item No.64						
Excavation for foundation upto 1.5 m depth including sorting out and stacking of useful materials and disposing off the excavated stuff upto 50 Meter lead.(A) Loose or soft soil						
	1	30.00	0.60	0.60	<u>10.80</u>	Cmt
				Total	10.80	Cmt
				Say	10.80	Cmt
Item No.65						
Providing erecting and fixing double coated Syntex or equivalent PVC. (ISI) mark water tank of reqd capacity each with all necessary fittings & connection etc. comp on terrace						
	1	1000.00			<u>1000.00</u>	Lit.
				Total	1000.00	Lit.
				Say	1000.00	Lit.

Rate Analysis - 1

ITEM NO: 10

Providing and laying granite stone for kitchen platform of size 60 cm x 70 cm and respected length with dhar polish or moulding and support & base with s.s. steel frame table as per site requirement and top with selected shed of granite with gas pipe provision and sink including all material and labour also executed as per directed by engineer incharge.

Consider Cost For size **7 ft x 2.5 ft x 2.4 ft**

1.344 sq.mt

Sr. No.	Description	Ref.	Qty.		Rate	Amount	Unit
1	Granite Slab 18 mm thick	M253	3	x	1347.46	4042.38	Sq.mt.
2	Marble slab	M 390	3	x	594.07	1782.21	Sq.mt.
3	support + front patty	M253	6.122	x	1347.46	8249.15	Sq.mt.
4	Skilled mason	L018	3.5	x	791	2768.50	Each
5	Skilled Mazdoor (Male)	L022	4	x	505	2020.00	Each
6	Carriage of Marble Slab	Lump	1.34	x	85	113.90	Lump
7	Cement Mortar 1:2	02006A	0.135	x	4430.61	598.13	Cum.
8	Round the Edge Front Side	M724	12.8	x	85	1088.00	Rmt
9	Aeraldite	M.R.	1	x	1250	1250.00	KG
10	color cement	M616	0.006	x	27343.75	164.06	Tonne.
11	brick work for pali	06001AA	0.134	x	4550.6	609.78	Cum.
12	Plaster	17001B	1.34	x	135.12	181.06	Sq.mt.
13	Glazed tiles	M628	3.23	x	54.24	175.20	Sq.mt.
14	Sink	23019	1.00	x	2303.62	2303.62	Nos
					Cost of 1.34 Sq.mt.	25345.99	Sq.mt.
					Add 1% for O.H. & W.C.	253.46	Sq.mt.
					(Amount without Carriage)	25485.55	Sq.mt.
					Cost of 1 Sq.mt	19444.07	Sq.mt.
					Total	19444.07	Sq.mt.
					Say	19444.10	Sq.mt.

Rate Analysis 2

ITEM NO: 12

Providing & fixing 35 mm thick Single shutter flush door solid core finished with both side 1 mm thick laminationbo side like 'NOVAPAN 'or equivalent, of natural wood grain shade as approved by this office having telephor blackgranite 18 mm thick frame with double stone including fixed ventilation above lintle level as per drg and as p the instruction of Engineer in charge.with necessary SS hinges and fixtures etc . complete.

Door Size 1 x 1.1 x 2.10 = 2.31		Opening Size	1.10 x 2.10 = 2.31	Sq.mt
Sr. No	Description	Ref.	Qty. Rate	Amount Unit
1	Providing & Laying Black Granite 16	P. Sor	2.65 x 1347.46	3570.77 Sq.mt
	2 x 2.25 x 0.30 = 1.35	(It No.		
	2 x 2.25 x 0.15 = 0.675	M253)		
	1 x 1.10 x 0.30 = 0.33			
	1 x 1.10 x 0.15 = 0.165			
	Total = 2.52	2024-25		
	Add 5 % Waste = 0.126			
	Total 2.646			
	Add for moulding Round Charge	M724	18.10 x 85	1538.50 Sq.mt
	and cutting charge.			
	2 x 2 x 2.10 = 8.4			
2	2 x 2 x 1.1 = 4.4			
	For 0.15			
	1 x 2 x 2.10 = 4.2			
	1 x 1 x 1.1 = 1.1			
	Total = 18.1			
3	Cement Sand and Aerolite	LUMP	2.31 x 85	196.35 Lump
4	Labour Work	L018	1.00 x 791	791.00 Sq.mt
			Total Cost	6096.62 Sq.mt
			Total for 2.31 Sq.mt	6096.62 Sq.mt
			Cost for 1 Sq.mt	2639.23 Sq.mt
			Say	2639.30 Sq.mt

Door size (D1)		1.00 x 1.10 x 2.10					
A	Description				Rate		Unit
	Providing & Fixing particle board panels Shutter (IT 10010BA)	1 x 1.10 x 2.10	2.31		Rate 3300.02	7623.0462	Sq.mt
					Total (A)	7623.05	Sq.mt
B	Description				Rate		Unit
	Providig & fixing Laminate sheet on both faces (IT M788)	2 x 1.10 x 2.10	4.62		Rate 296.61	1370.3382	Sq.mt
					Total (B)	1370.34	Sq.mt
D	Description				Rate		Unit
	Handle	2 x Pair	M278	=	44.07	88.14	Nos
	S.S. Aldrop 25 Cm long of ASIS 304 Grade	2 x Nos	M710	=	396.61		
				=		793.22	Nos
	Locks Godrej Mortice lock cover	1 x Pair	M373	=	326.27	326.27	Nos
	Stopper	1 x Nos	M707	=	126.27	126.27	Nos
	screw,nails,fevicol & Cutting Hole For Lock	1	Lumpsum	=	600	600	Lump
	Floor Spring	1 x Nos	M704	=	1800.85	1800.85	Nos
					Total (C)	3734.75	No.

F	Description	Rate	Unit
	Lumpsum		
Labour charges	1 x 2 x 801.00 = 1602		
	L007	1602	
	Total (F)	1602.00	Sq.mt
	Total (A+B+C+D+E+)	20426.75	Sq.mt
	Total (A+B)/2.31	8842.75	Sq.mt
	Say	8842.80	Sq.mt

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Rate Analysis - 3

ITEM NO: 43

Providing and fixing Table top Basin having Granite of 18 to 20 mm thick having minimum single piece length of 210 mm to be fixed on Walls to act as Study Table / Wash Basin , including fixing the same using cement mortar in proportion 1:1 etc. comp , Necessary Groove in Walls By Machine , Front Side Round the edge and cutting hole in granite stone for washbasin / Computer Wire , including rubbing and polishing finishing jointed with grey cement slurry including rubbing and polishing finishing get complete. etc complete.. with all labour & material & equipment.....etc. Completed as directed by Engineer-in-charge (A) Granite slab 18mm thick

Consider Cost Of

1.5 sq mtr

Sr. No.	Description	Ref.	Qty.		Rate	Amount	Unit
1	Granite Slab 18 mm thick	M253	1.55	x	1347.46	2088.56	Sq.mt.
2	Granite support + front patty	M253	0.705	x	1347.46	949.96	Sq.mt.
3	Kota stone	M490	2.26	x	198.31	447.19	Sq.mt.
4	SS sink / vitious modern pattern	M729	1	x	1525.42	1525.42	Each
5	Skilled mason	L018	1	x	791	791.00	Each
6	Skilled Mazdoor (Male)	L022	1	x	505	505.00	Each
7	Carriage of Marble Slab	M.R.	1	x	75	75.00	Each
8	Cromium plated bottle trap	M774	1	x	250.89	250.89	Nos
9	Sundries-27	Lump	1	x	100	100.00	
10	C.P. Pillar swan neck	M717	1	x	641.53	641.53	Cum.
11	Cement Mortar 1:6	02014A	0.224	x	2212.02	495.49	Cum.
12	Round the Edge Front Side	M724	3	x	85	255.00	Nos
13	Cutting Charges of Hole in Granite	M.R.	1	x	200	200.00	Nos
14	White cement	M616	0.006	x	27343.75	164.06	Tonne.
15	Brass FT	MR	1	x	100	100.00	Nos
16	Bushing	MR	2	x	35	70.00	Nos
17	Elbow + coupling	Lump		x		100.00	Nos
18	JALI + waste pipe + w. coupling	Lump	1 set	x		200.00	Nos
Cost of 1.5 Sq.mt.						8959.11	No.
Add 1% for O.H & W.C.						89.59	No.
(Amount without Carriage)						8973.70	No.
Add 10 % For Contractor's Profit on Non SOR Item						110.00	No.
Cost of 1 Built in Basin in marble / granite						9158.70	No.
Total						9158.70	No.
Say						9158.70	No.

Rate Analysis -4

Item No: 44

Providing and fixing wash down water closet (European type, W.C. Pan) with integral P or S trap including providing and fixing the trap with soil pipe in Cement Mortar 1:1 (1-Cement : 1-fine sand) including providing & fixing plastic seat and cover for wash down WC with C.P. brass hinges and rubber buffer back plastic seat and including providing and fixing PVC Flushing tank with a pair of CI or MS bracket with polythene float CP Brass handle unions, Angle including hand faucet and couplings for connection with inlet outlet and overflow pipes 40mm dia. porcelain enameled flush bend including cutting hole in walls and making good the same connection the flush bend, tank capacity of 10 Lit. with cistern and closet of vitreous china.

Detail of Cost for 1.00 Nos.

No.	Description	Quantity	Per	Rate	Amount
[1]	Providing and fixing water closet (European type, W.C. Pan) of vitreous china. Ch.23/It.Code:23010/Pg.179)	1.00	x No.	= 1343.38	= 1343.38
[2]	providing & fixing plastic seat and cover Ch.23/It.Code:23017/19.2/Pg.180)	1.00	x No.	= 288.45	= 288.45
[3]	for jet spray heavy duty SS 304 grade 60cm long It.No. M738/Pg.32)	1.00	x No.	= 305.93	= 305.93
[4]	Providing and fixing chromium plated brass Angle cock (i) 15mm (It.No. M718/Pg.32)	1.00	x No.	= 403.39	= 403.39
[5]	Flush Tank (It.No. Mat:216/Pg.10)	1.00	x No.	= 677.97	= 677.97
[6]	Hand Faucet (It.No. Mat:739/Pg.33)	1.00	x No.	= 576.27	= 576.27
Total cost = [1] to [6] =					3595.39
Add for Cont. profit & O.H Charges @ 15% =					539.31
i.e. Cost of 1.00 Nos. =					4134.70
Say =					4135.00

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Rate Analysis - 05

Item No: 54

Structural steel work (Confirming to IS 4923-1997) riveted, boltedor welded in builtup for all type sections, in framed work,including cutting, hoisting, fixing in position and aincluding applying a priming coat of red lead paint and two coats of oil painting all complete as per the structural designs and directions of Engineer in charge. (PEB structure)

For 1 Kg

1.00	=	1.00	Rmt
Total	=	1.00	Rmt

No.	Description	Quantity	Per	Rate	Amount
[1]	Structural steel work (Confirming to IS 4923-1997) riveted, boltedor welded in builtup for all type sections, in framed work,including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge. Column (122 x 61 x 3.6mm) Ch.10/It.Code:20054/Pg.102)	1.00	x Kg	= 130.52	= 130.52
[2]	Applying priming coat over new steel and other metal surface after and including.. Area. $1/1.10 \times 4 \times 0.012 = 0.044$ Ch.19/It.Code:19001/19.2/Pg.150)	0.044	x Rmt	= 36.56	= 1.61
[3]	Painting two coats on new steel and other metal surface after and including.. Ch.19/It.Code:19002/19.7/Pg.150)	0.044	x 1.00	= 91.29	= 4.02
Total cost = [1] to [3] =					136.15
Total Cost for 72.40 Kg =					136.15
i.e. Cost of 1.00 Kg =					136.15 /Kg
Say =					136.20 /Kg

ESTIMATE

Name of Work :								
Item No.	Qty	unit	SOR No.	Item Description	SOR Rate (Rs.)	L.C 1%	Nett Rate (Rs.)	Amount
1	42	Pts.	1-2-1.	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete. (b) As per Govt. rules please use 90 mtrs. or 100 mtrs. coils of wires in whole projects.	445.00	4.45	449.45	18876.90
2	107	Pts.	1-1-4.	Point wiring for Tissino / Modular secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed. Note:- Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point. (a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete (b) As per Govt. rules please use 90 mtrs. or 100 mtrs.	131.00	1.31	132.31	14157.17
3	42	Pts.	1-2-2.	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete (b) As per Govt. rules please use 90 mtrs. or 100 mtrs. coils of wires in whole projects.	632.00	6.32	638.32	26809.44
4	45	Pts.	1-2-4.	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories cat III	255.00	2.55	257.55	11589.75

Item No.	Qty	unit	SOR No.	Item Description	SOR Rate (Rs.)	L.C 1%	Nett Rate (Rs.)	Amount
5	4	Pts.	1-2-5.	Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires erected in below type of pipe with 6A Modular type switches and following type of accessories erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose or H.D.Connector as directed. (a) with medium class Rigid PVC pipe and accessories erected flushed on wall/ceiling complete cat III (b) As per Govt. rules please use 90 mtrs. or 100 mtrs. coils of wires in whole projects.	562.00	5.62	567.62	2270.48
6			1-2-6.	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge.				
	30	Ea		(7) Blank Plate Single Cat.III	25.00	0.25	25.25	757.50
	3	Ea		(4) TV Co-axial Socket outlet CAT III	159.00	1.59	160.59	481.77
	69	Ea		(8) Computer RJ-45 socket cat III	159.00	1.59	160.59	11080.71
	35	Ea		(9) 16 Amp. SP one way switch Cat.III	179.00	1.79	180.79	6327.65
	35	Ea		(10) 6/16Amp. Universal socket Cat.III	198.00	1.98	199.98	6999.30
7			1-3-2.	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed				
	1525	Mtr.		(a) 20 mm	24.00	0.24	24.24	36966.00
7A			1-3-6	Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free and flame proof confirming BS with necessary end caps Internal and external bend, flat bends, coupler, tee etc..All necessary accessories and measuring of following sizes				
	200	Mtr.		(2) 100 mm x 50 mm trunking	424.00	4.24	428.24	85648.00
	300	Mtr.		(3) 50 mm x 50 mm trunking	187.00	1.87	188.87	56661.00
8	1750	Mtr.	1-4-1.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size Cat.III (A) with medium class Rigid PVC pipe and accessories (b) 2 wire 2.5 sq. mm (b) As per Govt. rules please use 90 mtrs. or 100 mtrs. coils of wires in whole projects	82.00	0.82	82.82	144935.00
	50	Mtr.		(a) 2 wire 1.5 sq. mm	62.00	0.62	62.62	3131.00

Item No.	Qty	unit	SOR No.	Item Description	SOR Rate (Rs.)	L.C 1%	Nett Rate (Rs.)	Amount
9			1-4-2.	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size Cat.III (A) with medium class Rigid PVC pipe and accessories (b) As per Govt. rules please use 90 mtrs. or 100 mtrs. coils of wires in whole projects.				
	440	Mtr.		(a) 2 wire 4 sq. mm	111.00	1.11	112.11	49328.40
	265	Mtr.		(h) 4 wire 6 sq. mm	258.00	2.58	260.58	69053.70
10			1-4-4.	providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.				
	6	Mtr.		(b) One wire 1.50 sq. mm	17.00	0.17	17.17	103.02
	58	Mtr.		(f) One wire 10.00 sq. mm	91.00	0.91	91.91	5330.78
	4	Mtr.		(h) One wire 25.00 sq. mm	234.00	2.34	236.34	945.36
	4	Mtr.		(i) One wire 35.00 sq. mm	298.00	2.98	300.98	1203.92
11	80	Mtr.	1-4-5.	Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed. e) 1.50 Sq.mm 3 core round PVC sheathed	46.00	0.46	46.46	3716.80
12	40	Mtr	1-4-6	Providing & Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid bare copper insulated with Foam PE & Secondary conductor made of poly - Aluminium film bonded Al. Braids @ suitable coverage overall sheathed with black PVC insulation. (e) RG-11	62.00	0.62	62.62	2504.80
13	3010	Mtr	1-4-8	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	47.00	0.47	47.47	142884.70
14	49	Ea	1-6-2 (B)	Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories cat III	1122.00	11.22	1133.22	55527.78

Item No.	Qty	unit	SOR No.	Item Description	SOR Rate (Rs.)	L.C 1%	Nett Rate (Rs.)	Amount
15	4	Nos.	1-6-13.	Supplying & erecting Electronic Type Cordless Call Bell erected on PVC/Metal board having portable bell push working on D.C. & bell on 230V A.C. supply with cells / battery (Make Anchor)	248.00	2.48	250.48	1001.92
16	3	Ea	2-8-5.	Supply & fixing decorative Hanging light with glass having cylindrical or square shape having length not less than 10" & width not less 3.5" with holder, lead wire as per required length but not more than 1mm & base plate for fixing the fitting with ceiling.[a] suitable for led lamp cat III	1780.00	17.80	1797.80	5393.40
17	152	Ea	2-15-3	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt , LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Square/ Circular shaped Surface Mount Downlight with provision for spring loaded mounting clips complete.IP20 (ii) 11-15 watts, Surge-2 KVcat III (surface mount)	423.00	4.23	427.23	64938.96
18	1	Ea	3-4-1.	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V,having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	6112.00	61.12	6173.12	6173.12
19	2	Ea	3-4-2.	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating 125A. with Fixed thermal & magnetic release suitable to work on A.C.supply 50 c/s. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III	7976.00	79.76	8055.76	16111.52
20	1	Ea	3-6-8.	Supplying & erecting approved make Four Pole 415V change over switch interior for panel mounting with operating mechanism A.C.23 duty confirming to IS for(C)100-125A cat III	7713.00	77.13	7790.13	9348.16
21			3-8-2.	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections.				

Item No.	Qty	unit	SOR No.	Item Description	SOR Rate (Rs.)	L.C 1%	Nett Rate (Rs.)	Amount
	4.25	Rn.Mtr		(C) Suitable for 300 Amp. capacity Suitable for 120 Amp. capacity (D)	4861.00	48.61	4909.61	20865.84
22	108	Ea	3-10-1.(B)	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark cat III	111.00	1.11	112.11	12107.88
23	12	Ea	3-10-2.	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (B) 40 Amp. Cat.III	327.00	3.27	330.27	3963.24
24	15	Ea	3-10-5.	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat III	730.00	7.30	737.30	11059.50
25	1	Ea	3-11-2.	Plastic enclosure fitted with DIN rail suitable for incorporating One / Two nos. MCB	52.00	0.52	52.52	52.52
26	1	Ea	3-11-3.	Plastic enclosure fitted with DIN rail suitable for incorporating Three /Four nos. MCB	107.00	1.07	108.07	108.07
27			3-11-5.	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for				
	6	Ea		(B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (b) sheet steel double door(iii)8 way	3379.00	33.79	3412.79	20476.74
28	20	Ea	3-12-1.	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP cat III	2213.00	22.13	2235.13	44702.60
29	15	Kg.	3-14-5	Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 SWG.	77.00	0.77	77.77	1166.55

Item No.	Qty	unit	SOR No.	Item Description	SOR Rate (Rs.)	L.C 1%	Nett Rate (Rs.)	Amount
30	2	Ea	3-14-10	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate including value of earth resistance of installation. [C] For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA)i.e. independent Earthing located in other than normal soil i.e. Soft Rock, Marshy Soil etc.. -Length of Pipe : 3 Mtrs. -Back filling Compound :2 nos Bags of 25 Kg. Make : Connect	10489.00	104.89	10593.89	21187.78
31			3-16-1	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board necessary IP-42 and above protection as per approval from engineer incharge made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary accessories , supporting angles/ flats channel including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of				
				supplied switch gears, BUSBARS, suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses/MCB for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket,heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete. The Panel shall be painted with epoxy powder coating.				
	2.40	sq. mtr		(The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size. (A) locally fabricated panel board (i) with 350 mm depth (ii) with 150 mm depth	10365.00	103.65	10468.65	25124.76
	0.58	sq. mtr		SITC of BUSBAR Box having size of 0.760mm x 0.760mm x 0.150mm and 25 x 6 copper Bus Bar strips 560mm x 4 = 2240mm length, suitable for 3 out going cable from each strips.	15365.00	153.65	15518.65	9000.82

Item No.	Qty	unit	SOR No.	Item Description	SOR Rate (Rs.)	L.C 1%	Nett Rate (Rs.)	Amount
32	40	Kgs.	3-16-4-A	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	77.00	0.77	77.77	3110.80
33			4-3-3.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables				
	30	Mtr		(D) 3 1/2 core 70 Sq. mm (35 Sq. mm 1/2 core)	375.00	3.75	378.75	11362.50
34			4-3-4.	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables				
	20	Mtr		(C) 4 core 10 Sq. mm	139.00	1.39	140.39	2807.80
35		Ea	4-6-1.	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. .				
	2	Ea		(C) 2 to 4 core 10 Sq. mm	38.00	0.38	38.38	76.76
36		Ea	4-6-3.	Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.				
	2	Ea		(C) 3 & 1/2 core 70 Sq. mm	102.00	1.02	103.02	206.04
37			4-7-1.	Solder less crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner.				
	8	Ea		(B) 10 Sq.mm	13.00	0.13	13.13	105.04
	2	Ea		(D) 35/50 Sq.mm.	20.00	0.20	20.20	40.40
	6	Ea		(E) 70 Sq.mm.	25.00	0.25	25.25	151.50

Item No.	Qty	unit	SOR No.	Item Description	SOR Rate (Rs.)	L.C 1%	Nett Rate (Rs.)	Amount
38	42	Ea	5-1-8.	Supply, Installation, Testing and Commissioning of suitable sweep, BEE 5 Star rated, Ceiling fan with Brush Less Direct Current (BLDC) permanent ferrite magnet Motor, class of insulation: B, Rust free 3 nos.Aluminium blades, 2 nos. canopies, shackle kit with earthing provision, copper winding, Power factor not < 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM,230v (tolerance as per IS : 374-2019), THD < 10%, compitible with electronic regulator unit for Speed Control and all remaining accessories including safety pin, nut bolts, washers, temperature rise = 75 degree C (Max.), suitable for 140 to 285 Voltage and rectifier circuit with surge, over current and overload protection , 50 Hz, Single phase AC Supply, earthing etc. Complete as required.[Make shall be approved by Engineer in Charge] (A) 1200 mm Sweep (48")	2603.00	26.03	2629.03	110419.26
39	42	Mtr.	5-2-1.	Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	107.00	1.07	108.07	4538.94
40	42	Ea	5-2-4.	Providing Fan clamp of 30 x 5 mm flat of required length & 10 mm M.S. Bolt & Nuts erected with necessary hook of 10 mm M.S. Round Bar.	98.00	0.98	98.98	4157.16
							Total Rs	1167050.51
							GST 18%	210069.09
							Total amount with GST	1377119.60
							contingency charge	22880.40
							Say Total Amount Rs.	1400000.00

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LOAD STATEMENT

Name of work	0
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SR	ITEM	QTY	LOAD/UNIT	TOTAL
No.			(Watt)	(Watt)
1	surface light	152	15	2280
2	Fan Point	42	50	2100
3	exhaust fan	2	50	100
4	5Amp Loop Pt	45	100	4500
5	16 Amp S.S	24	500	12000
6	16 Amp S.S for w.c	11	2000	22000
7	computer board	49	500	24500
8	motive load	1	3730	3730
				71210
			TOTAL (A)	71210

Diversity Factor 0.80 56968

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PANEL AND SWITCHGEAR ALLOCATION SHEET

Name of work		HQA panel G.F	TOTAL
ITEM No.	ITEM		
1	(b) One wire 1.50 sq. mm	6	6.00
2	(f) One wire 10.00 sq. mm	58	58.00
3	(h) One wire 25.00 sq. mm	4	4.00
4	(i) One wire 35.00 sq. mm	4	4.00
6	25A TO 100A FP MCCB	1	1.00
7	125 A mccb	2	2.00
10	125 A c/o	1.2	1.20
11	300A Cu Busbar	2	2.00
14	DP-MCB 40A	12	12.00
15	DP-RCCB 40A	1	1.00
16	FP-MCB 63A	8	8.00
17	chamical Earthing	2	2.00
18	iron strip for earthing	10	10.00
19	led lens	3	3.00
21	panel size	2.4	2.40





