

Request for Proposal (RFP) Document for Construction of Incubation Center at Kota

Reference No.: F3.3(213)/RISL/PUR/2018/2333

Dated: 07-06-2018

Mode of Bid Submission	Online through eProcurement/ eTendering system at http://eproc.rajasthan.gov.in
Procuring Authority	Managing Director, RajCOMP Info Services Ltd. (RISL), First Floor, C-Block, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur-302005 (Rajasthan)
Date & Time of Pre-Bid Meeting	22-June-2018 at 11.00 AM
Last Date & Time of Submission of Bid	10-July-2018 at 12.00 PM
Date & Time of Opening of Technical Bid	10-July-2018 at 03.00 PM

Bidding Document Fee: Rs. 1000 (Rupees One Thousand only)

Name of the Bidding Company/ Firm:	
Contact Person (Authorised Bid Signatory):	
Correspondence Address:	
Mobile No.	Telephone & Fax Nos.:
Website & E-Mail:	

RajCOMP Info Services Limited (RISL)

First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj.)

Phone: 0141- 5103902 Fax: 0141-2228701

Web: <http://risl.rajasthan.gov.in>, Email: kkmishra.risl@rajasthan.gov.in

ABBREVIATIONS & DEFINITIONS

Act	The Rajasthan Transparency in Public Procurement Act, 2012 (Act No. 21 of 2012) and Rules thereto
Authorised Signatory	The bidder's representative/ officer vested (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement. Also called signing officer/ authority having the Power of Attorney (PoA) from the competent authority of the respective Bidding firm.
BG	Bank Guarantee
Bid/ eBid	A formal offer made in pursuance of an invitation by a procuring entity and includes any tender, proposal or quotation in electronic format
Bid Security	A security provided to the procuring entity by a bidder for securing the fulfilment of any obligation in terms of the provisions of the bidding documents.
Bidder	Any person/ firm/ agency/ company/ contractor/ supplier/ vendor participating in the procurement/ bidding process with the procurement entity
Bidding Document	Documents issued by the procuring entity, including any amendments thereto, that set out the terms and conditions of the given procurement and includes the invitation to bid
BoM	Bill of Material
BSR	Basic Schedule of Rates
CMC	Contract Monitoring Committee
Competent Authority	An authority or officer to whom the relevant administrative or financial powers have been delegated for taking decision in a matter relating to procurement. MD, RISL in this bidding document.
Contract/ Procurement Contract	A contract entered into between the procuring entity and a successful bidder concerning the subject matter of procurement (Execution of Work)
Contract/ Project Period	The Contract/ Project Period shall commence from the date of issue of Work order till 4.5 months. The security deposit will be returned after 2 years from date of completion.
COTS	Commercial Off the Shelf Software
Day	A calendar day as per GoR/ GoI.
DeitY, GoI	Department of Electronics and Information Technology, Government of India
DoIT&C	Department of Information Technology and Communications, Government of Rajasthan.
ETDC	Electronic Testing & Development Center
FOR/ FOB	Free on Board or Freight on Board
GoI/ GoR	Govt. of India/ Govt. of Rajasthan
Goods	All articles, material, commodities, electricity, livestock, furniture, fixtures, raw material, spares, instruments, software, machinery, equipment, industrial plant, vehicles, aircraft, ships, railway rolling stock and any other category of goods, whether in solid, liquid or gaseous form, purchased or otherwise acquired for the use of a procuring entity as well as services or works incidental to the supply of the goods if the value of services or works or both does not exceed that of the goods themselves
ICT	Information and Communication Technology.
IFB	Invitation for Bids (A document published by the procuring entity inviting Bids relating to the subject matter of procurement and any amendment thereto and includes notice inviting Bid and request for proposal)
INR	Indian Rupee

IS	Indian Standards
ISI	Indian Standards Institution
ISO	International Organisation for Standardisation
IT	Information Technology
ITB	Instruction to Bidders
LD	Liquidated Damages
LoI	Letter of Intent
NCB	A bidding process in which qualified bidders only from within India are allowed to participate
NeGP	National e-Governance Plan of Government of India, Department of Information Technology (DIT), Ministry of Communications and Information Technology (MCIT), New Delhi.
NIB	Notice Inviting Bid
Notification	A notification published in the Official Gazette
OEM	Original Equipment Manufacturer
PAN	Permanent Account Number
PBG	Performance Bank Guarantee
PC	Procurement/ Purchase Committee
PQ	Pre-Qualification
Procurement Process	The process of procurement extending from the issue of invitation to Bid till the award of the procurement contract or cancellation of the procurement process, as the case may be
Procurement/ Public Procurement	The acquisition by purchase, lease, license or otherwise of works, goods or services, including award of Public Private Partnership projects, by a procuring entity whether directly or through an agency with which a contract for procurement services is entered into, but does not include any acquisition without consideration, and “procure” or “procured” shall be construed accordingly
Project Site	Wherever applicable, means the designated place or places.
PSD/ SD	Performance Security Deposit/ Security Deposit
Purchaser/ Tendering Authority/ Procuring Entity	Person or entity that is a recipient of a good or service provided by a seller (bidder) under a purchase order or contract of sale. Also called buyer. RISL in this RFP document.
PWD	Public Works Department
RajSWAN/ RSWAN	Rajasthan State Wide Area Network
RISL	RajCOMP Info Services Limited
RSDC	Rajasthan State Data Centre, New IT Building, Jaipur
RVAT	Rajasthan Value Added Tax
Services	Any subject matter of procurement other than goods or works and includes physical, maintenance, professional, intellectual, consultancy and advisory services or any service classified or declared as such by a procuring entity and does not include appointment of any person made by any procuring entity
SLA	Service Level Agreement is a negotiated agreement between two parties wherein one is the customer and the other is the service provider. It is a service contract where the level of service is formally defined. In practice, the term SLA is sometimes used to refer to the contracted delivery time (of the service) or performance.

SSDG	State Services Delivery Gateway
State Government	Government of Rajasthan (GoR)
State Public Procurement Portal	http://sppp.raj.nic.in
STQC	Standardisation Testing and Quality Certification, Govt. of India
Subject Matter of Procurement	Any item of procurement whether in the form of goods, services or works
TIN	Tax Identification Number
TPA	Third Party Auditors
VAT/ CenVAT	Value Added Tax/ Central VAT
WO/ PO	Work Order/ Purchase Order

1. NIB - NOTICE INVITING BID

 RajCOMP Info Services Ltd. (A Government of Rajasthan undertaking)		email: info.risl@rajasthan.gov.in website: www.risl.rajasthan.gov.in
INVITATION FOR BID (IFB) & NOTICE INVITING BID (NIB)		
Reference No.: F3.3 (213)/RISL/PUR/2018/2333		Date: 7-6-2018
UBN No.: RISL181942LB00041		
Name & Address of the Procuring Entity	<ul style="list-style-type: none"> Name: RajCOMP Info Services Ltd, Government of Rajasthan Address: RISL, First Floor, C-Block, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur-302005 (Rajasthan) 	
Name & Address of the Project Officer In-charge (POIC)	<ul style="list-style-type: none"> Name: Shri K. K. Mishra Designation: Manager (Technical) Address: Third Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur (Rajasthan) Email: kkmishra.risl@rajasthan.gov.in 	
Subject Matter of Procurement	Request for Proposal (RFP) for Construction of Incubation Center at Kota	
Bid Procedure	Single stage: Two part (envelop) Open competitive eBid procedure at https://eproc.rajasthan.gov.in	
Bid Evaluation Criteria (Selection Method)	Technically responsive Lowest evaluated bidder shall be awarded the contract.	
Websites for downloading Bidding Document, Corrigendum's, Addendum etc.	<ul style="list-style-type: none"> Websites: http://sppp.raj.nic.in; http://eproc.rajasthan.gov.in; http://risl.rajasthan.gov.in; http://doitc.rajasthan.gov.in Bidding document fee: Rs 5,000 (Rupees Five Thousand only) in cash / Demand Draft in favor of "Managing Director, RISL" payable at "Jaipur". RISL Processing fee: Rs 1,000 (Rupees One Thousands only) in cash / Demand Draft in favor of "Managing Director, RISL" payable at "Jaipur". 	
Estimated Procurement Cost	Rs. 7,50,00,000 /- approx. (Rupees Seven Crore Fifty Lakh Only)	
Bid Security and Mode of Payment	Amount (INR): Rs. 15,00,000 /- (Rupees Fifteen Lakh Only) Mode of Payment: Banker's Cheque or Demand Draft or Bank Guarantee (in specified format), of a Scheduled Bank in favour of "Managing Director, RISL" payable at "Jaipur"	
Period of Execution of Work	6 Months	
Period of Sale of Bidding Document (Start/ End Date)	<ul style="list-style-type: none"> Start Date: 11/06/2018 from 05.00 PM onward End Date: 10/07/2018 upto 12:00 PM 	
Manner, Start/ End Date for the submission of Bids	<ul style="list-style-type: none"> Manner: Online e-Procurement Website (https://eproc.rajasthan.gov.in) Start Date: 11/06/2018 from 05.00 PM onward 	
C-Block, 1st Floor, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur-302005 ■ Tel: 141-5103902, 2229394 & 2220097, Fax: 141-2226701		



RajCOMP Info Services Ltd.
(A Government of Rajasthan undertaking)

email: info.risl@rajasthan.gov.in
website: www.risl.rajasthan.gov.in

	<ul style="list-style-type: none"> • End Date: 10/07/2018 upto 12:00 PM
Date, Time, Place of Pre-bid Meeting	<ul style="list-style-type: none"> • Date: 22/06/2018 at 11.00 AM • Place: RISL, 3rd Floor, IT Building, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur (Rajasthan)
Date/ Time/ Place of Technical Bid Opening	<ul style="list-style-type: none"> • Date: 10/07/2018 at 3:00 PM • Place: RISL, 3rd Floor, IT Building, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur (Rajasthan)
Date/ Time/ Place of Bid Financial Opening	Will be intimated later to the Technically qualified bidders
Bid Validity	90 days from the bid submission deadline

Note:

- 1) The procuring entity reserves the complete right to cancel the bid process and reject any or all of the Bids.
- 2) No contractual obligation whatsoever shall arise from the bidding document/ bidding process unless and until a formal contract is signed and executed between the procuring entity and the successful bidder.
- 3) Procurement entity disclaims any factual/ or other errors in the bidding document (the onus is purely on the individual bidders to verify such information) and the information provided therein are intended only to help the bidders to prepare a logical bid-proposal.
- 4) The provisions of RTPPA Act 2012 and Rules thereto shall be applicable for this procurement. Furthermore, in case of any inconsistency in any of the provisions of this bidding document with the RTPPA Act 2012 and Rules thereto, the later shall prevail.

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Chairman Cum Managing Director, RISL

2. PROJECT PROFILE & BACKGROUND INFORMATION

RajCOMP Info Services Limited (RISL) invite bids through competitive bidding to select and SI/ Agency / Bidder for Construction of Incubation Center at Kota.

3. PRE-QUALIFICATION/ ELIGIBILITY CRITERIA

1) A bidder participating in the procurement process shall possess the following minimum pre-qualification/ eligibility criteria.

S. No.	Basic Requirement	Specific Requirements	Documents Required
1.	Legal Entity	<p>The bidder should be a Proprietorship firm duly registered either under the Rajasthan Shops & Commercial Establishments Act, 1958 or any other Act of State/ Union, as applicable for dealing in the subject matter of procurement (Note: A self-certified declaration regarding the non-applicability of registration to any Act should be submitted by the bidder)</p> <p>OR</p> <p>A company registered under Indian Companies Act, 1956</p> <p>OR</p> <p>A partnership firm registered under Indian Partnership Act, 1932.</p>	<p>- Copy of valid Registration Certificates</p> <p>- In case of company, Copy of Certificates of incorporation In case of Contractual firm, Copy of registration certificate with any State Govt.</p> <p>- Central Govt. Works Department</p> <p>- In case of a consortium, a Consortium Agreement must be submitted, duly signed by the consortium members. The Consortium Agreement must clearly specify the stake of each member and outline their roles and responsibilities as per Annexure: 12</p>
2.	Financial: Turnover	<p>The bidder should have average annual financial turnover of Rs. 15 Crores for last three financial year 2014-15, 2015-16, 2016-17.</p> <p>Copies of balance sheets of last three financial years duly certified by a Chartered Accountant shall be submitted in support of the requisite financial Turnover.</p>	CA Certificate with CA's Registration Number / Seal
3.	Financial: Net worth	The net worth of the Bidder, as on 31 st March 2017, should be Positive.	CA Certificate with CA's Registration Number / Seal
4.	Technical Experience	<p>The bidder should have executed works related to construction of building comprising of Civil and any three of Building Services (Electrical, HVAC, Fire Fighting, Plumbing, Lift), within last Five (5) years in any Govt./ PSU/ Private Organization. The firm should submit proof of work order for the above job to qualify for the BID.</p> <p>One single order of similar nature of Rs. 8 crores</p>	<p>Work Order + Annexure-8 + Work Completion Certificates from the Client;</p> <p>OR</p> <p>Work Order + Annexure-8 + Self Certificate of Completion (Whenever require, RISL officials can be verified from Client);</p>

S. No.	Basic Requirement	Specific Requirements	Documents Required
		<p>OR</p> <p>Two order of similar nature of Rs. 4 crores</p> <p>OR</p> <p>Three order of similar nature of Rs. 3 crores</p> <p>In any of last Six financial years. (From 2012-13 to 2017-18) Completion / appreciation letters to be submitted along with the bid.</p>	
5.	Tax Registration and Clearance	<p>The bidder should have a registered number of</p> <p>i. GST registration certificate from GSTN, where his business is located</p> <p>ii. Income Tax / PAN number</p>	Copies of GST & PAN Card
6.	Mandatory Undertaking	<p>Bidder should:</p> <p>a) not be insolvent, in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and must not be the subject of legal proceedings for any of the foregoing reasons;</p> <p>b) not have, and their directors and officers not have, been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;</p> <p>c) not have a conflict of interest in the procurement in question as specified in the bidding document.</p> <p>d) comply with the code of integrity as specified in the bidding document.</p>	A Self Certified letter : Annexure-7: Self-Declaration

- 2) In addition to the provisions regarding the qualifications of the bidders as set out in (1) above: -
- a. The procuring entity shall disqualify a bidder as per the provisions under “Clause: Exclusion/ Disqualification of bids in Chapter-5: ITB”; and
 - b. The procuring entity may require a bidder, who was pre-qualified, to demonstrate its qualifications again in accordance with the same criteria used to pre-qualify such bidder. The procuring entity shall disqualify any bidder that fails to demonstrate its qualifications again, if requested to do so. The procuring entity shall promptly notify each bidder requested to demonstrate its qualifications again as to whether or not the bidder has done so to the satisfaction of the procuring entity.

- c. **Technical Terms for Consortium:** It should be noted that consortium partner should not be made with an idea to complete the financial and technical capabilities as required for clearance of PQ Criteria. The consortium if made for execution of civil/ electrical/ fire/ air conditioning/ Sanitary plumbing and other building services, it is necessary that the consortium partner should necessarily execute the work as per agreement, otherwise their consortium agreement will be consider null and void and there bank guarantee deposited will be forfeited and action will be taken as per Rules. In such condition the consortium firms will be blacklisted for future tendering of the RISL & DoIT&C.

4. SCOPE OF WORK, DELIVERABLES & TIMELINES

1) Details of work (SoW)

The work require construction of Incubation Center at Kota on different floors of existing building / New Construction which involves Stone / Brick Masonry, RCC Slab, Plaster Work, Flooring, False ceiling, False Flooring, Painting, Electrical, Ancillary Development works, as per details given in Bill of Quantity complying to standard specifications as enclosed.

S. No.	Description of work: Execution of detailed civil building, sanitary, HVAC, Fire and electrical works for construction of Incubation Center at Kota
a.	The work includes dismantling and demolishing work Earth work, anti-termite treatment for new construction, mortar, concrete, RCC work including steal shuttering, Brick / stone masonry, Marble /granite/tile work, steel and fencing work, Roofing, finishing work, water proofing, wood work, Aluminium & PVC work, water supply, drainage & disposal, minor repair and modification works, LT electrical works, outer development works, Access flooring, False ceiling work, Debris removal as per specifications and as per detailed drawing and makes approved by department .
b.	The work is to be executed either on ground floor or on first, second, third floor and fourth floor as per the availability of site. The contractor has to quote accordingly for construction as per drawings enclosed.
c.	The work is of turnkey nature from Electrical and water connection to completion of the work
d.	The contractor should quote with cost of material, Labour T & P & cost of water for suitable construction and Electricity required with all leads and lifts involved.
e.	All constructions should be as per IS codes for strength and specifications of material
f.	The contractor should see the site before quoting and understand the amount of work to be executed with in a period of 6 months of placement of order.
g.	The contractor should see the conceptual drawing enclosed or in the office of RISL, before quoting
h.	The contractor should quote for all necessary deductions of Income tax, works contract tax, service tax , mining tax and other statutory deductions to be made
i.	The bidder has to keep the staff during execution of work as mentioned in RFP
j.	RISL will depute EIL (Engineer India Ltd) Staff / Any other agency as TPA (Third Party Auditor) for day to day execution and checking of quality of works. The bidder is liable to agree the observation made by TPA for execution and quality assurance of work. Every material to be procured at site will be vetted by EIL and then will be allowed to execute at site.
k.	The bidder has to depute security and quality assurance staff during execution of work with all quality control equipments list of which in enclosed in RFP.
l.	The bidder should have all executing equipments as mentioned in RFP.
m.	DLP (Defect Liability Period) Period is 3 Years
n.	All working drawings for services like AC , Electrical , sanitary / Plumbing , CCTV , Access control etc as mentioned in BOQ and other MEP service is in the scope of contractor to whom order will be awarded / The successful contractor will submit the drawings for approval and after approval the contractor will execute the work in supervision of TPA / EIL
o.	The service center of Item Lift and HVAC should be in Kota.

2) Project Deliverables, Milestones & Time Schedule as per site progress at different locations

S. No.	Phase	Deliverable	Timelines	Payment
1.	First Running Bill	Measurement of the work done duly sealed and signed by Engineer Incharge	Within 45 Days	Payment will be released on the basis of actual work done with statutory deductions*
2.	Second Running Bill	Measurement of the work done duly sealed and signed by Engineer Incharge	Within 90 Days	Measurement of the work done duly sealed and signed by Engineer Incharge
3.	3 rd Running Bill	Measurement of the work done duly sealed and signed by Engineer Incharge	Within 135 Days	Measurement of the work done duly sealed and signed by Engineer Incharge
4.	Final Bill	Measurement of the work done duly sealed and signed by Engineer Incharge	Within 180 Days	Payment will be released on the basis of actual work done with statutory deductions*

5. INSTRUCTION TO BIDDERS (ITB)

1) Sale of Bidding/ Tender Documents

- a) The sale of bidding documents shall be commenced from the date of publication of Notice Inviting Bids (NIB) and shall be stopped one day prior to the date of opening of Bid. The complete bidding document shall also be placed on the State Public Procurement Portal and e-Procurement portal. The prospective bidders shall be permitted to download the bidding document from the websites and pay its price while submitting the Bid to the procuring entity.
- b) The bidding documents shall be made available to any prospective bidder who pays the price for it in cash or by bank demand draft, banker's cheque.
- c) Bidding documents purchased by Principal of any concern may be used by its authorised sole selling agents/ marketing agents/ distributors/ sub-distributors and authorised dealers or vice versa.

2) Pre-bid Meeting/ Clarifications

- a) Any prospective bidder may, in writing, seek clarifications from the procuring entity in respect of the bidding documents.
- b) A pre-bid conference is also scheduled by the procuring entity as per the details mentioned in the NIB and to clarify doubts of potential bidders in respect of the procurement and the records of such conference shall be intimated to all bidders and where applicable, shall be published on the respective websites.
- c) The period within which the bidders may seek clarifications under (a) above and the period within which the procuring entity shall respond to such requests for clarifications shall be as under: -
 - a. Last date of submitting clarifications requests by the bidder: as per NIB
 - b. Response to clarifications by procuring entity: as per NIB
- d) The minutes and response, if any, shall be provided promptly to all bidders to which the procuring entity provided the bidding documents, so as to enable those bidders to take minutes into account in preparing their bids, and shall be published on the respective websites.

3) Changes in the Bidding Document

- a) At any time, prior to the deadline for submission of Bids, the procuring entity may for any reason, whether on its own initiative or as a result of a request for clarification by a bidder, modify the bidding documents by issuing an addendum in accordance with the provisions below.
- b) In case, any modification is made to the bidding document or any clarification is issued which materially affects the terms contained in the bidding document, the procuring entity shall publish such modification or clarification in the same manner as the publication of the initial bidding document.
- c) In case, a clarification or modification is issued to the bidding document, the procuring entity may, prior to the last date for submission of Bids, extend such time limit in order to allow the bidders sufficient time to take into account the clarification or modification, as the case may be, while submitting their Bids.
- d) Any bidder, who has submitted his Bid in response to the original invitation, shall have the opportunity to modify or re-submit it, as the case may be, within the period of time originally allotted or such extended time as may be allowed for submission of Bids, when changes are made to the bidding document by the procuring entity:
Provided that the Bid last submitted or the Bid as modified by the bidder shall be considered for evaluation.

4) Period of Validity of Bids

- a) Bids submitted by the bidders shall remain valid during the period specified in the NIB/ bidding document. A Bid valid for a shorter period shall be rejected by the procuring entity as non-responsive Bid.
- b) Prior to the expiry of the period of validity of Bids, the procuring entity, in exceptional circumstances, may request the bidders to extend the bid validity period for an additional specified period of time. A bidder

may refuse the request and such refusal shall be treated as withdrawal of Bid and in such circumstances bid security shall not be forfeited.

- c) Bidders that agree to an extension of the period of validity of their Bids shall extend or get extended the period of validity of bid securities submitted by them or submit new bid securities to cover the extended period of validity of their bids. A bidder whose bid security is not extended, or that has not submitted a new bid security, is considered to have refused the request to extend the period of validity of its Bid.

5) Format and Signing of Bids

- a) Bidders must submit their bids online at e-Procurement portal i.e. <http://eproc.rajasthan.gov.in>.
- b) All the documents uploaded should be digitally signed with the DSC of authorized signatory.
- c) A Single stage- Two part/ cover system shall be followed for the Bid: -
- a. Technical Bid, including fee details, eligibility & technical documents
 - b. Financial Bid
- d) The technical bid shall consist of the following documents: -

S. No.	Documents Type	Document Format
FEE DETAILS		
1.	Bidding document Fee (Tender Fee)	Proof of submission (PDF)
2.	RISL Processing Fee (e-Procurement)	Instrument/ Proof of submission (PDF)
3.	Bid Security	Instrument/ Proof of submission (PDF) As per Annexure-15 (PDF)
ELIGIBILITY DOCUMENTS		
4.	Technical Bid Cover Letter	As per Annexure-3 (PDF)
5.	Tender Form	As per Annexure-4 (PDF)
6.	Self-Declaration	As per Annexure-7 (PDF)
7.	Project References	As per Annexure-8 (PDF)
8.	Bidder's Authorisation Certificate along with copy of PoA/ Board resolution stating that Auth. Signatory can sign the bid/ contract on behalf of the firm.	As per Annexure-9 (PDF)
9.	Undertaking of Authenticity of Equipments	As per Annexure-10 (PDF)
10.	Makes offered by bidder	As per Annexure-11 (PDF)
11.	Format for Manpower of Project for Pre-Qualification Experience	As per Annexure-18 (PDF)
12.	All the documents mentioned in the "Eligibility Criteria", in support of the eligibility	As per the format mentioned against the respective eligibility criteria clause (PDF)

- b) Financial bid shall include the following documents: -

S. No.	Documents Type	Document Format
1.	Financial Bid – Cover Letter	On bidder's letter head duly signed by authorized signatory as per Annexure-12 (PDF)
2.	Financial Bid - Format	As per BoQ (.XLS) format available on e-Procurement portal

- c) The bidder should ensure that all the required documents, as mentioned in this bidding document, are submitted along with the Bid and in the prescribed format only. Non-submission of the required documents or submission of the documents in a different format/ contents may lead to the rejections of the Bid submitted by the bidder.

6) Cost & Language of Bidding

- a) The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the procuring entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- b) The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the procuring entity, shall be written only in English Language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in English/ Hindi language, in which case, for purposes of interpretation of the Bid, such translation shall govern.

7) Alternative/ Multiple Bids

Alternative/ Multiple Bids shall not be considered at all.

8) Bid Security

Every bidder, if not exempted, participating in the procurement process will be required to furnish the bid security as specified in the NIB.

- a) In lieu of bid security, a bid securing declaration shall be taken from Departments of the State Government, Undertakings, Corporations, Autonomous bodies, Registered Societies and Cooperative Societies which are owned or controlled or managed by the State Government and Government Undertakings of the Central Government.
- b) Bid security instrument or cash receipt of bid security or a bid securing declaration shall necessarily accompany the technical bid.
- c) Bid security of a bidder lying with the procuring entity in respect of other bids awaiting decision shall not be adjusted towards bid security for the fresh bids. The bid security originally deposited may, however, be taken into consideration in case bids are re-invited.
- d) The bid security may be given in the form of a banker's cheque or demand draft or bank guarantee, in specified format, of a scheduled bank or deposited through eGRAS. The bid security must remain valid thirty days beyond the original or extended validity period of the bid.
- e) The issuer of the bid security and the confirmer, if any, of the bid security, as well as the form and terms of the bid security, must be acceptable to the procuring entity.
- f) Prior to presenting a submission, a bidder may request the procuring entity to confirm the acceptability of proposed issuer of a bid security or of a proposed confirmer, if required. The procuring entity shall respond promptly to such a request.
- g) The bank guarantee presented as bid security shall be got confirmed from the concerned issuing bank. However, the confirmation of the acceptability of a proposed issuer or of any proposed confirmer does not preclude the procuring entity from rejecting the bid security on the ground that the issuer or the confirmer, as the case may be, has become insolvent or has otherwise ceased to be creditworthy.
- h) The bid security of unsuccessful bidders shall be refunded soon after final acceptance of successful bid and signing of Agreement and submitting performance security.
- i) The Bid security taken from a bidder shall be forfeited, including the interest, if any, in the following cases, namely: -
 - a. when the bidder withdraws or modifies its bid after opening of bids;
 - b. when the bidder does not execute the agreement, if any, after placement of supply/ work order within the specified period;
 - c. when the bidder fails to commence the supply of the goods or service or execute work as per supply/ work order within the time specified;
 - d. when the bidder does not deposit the performance security within specified period after the supply/ work order is placed; and

- e. if the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
- j) Notice will be given to the bidder with reasonable time before bid security deposited is forfeited.
- k) No interest shall be payable on the bid security.
- l) In case of the successful bidder, the amount of bid security may be adjusted in arriving at the amount of the Performance Security, or refunded if the successful bidder furnishes the full amount of performance security.
- m) The procuring entity shall promptly return the bid security after the earliest of the following events, namely:-
 - a. the expiry of validity of bid security;
 - b. the execution of agreement for procurement and performance security is furnished by the successful bidder;
 - c. the cancellation of the procurement process; or
 - d. the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.

9) Deadline for the submission of Bids

- a) Bids shall be received online at e-Procurement portal and up to the time and date specified in the NIB.
- b) Normally, the date of submission and opening of Bids would not be extended. In exceptional circumstances or when the bidding document are required to be substantially modified as a result of discussions in pre-bid meeting/ conference or otherwise and the time with the prospective bidders for preparation of Bids appears insufficient, the date may be extended by the procuring entity. In such case the publicity of extended time and date shall be given in the manner, as was given at the time of issuing the original NIB and shall also be placed on the State Public Procurement Portal, if applicable. It would be ensured that after issue of corrigendum, reasonable time is available to the bidders for preparation and submission of their Bids. The procuring entity shall also publish such modifications in the bidding document in the same manner as the publication of initial bidding document. If, in the office of the Bids receiving and opening authority, the last date of submission or opening of Bids is a non-working day, the Bids shall be received or opened on the next working day.

10) Withdrawal, Substitution, and Modification of Bids

- a) If permitted on e-Procurement portal, a Bidder may withdraw its Bid or re-submit its Bid (technical and/ or financial cover) as per the instructions/ procedure mentioned at e-Procurement website under the section "Bidder's Manual Kit".
- b) Bids withdrawn shall not be opened and processes further.

11) Opening of Bids

- a) The Bids shall be opened by the bid opening & evaluation committee on the date and time mentioned in the NIB in the presence of the bidders or their authorised representatives who choose to be present.
- b) The committee may co-opt experienced persons in the committee to conduct the process of Bid opening.
- c) The committee shall prepare a list of the bidders or their representatives attending the opening of Bids and obtain their signatures on the same. The list shall also contain the representative's name and telephone number and corresponding bidders' names and addresses. The authority letters, if any, brought by the representatives shall be attached to the list. The list shall be signed by all the members of Bid opening committee with date and time of opening of the Bids.
- d) All the documents comprising of technical Bid/ cover shall be opened & downloaded from the e-Procurement website (only for the bidders who have submitted the prescribed fee(s) to RISL).
- e) The committee shall conduct a preliminary scrutiny of the opened technical Bids to assess the prima-facie responsiveness and ensure that the: -

- a. bid is accompanied by bidding document fee, bid security or bid securing declaration, and processing fee (if applicable);
- b. bid is valid for the period, specified in the bidding document;
- c. bid is unconditional and the bidder has agreed to give the required performance security; and
- d. other conditions, as specified in the bidding document are fulfilled.
- e. any other information which the committee may consider appropriate.
- f) No Bid shall be rejected at the time of Bid opening except the Bids not accompanied with the proof of payment or instrument of the required price of bidding document, processing fee and bid security.
- g) The Financial Bid cover shall be kept unopened and shall be opened later on the date and time intimated to the bidders who qualify in the evaluation of technical Bids.

12) Selection Method

The selection method is Least Cost Based Selection (LCBS or L1).

13) Clarification of Bids

- a) To assist in the examination, evaluation, comparison and qualification of the Bids, the bid evaluation committee may, at its discretion, ask any bidder for a clarification regarding its Bid. The committee's request for clarification and the response of the bidder shall be through the e-Procurement portal.
- b) Any clarification submitted by a bidder with regard to its Bid that is not in response to a request by the committee shall not be considered.
- c) No change in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the committee in the evaluation of the financial Bids.
- d) No substantive change to qualification information or to a submission, including changes aimed at making an unqualified bidder, qualified or an unresponsive submission, responsive shall be sought, offered or permitted.

14) Verification of Eligibility Documents by RISL

RISL reserves the right to verify all statements, information and documents submitted by the bidder in response to tender document, the bidder shall, when so required by RISL, make available all such information, evidence and documents as may necessary for such verification. Any such verification or lack of verification by RISL shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any right of RISL there under, If any statement, information and documents submitted by the bidder is found to be false, manipulated or forged during verification process, strict action shall be taken as per RTPP Act 2012.

15) Evaluation & Tabulation of Technical Bids

a) Determination of Responsiveness

- a. The bid evaluation committee shall determine the responsiveness of a Bid on the basis of bidding document and the provisions of pre-qualification/ eligibility criteria of the bidding document.
- b. A responsive Bid is one that meets the requirements of the bidding document without any material deviation, reservation, or omission where: -
 - i. "deviation" is a departure from the requirements specified in the bidding document;
 - ii. "reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
 - iii. "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
- c. A material deviation, reservation, or omission is one that,
 - i. if accepted, shall:-
 1. affect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the bidding documents; or

2. limits in any substantial way, inconsistent with the bidding documents, the procuring entity's rights or the bidder's obligations under the proposed contract; or
- ii. if rectified, shall unfairly affect the competitive position of other bidders presenting responsive Bids.
- d. The bid evaluation committee shall examine the technical aspects of the Bid in particular, to confirm that all requirements of bidding document have been met without any material deviation, reservation or omission.
- e. The procuring entity shall regard a Bid as responsive if it conforms to all requirements set out in the bidding document, or it contains minor deviations that do not materially alter or depart from the characteristics, terms, conditions and other requirements set out in the bidding document, or if it contains errors or oversights that can be corrected without touching on the substance of the Bid.

b) Non-material Non-conformities in Bids

- a. The bid evaluation committee may waive any non-conformities in the Bid that do not constitute a material deviation, reservation or omission, the Bid shall be deemed to be substantially responsive.
- b. The bid evaluation committee may request the bidder to submit the necessary information or document like audited statement of accounts/ CA Certificate, Registration Certificate, VAT/ CST clearance certificate, ISO/ CMMi Certificates, etc. within a reasonable period of time. Failure of the bidder to comply with the request may result in the rejection of its Bid.
- c. The bid evaluation committee may rectify non-material nonconformities or omissions on the basis of the information or documentation received from the bidder under (b) above.

c) Technical Evaluation Criteria

Bids shall be evaluated based on the documents submitted as part of technical bid. Technical bid shall contain all the documents as asked in the clause "Format and signing of Bids".

d) Tabulation of Technical Bids

- a. If Technical Bids have been invited, they shall be tabulated by the bid evaluation committee in the form of a comparative statement to evaluate the qualification of the bidders against the criteria for qualification set out in the bidding document.
- b. The members of bid evaluation committee shall give their recommendations below the table as to which of the bidders have been found to be qualified in evaluation of Technical Bids and sign it.
- e) The number of firms qualified in technical evaluation, if less than three and it is considered necessary by the procuring entity to continue with the procurement process, reasons shall be recorded in writing and included in the record of the procurement proceedings.
- f) The bidders who qualified in the technical evaluation shall be informed in writing about the date, time and place of opening of their financial Bids.

16) Evaluation & Tabulation of Financial Bids

Subject to the provisions of "Acceptance of Successful Bid and Award of Contract" below, the procuring entity shall take following actions for evaluation of financial Bids:-

- a) For two part/ cover Bid system, the financial Bids of the bidders who qualified in technical evaluation shall be opened online at the notified time, date and place by the bid evaluation committee in the presence of the bidders or their representatives who choose to be present;
- b) the process of opening of the financial Bids shall be similar to that of technical Bids.
- c) the names of the bidders, the rates given by them and conditions put, if any, shall be read out and recorded;
- d) conditional Bids are liable to be rejected;

- e) the evaluation shall include all costs and all taxes and duties applicable to the bidder as per law of the Central/ State Government/ Local Authorities, and the evaluation criteria specified in the bidding documents shall only be applied;
- f) the offers shall be evaluated and marked L1, L2, L3 etc. L1 being the lowest offer and then others in ascending order in case price is the only criteria, or evaluated and marked H1, H2, H3 etc. in descending order.
- g) the bid evaluation committee shall prepare a comparative statement in tabular form in accordance with rules along with its report on evaluation of financial Bids and recommend the lowest offer for acceptance to the procuring entity, if price is the only criterion, or most advantageous Bid in other case;
- h) The members of bids evaluation committee shall give their recommendations below the table regarding lowest Bid or most advantageous Bid and sign it.
- i) it shall be ensured that the offer recommended for sanction is justifiable looking to the prevailing market rates of the goods, works or service required to be procured.

17) Correction of Arithmetic Errors in Financial Bids

The bid evaluation committee shall correct arithmetical errors in substantially responsive Bids, on the following basis, namely: -

- a) if there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the bid evaluation committee there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected;
- b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above.

18) Registration with Commercial Tax Department in Rajasthan, Should consider the GST

The bidder should have a registered member of

- a. GST Registration certificate, where his business is located.
- b. PAN Number

19) Price/ purchase preference in evaluation

Price and/ or purchase preference notified by the State Government (GoR) and as mentioned in the bidding document shall be considered in the evaluation of Bids and award of contract.

20) Negotiations

- a) Except in case of procurement by method of single source procurement or procurement by competitive negotiations, to the extent possible, no negotiations shall be conducted after the pre-bid stage. All clarifications needed to be sought shall be sought in the pre-bid stage itself.
- b) Negotiations may, however, be undertaken only with the lowest or most advantageous bidder when the rates are considered to be much higher than the prevailing market rates.
- c) The bid evaluation committee shall have full powers to undertake negotiations. Detailed reasons and results of negotiations shall be recorded in the proceedings.
- d) The lowest or most advantageous bidder shall be informed in writing either through messenger or by registered letter and e-mail (if available). A minimum time of seven days shall be given for calling negotiations. In case of urgency the bid evaluation committee, after recording reasons, may reduce the time, provided the lowest or most advantageous bidder has received the intimation and consented to regarding holding of negotiations.

- e) Negotiations shall not make the original offer made by the bidder inoperative. The bid evaluation committee shall have option to consider the original offer in case the bidder decides to increase rates originally quoted or imposes any new terms or conditions.
- f) In case of non-satisfactory achievement of rates from lowest or most advantageous bidder, the bid evaluation committee may choose to make a written counter offer to the lowest or most advantageous bidder and if this is not accepted by him, the committee may decide to reject and re-invite Bids or to make the same counter-offer first to the second lowest or most advantageous bidder, then to the third lowest or most advantageous bidder and so on in the order of their initial standing and work/ supply order be awarded to the bidder who accepts the counter-offer. This procedure would be used in exceptional cases only.
- g) In case the rates even after the negotiations are considered very high, fresh Bids shall be invited.

21) Exclusion of Bids/ Disqualification

- a) A procuring entity shall exclude/ disqualify a Bid, if: -
 - a. the information submitted, concerning the qualifications of the bidder, was false or constituted a misrepresentation; or
 - b. the information submitted, concerning the qualifications of the bidder, was materially inaccurate or incomplete; and
 - c. the bidder is not qualified as per pre-qualification/ eligibility criteria mentioned in the bidding document;
 - d. the Bid materially departs from the requirements specified in the bidding document or it contains false information;
 - e. the bidder, submitting the Bid, his agent or any one acting on his behalf, gave or agreed to give, to any officer or employee of the procuring entity or other governmental authority a gratification in any form, or any other thing of value, so as to unduly influence the procurement process;
 - f. a bidder, in the opinion of the procuring entity, has a conflict of interest materially affecting fair competition.
- b) A Bid shall be excluded/ disqualified as soon as the cause for its exclusion/ disqualification is discovered.
- c) Every decision of a procuring entity to exclude a Bid shall be for reasons to be recorded in writing and shall be: -
 - a. communicated to the concerned bidder in writing;
 - b. Published on the State Public Procurement Portal, if applicable.

22) Lack of competition

- a) A situation may arise where, if after evaluation of Bids, the bid evaluation committee may end-up with one responsive Bid only. In such situation, the bid evaluation committee would check as to whether while floating the NIB all necessary requirements to encourage competition like standard bid conditions, industry friendly specifications, wide publicity, sufficient time for formulation of Bids, etc were fulfilled. If not, the NIB would be re-floated after rectifying deficiencies. The bid process shall be considered valid even if there is one responsive Bid, provided that: -
 - a. the Bid is technically qualified;
 - b. the price quoted by the bidder is assessed to be reasonable;
 - c. the Bid is unconditional and complete in all respects;
 - d. there are no obvious indicators of cartelization amongst bidders; and
 - e. the bidder is qualified as per the provisions of pre-qualification/ eligibility criteria in the bidding document
- b) The bid evaluation committee shall prepare a justification note for approval by the next higher authority of the procuring entity, with the concurrence of the accounts member.

- c) In case of dissent by any member of bid evaluation committee, the next higher authority in delegation of financial powers shall decide as to whether to sanction the single Bid or re-invite Bids after recording reasons.
- d) If a decision to re-invite the Bids is taken, market assessment shall be carried out for estimation of market depth, eligibility criteria and cost estimate.

23) Acceptance of the successful Bid and award of contract

- a) The procuring entity after considering the recommendations of the bid evaluation committee and the conditions of Bid, if any, financial implications, trials, sample testing and test reports, etc., shall accept or reject the successful Bid. If any member of the bid evaluation committee, has disagreed or given its note of dissent, the matter shall be referred to the next higher authority, as per delegation of financial powers, for decision.
- b) Decision on Bids shall be taken within original validity period of Bids and time period allowed to procuring entity for taking decision. If the decision is not taken within the original validity period or time limit allowed for taking decision, the matter shall be referred to the next higher authority in delegation of financial powers for decision.
- c) Before award of the contract, the procuring entity shall ensure that the price of successful Bid is reasonable and consistent with the required quality.
- d) A Bid shall be treated as successful only after the competent authority has approved the procurement in terms of that Bid.
- e) The procuring entity shall award the contract to the bidder whose offer has been determined to be the lowest or most advantageous in accordance with the evaluation criteria set out in the bidding document and if the bidder has been determined to be qualified to perform the contract satisfactorily on the basis of qualification criteria fixed for the bidders in the bidding document for the subject matter of procurement.
- f) Prior to the expiration of the period of bid validity, the procuring entity shall inform the successful bidder, in writing, that its Bid has been accepted.
- g) As soon as a Bid is accepted by the competent authority, its written intimation shall be sent to the concerned bidder by registered post or email and asked to execute an agreement in the format given in the bidding documents on a non-judicial stamp of requisite value and deposit the amount of performance security or a performance security declaration, if applicable, within a period specified in the bidding documents or where the period is not specified in the bidding documents then within fifteen days from the date on which the letter of acceptance or letter of intent is dispatched to the bidder.
- h) If the issuance of formal letter of acceptance is likely to take time, in the meanwhile a Letter of Intent (LOI) may be sent to the bidder. The acceptance of an offer is complete as soon as the letter of acceptance or letter of intent is posted and/ or sent by email (if available) to the address of the bidder given in the bidding document. Until a formal contract is executed, the letter of acceptance or LOI shall constitute a binding contract.
- i) The bid security of the bidders who's Bids could not be accepted shall be refunded soon after the contract with the successful bidder is signed and its performance security is obtained.

24) Information and publication of award

Information of award of contract shall be communicated to all participating bidders and published on the respective website(s) as specified in NIB.

25) Procuring entity's right to accept or reject any or all Bids

The Procuring entity reserves the right to accept or reject any Bid, and to annul (cancel) the bidding process and reject all Bids at any time prior to award of contract, without thereby incurring any liability to the bidders.

26) Right to vary quantity and Repeat Orders

- a) If the procuring entity does not procure any subject matter of procurement or procures less than the quantity specified in the bidding documents due to change in circumstances, the bidder shall not be entitled for any claim or compensation.
- b) Repeat orders for extra items or additional quantities may be placed on the rates and conditions given in the contract. Delivery or completion period may also be proportionately increased. The limits of repeat order shall be as under: -
 - 1) 50% of the quantity of the individual items and 50% of the value of original contract in case of works; and
 - 2) 50% of the value of goods or services of the original contract.

The quantities mentioned in the Bid are indicative/ approx. and shall only be used for the purpose of financial bid evaluation and the Payments shall be made as per actual quantities supplied, installed and commissioned as per scope of work. However, Lump sum and Job cost shall be paid as per quote provided by bidder.

- c) The items of which quantities are not mentioned (Rate Only), the quantity of such items may be procured as per requirement of the project.

27) Rate Analysis for Items Not Given in BoQ, But May Require at Site

- i. Some of the items may be require at site as per technical requirement, which are not available in BoQ as items and quantity.
- ii. Items which are available in Rajasthan Basic Schedule of Rates (BSR) will be paid on the basis of rates available in BSR + tender premium quoted by the bidder for respective Civil, Electrical, HVAC, Fire, Plumbing
- iii. The following process will be adopted for non-BSR Items:-
 - a. The basic rate giving in the companies/OEM price list of material.
 - b. Prevailing discount in the market.
 - c. Addition of GST (Whichever is applicable) on basic rates.
 - d. Transportation Cost.
 - e. Installation cost, Service Tax on installation cost.
 - f. Implementation cost on procurement & installation cost.
 - g. 10 % of Contractor Profit.

28) Performance Security

- a) Prior to execution of agreement, Performance security shall be solicited from all successful bidders except the departments of the State Government and undertakings, corporations, autonomous bodies, registered societies, co-operative societies which are owned or controlled or managed by the State Government and undertakings of the Central Government. However, a performance security declaration shall be taken from them. The State Government may relax the provision of performance security in particular procurement or any class of procurement.
- b) The amount of performance security of 5% will be taken at the time of signing of agreement and balance 5% will be deducted from running bills.
- c) Performance security shall be furnished in any one of the following forms: -
 - a. Bank Draft or Banker's Cheque of a scheduled bank;
 - b. National Savings Certificates and any other script/ instrument under National Savings Schemes for promotion of small savings issued by a Post Office in Rajasthan, if the same can be pledged under the relevant rules. They shall be accepted at their surrender value at the time of bid and formally transferred in the name of procuring entity with the approval of Head Post Master;

- c. Bank guarantee/s of a scheduled bank. It shall be got verified from the issuing bank. Other conditions regarding bank guarantee shall be same as mentioned in the bidding document for bid security;
- d. Fixed Deposit Receipt (FDR) of a scheduled bank. It shall be in the name of procuring entity on account of bidder and discharged by the bidder in advance. The procuring entity shall ensure before accepting the FDR that the bidder furnishes an undertaking from the bank to make payment/premature payment of the FDR on demand to the procuring entity without requirement of consent of the bidder concerned. In the event of forfeiture of the performance security, the Fixed Deposit shall be forfeited along with interest earned on such Fixed Deposit.
- d) Performance security furnished in the form specified in clause [a.] to [d.] of (c) above shall remain valid for a period of 60 days beyond the date of completion of all contractual period.
- e) Forfeiture of Security Deposit: Security amount in full or part may be forfeited, including interest, if any, in the following cases:-
 - a. When any terms and condition of the contract is breached.
 - b. When the bidder fails to make complete supply satisfactorily.
 - c. if the bidder breaches any provision of code of integrity, prescribed for bidders, specified in the bidding document.
- f) Notice will be given to the bidder with reasonable time before PSD deposited is forfeited.
- g) No interest shall be payable on the PSD.

29) Execution of agreement

- a) A procurement contract shall come into force from the date on which the letter of acceptance or letter of intent is despatched to the bidder.
- b) The successful bidder shall sign the procurement contract within 15 days from the date on which the letter of acceptance or letter of intent is despatched to the successful bidder.
- c) If the bidder, who's Bid has been accepted, fails to sign a written procurement contract or fails to furnish the required performance security within specified period, the procuring entity shall take action against the successful bidder as per the provisions of the bidding document and Act. The procuring entity may, in such case, cancel the procurement process or if it deems fit, offer for acceptance the rates of lowest or most advantageous bidder to the next lowest or most advantageous bidder, in accordance with the criteria and procedures set out in the bidding document.
- d) The bidder will be required to execute the agreement on a non-judicial stamp of specified value at its cost and to be purchase from anywhere in Rajasthan only.

30) Confidentiality

- a) Notwithstanding anything contained in this bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information, a procuring entity shall not disclose any information if such disclosure, in its opinion, is likely to: -
 - a. impede enforcement of any law;
 - b. affect the security or strategic interests of India;
 - c. affect the intellectual property rights or legitimate commercial interests of bidders;
 - d. affect the legitimate commercial interests of the procuring entity in situations that may include when the procurement relates to a project in which the procuring entity is to make a competitive bid, or the intellectual property rights of the procuring entity.
- b) The procuring entity shall treat all communications with bidders related to the procurement process in such manner as to avoid their disclosure to competing bidders or to any other person not authorised to have access to such information.

- c) The procuring entity may impose on bidders and sub-contractors, if there are any for fulfilling the terms of the procurement contract, conditions aimed at protecting information, the disclosure of which violates (a) above.
- d) In addition to the restrictions specified above, the procuring entity, while procuring a subject matter of such nature which requires the procuring entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.

31) Cancellation of procurement process

- a) If any procurement process has been cancelled, it shall not be reopened but it shall not prevent the procuring entity from initiating a new procurement process for the same subject matter of procurement, if required.
- b) A procuring entity may, for reasons to be recorded in writing, cancel the process of procurement initiated by it -
 - a. at any time prior to the acceptance of the successful Bid; or
 - b. after the successful Bid is accepted in accordance with (d) and (e) below.
- c) The procuring entity shall not open any bids or proposals after taking a decision to cancel the procurement and shall return such unopened bids or proposals.
- d) The decision of the procuring entity to cancel the procurement and reasons for such decision shall be immediately communicated to all bidders that participated in the procurement process.
- e) If the bidder who's Bid has been accepted as successful fails to sign any written procurement contract as required, or fails to provide any required security for the performance of the contract, the procuring entity may cancel the procurement process.
- f) If a bidder is convicted of any offence under the Act, the procuring entity may: -
 - a. cancel the relevant procurement process if the Bid of the convicted bidder has been declared as successful but no procurement contract has been entered into;
 - b. rescind (cancel) the relevant contract or forfeit the payment of all or a part of the contract value if the procurement contract has been entered into between the procuring entity and the convicted bidder.

32) Code of Integrity for Bidders

- a) No person participating in a procurement process shall act in contravention of the code of integrity prescribed by the State Government.
- b) The code of integrity includes provisions for: -
 - a. Prohibiting
 - i. any offer, solicitation or acceptance of any bribe, reward or gift or any material benefit, either directly or indirectly, in exchange for an unfair advantage in the procurement process or to otherwise influence the procurement process;
 - ii. any omission, including a misrepresentation that misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation;
 - iii. any collusion, bid rigging or anti-competitive behaviour to impair the transparency, fairness and progress of the procurement process;
 - iv. improper use of information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process or for personal gain;
 - v. any financial or business transactions between the bidder and any officer or employee of the procuring entity;
 - vi. any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any party or to its property to influence the procurement process;
 - vii. any obstruction of any investigation or audit of a procurement process;

- b. disclosure of conflict of interest;
- c. disclosure by the bidder of any previous transgressions with any entity in India or any other country during the last three years or of any debarment by any other procuring entity.
- c) Without prejudice to the provisions below, in case of any breach of the code of integrity by a bidder or prospective bidder, as the case may be, the procuring entity may take appropriate measures including: -
 - a. exclusion of the bidder from the procurement process;
 - b. calling-off of pre-contract negotiations and forfeiture or encashment of bid security;
 - c. forfeiture or encashment of any other security or bond relating to the procurement;
 - d. recovery of payments made by the procuring entity along with interest thereon at bank rate;
 - e. cancellation of the relevant contract and recovery of compensation for loss incurred by the procuring entity;
 - f. debarment of the bidder from participation in future procurements of the procuring entity for a period not exceeding three years.

33) Conflict of Interest

A Bidder may be considered to be in conflict of interest with one or more parties in a bidding process if, including but not limited to:-

- a) they have controlling partners in common;
- b) they receive or have received any direct or indirect subsidy from any of them;
- c) they have the same legal representative for purposes of the bid;
- d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another;
- e) A bidder participates in more than one bid in the same bidding process. However, this does not limit the inclusion of the same sub-contractor, not otherwise participating as a bidder, in more than one bid; or
- f) A bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the subject matter of procurement of the bidding process. All bidders shall provide in Eligibility Criteria documents, 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 subject matter of procurement or being proposed as Project Manager for the contract.

34) Interference with Procurement Process

A bidder, who: -

- a) withdraws from the procurement process after opening of financial bids;
 - b) withdraws from the procurement process after being declared the successful bidder;
 - c) fails to enter into procurement contract after being declared the successful bidder;
 - d) fails to provide performance security or any other document or security required in terms of the bidding documents after being declared the successful bidder, without valid grounds,
- shall, in addition to the recourse available in the bidding document or the contract, be punished with fine which may extend to fifty lakh rupees or ten per cent of the assessed value of procurement, whichever is less.

35) Appeals

- a) Subject to "Appeal not to lie in certain cases" below, if any bidder or prospective bidder is aggrieved that any decision, action or omission of the procuring entity is in contravention to the provisions of the Act or the rules or guidelines issued thereunder, he may file an appeal to such officer of the procuring entity, as may be designated by it for the purpose, within a period of 10 days from the date of such decision or action, omission, as the case may be, clearly giving the specific ground or grounds on which he feels aggrieved:

- a. Provided that after the declaration of a bidder as successful in terms of “Award of Contract”, the appeal may be filed only by a bidder who has participated in procurement proceedings:
- b. Provided further that in case a procuring entity evaluates the technical Bid before the opening of the financial Bid, an appeal related to the matter of financial Bid may be filed only by a bidder whose technical Bid is found to be acceptable.
- b) The officer to whom an appeal is filed under (a) above shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within 30 days from the date of filing of the appeal.
- c) If the officer designated under (a) above fails to dispose of the appeal filed under that sub-section within the period specified in (c) above, or if the bidder or prospective bidder or the procuring entity is aggrieved by the order passed, the bidder or prospective bidder or the procuring entity, as the case may be, may file a second appeal to an officer or authority designated by the State Government in this behalf within 15 days from the expiry of the period specified in (c) above or of the date of receipt of the order passed under (b) above, as the case may be.
- d) The officer or authority to which an appeal is filed under (c) above shall deal with the appeal as expeditiously as possible and shall endeavour to dispose it of within 30 days from the date of filing of the appeal:
- e) The officer or authority to which an appeal may be filed under (a) or (d) above shall be: First Appellate Authority: Principal Secretary, IT&C, GoR
Second Appellate Authority: Secretary (Budget), Finance Department, GoR
- f) Form of Appeal:
 - a. Every appeal under (a) and (c) above shall be as per Annexure-10 along with as many copies as there are respondents in the appeal.
 - b. Every appeal shall be accompanied by an order appealed against, if any, affidavit verifying the facts stated in the appeal and proof of payment of fee.
 - c. Every appeal may be presented to First Appellate Authority or Second Appellate Authority, as the case may be, in person or through registered post or authorised representative.
- g) Fee for Appeal: Fee for filing appeal:
 - a. Fee for first appeal shall be rupees two thousand five hundred and for second appeal shall be rupees ten thousand, which shall be non-refundable.
 - b. The fee shall be paid in the form of bank demand draft or banker’s cheque of a Scheduled Bank payable in the name of Appellate Authority concerned.
- h) Procedure for disposal of appeal:
 - a. The First Appellate Authority or Second Appellate Authority, as the case may be, upon filing of appeal, shall issue notice accompanied by copy of appeal, affidavit and documents, if any, to the respondents and fix date of hearing.
 - b. On the date fixed for hearing, the First Appellate Authority or Second Appellate Authority, as the case may be, shall:-
 - i. hear all the parties to appeal present before him; and
 - ii. peruse or inspect documents, relevant records or copies thereof relating to the matter.
 - c. After hearing the parties, perusal or inspection of documents and relevant records or copies thereof relating to the matter, the Appellate Authority concerned shall pass an order in writing and provide the copy of order to the parties to appeal free of cost.
 - d. The order passed under (c) shall also be placed on the State Public Procurement Portal.
- i) No information which would impair the protection of essential security interests of India, or impede the enforcement of law or fair competition, or prejudice the legitimate commercial interests of the bidder or the procuring entity, shall be disclosed in a proceeding under an appeal.

36) Stay of procurement proceedings

While hearing of an appeal, the officer or authority hearing the appeal may, on an application made in this behalf and after affording a reasonable opportunity of hearing to the parties concerned, stay the procurement proceedings pending disposal of the appeal, if he, or it, is satisfied that failure to do so is likely to lead to miscarriage of justice.

37) Vexatious Appeals & Complaints

Whoever intentionally files any vexatious, frivolous or malicious appeal or complaint under the “The Rajasthan Transparency Public Procurement Act 2012”, with the intention of delaying or defeating any procurement or causing loss to any procuring entity or any other bidder, shall be punished with fine which may extend to twenty lakh rupees or five per cent of the value of procurement, whichever is less.

38) Offenses by Firms/ Companies

a) Where an offence under “The Rajasthan Transparency Public Procurement Act 2012” has been committed by a company, every person who at the time the offence was committed was in charge of and was responsible to the company for the conduct of the business of the company, as well as the company, shall be deemed to be guilty of having committed the offence and shall be liable to be proceeded against and punished accordingly:

Provided that nothing contained in this sub-section shall render any such person liable for any punishment if he proves that the offence was committed without his knowledge or that he had exercised all due diligence to prevent the commission of such offence.

b) Notwithstanding anything contained in (a) above, where an offence under this Act has been committed by a company and it is proved that the offence has been committed with the consent or connivance of or is attributable to any neglect on the part of any director, manager, secretary or other officer of the company, such director, manager, secretary or other officer shall also be deemed to be guilty of having committed such offence and shall be liable to be proceeded against and punished accordingly.

c) For the purpose of this section-

a. "company" means a body corporate and includes a limited liability partnership, firm, registered society or co-operative society, trust or other association of individuals; and

b. "director" in relation to a limited liability partnership or firm, means a partner in the firm.

d) Abetment of certain offenses: Whoever abets an offence punishable under this Act, whether or not that offence is committed in consequence of that abetment, shall be punished with the punishment provided for the offence.

39) Debarment from Bidding

a) A bidder shall be debarred by the State Government if he has been convicted of an offence

a. under the Prevention of Corruption Act, 1988 (Central Act No. 49 of 1988); or

b. under the Indian Penal Code, 1860 (Central Act No. 45 of 1860) or any other law for the time being in force, for causing any loss of life or property or causing a threat to public health as part of execution of a public procurement contract.

b) A bidder debarred under (a) above shall not be eligible to participate in a procurement process of any procuring entity for a period not exceeding three years commencing from the date on which he was debarred.

c) If a procuring entity finds that a bidder has breached the code of integrity prescribed in terms of “Code of Integrity for bidders” above, it may debar the bidder for a period not exceeding three years.

d) Where the entire bid security or the entire performance security or any substitute thereof, as the case may be, of a bidder has been forfeited by a procuring entity in respect of any procurement process or procurement contract, the bidder may be debarred from participating in any procurement process undertaken by the procuring entity for a period not exceeding three years.

- e) The State Government or a procuring entity, as the case may be, shall not debar a bidder under this section unless such bidder has been given a reasonable opportunity of being heard.

40) Monitoring of Contract

- a) An officer or a committee of officers named Contract Monitoring Committee (CMC) may be nominated by procuring entity to monitor the progress of the contract during its delivery period.
- b) During the delivery period the CMC shall keep a watch on the progress of the contract and shall ensure that quantity of goods and service delivery is in proportion to the total delivery period given, if it is a severable contract, in which the delivery of the goods and service is to be obtained continuously or is batched. If the entire quantity of goods and service is to be delivered in the form of completed work or entire contract like fabrication work, the process of completion of work may be watched and inspections of the selected bidder's premises where the work is being completed may be inspected.
- c) If delay in delivery of goods and service is observed a performance notice would be given to the selected bidder to speed up the delivery.
- d) Any change in the constitution of the firm, etc. shall be notified forth with by the contractor in writing to the procuring entity and such change shall not relieve any former member of the firm, etc., from any liability under the contract.
- e) No new partner/ partners shall be accepted in the firm by the selected bidder in respect of the contract unless he/ they agree to abide by all its terms, conditions and deposits with the procuring entity through a written agreement to this effect. The bidder's receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.
- f) The selected bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of procuring entity.

6. GENERAL TERMS AND CONDITIONS OF TENDER & CONTRACT

Bidders should read these conditions carefully and comply strictly while sending their bids.

Definitions

For the purpose of clarity, the following words and expressions shall have the meanings hereby assigned to them: -

- a) "Contract" means the Agreement entered into between the Purchaser and the successful/ selected bidder, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- b) "Contract Documents" means the documents listed in the Agreement, including any amendments thereto.
- c) "Contract Price" means the price payable to the successful/ selected bidder as specified in the Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.
- d) "Day" means a calendar day.
- e) "Delivery" means the transfer of the Goods from the successful/ selected bidder to the Purchaser in accordance with the terms and conditions set forth in the Contract.
- f) "Completion" means the fulfilment of the related services by the successful/ selected bidder in accordance with the terms and conditions set forth in the Contract.
- g) "Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the successful/ selected bidder is required to supply to the Purchaser under the Contract.
- h) "Purchaser" means the entity purchasing the Goods and related services, as specified in the bidding document.
- i) "Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the successful/ selected bidder under the Contract.
- j) "Subcontractor" means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the Goods to be supplied or execution of any part of the related services is subcontracted by the successful/ selected bidder.
- k) "Supplier/ Successful or Selected bidder" means the person, private or government entity, or a combination of the above, whose Bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the successful/ selected bidder.
- l) "The Site," where applicable, means the designated project place(s) named in the bidding document.

Note: The bidder shall be deemed to have carefully examined the conditions, specifications, size, make and drawings, etc., of the goods to be supplied and related services to be rendered. If the bidder has any doubts as to the meaning of any portion of these conditions or of the specification, drawing, etc., he shall, before submitting the Bid and signing the contract refer the same to the procuring entity and get clarifications.

1) Contract Documents

Subject to the order of precedence set forth in the Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory.

2) Interpretation

- a) If the context so requires it, singular means plural and vice versa.
- b) Entire Agreement: The Contract constitutes the entire agreement between the Purchaser and the Supplier/ Selected bidder and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract.
- c) Amendment: No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

- d) Non-waiver: Subject to the condition (f) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- e) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.
- f) Severability: If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

3) Language

- a) The Contract as well as all correspondence and documents relating to the Contract exchanged by the successful/ selected bidder and the Purchaser, shall be written in English language only. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the special conditions of the contract, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- b) The successful/ selected bidder shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

4) Joint Venture, Consortium or Association

- a) Unless otherwise specified in the special conditions of the contract, if the Successful bidder/ Bidder is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfilment of the provisions of the contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association.
- b) The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the purchaser.
- c) Any change in the constitution of the firm, etc., shall be notified forthwith by the contractor in writing to the purchase officer and such change shall not relive any former member of the firm, etc., from any liability under the contract.
- d) No new partner/ partners shall be accept in the firm by the contractor in respect of the contract unless he/ they agree to avoid by all its terms, conditions and deposit with the purchase officer a written agreement to this effect. The contractors receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.
- e) The bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency.
- f) No new consortium agreement shall be allowed during the project period.
- g) In Consortium, all the members shall be equally responsible to complete the project as per their roles & responsibilities; however Lead bidder shall give an undertaking for the successful completion of the overall project. In case of any issues, Lead bidder is the responsible for all the penalties.
- h) The non-lead bidder (consortium partner) is liable for the scope of work for which they are responsible along with the lead bidder.
- i) Any change in the consortium at a later date will not be allowed without prior permission from the procuring entity/ purchaser.

5) Eligible Goods and Related Services

- a) For purposes of this Clause, the term "goods" includes commodities related to construction of civil and electrical works, raw material, machinery, equipment, and industrial plants; and "related services" includes

services such as insurance, transportation, supply, installation, integration, testing, commissioning, training, and initial maintenance.

- b) All products executed by the successful/ selected bidder must be associated with specific make and specification as mentioned in the bid.
- c) Bidder must quote products in accordance with above clause “Eligible goods and related services”.

6) Service of Notices Documents & Orders

- a) Any notice given by one party to the other pursuant to the Contract shall be in writing to the address specified in the contract. The term “in writing” means communicated in written form with proof of dispatch and receipt.
- b) A notice, document or order shall be deemed to be served on any individual by -
 - a. delivering it to the person personally; or
 - b. leaving it at, or sending it by post/authorised e-mail to, the address of the place of residence or business of the person last known;
 - c. On a body corporate by leaving it at, or sending it by post/authorised e-mail to, the registered office of the body corporate.
- c) A Notice shall be effective when delivered or on the Notice’s effective date, whichever is later.

7) Governing Law

The Contract shall be governed by and interpreted in accordance with the laws of the Rajasthan State/ the Country (India), unless otherwise specified in the contract.

8) Scope of Supply

- a) Subject to the provisions in the bidding document and contract, the goods and related services, works to be supplied shall be as specified in the bidding document.
- b) Unless otherwise stipulated in the Contract, the scope of supply works shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining delivery and completion of the goods and related services as if such items were expressly mentioned in the Contract.
- c) The contractor shall make all arrangement of water, electricity, labour hutments, labour hutments, labour toilets, Crèche for labour children at site. No extra payment shall be made for these arrangements.

9) Delivery & Installation

- a) Subject to the conditions of the contract, the delivery of the goods and completion of the related services shall be in accordance with the delivery and completion schedule specified in the bidding document. The details of supply/ shipping and other documents to be furnished by the successful/ selected bidder are specified in the bidding document and/ or contract.
- b) The contract for the supply can be repudiated at any time by the purchase officer, if the supplies are not made to his satisfaction after giving an opportunity to the bidder of being heard and recording the reasons for repudiation.
- c) The Supplier/ Selected Bidder shall arrange to supply, install and commission the ordered materials/ system as per specifications within the specified delivery/ completion period at various departments and/ or their offices/ locations mentioned in the PO/ WO.
- d) Shifting the place of execution of work: The user will be free to shift the place of execution within the same city /town/ district/ division. The successful/ selected bidder shall provide all assistance, except transportation, in shifting of the material. However, if the city/town is changed, additional charges of assistance in shifting and providing maintenance services for remaining period would be decided mutually.

10) Supplier’s/ Selected Bidder’s Responsibilities

The Supplier/ Selected Bidder shall supply all the goods and related services included in the scope of supply in accordance with the provisions of bidding document and/ or contract.

11) Purchaser's Responsibilities

- a) Whenever the supply of goods and related services requires that the Supplier/ Selected Bidder obtain permits, approvals, and import and other licenses from local public authorities, the Purchaser shall, if so required by the Supplier/ Selected Bidder, make its best effort to assist the Supplier/ Selected Bidder in complying with such requirements in a timely and expeditious manner.
- b) The Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with the general and special conditions of the contract.

12) Contract Price

- a) The Contract Price shall be paid as specified in the contract subject to any additions and adjustments thereto, or deductions there from, as may be made pursuant to the Contract.
- b) Prices charged by the Supplier/ Selected Bidder for the Goods delivered and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier/ Selected Bidder in its bid, with the exception of any price adjustments authorized in the special conditions of the contract.

13) Recoveries from Supplier/ Selected Bidder

- a) Recovery of liquidated damages, short supply, breakage, rejected articles shall be made ordinarily from bills.
- b) The Purchase Officer shall withhold amount to the extent of short supply, broken/ damaged or for rejected articles unless these are replaced satisfactorily. In case of failure to withhold the amount, it shall be recovered from his dues and performance security deposit available with RISL.
- c) The balance, if any, shall be demanded from the Supplier/ Selected Bidder and when recovery is not possible, the Purchase Officer shall take recourse to law in force.

14) Taxes & Duties

- a) The GST (Goods & Service Tax) shall be deducted at source/ paid by tendering authority as per prevailing rates.
- b) For goods supplied from outside India, the successful/ selected bidder shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the country.
- c) For goods supplied from within India, the successful/ selected bidder shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- d) If any tax exemptions, reductions, allowances or privileges may be available to the successful/ selected bidder in India, the Purchaser shall use its best efforts to enable the successful/ selected bidder to benefit from any such tax savings to the maximum allowable extent.

15) Copyright

The copyright in all drawings, design documents, source code and other materials containing data and information furnished to the Purchaser by the Successful bidder/ Selected Bidder herein shall remain vested in the Purchaser, or, if they are furnished to the Purchaser directly or through the Successful bidder/ Selected Bidder by any third party, including successful bidders of materials, the copyright in such materials shall remain vested in such third party.

16) Confidential Information

- a) The Purchaser and the Successful bidder/ Selected Bidder shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any drawings, documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract.
- b) The Successful bidder/ Selected Bidder may furnish to its Subcontractor, if permitted, such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Successful bidder/ Selected Bidder shall obtain

from such Subcontractor an undertaking of confidentiality similar to that imposed on the Successful bidder/ Selected Bidder.

- c) The Purchaser shall not use such documents, data, and other information received from the Successful bidder/ Selected Bidder for any purposes unrelated to the Contract. Similarly, the Successful bidder/ Selected Bidder shall not use such documents, data, and other information received from the Purchaser for any purpose other than the design, procurement, or other work and services required for the performance of the Contract.
- d) The obligation of a party under sub-clauses above, however, shall not apply to information that: -
 - i. the Purchaser or Successful bidder/ Selected Bidder need to share with tendering authority or other institutions participating in the Contract;
 - ii. now or hereafter enters the public domain through no fault of that party;
 - iii. can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - iv. Otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- e) The above provisions shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the supply or any part thereof.
- f) The provisions of this clause shall survive completion or termination, for whatever reason, of the Contract.

17) Sub-contracting

- a) The bidder shall not assign or sub-let his contract or any substantial part thereof to any other agency without the permission of Purchaser/ Tendering Authority.
- b) If permitted, the selected bidder shall notify the Purchaser, in writing, of all subcontracts awarded under the Contract, if not already specified in the Bid. Subcontracting shall in no event relieve the Supplier/ Selected Bidder from any of its obligations, duties, responsibilities, or liability under the Contract.
- c) Subcontractors, if permitted, shall comply with the provisions of bidding document and/ or contract.

18) Specifications and Standards

- a) All articles supplied shall strictly conform to the specifications, trademark laid down in the bidding document and wherever articles have been required according to ISI/ ISO/ other applicable specifications/ certifications/ standards, those articles should conform strictly to those specifications/ certifications/ standards. The supply shall be of best quality and description. The decision of the competent authority/ purchase committee whether the articles supplied conforms to the specifications shall be final and binding on the selected bidder.
- b) Technical Specifications and Drawings
 - i. The Supplier/ Selected Bidder shall ensure that the goods and related services comply with the technical specifications enclosed other provisions of the Contract.
 - ii. The Supplier/ Selected Bidder shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
 - iii. The goods and related services supplied under this Contract shall conform to the standards mentioned in bidding document and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the country of origin of the Goods.
- c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the bidding document. During Contract execution, any changes in any such codes and standards shall be

applied only after approval by the Purchaser and shall be treated in accordance with the general conditions of the contract.

- d) The supplier/ selected bidder must certify that all the goods are new, unused, and of the agreed make and models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- e) The supplier/ selected bidder should further warrant that the Goods shall be free from defects arising from any act or omission of the supplier/ selected bidder or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the place of final destination.

19) Packing and Documents

- a) The Supplier/ Selected Bidder shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit.
- b) The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in the contract, and in any other instructions ordered by the Purchaser.

20) Insurance

- a) The Goods supplied under the Contract shall be fully insured against loss by theft, destruction or damage incidental to manufacture or acquisition, transportation, storage, fire, flood, under exposure to weather and delivery at the designated project locations, in accordance with the applicable terms. The insurance charges will be borne by the supplier and Purchaser will not be required to pay such charges if incurred.
- b) The goods will be delivered at the FOR destination in perfect condition.

21) Transportation

- a) The supplier/ selected bidder shall be responsible for transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good such loss and shortage found at the checking/ inspection of the material by the consignee. No extra cost on such account shall be admissible.
- b) All goods must be sent freight paid through Railways or goods transport. If goods are sent freight to pay, the freight together with departmental charge @5% of the freight will be recovered from the supplier's/ selected bidder's bill.

22) Inspection

- a) The Purchase Officer or his duly authorized representative shall at all reasonable time have access to the supplier's/ selected bidder's premises and shall have the power at all reasonable time to inspect and examine the materials and workmanship of the goods/ equipment/ machineries during manufacturing process or afterwards as may be decided.
- b) The supplier/ selected bidder shall furnish complete address of the premises of his factory, office, go-down and workshop where inspection can be made together with name and address of the person who is to be contacted for the purpose.
- c) After successful inspection, it will be supplier's/ selected bidder's responsibility to dispatch and install the equipment at respective locations without any financial liability to the Purchaser. However, supplies when received at respective locations shall be subject to inspection to ensure whether they conform to the specification.

- d) **List of Quality Control (Civil) Tests to be carried out.** The following tests but not limited to be carried out by the bidder as required by Engineer-Incharge. The bidder has to deploy testing machine for various tests at site or to be carried out by NABL / ISO approved lab.

S. No.	Name of Test
1	AGGREGATES (IS:383;2386;6241)
1.1	Impact Value
1.2	Sieve Analysis (Gradation)
1.3	Crushing Value
1.4	Water Absorption / Surface Moisture
1.5	Specific Gravity
1.6	Bulk Density
1.7	Flakiness Index
1.8	Elongation Test
2	FINE AGGREGATE (IS: 383; 2720)
2.1	Sieve Analyst (Gradation)
2.2	Bulk Density
2.3	Specific Gravity
2.4	Fineness Modules* (inclusive Gradation)
2.5	Surface Moisture contents
2.6	Water Absorption
2.7	Organic impurities
3	CEMENT (IS: 269; 8112; 12269; 4031; 4032; 1727)
3.1	Fineness (Dry Sieving Test)
3.2	Fineness (Blaine air permeability)
3.3	Consistency & Setting Time
3.4	Compressive Strength of Cube 3 Cement Cubes (including preparation of sample) Consisting with IS
3.5	Density
3.6	Soundness (Le-Chatelier's Test)
3.7	CHEMICAL TEST as per relevant IS Code
3.7.1	Silica (SiO ₂) Ferric Oxide (Fe ₂ O ₃) + Alumina (Al ₂ O ₃) Alumina (Al ₂ O ₃) Ferric Oxide (Fe ₂ O ₃)
4	TILES (TERRAZOMARBLE/GLAZED) (IS: 777; 1130; 13753; 13754; 13755; 13756)
4.1	Water absorption
4.2	Transits to Strength
4.3	Abrasion Test
5	BRICKS TEST (IS: 3495)
5.1	Compressive Strength
5.2	Water Absorption

5.3	Efflorescence
5.4	Dimension Test
6	CEMENT CONCRETE (IS : 11199; 516; 9013; 13311; 7320; 456; 15658; 10262; SP - 23; IRC - 44)
6.1	Compressive Strength (Cement / Cement Concrete Cubes)
6.2	Concrete Mix Design including Lab Testing in Normal Conditions*
6.3	Slump Test / Compaction Factor Test
7	NON DESTRUCTIVE TEST (IS: 133 Pt I, II etc.)
7.1	Rebound Hammer test at one location (including Transportation)
7.2	To determine the compressive strength / depth of cracks by Ultrasonic Pulse Velocity meter
8	ROCK/STONE (IS: 1124; 5640; 6341; 8764; 9143; 13030)
8.1	Water absorption
8.2	Crushing strength of stone
9	Flush Door Test (IS 4020)
9.1	Impact Indentation
9.2	Edge Loading
10	BITUMEN TEST
10.1	Bitumen Extraction Test
11	TMT BAR PHYSICAL TEST
11.1	Tensile Strength
11.2	0.2 % Proof Stress
11.3	Elongation
11.4	Bend Test
11.5	Nominal Mass
11.6	CHEMICAL TEST as per relevant IS Code
	Carbon Sulphur Phosphorus Silicon Manganese
12	Fly Ash
12.1	Total chloride in percent by mass,max.
12.2	Loss of ignition in percent by mass, max.
12.3	Fineness, specific surface in m ² /kg
12.4	Compressive strength at 28 days in N/mm ² ,Min.
13	Water
13.1	pH Value
13.2	Limits ofAcidity
13.3	Limits of Alkalinity
13.4	Percentage of solids
13.5	Chlorides
13.6	Suspended matter
13.7	Sulphates
13.8	Inorganic solids

13.9	Organic solids
14	ADMIXTURE
14.1	Relative Density
14.2	PH
14.3	Chloride Content
14.4	Dry Material Content
15	Tests as per IS-383 for source approval:
	Aggregates
15.1	Petrographic Test
15.2	Alkali Aggregate reactivity
15.3	Soundness
15.4	Aggregate impact value
15.5	Sieve Analysis (Particle Size)
15.6	Aggregate crushing strength
15.7	Water Absorption
15.8	Specific gravity
15.9	Bulk density
15.10	Flakiness Index
15.11	Elongation Test
15.12	Determination of 10% fine value
15.13	Percentage of soft or deleterious material
15.14	Estimation of organic impurities
16	Fine Aggregates
16.1	Particle size distribution
16.2	Bulk Density
16.3	Specific Gravity
16.4	Fineness Modules* (inclusive Gradation)
16.5	Water Absorption
16.6	Bulking of Sand
16.7	Silt Content
16.8	Organic impurities
17	Physical Tests
17.1	Fineness (Dry Sieving Test)
17.2	Fineness (By Blaine Air Permeability)
17.3	Consistency & Setting Time
17.4	Compressive Strength of Cube 3 Cement Cubes (including preparation of sample) Consisting with IS
17.5	Soundness (Le-Chatelier's Test)
17.6	Density

23) Testing Equipments

a) Electrical, MEP & Other Building Services

The Bidder should have following Electrical Measuring & Testing instrument (but not limited to) during execution, it should be noted the list is not exhaustive & additional instrument may require according to requirement.

1. Digital Megger
2. Digital Clamp meter
3. Digital Multi meter
4. Earth Resistivity Meter
5. Insulation Resistance Tester
6. Cable Fault Locator
7. Phase Sequence indicator
8. Light Lux measurement meter
9. Digital Indoor/Out Door Thermometer
10. Capacitance Tester
11. Equipment related to Air conditioning machines installation.
12. Pressure testing equipment for fire and AC Pipes
13. Equipment's related to LAN, IBMS

b) Civil

The bidder should have/hire the following equipments (but not limited to) during construction and execution of work. The No. of Equipments to be decided as per the requirement for completion of work as per time lines given.

- 1) Sieves :- For coarse & fine aggregate:
40 mm, 20 mm, 12.5 mm, 10 mm, 4.75mm, 2.36mm, 1.18mm, 600 micron, 300 micron, 150 micron.
- 2) Moulds :
 - a) Mortar moulds of size: (70.6 * 70.6 * 70.6) mm
 - b) Concrete moulds of size: (150*150*150) mm.
- 3) Weighing machine (Digital Balance)
- 4) Slump cone with tamping rod.
- 5) Standard steel tape.
- 6) Thickness & length guage as per 15:2386 (Part-I) -1963
- 7) Concrete test Hammer (rebound hammer) of impact energy 2.207 Nm (0.225 kgm) as per 15:1331 (Part-2) 1992.

C) List of Equipments for Construction of Multirise Building

The bidder should have/hire the following equipments (but not limited to) during construction and execution of work. The No. of Equipments to be decided as per the requirement for completion of work as per time lines given.

- 1) Excavators
- 2) Loaders
- 3) Backhoe
- 4) Tippers
- 5) Tower crane/ hoist / Monkey crane
- 6) Batch Mixing Plant(concrete)
- 7) Vibrator
 - a) Needle
 - b) Plate
- 8) Cutting & Bending tools for reinforcement
- 9) Conveyors
- 10) Sand Screening machine
- 11) Material Handling Equipment: - Mini Lift, Slab. Trolley, Multi Lift.
- 12) Compactor – earth compactor
- 13) Survey Equipments – Total Station

24) Samples

- a) When notified by the Purchaser to the supplier/ bidder/ selected bidder, Bids for articles/ goods marked in the BoM shall be accompanied by four sets of samples of the articles quoted properly packed. Such samples if submitted personally will be received in the office. A receipt will be given for each sample by the officer receiving the samples. Samples if sent by train, etc., should be despatched freight paid and the R/R or G.R. should be sent under a separate registered cover. Samples for catering/ food items should be given in a plastic box or in polythene bags at the cost of the bidder.
- b) Each sample shall be marked suitably either by written on the sample or on a slip of durable paper securely fastened to the sample, the name of the bidder and serial number of the item, of which it is a sample in the schedule.
- c) Approved samples would be retained free of cost upto the period of six months after the expiry of the contract. RISL shall not be responsible for any damage, wear and tear or loss during testing, examination, etc., during the period these samples are retained.
The Samples shall be collected by the supplier/ bidder/ selected bidder on the expiry of stipulated period. RISL shall in no way make arrangements to return the samples. The samples uncollected within 9 months after expiry of contract shall be forfeited by RISL and no claim for their cost, etc., shall be entertained.
- d) Samples not approved shall be collected by the unsuccessful bidder. RISL will not be responsible for any damage, wear and tear, or loss during testing, examination, etc., during the period these samples are retained. The uncollected samples shall be forfeited and no claim for their cost, etc., shall be entertained.
- e) Supplies when received may be subject to inspection to ensure whether they conform to the specifications or with the approved samples. Where necessary or prescribed or practical, tests shall be carried out in Government laboratories, reputed testing house like STQC (ETDC) and the like and the supplies will be accepted only when the articles conform to the standard of prescribed specifications as a result of such tests.
- f) The supplier/ selected bidder shall at its own expense and at no cost to the Purchaser carry out all such tests and/ or inspections of the Goods and Related Services as are specified in the bidding document.

25) Drawl of Samples

In case of tests, wherever feasible, samples shall be drawn in four sets in the presence of supplier/ bidder/ selected bidder or his authorised representative and properly sealed in their presence. Once such set shall be given to them, one or two will be sent to the laboratories and/ or testing house and the third or fourth will be retained in the office for reference and record.

26) Testing charges

Testing charges shall be borne by the Government. In case, test results showing that supplies are not upto the prescribed standards or specifications, the testing charges shall be payable by the selected bidder.

27) Rejection

- a) Articles not approved during inspection or testing shall be rejected and will have to be replaced by the selected bidder at his own cost within the time fixed by the Purchase Officer.
- b) If, however, due to exigencies of RISL/DoIT&C work, such replacement either in whole or in part, is not considered feasible, the Purchase Officer after giving an opportunity to the selected bidder of being heard shall for reasons to be recorded, deduct a suitable amount from the approved rates. The deduction so made shall be final.
- c) The rejected articles shall be removed by the supplier/ bidder/ selected bidder within 15 days of intimation of rejection, after which Purchase Officer shall not be responsible for any loss, shortage or damage and shall have the right to dispose of such articles as he thinks fit, at the selected bidder's risk and on his account.
- a) The manpower deputed by the successful bidder shall be reviewed by the purchaser in terms of its qualifications, experience, efficiency, cooperation, discipline and performance and services. The purchaser,

upon finding any deficiency in any of the parameter, may reject any of the manpower by giving 15 days' time, as decided by the purchaser, which the selected bidder has to replace within the given time frame.

28) Extension in execution of work and Liquidated Damages (LD)

- a) Except as provided under clause "Force Majeure", if the supplier/ selected bidder fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in (d) below for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the bidding document and/ or contract. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to clause "Termination".
- b) The time specified for delivery in the bidding document shall be deemed to be the essence of the contract and the supplier/ selected bidder shall arrange goods supply and related services within the specified period.
- c) Delivery and installation/ completion period may be extended with or without liquidated damages, if the delay in the supply of goods or service is on account of hindrances beyond the control of the supplier/ selected bidder.
 - i. The supplier/ selected bidder shall request in writing to the Purchaser giving reasons for extending the delivery period of service, if he finds himself unable to complete the supply of goods or service within the stipulated delivery period or is unable to maintain prorata progress in the supply of goods or service delivery. This request shall be submitted as soon as a hindrance in delivery of goods and service occurs or within 15 days from such occurrence but before expiry of stipulated period of completion of delivery of goods and service after which such request shall not be entertained.
 - ii. The Purchaser shall examine the justification of causes of hindrance in the execution of work/ delivery of goods and service and the period of delay occurred due to that and recommend the competent authority on the period of extension which should be granted with or without liquidated damages.
 - iii. Normally, extension in delivery/ execution period of goods and service in following circumstances may be considered without liquidated damages:
 - a. When delay has occurred due to delay in supply of drawings, designs, plans etc. if the RISL was required to supply them to the supplier of goods or service provider as per terms of the contract.
 - b. When delay has occurred in supply of materials etc. if these were required to be supplied to the supplier or service provider by the RISL as per terms of the contract.
 - iv. If the competent authority agrees to extend the delivery/execution period/ schedule, an amendment to the contract with suitable denial clauses and with or without liquidated damages, as the case may be, shall be issued. The amendment letter shall mention that no extra price or additional cost for any reason, what so ever beyond the contracted cost shall be paid for the delayed supply of goods and service.
 - v. It shall be at the discretion of the concerned authority to accept or not to accept the supply of goods and/ or services rendered by the contractor after the expiry of the stipulated delivery/ execution period, if no formal extension in delivery period has been applied and granted. The competent authority shall have right to cancel the contract with respect to undelivered goods and/ or service.
 - vi. If RISL is in need of the good and/ or service rendered after expiry of the stipulated delivery/ execution period, it may accept the services and issue a letter of extension in delivery period with usual liquidated damages and denial clauses to regularize the transaction.
- d) In case of extension in the delivery and/ or installation/ completion/ commissioning period is granted with full liquidated damages, the recovery shall be made on the basis of following percentages of value of goods and/ or service which the supplier/ selected bidder has failed to supply/ install/ complete: -

S. No.	Condition	LD %*
a.	Delay up to one fourth period of the prescribed period of delivery, successful installation and completion of work	2.5 %
b.	Delay exceeding one fourth but not exceeding half of the prescribed period of delivery, successful installation and completion of work	5.0 %
c.	Delay exceeding half but not exceeding three fourth of the prescribed period of delivery, successful installation and completion of work	7.5 %
d.	Delay exceeding three fourth of the prescribed period of delivery, successful installation and completion of work	10.0 %

- i. Fraction of a day in reckoning period of delay in supplies, successful installation and completion of work shall be eliminated, if it is less than half a day.
- ii. The maximum amount of liquidated damages shall be 10% of the contract value.
- iii. *The percentage refers to the payment due for the associated works/ goods/ service.

29) Limitation of Liability

Except in cases of gross negligence or wilful misconduct: -

- a) neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier/ selected bidder to pay liquidated damages to the Purchaser; and
- b) the aggregate liability of the supplier/ selected bidder to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the amount specified in the Contract, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier/ selected bidder to indemnify the Purchaser with respect to patent infringement.

30) Authenticity of Equipment

- a) The selected bidder shall certify that the supplied goods are brand new, genuine/ authentic, not refurbished, conform to the description and quality as specified in this bidding document and are free from defects in material, workmanship and service.
- b) If during the contract period, the said goods be discovered counterfeit/ unauthentic or not to conform to the description and quality aforesaid or have determined (and the decision of the Purchase Officer in that behalf will be final and conclusive), notwithstanding the fact that the purchaser may have inspected and/ or approved the said goods, the purchaser will be entitled to reject the said goods or such portion thereof as may be discovered not to conform to the said description and quality, on such rejection the goods will be at the selected bidder’s risk and all the provisions relating to rejection of goods etc., shall apply. The selected bidder shall, if so called upon to do, replace the goods etc., or such portion thereof as is rejected by Purchase Officer, otherwise the selected bidder shall pay such damage as may arise by the reason of the breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the Purchase Officer in that behalf under this contract or otherwise.
- c) Goods accepted by the purchaser in terms of the contract shall in no way dilute purchaser’s right to reject the same later, if found deficient in terms of the this clause of the contract.

31) Work to Be Open to Inspection: Contractor or His Responsible Agent to Be Present

All work, under or in course of execution or executed in pursuance or the contract, shall, at all times, be open to inspection and supervision of the Engineer-in-charge and Tendering Authority at all times during the usual working hours, and at all other items at which reasonable notice of the intention of Tendering Authority the Engineer-in-charge or his subordinate or any other authorized agency of the Government of committee of retired officer/officers appointed by the State Government for the purpose to visit the works shall have been given to Contractor, either himself be present to receive orders and instructions or have a responsible agent,

duly accredited in writing, present for purpose. Orders given to the Contractor's agent shall be considered to have the same force as if they had been given to the Contractor himself.

32) Notice To Be Given Before Any Work Is Covered Up

The contractor shall give not less than 7 days notice, in writing to the Tendering authority or Engineer-in-charge or his subordinate-in-charge of the work, before covering up or otherwise placing beyond the reach of measurement, any work in order that the same may be measured, and correct dimensions thereof, be taken before the same is so covered up or placed beyond the reach of measurement and shall not.

33) Contractor Liable For Damage Done and For Imperfections

If the Contractor or his work people or servants shall break, deface, injure or destroy any part of a building in which they may be working or any building, road, fence, enclosure, or cultivated ground, contiguous to the premises on which the work or any part of it is being executed, or if any damage shall happen to the work. While in progress, from any cause, whatsoever, or any imperfection become apparent it, within a period specified in Clause 37, after a Certificate, final or otherwise of its completion shall have been given by the Engineer-in-Charge or Tendering Authority, may cause the same to be made good by other workmen and deduct the expense (of which the certificate of the Engineering-in-charge or Tendering Authority shall be final) from any sums may be then, or at any time, thereafter may become due to the Contractor, or form his performance security, or the proceeds of sale thereof, or of a sufficient portion thereof.

34) Contractor to Adhere To Labour Laws / Regulation

The contractor shall adhere to the requirements of the Workmen's Compensation Act and Labour Legislation in force from time to time and be responsible for and shall pay any compensation to his workmen which would be payable for injuries under the work men's Compensation Act, here in after called the said Act. If such compensation to his workmen which would be payable for injuries under the workmen's Compensation Act, hereinafter called the said Act. If such compensation is paid by the State as Principal employer under Sub Section (1) of Section 12 of the said Act, on behalf of the contractor it shall be recoverable by the State from the Contractor under sub Section (2) of the said section. Such compensation shall be recovered in the manner laid down in clause I of the conditions of contract. "All contract with Government shall require registration of works under the Building & other Construction Workers (Regulation of Employment & Conditions of Services) Act, 1996 and extension of benefit to such workers under the Act."

35) Withdrawal of Work from the Contractor

If the Tendering Authority shall at any time and for any reasons, whatever, including inability to maintain prodata progress, think any portion of the work should not be executed or should be withdrawn from the contractor, he may be notice in writing to that effect, require the Contractor not to execute the portion of the work specified in the notice, or may withdraw from the Contractor the portion of work, so specified, and the Contractor shall not be entitled to any compensation, by reason of such portion of work having been withdrawn from him. The Engineer-in-charge or Tendering Authority may supplement the work by engaging another agency to execute such portion of the work at the cost of the original contractor without prejudice to his rights. He shall also be competent to levy compensation for delay in progress. The recovery of excess cost shall be made from next available 3 running bill or any other claim and shall not be deferred.

36) Protect Works

The contractor shall arrange to protect at his own cost, in an adequate manner all out stone work and other, requiring protection and to maintain such protection, as long as work is in progress. He shall remove and replace this protection as required by the Engineer-in-charge or Tendering Authority, from time to time, any damage to the work, so protected no matter how it may be caused. Shall be made good by the Contractor free of cost. All template, forms, moulds, centering, false works and models, which in the opinion of the Engineer-in-charge or Tendering Authority, are necessary for the proper and workman like execution of the work, shall be provided by the Contractor free of cost.

37) Fair Wage Clause

(a) The contractor shall pay not less than fair wages/minimum wages to labourers engaged by him on the work as revised from time to time by the Government but the Government shall not be liable to pay anything extra.

Explanation: "Fair Wage" means minimum wages for time or piece work fixed or revised by the State Government under the Minimum Wages Act, 1948.

- (b) The contractor shall, notwithstanding the provisions of any contract of the contrary cause to be paid fair wages to labourers indirectly engaged on the work, including any labour engaged by his sub-contractors in connection with the said work as if the labourers have been immediately or directly employed by him.
- (c) In respect of all labourers immediately or directly employed on the work for the purpose of contractor Rs part of this agreement, the contractor shall comply with or cause to be complied with the Rajasthan Public Work Department Contractor's Labour Regulations made or that may be made by the Government from time to time, in regard to payment of wages, wage period deductions from wages, recovery of wages not paid and unauthorized deductions, maintenance of wages register, wages card, publication of scale of wages and other terms of employment, inspection and submission of periodical returns and other matters of a like nature.
- (d) The Engineer-in-charge or Tendering Authority shall have the right to deduct from the money due to the Contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers, by reasons of non-fulfilment of the conditions of the contract, for the benefit of the worker or workers, non-payment of wages or of deduction made there from, which are not justified by the terms of the contract, or as a result of non-observance, of the aforesaid regulations.
- (e) Vis-a Vis, the Government of Rajasthan, the Contractor shall *e primarily liable for all payments to be made and for the observance of the regulations aforesaid, without prejudice to his right to claim indemnity from his sub-contractors.
- (f) The regulations, aforesaid, shall be deemed to be part of this contract and any breach, thereof, shall be deemed to be breach.

38) Patent Indemnity

- a) The successful bidder/ selected bidder shall, subject to the Purchaser's compliance with sub-clause (b) below, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:
- i. the installation of the Goods by the successful bidder/ selected bidder or the use of the Goods in the country where the Site is located; and
 - ii. The sale in any country of the products produced by the Goods.
- Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the successful bidder/ selected bidder, pursuant to the Contract.
- b) If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to above, the Purchaser shall promptly give the successful bidder/ selected bidder a notice thereof, and the successful bidder/ selected bidder may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

- c) If the successful bidder/ selected bidder fails to notify the Purchaser within thirty (30) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.
- d) The Purchaser shall, at the successful bidder's/ selected bidder's request, afford all available assistance to the successful bidder/ selected bidder in conducting such proceedings or claim, and shall be reimbursed by the successful bidder/ selected bidder for all expenses incurred in so doing.
- e) The Purchaser shall indemnify and hold harmless the successful bidder/ selected bidder and its employees, officers, and Subcontractors (if any) from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the successful bidder/ selected bidder may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

39) Limitation of Liability

Except in cases of gross negligence or wilful misconduct: -

- c) neither party shall be liable to the other party for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier/ selected bidder to pay liquidated damages to the Purchaser; and
- d) the aggregate liability of the supplier/ selected bidder to the Purchaser, whether under the Contract, in tort, or otherwise, shall not exceed the amount specified in the Contract, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier/ selected bidder to indemnify the Purchaser with respect to patent infringement.

40) Force Majeure

- a) The supplier/ selected bidder shall not be liable for forfeiture of its PSD, LD, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- b) For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the supplier/ selected bidder that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the supplier/ selected bidder. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- c) If a Force Majeure situation arises, the supplier/ selected bidder shall promptly notify the RISL in writing of such conditions and cause thereof within 15 days of occurrence of such event. Unless otherwise directed by RISL, the supplier/ selected bidder shall continue to perform its obligations under the contract as far as reasonably practical.
- d) If the performance in whole or part or any obligation under the contract is prevented or delayed by any reason of Force Majeure for a period exceeding 60 days, either party at its option may terminate the contract without any financial repercussion on either side.
- e) In case a Force Majeure situation occurs with the RISL, the RISL may take the case with the supplier/ selected bidder on similar lines.

41) Change Orders and Contract Amendments

- a) The Purchaser may at any time order the supplier/ selected bidder through Notice in accordance with clause "Notices" above, to make changes within the general scope of the Contract in any one or more of the following: -

- i. drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
 - ii. the method of shipment or packing;
 - iii. the place of delivery; and
 - iv. the related services to be provided by the supplier/ selected bidder.
- b) If any such change causes an increase or decrease in the cost of, or the time required for, the supplier's/ selected bidder's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery and Completion Schedule, or both, and the Contract shall accordingly should be amended. Any claims by the supplier/ selected bidder for adjustment under this clause must be asserted within thirty (30) days from the date of the supplier's/ selected bidder's receipt of the Purchaser's change order.
- c) Prices to be charged by the supplier/ selected bidder for any related services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier/ selected bidder for similar services.

42) Termination

a) Termination for Default

- i. The tender sanctioning authority of RISL may, without prejudice to any other remedy for breach of contract, by a written notice of default of at least 30 days sent to the supplier/ selected bidder, terminate the contract in whole or in part: -
 - a. If the supplier/ selected bidder fails to deliver any or all quantities of the service within the time period specified in the contract, or any extension thereof granted by RISL; or
 - b. If the supplier/ selected bidder fails to perform any other obligation under the contract within the specified period of delivery of service or any extension granted thereof; or
 - c. If the supplier/ selected bidder, in the judgement of the Purchaser, is found to be engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the contract.
 - d. If the supplier/ selected bidder commits breach of any condition of the contract.
- ii. If RISL terminates the contract in whole or in part, amount of PSD may be forfeited.
- iii. Before cancelling a contract and taking further action, advice of senior most finance person available in the office and of legal adviser or legal assistant posted in the office, if there is one, may be obtained.

b) Termination for Insolvency

RISL may at any time terminate the Contract by giving a written notice of at least 30 days to the supplier/ selected bidder, if the supplier/ selected bidder becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the supplier/ selected bidder, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to RISL.

c) Termination for Convenience

- i. RISL, by a written notice of at least 30 days sent to the supplier/ selected bidder, may terminate the Contract, in whole or in part, at any time for its convenience. The Notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the supplier/ selected bidder under the Contract is terminated, and the date upon which such termination becomes effective.
- ii. Depending on merits of the case the supplier/ selected bidder may be appropriately compensated on mutually agreed terms for the loss incurred by the contract if any due to such termination.
- iii. The Goods that are complete and ready for shipment within twenty-eight (28) days after the supplier's/ selected bidder's receipt of the Notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - a. To have any portion completed and delivered at the Contract terms and prices; and/or

- b. To cancel the remainder and pay to the supplier/ selected bidder an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the supplier/ selected bidder.

43) Settlement of Disputes

Any dispute existing out of contract shall be settled according to the provision of arbitration and conciliation act 1996

7. SPECIAL TERMS AND CONDITIONS OF TENDER & CONTRACT

1) Payment Terms and Schedule as per Site Progress

a) Payment schedule - Payments to the bidder, after successful completion of the target milestones (including specified project deliverables), would be made as under: -

S. No.	Phase	Deliverable	Timelines	Payment
1.	First Running Bill	Measurement of the work done duly sealed and signed by Engineer Incharge	Within 45 Days	Payment will be released on the basis of actual work done with statutory deductions*
2.	Second Running Bill	Measurement of the work done duly sealed and signed by Engineer Incharge	Within 90 Days	Measurement of the work done duly sealed and signed by Engineer Incharge
3.	3 rd Running Bill	Measurement of the work done duly sealed and signed by Engineer Incharge	Within 135 Days	Measurement of the work done duly sealed and signed by Engineer Incharge
4.	Final Bill	Measurement of the work done duly sealed and signed by Engineer Incharge	Within 180 Days	Payment will be released on the basis of actual work done with statutory deductions*

* Statutory deduction means IT, Works Contract tax, service tax, mining tax, 10% security deposit as applicable for works.

Payment will be released on the basis of actual work done with statutory deductions on monthly basis.

- b) The supplier's/ selected bidder's request for payment shall be made to the purchaser in writing, accompanied by invoices describing, as appropriate, the goods delivered and related services performed, and by the required documents submitted pursuant to general conditions of the contract and upon fulfilment of all the obligations stipulated in the Contract.
- c) Due payments shall be made promptly by the purchaser, generally within sixty (60) days after submission of an invoice or request for payment by the supplier/ selected bidder, and the purchaser has accepted it.
- d) The currency or currencies in which payments shall be made to the supplier/ selected bidder under this Contract shall be Indian Rupees (INR) only.
- e) All remittance charges will be borne by the supplier/ selected bidder.
- f) In case of disputed items, the disputed amount shall be withheld and will be paid only after settlement of the dispute.
- g) Payment in case of those goods which need testing shall be made only when such tests have been carried out, test results received conforming to the prescribed specification.
- h) Any penalties/ liquidated damages, as applicable, for delay and non-performance, as mentioned in this bidding document, will be deducted from the payments for the respective milestones.
- i) Taxes and other statutory deductions related to works, as applicable, will be deducted/ paid as per the prevalent rules and regulations.

2) Service Level Agreement

S. No.	Service Description	Measurement Parameter	Reporting Period	Target Service Level	Penalty
1.	Availability of	As per clause – A.	Monthly	As per	Rs 1,000 /- Per

S. No.	Service Description	Measurement Parameter	Reporting Period	Target Service Level	Penalty
	Manpower	Manpower Availability Service Levels		Requirement	Resource Per day
2	Maintenances of	Uptime and Time taken to repair/replace the faulty equipment (in hours)	Weekly	Less than 99.9 % of each module	Rs 100 /- Per hour per module.

Manpower Availability Service Levels

The manpower deployed by the bidder for carrying out and providing services for Manpower shall necessarily be on direct payroll of the bidder organization and should not be outsourced / subcontracted in any circumstances. The remaining manpower can be outsourced / subcontracted by the bidder organization.

Subcontractor and his manpower would be deployed after due approval from the tendering authority. The successful bidder shall be responsible for compliances of all statutory laws, such as minimum wages act and other applicable laws. Other provision like provident fund, ESI etc. shall be complied by the successful bidder & his subcontractor. The successful bidder has to provide documentary proof above said compliances.

The bidder shall post an on-site dedicated Project Manager to look after the entire operation with his/her on-site team, with no additional responsibility. The project manager shall coordinate with the designated officer of the tendering authority.

The bidder shall appoint as many team members during O&M phase, as deemed fit by them, keeping in view weekly off of the manpower and leaves (Leave reserves), subject to maintain the minimum manpower at site specified below to meet the SLA requirements. The tendering authority would not be liable to pay any additional cost for leave reserve. The bidder shall provide detailed CV of each and every manpower resource including leave reserves being provided to tendering authority before deployment of the resource at project.

Minimum manpower requirement is defined in the table mentioned below.

Minimum Manpower Resource

S.No.	Role	Min. Qualification, Relevant Experience & Certifications	Penalty on non-availability of resource (Per resource per day)
1	2	3	4
1	Civil Engineer cum Project Incharge	B.E. / B.Tech. in Civil Engg. + 6 years experience in Civil works and Equivalent.	1000/-
2	Electrical Engineer	B.E. / B.Tech. in Electrical Engg. + 4 years experience in Electrical works, HT/LT Panels, Transformers, DG Sets and Equivalent.	1000/-
3	HVAC Engineer	B.E. / B.Tech. in Electrical / Mechanical Engg. + 4 years experience in HVAC and Equivalent.	1000/-
4	Building Services	B.E. / B.Tech. in Electrical / Mechanical Engg. + 4 years	1000/-

S.No.	Role	Min. Qualification, Relevant Experience & Certifications	Penalty on non-availability of resource (Per resource per day)
1	2	3	4
	Engineer	experience in Building Services Works like Fire Fighting, Lift, Plumbing and Equivalent.	

Note: Number of man power may be increase or decrease and shift timing may be change during the entire project period as per requirement. However, any concern manpower should also be available on call during any emergency.

The bidder shall always maintain above minimum manpower on-site throughout the period of the contract. The Successful bidder has to ensure proper replacement for weekly off/absence/leave of any manpower resource without any cost. Every resource has to hand over its own work and status of his shift to subsequent resource in next shift.

Note: There will be 18 days leave for every manpower resource in a calendar year with due permission of designated authority of the purchaser. The successful bidder has to ensure proper replacement during the period of leave of the particular manpower resource.

The resources shall be deployed by the bidder to manage entire project and maintain the service level requirements. Provisions of leave reserve, providing leaves and other facilities / perks shall be as per the bidder prevailing policies / practices which shall be taken care by the bidder without any liability and/or financial implications on the part of Purchaser.

Periodic training to concerned persons for procedures to be followed for applicable Certification shall be provided by the bidder at no extra cost.

The team deployment plan at the site during O&M shall be prepared by the bidder periodically and shall obtain approval from designated authority of tendering authority prior to its implementation.

No resource shall be absent without prior permission of the designated authority. Penalty on non-availability of any resource shall be as under:

S. No.	No. of absence per role in a quarter	Applicable Penalty / Actions
1.	> 0 but ≤ 5	No. of absence shifts x Amount defined in the column "4" of above mentioned tables "Minimum Manpower Resources table"
2.	> 5 but ≤ 10	No. of absence shifts x 1.5 x Amount defined in the column "4" of above mentioned tables "Minimum Manpower Resources table"
3.	> 10	No. of absence shifts x 2 x Amount defined in the column "4" of above mentioned tables "Minimum Manpower Resources table", for given role in a quarter + Issue of letter of warning and subsequent actions as per terms and conditions of RFP

An absence of more than half an hour from the work place, without having permission of Designated Authority shall be considered as absent for the shift.

Operational Hardware, Software and other resources: The bidder shall deploy sufficient devices like desktops/laptop, printers, scanners, multi-function devices etc. for carrying out project operations and monitoring by its manpower resources deployed. All the required consumable shall be arranged by the bidder at his own cost. The equipments deployed shall generally not be moved from the place of installation except for the purpose of repair/ maintenance with permission of tendering authority.

Manpower Change

The replacement of resources by bidder after deployment will be allowed (without penalty) only in case, the resource leaves the organization by submitting resignation with the present employer with due approval of the tendering authority. The bidder has to deployed new resource in replacement before one month of the leaving of existing resource to hand over his charge and knowledge transfer to his successor and with due acknowledgement of the tendering authority. In case of failure to meet the standards of the purchaser, (which includes efficiency, cooperation, discipline and performance) bidder may be asked to replace the resource without any penalty for replacement/exit.

3) Change Requests/ Management

- a) An institutional mechanism will be set up for taking decisions regarding requests for changes. The Purchase Committee will set up a Change Control Committee with members from the procurement agency and the selected bidder. If it is unable to reach an agreement, the decision of the Purchase Committee will be final.
- b) RISL may at any time, by a written order given to the bidder , make changes within the general scope of the Agreement in any one or more of the following: -
 - ✓ Designs, specifications, requirements which software or service to be provided under the Agreement are to be specifically developed and rendered for RISL.
 - ✓ The method of deployment, shipping or packing.
 - ✓ Schedule for Installation Acceptance.
 - ✓ The place of delivery and/or the services to be provided by the bidder.
- c) The change request/ management procedure will follow the following steps: -
 - ✓ Identification and documentation of the need for the change - The information related to initiator, initiation date and details of change required and priority of the change will be documented by RISL.
 - ✓ Analysis and evaluation of the Change Request - Impact of the change in terms of the estimated effort, changed schedule, cost and the items impacted will be analysed and documented by the bidder.
 - ✓ Approval or disapproval of the change request – RISL will approve or disapprove the change requested including the additional payments for software development, quoted man-month rate shall be used for cost estimation, efforts of all technical resources- project manager, analyst, software developer, testing engineer, database architecture etc shall be taken into account for total man-month estimation to carry out the s/w development resulting from the change request. For all technical resources irrespective of their experience and specialisation, the quoted man-month rate shall be used. Efforts of support staff shall not be taken into consideration for this purpose.
 - ✓ Implementation of the change – The change will be implemented in accordance to the agreed cost, effort, and schedule by the selected bidder.
 - ✓ Verification of the change - The change will be verified by RISL on implementation of the change request.

- d) All changes outside the scope of supplies agreed to herein which may have likely financial implications in terms of the overall cost/ time of the project shall be undertaken by SI only after securing the express consent of RISL. In the event that the consent of RISL is not received then the change will not be carried out.
- e) While approving any change request, if required, RISL may ask the bidder to deploy the required resources on-site.
- f) If any such change outside the scope of supplies agreed to herein causes an increase or decrease in cost of, or the time required for, firm's performance of any provisions under the Agreement, equitable adjustments shall be made in the Agreement Price or Delivery Schedule, or both, and the Agreement shall accordingly be amended. Any claims by firm for adjustment under this must be asserted within 30 (thirty) days from the date of SI receiving the RISL change order which shall not be unreasonably withheld or delayed.

ANNEXURE-1: TECHNICAL SPECIFICATIONS

NAME OF WORK:- SITC OF LIFT WORK IN PROPOSED INCUBATION CENTER, KOTA, RAJASTHAN

TECHNICAL SPECIFICATION LIFT-1 & 2		
S.NO.	DESCRIPTION	SPECIFICATION
1	Design of Lift	Passenger Elevator
2	Capacity	20 Person/ 1360 Kg
3	Speed	1.0 Metre per second
4	Drive	VVVF Drive
5	Machine Room Location	without Machine Room (MRL)
6	Travel	12.0 metre approximate
7	No of Stops	4 Stops (Ground, First, Second, Terrace)
8	Available Well Size	2500mm(W) X 2400mm (D)
9	Power Supply	415 V, 3 Phase 50Hz AC
10	Auxiliary	Single Phase 220 V AC
11	Car Size	1800 mm (W) x 1700 mm (D) X 2300 mm (H)
12	Pit Depth from Finish Level	1800 mm
13	Required Head Room	4800 mm
14	Car Enclosure	
	Car Ceiling	Stainless Steel Honeycomb Finish
	Car Panels	Stainless Steel Honeycomb Finish
	Illumination	LED SPOT Light with Axial Fan
15	No of Entrance	One Location Front
16	Car Entrance	Automatic central opening Door in Stainless Steel Honeycomb Finish
17	Landing Entrance	Automatic central opening Door in Stainless Steel Honeycomb Finish
18	Clear Opening	1000 mm(W) X 2100 mm(H)
19	Control	Full Collective Simplex
20	Indicators (Car& Landing)	Seven Segment Indicator / DOT Matrix display
21	Motor Type & Capacity	Gearless Motor
22	Indicators(Car& Landing)	16 Segment Indicator / DOT Matrix display
23	Motor Type & Capacity	Gearless Machine,
24	Car & Counter Weight Ropes	Steel wire Ropes
		ARD
		overload detection
		Auto light and fan off
		closed loop control system
25	Automatic Announcement system	
26	Flooring	20MM RECESS FOR GRANITE FLOORING, Flooring is in the scope of lift vendor
27	Car Operating Panel	2 No.

ANNEXURE-2: BILL OF QUANTITY (BOQ)

S.No.	Item Description	Quantity	Unit
1	2	3	4
1	CIVIL SPECIFICATION		
2	DISMENTLING WORK		
3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	31	Cum.
4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.		
5	In cement mortar.	54	Cum.
6	EARTH WORK		
7	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sum on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in a lead of 50 meter. All kinds of soils	654	Cum.
8	BACK FILLING		
9	Filling available excavated earth (excluding rock) in trenches, plinth side of foundation etc. in layers not exceeding 20 cm. in depth, consolidating each deposited layer by ramming and watering including lead up to 50 meter and with all lift.	675	Cum.
10	Supplying and Filling in plinth with river sand under floors including watering ramming consolidating and dressing complete including cost of sand	887	Cum.
11	ANTITERMITE TREATMENT		
12	Diluting and injection Chloropyrifos Emulsifiable concentrate 20% with 1% concentration for PRE-CONSTRUCTIONAL Anti termite treatment as per IS 6313 part III as amended from time to time and creating a continuous chemical barrier under and around the column pits, wall trenches, basement excavation, top surface of plinth filling, junction of wall and floor along the external perimeter of building expansion joints, over the top surface of consolidated earth of which aproch is to be laid surrounding of pipes and conduits etc. complete as per specification (Plinth floor area only shall be measured for payment and excluding the cost of chemical emulsion)	950	Sqm.
13	P.C.C. WORK		
14	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering - All work up to plinth level.		
15	M10 grade Nominal Mix 1: 3: 6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size).	187	Cum.
16	Providing & fixing precast cement concrete coping 1 : 2 : 4 mix 50mm thick complete as per specification :	39	Sqm.
17	RANDOM RUBBLE MASONRY		
18	Random Rubble stone masonry for with hard stone in foundation and plinth in Cement Sand mortar above 30 CM thick wall in:		
19	Cement Mortar 1:6 (1-Cement : 6-Sand).	212	Cum.
20	Random Rubble stone masonry with hard stone in superstructure above plinth level and upto five level above 30cm. thick walls in :		
21	Cement Mortar 1:6 (1-Cement : 6-Sand).	500	Cum.
22	CINDER FILLING IN SUNKON		

S.No.	Item Description	Quantity	Unit
1	2	3	4
23	Random rubble dry stone Kharanja under floor.	30	Cum.
24	REINFORCEMENT WORK		
25	Providing and fabricating reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding (including cost of binding wire) all complete up to floor five level.		
26	Thermo-mechanically Treated bars (Conforming of relevent IS code)	91998	Kg.
27	Labour charges for cutting, bending for fabrication and binding reinforcement (plain or tor/ribbed/TMT steel) as per drawing and design for R.C.C. and R.B. work including cost of binding wire with all lead and lift up to floor five level complete.	91998	Kg.
28	SHUTTERING WORK		
29	Centering and Shuttering with plywood or steel sheets including strutting, propping bracing both ways and removal of formwork for foundation, footings, strap beam, raft , bases of columns etc.	1500	Sqm.
30	Centering & shuttering with plywood or steel sheets including strutting, propping bracing both ways with steel props and removal of formwork for upto floor five level for :		
31	Walls (any thickness) including attached pilasters, buttresses plinth and string course.	45	Sqm.
32	Suspended floors, roofs, landings, staircases, balconies, girders, cantilevers, bands, coping bed plates, anchor blocks, sills, chhajjas, lintel, beam, plinth beam etc.	3000	Sqm.
33	Columns, pillars, posts and struts etc.	1500	Sqm.
34	Spiral staircases, chimneys shafts etc.	200	Sqm.
35	R.C.C. WORK		
36	Providing and laying in position Ready mix concrete manufactured in fully automatic Batching Plant and transported to site in transit mixer for having continous agitated mixer, manufactured as per approved mix design of specified grade of RCC work including pumping of R.M.C. from transit mixer to site of laying , excuding the cost of centering, shuttering and reinforcement with all lead and lift including cost of admixtures in recommended portion as per IS 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer in charge . All works upto floor V floor M20 grade Design Mix by using min 400 Kg of cement per cum of concrete	750	Cum.
37	Add extra for providing richer mixes respectively at all floor levels		
38	Providing M-25 grade concrete by using min 410 kg of cement per cum instead of M-20 grade design mix.	200	Cum.
39	Providing M-30 grade concrete by using min 420 kg of cement per cum instead of M-20 grade design mix.	150	Cum.
40	WATER PROOFING WORK		
41	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying : a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proffing cement compound @ 0.253 kg/sqm. b) laying second layer of Fiber glass cloth when the first layer is still green . Overlaps of joints of fiber cloth should not be less than 10 cm . c) Third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proffing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. The entire treatment will be taken upto 30cm on parapet wall and tucked into groove in parapet all around	950	Sqm.

S.No.	Item Description	Quantity	Unit
1	2	3	4
	d) fourth and final layer of brick tiling 'with cement mortar or any other approved protective coarse. (which will be paid for separately) For the purpose of measurement the entire treated surface will be measured		
42	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : a) first layer of slurry of cement @ 0.488 kg/sqm mixed with water proffing cement compound @0.253 kg//sqm .This layer will be allowed to air cure for 4 hours. b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proffing cement compound @ 0.126 kg/sqm This layer will be allowed to air cure for 4 hours followed by water curing for 48 hours. The rates includes preparation of surface treatment & sealing of all joints ,corners, junction with polymer mixed slurry.	80	Sqm.
43	BRICK BAT KOBA		
44	Providing and laying brick kharanja on roofs with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound in square pattern		
45	75mm to 100mm thick average	950	Sqm.
46	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :	172	Mtr.
47	Making khurras 450 x 450mm with average minimum thickness 50mm cement concrete 1 : 2:4 over P.V.C. Sheet 1 Mtr. x 1 Mtr. x 40micron finished with 12mm cement plaster 1 : 3 and one coat of neat cement, rounding edges and making and finishing the out let complete.	10	Each
48	Providing & laying broken glazed titles on roof (broken glazed tiles not less than 9 Kg/Sqm) on top of hot bitumen @ 1.7 Kg/Sqm. (1.40 Kg of VG-40 (30/40)grade and 0.30 Kg/Sqm. Of VG-10 (80/100) grade) and joints filled with cement mortar 1 :2 (1 cement:2 marble dust mixed with water proofing compund all complete as per direction of Engineer-in-charge.	500	Sqm.
49	BRICK WORK		
50	Brick work with machine moulded perforated bricks of class designation 125 confirming to IS : 2222- 1991 in superstructure above plinth level upto five floor level in cement mortar 1:6 (1-Cement : 6-Coarse Sand) :		
51	with Modular bricks.	1500	Cum.
52	Half brick masonry in Superstructure , above plinth level upto floor V level using bricks of designation 75		
53	Cement mortar 1 : 6 (1 cement : 6 coarse sand)	350	Sqm.
54	PLASTER WORK		
55	6 mm thick cement plaster to ceiling of mix 1:3 (1cement : 3-fine sand)	2300	Sqm.
56	Plaster on new surface on walls in cement sand mortar 1:6 including racking of joint etc. complete fine finish :		
57	12mm thick.	4200	Sqm.
58	20mm thick.	2500	Sqm.
59	Making of drip course (Tapka) in cement sand mortar 1:6 width upto 40 mm and 10 mm thick as per approved design	100	RMT
60	6mm thick cement plaster 1:3 (1cement : 3fine sand) finished with a floating coat of neat cement and thick coat of Lime wash on top of walls when dry for bearing of R.C.C slabs and beams.	1000	Sqm.
61	Rough cast plaster upto 10m height above ground level with a mixture of sand and gravel or crushed stone from 6mm to 10mm nominal size dashed over and including	200	Sqm.

S.No.	Item Description	Quantity	Unit
1	2	3	4
	the fresh plaster in two layers, under layer 12mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely ground hydrated lime by volume of cement. Ordinary cement finish using ordinary cement		
62	FLOORING- VITRIFIED TILE		
63	P & F 1st qualityVitrified Porcelain Polished tiles on floor, skirting and steps etc.in different sizes (thickness to be specified by manufactuer) with water absortion less than 0.08% and conforming to IS 15622 of approved make in all colour and shade, laid with 20 mm thick CM 1 : 4 including grounting the joints with white cement and matching pigment etc complete.		
64	size 600 mm X 600 mm	1322	Sqm.
65	FLOORING - CERAMIC TILES		
66	Providing and fixing 1st quality MAT finished ceremec tile size 300x300mm confirming to IS : 13755 and IS : 15622 colour such as white, grey, ivory, fume red brown, light green, light blue and other light shades in floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (including the cost of cement mortar bed 1:4).	105	Sqm.
67	FLOORING -GRANITE		
68	Providing and fixing Granite stone slab mirror polished and machine edge cut in walls, pillars, steps, Shelves, Sills Counters, Floors etc. laid on 12mm (Av.) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) jointing with white cement mortar 1:2 (1white cement : 2 marble dust) with pigment to match the shade of the marble slab including grinding, rubbing and polishing complete.		
69	Green / Black		
70	1501 Cm ² to 3600 Cm ² Tiles	230	Sqm.
71	Extra for providing edge moulding to 15-18mm thick marble/ Granite stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.		
72	Granite Work	100	Mtr.
73	Extra for Mirror polishing on marble work where ever required to give high gloss finish complete.	150	Sqm.
74	WALL TILE - CERAMIC TILES		
75	Providing and fixing 1st quality standard white, grey, ivory, fume red brown, light green, light blue and other light shades glazed tiles confirming to IS : 13753 & IS :15622 of size 200mm x 300mm in walls, floors, steps, pillars etc. laid on a bed of neat cement slurry finished with flush pointing in the white cement mixed with pigment to match the shade of the tile complete (excluding the cost of cement plaster on walls and pillar).	252	Sqm.
76	FLOORING-KOTA		
77	Kota stone slab flooring 25 mm thick over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand)		
78	For area of each slab from 901 to 2000 Sq.Cm :	800	Sqm.
79	Kota stone slabs 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete		
80	For area of each slab upto 2001 Sqcm	500	Sqm.
81	OTHER ITEMS		

S.No.	Item Description	Quantity	Unit
1	2	3	4
82	Add extra for Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477 , using 5kg. adhesive per sum of tile area, in average 3mm thickness instead of cement mortar.	250	Sqm.
83	Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete	250	Mtr.
84	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete	25	Each
85	INTERLOCKING BLOCK		
86	Providing and fixing of precast concrete interlocking blocks of M 30 grade 60mm thick manufactured from fully computerised automatic stationery hydraulic vibropressed machine and fully computerised automatic batching plant of class A1/A2 as per BS 6717:2001. The CC interlocking paving blocks be laid on average 50mm. thick bed of coarse sand and the joint is to be filled with fine sand. Laying procedure on compacted sub-base as defined. Complete job is to be executed as per the instruction of Engineer incharge. The rates to be inclusive of all lead, Lifts and taxes. General specification of blocks: 1) Shape as defined by Engineer incharge 2) Tensile splitting strength and braking load as per BS 6717:2001 3) Color: Grey cement natural colour 4) Variation in dimension: Less than 1.6mm. 5) Variation in thickness: Less than 3.2mm 6) Abrasion: As per BS: 6717:2001	4000	Sqm.
87	STEEL WORK FOR ENTERANCE GATE		
88	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting (height upto 10 m), fixing in position and applying a priming coat of approved steel primer all complete.	1000	Kg.
89	RAILING		
90	Supply and fixing in cement mortar welded hand railing made out of MS round or square bars, flats etc. for staircase or verandah as per design complete in all respect (wooden or PVC hand railing to be paid extra) with priming coat of red oxide.	1500	Kg.
91	PAINT & POP WORK		
92	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	6500	Sqm.
93	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade including all scaffolding:		
94	New work (two or more coats) over and including scrapping and priming coat with cement primer.	6500	Sqm.
95	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade including all scaffolding:		
96	Two or more coats on new work including preparation of base with primer, putty, lippy etc complete in all respect.	2000	Sqm.
97	Painting exterior surface of Wall with 100% acrylic exterior paint of approved brand and manufacture to give an even shade with two or more coats including preparation of base with sand papering, primer, putty, etc complete in all respect.		
98	New Work	2500	Sqm.
99	Painting with synthetic enamel paint of approved brand and manufacture to give an		

S.No.	Item Description	Quantity	Unit
1	2	3	4
	even shade :		
100	Two or more coats on new work	200	Sqm.
101	White washing with lime to give an even shade including all scaffolding:		
102	New work (three or more coats).	100	Sqm.
103	FALSE CEILING WORK		
104	Providing and fixing 12.5 mm thick tapered edge gypsum board conforming to IS 2095-Part I at all height false ceiling including providing and fixing of frame work made of special sections power pressed from M.S. sheet and galvanised in accordance with zinc coating of grade 350 as per IS : 277 and consisting of angle cleats of size 25mm wide x 1.6mm thick with flanges of 22mm and 37mm at 1200mm centre to centre one flange fixed to the ceiling with dash fastener 12.5mm diax40mm long with 6mm dia bolts to the angle hangers of 25x25x0.55mm of required length, and other end of angle hanger being fixed with nut and bolts to G.I. channels 45x15x0.9mm running at the rate of 1200mm centre to centre to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26mm each having clips of 10.5mm at 450mm centre to centre shall be fixed in a direction perpendicular to G.I. channel with connecting clips made out of 2.64mm diax230mm long G.I. wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5mm thick 27mm high having flanges of 20mm and 30mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450mm centre to centre with 25mm long drive-all screws @ 230mm interval including jointing and fixing to a flush finish of tapered and square edges of the board with recommended filler, jointing tapes, finisher and two coats of primer suitable for board as per manufactures specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing and specification and direction of the Engineer in Charge but excluding the cost of painting.	400	Sqm.
105	DOOR-WINODW		
106	Providing & fixing door, window, chowkhats and other frames, including antitermite treatment, M.S. flat, hold fasts of size 250 x 40 x 3mm fixed with M.S. bolt 5mm dia 50mm long duly embedded in cement concrete M-15 grade :		
107	Sal wood Grade - I.	1	Sqm.
108	Providing and fixing external grade board solid core single leaf flush door shutters ISI 2202-67 marked using Phenol formal dehyderesin in glue both sides with approved steel fittings complete: 35 mm thick . Commercial Veneer both side	50	Sqm.
109	Extra for providing external lipping with 2nd class teak wood battens 6 mm minimum depth on all edges of shutters (over all area of door shutter to be measured) Over item no. 8.13.	15	Sqm.
110	Providing and fixing curtain rods of 1.25 mm thick chromium plated brass plate, with two chromium plated brass brackets fixed with C.P. brass screws and wooden plugs, etc., wherever necessary complete:		
111	20 mm	35	Mtr.
112	Providing and fixing bright finished Mortice lock of approved make Godrej or equivalent with pair of CP handles for doors with necessary screws etc complete (Best make of approved quality) as per direction of Engineer-in-charge.	28	Each
113	Extra for providing Brass handle instead of CP handle-10% extra	28	Each
114	Providing and fixing of uPVC Sliding windows manufactured in ISO 9001:2000 & 14001:2004 certified company. Frame : Made from the Extruded uPVC Window Profile Section of size 80 x 52mm having outer wall thickness of 2.25mm (+/- 0.2mm)		

S.No.	Item Description	Quantity	Unit
1	2	3	4
	<p>and 3 box multi-chamber construction, White in finish, duly reinforced with 1.2mm thick G/J/U/O TYPE GI section. Frame shall have three track configuration, two for sliding of window shutter and one for mosquito mesh shutter. Vertical member of frame which bears the sliding shutter load shall have aluminium rail/track for smooth sliding of shutter rollers. All the four corners shall be mitered cut & thermal welded so as to form window frame. Frame shall be milled with drain and air equalizer hole in order to be water tight and for drainage of accumulated water, if any, to outer side.</p> <p>Shutter : The shutter of sliding window shall be made of 54 x 38mm Extruded 3 box multi-chamber uPVC Window Profile Section of white colour having outer wall thickness of 2.25mm (+/- 0.2mm) provided with reinforcement of 1.2mm thick G/J/U/O TYPE GI section duly mitered cut & thermal welded at all corners and fitted with uPVC glazing bead of size 20.5 x 16mm with 'K' & 'O' type inner and outer EPDM weather seal gaskets alongwith 5mm thick ISI make plain float glass. Mesh shutter (optional) shall be made of 52 x 21.5mm Extruded 3 box multi-chamber uPVC Window Profile Section of white colour having outer wall thickness of 2mm (+/- 0.2mm) provided with reinforcement of 1.2mm thick U TYPE GI section duly mitered cut & thermal welded at all corners and fitted with nylon/polymer mesh and rollers/pully.</p> <p>All welding joints of frame and shutter shall be cleaned and milled with the CNC mechanism to provide uniform grooved finish on all visible joints. Hardware : Each sliding shutter is to be fixed with frame on two pullys/rollers and Locking of windows is provided with push lock (touch-lock) of powder-coated white finish. Necessary wind-breaking block, rubber buffer blocks are to be provided in windows for prevention / buffering the collision between window frame and shutter when sliding. Installation at Site : Complete window is to be installed on site with 10 x 100mm fastners with white cap in existing pre-finished wall cut-out cemented to glass level plane at all height & width and silicon glue is applied to fill up the crevices between wall and window frame.</p> <p>Complete in all respect as per the drawing and specifications and direction of engineer-in-charge.</p>		
115	With mesh shuteer	36	Sqm.
116	<p>Providing and fixing aluminum work for doors ,windows, ventilators and partition with extruded built up standard tubular / appropriate Z sections and other sections of approved make conforming to IS :733 and IS :1285, fixed with rawl plugs and screws or with fixing clips ,or with expansion hold fasteners including necessary filling up of gap. at junctions , at top ,bottom and sides with required PVC/neoprene felt etc. Aluminium section shall be smooth ,rust free, straight ,mitered and jointed mechanically wherever required including cleat angle Aluminium snap beading for glazing /paneling , C.P. brass/ stainless steel screws Al. Tower bolt & Al. handle & Al. Aldrop etc.,all complete as per architectural drawings and the directions of Engineer- in – charge .(Glazing and paneling to be paid for separately).</p>		
117	Anodised aluminum (anodised transparent 81 dyed to required shade according to IS : 1868. (Minimum anodic coating of grade AC 15, Anodizing to be got done from approved Anodizer)	35	Kg.
118	Powder coating aluminum (minimum thickness of powder coating 50 micron)	35	Kg.
119	<p>Providing and fixing glazing in aluminium door, window ,ventilator shutters and partitions etc. with PVS / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge.(Cost of aluminium snap beading shall be paid in basic item.)</p>		

S.No.	Item Description	Quantity	Unit
1	2	3	4
120	With float glass panes of 5.0 mm thickness (weight not less than 13.50 kg/sqm)	10	Sqm.
121	Filling the gap upto 5 mm depth and 5 mm width in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.	52	RMT
122	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	10	Each
123	CONCRETE JALI		
124	Providing and fixing Artificial concrete Jali of 25 mm. thickness including cleaning and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete including plastering of the jambs, sills and soffits with all contractors labour, tools and plants, lead and lift, materials, etc. as a complete job as per approved drawings, specifications and as per directions by engineer-in-charge.	38	Sqm.
125	STRUCTURAL GLAZING IN EXTERNAL FACADE		
126	Design, supply & installation of structural Glazing system designed to withstand the wind pressure as pr IS 875 (Part-III).The system should be executed with SS-316 Grade Steel of DORMA or equivalent approved make with laminated glass panel of Saint Gobin / ASAI. The overall thickness of the laminated glass should be 13.52 mm. The laminated glass should be made of 6mm toughened clear glass on top and bottom layer and 1.52 mm. thick PVB layer between the glass. The glass panel shall be connected to M.S. members in supporting system as shown in architectural drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labor, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete.	125	Sqm.
127	COLUMN CORNER PROTECTION		
128	Supply and fixing rubber corner guards for columns at parking areas, fixed with stainless steel flathead fastener flush and plastic cement adhesive according to manufacturer instructions and detailed drawing. Size of corner guard should be 100x100 mm wide, 1200 mm height and thickness 20 mm, with reflective stickers.	22	Nos.
129	RETROREFLECTIVE STRIPS		
130	Providing and applying 2.5 mm thick road marking strips (retroreflective) of specified shade/ colour using hot thermoplastic material by fully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour , tools & plants cleaning the surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications	150	Sqm.
131	CORE CUTTING		
132	Drilling with core cutting machine in RCC beams,slabs,floorsetc.,for laying pipes and rendering the same in RCC 1:2:4 finishing the same to the satisfaction of the owner or his authorised representative etc.,including nominal reinforcement wherever required,complete,at all levels The quote shall also include for providing EPOXY based water proofing compound for sealing the joints around the pipes upto 250mm max depth at all heights & levels	25	Nos.
133	ROOF INSULATION		

S.No.	Item Description	Quantity	Unit
1	2	3	4
134	Providing and laying roof insulation with 40 mm thick impervious sprayed, closed cell free Rigid Polyurethane foam over deck insulation conforming to IS - 12432 Pt. III (density of foam being 40-45 kg/ cum), over a coat of polyurethane primer applied @ 6-8 sqm per litre, laying 400 G polythene sheet over PUF spray and providing a wearing course of 40 mm thick cement screed 1: 2 : 4 (1 cement :2 coarse sand : 4 stone aggregate 20 mm nominal size) in chequered rough finish, in panels of 2.5 m x 2.5 m and embedding with 24 G wire netting and sealing the joints with polymerized mastic, all complete as per direction of Engineer-in Charge.	500	Sqm.
135	TOILET CUBICAL- HPL		
136	Supply and fixing in position GREENLAM STURDO, ALP or equivalent brand Toilet Cubicle (of following standard dimension which includes 600mm door size width) made of heat, bacteria,water, chemical, scratch and impact resistant 12mm thick solid high pressure compact laminate panels including doors, pilasters & intermediate panels finished with approved texture/shade as per the detail drawings & as per IS 2046 (Indian Standard).The compact lamination should have Green Guard Certificate. It should be anti bacterial (certified by recomnded Test House). This also includes providing and fixing in position necessary hardware made out of Alluminium (Grade-6063-T6) & SS 304 GRADE With Alluminium Supporting systems (1) Door Knob, (2) Gravity hinges, (3) Latchlock indicators, (4) Top rail, (5) Coat Hooks, (6) U-Channels, (7) Door stopper channel, (8) SS Adjustable foot, (9) Noise Deafening Tape etc., (10) Screws (Stainless steel in 304 Grade with satin finish) & wall plugs. The adjustable foot support the pilaster and its based is anchored to the floor with stainless stell & nylon plug fixed in to ground, there U channel are used to attached the divider pannels to the wall. The alluminium top rail coated in natural anodised color to used to fix the pilaster at the top. All aspects specified by the manufactures,Greenlam Sturdo ALP orequivalent company.	5	Nos.
137	Toilet Cubicle with standard dimension Front 12mm thick with 2145mm Height x 1000mm Width (Door Size 600mm x 1830mm), Partition 12mm thick 1550mm Depth x 1980mm height (Including gap of 150mm),which includes 600mm door size width L type.	5	Nos.
138	Toilet Cubicle I-Shape (Front Partition) with standard dimension of 12mm thick, 2145 mm Height x 1000mm Width which includes (600mm x 1830mm door size width).	5	Nos.
139	FEAMELESS GLASS DOOR		
140	Providing and fixing fully glazed toughend glass (8 mm. / 12mm thk) frameless toughened glass door of size as per drawing with patch fitting having 1" dia. 1'-6" long SS brushed finish handle on both sides including heavy duty double action ISI marked floor-spring with steel cover plate, with edges rounded, floor lock , all accessories etc. Cost includes cutting and making good the floors for fixing floor spring. All complete as per approval and instructions of the Architect / employer.	35	Sqm.
141	RUBBLE SOLING		
142	Providing and laying 230 mm thick rubble soling including hand packing, filling the interstices with chips, spalls and binding with grit and selected murrum, watering, compacting by hand ramming.	210	Cum.

S.No.	Item Description	Quantity	Unit
1	2	3	4
143	WATER PROOFING OF OVER HEAD R.C.C. WATER TANK		
144	Providing waterproofing for the OH Tanks by injection method by injection grouting the walls at joints/wherever required/specified & providing waterproof plastering in 2 layers in CM1:4 of tk 50mm for floor, 25mm for walls till top slab with waterproof admixture as per Manufacturer's specification approved by consultants with a minimum guarantee period of 10yrs	500	Sqm.
145	Providing & laying "+" shaped 3 or 5 mm PVC spacers in between the tiles and joints filled using Laticrete Latapoxy SP-100 epoxy grout of approved shade & color. The joint depth shall be 6 mm. Laticrete product shall be procured by Laticrete India Pvt.Ltd/ Laticrete International Inc.	375	Sqm.
146	Providing, laying & removing 18 mm. thick POP on the existing/ new laid flooring for the protection of flooring with base covering plastic.	550	Sqm.
147	Providing 3 nos. Grooves on tread parallel to the length of the tread and machine polishing the edge. The edge shall be moulded and machine polished with anti slip grooves.	180	RMT
148	Providing & laying floor protection sheet of plastic make as approved by project manager.	250	Sqm.
149	S.S. RAILING		
150	Providing and fixing Stainless Steel (Grade 304) railing made of Hollow tubes, channels, plates etc. including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete i/c fixing the railing with necessary accessories and stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge.	25	RMT
151	CEMENT PUTTY		
152	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface, finished smooth, plane and in level including supply of materials, labour, preparation of base etc. all complete as per drawing, specification and direction of Architect.	75	Sqm.
153	URINAL PARTITION		
154	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 18-20 mm. thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. Granite Stone of approved shade	14	Sqm.
155	ELECTRICAL		
156	Wiring		
157	Wiring of light point / fan point / exhaust fan point / call bell point with 1.5 sq. mm FR insulated unsheathed flexible copper conductor 1.1kV grade and 1.5 sq.mm FR insulated unsheathed flexible earth copper conductor 1.1 kV grade (IS:694) including the cost of ISI marked Medium duty PVC conduit in surface / recessed & it's accessories, 18 swg M.S.modular box, 6 A modular type switch with modular grid plate & cover plate, zinc plated / brass screws, cup washers, bushes check nuts, making connections, testing etc. as per specification, drawing & recommended make.		
158	One point controlled by one no 6 A switch	111	P. Point
159	Group of two or more points controlled by one no 6 A switch	84	P. Point

S.No.	Item Description	Quantity	Unit
1	2	3	4
160	Wiring for Twin controlled Light point with 2 x 1.5 Sqmm FRLS PVC insulated, copper conductor Multistrand Flexible wires in surface/ recessed Medium duty PVC conduit & its accessories including the cost of cutting/ making good chases in brick work and including the cost of Supplying and fixing of 2 nos MS boxes & fixing of 2 nos 6 Amp Two way Modular type switch, grid plate, modular cover plate & and also include cost of loop earthing with 1.0 Sqmm FRLS PVC insulated, Copper conductor multistrand Flexible wires Complete as required	6	P. Point
161	Wiring of 3 pin 6 amp. Light plug point with 2.5 sq. mm FR insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq.mm FR insulated unsheathed flexible copper earth conductor 1.1 kV grade(IS:694) including the cost of ISI marked Medium duty PVC conduit in surface / recessed & it's accessories, 18 swg M.S.modular box, 6 A modular type switch and modular socket outlet with modular grid plate & cover plate, zinc plated / brass screws, cup washers, bushes check nuts, making connections, testing etc. as per specification, drawing & recommended make. (Raw Power).		
162	On board	40	P. Point
163	Wiring of 3 pin 6 amp. Light plug point with 2.5 sq. mm FR insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq.mm FR insulated unsheathed flexible copper earth conductor 1.1 kV grade(IS:694) including the cost of ISI marked Medium duty PVC conduit in surface / recessed & it's accessories, 18 swg M.S.modular box, 6 A modular type switch and modular socket outlet with modular grid plate & cover plate, zinc plated / brass screws, cup washers, bushes check nuts, making connections, testing etc. as per specification, drawing & recommended make..		
164	One 6 A socket controlled by one 6 A switch (Raw Power up to 1 mtr)	70	P. Point
165	One 6 A socket controlled by one 6 A switch (Raw Power up to 5 mtr)	40	P. Point
166	Wiring of 3 pin 6 amp. Light plug point with 4.0 sq. mm FR insulated unsheathed flexible copper conductor 1.1 kV grade and 2.5 sq.mm FR insulated unsheathed flexible copper earth conductor 1.1 kV grade(IS:694) including the cost of ISI marked Medium duty PVC conduit in surface / recessed & it's accessories, 18 swg M.S.modular box, 6 A modular type switch and modular socket outlet with modular grid plate & cover plate, zinc plated / brass screws, cup washers, bushes check nuts, making connections, testing etc. as per specification, drawing & recommended make.		
167	Two 6 A socket controlled by one 6 A switch (UPS Power up to 1 mtr).	70	P. Point
168	Two 6 A socket controlled by one 6 A switch (UPS Power up to 5 mtr).	40	P. Point
169	Wiring of 5 pin 16 amp. Power plug point with 2.5 sq. mm FR insulated unsheathed flexible copper conductor 1.1 kV grade and 2.5 sq.mm FR insulated unsheathed flexible copper earth conductor 1.1 kV grade(IS:694) including the cost of ISI marked Medium duty PVC conduit in surface / recessed & it's accessories, 18 swg M.S.modular box, 16 A modular type switch and modular socket outlet with modular grid plate & cover plate, zinc plated / brass screws, cup washers, bushes check nuts, making connections, testing etc. as per specification, drawing & recommended make (up to 4 mtr).	50	P. Point
170	Wiring of 5 pin 16 amp. Power plug point with 4.0 sq. mm FR insulated unsheathed	20	P.

S.No.	Item Description	Quantity	Unit
1	2	3	4
	flexible copper conductor 1.1 kV grade and 2.5 sq.mm FR insulated unsheathed flexible copper earth conductor 1.1 kV grade(IS:694) including the cost of ISI marked Medium duty PVC conduit in surface / recessed & it's accessories, 18 swg M.S.modular box, 16 A modular type switch and modular socket outlet with modular grid plate & cover plate, zinc plated / brass screws, cup washers, bushes check nuts, making connections, testing etc. as per specification, drawing & recommended make (up to 4 mtr).		Point
171	S&F following sizes of ISI marked Medium duty PVC conduit along with heavy duty accessories in surface /recessed using saddles, clamps, fasteners as required including cutting the wall and making good the same as per specification, drawing & recommended make. (for Electrical)		
172	20 mm	600	P Mtr
173	25 mm	1800	P Mtr
174	32 mm	450	P Mtr
175	Providing and fixing of following sizes of MS channel made of 14 guage sheet metal with all accessories as required for fixing on floor complete as required including providing junction boxes, cutting the floor etc. as required.		
176	400 mm x 50 mm (3mm thick cover)	70	P Mtr
177	300 mm x 40 mm (3mm thick cover)	35	P Mtr
178	200 mm x 40 mm (3mm thick cover)	25	P Mtr
179	150 mm x 40 mm (3mm thick cover)	30	P Mtr
180	100 mm x 40 mm (3mm thick cover)	40	P Mtr
181	65 mm x 40 mm (3mm thick cover)	60	P Mtr
182	Supplying, Receiving, Storing and fixing in position at site, floor outlet boxes having a size of 450 x 450 x 60 mm fabricated using 14 Gauge White CRCA Sheets complete with powder coating with metal treatment done.	7	EACH
183	Supplying, Receiving, Storing and fixing in position at site, floor outlet boxes having a size of 350 x 350 x 50 mm fabricated using 14 Gauge White CRCA Sheets complete with powder coating with metal treatment done.	5	EACH
184	Supplying, Receiving, Storing and fixing in position at site, floor outlet boxes having a size of 250 x 250 x 50 mm fabricated using 14 Gauge White CRCA Sheets complete with powder coating with metal treatment done.	8	EACH
185	Supplying, Receiving, Storing and fixing in position at site, floor outlet boxes having a size of 150 x 150 x 50 mm fabricated using 14 Gauge White CRCA Sheets complete with powder coating with metal treatment done.	14	EACH
186	Supplying, Receiving, Storing and fixing in position at site, floor outlet boxes having a size of 100 x 100 x 50 mm fabricated using 14 Gauge White CRCA Sheets complete with powder coating with metal treatment done.	25	EACH
187	Supplying and drawing FR insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required.		
188	2 x 2.5 sq. mm. + 1x1.5sqmm	4000	P Mtr
189	2 x 4.0 sq. mm. + 1 x 2.5 sq. mm.	2000	P Mtr
190	2 x 6.0 sq. mm. + 1 x 4.0 sq. mm.	300	P Mtr
191	4 x 6.0 sq. mm. + 1 x 4.0 sq. mm. (DB supply)	500	P Mtr
192	4 x 10.0 sq. mm. + 1 x 6.0 sq. mm. (DB supply)	250	P Mtr
193	4 x 16.0 sq. mm. + 1 x 6.0 sq. mm.	200	P Mtr
194	4 x 50.0 sq. mm. + 1 x 25.0 sq. mm. (UPS supply)	50	P Mtr
195	4 x 70.0 sq. mm. + 1 x 35.0 sq. mm. (UPS supply)	50	P Mtr
196	P & F 2.5 sqmm 6 way (3 pole) 16 amp nylon 6.6 cage clamp screw less copper	200	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
	connector including making connection etc as required		
197	P & F 4.0 sqmm 6 way (3 pole) 32 amp nylon 6.6 cage clamp screw less copper connector including making connection etc as required	25	Each
198	P & F 6.0 sqmm 6 way (3 pole) 32 amp nylon 6.6 cage clamp screw less copper connector including making connection etc as required	25	Each
199	Supply and fixing of LED Recessed Downlighter with a minimum system lumen output of 2000 lumens and a minimum system efficacy of 100 lm/W. The luminaire shall have a rated system lifetime of 30,000 burning hours at L70. The luminaire should have a color temperature of 6500K and CRI>70. The luminaire shall meet IP20 rating with THD<10% and PF > 0.9. The luminaire housing should made of pressure die cast aluminium with a high efficiency diffuser. The total power consumption should not exceed 18W (including driver) of make Philips /Wipro /CG.	40	Each
200	Supply and fixing of LED Recessed 2 x 2 Luminaire with a minimum system lumen output of 3400 lumens and a minimum system efficacy of 120 lm/W. The luminaire shall have a rated system lifetime of 50,000 burning hours at L70. The luminaire should have a color temperature of 6500K and CRI>80. The luminaire shall meet IP20 rating with THD<10% and PF >0.9 and an operating Voltage Range of 140 - 270 V. The luminaire housing should made of powder coated metallic CRCA with high efficiency opal diffuser .The total power consumption should not exceed 32W (including driver) of make Philips /Wipro /CG.	40	Each
201	P & F of IP20 LED batten type light fixture made from extruded aluminium housing suitable for mouting LED tube system non replaceable driver, Power Consumption of 22W 2200 lumens, system lumen efficiency 100 lm/Watt output, life time of 25,000 burning hours with 70% initial lumen maintained. CCT 4000°K & 6500°K of make Philips /Wipro /CG.	60	Each
202	Supplying, installation, testing & commissioning of 14 watt 5000K-6500K mirror light all accessories i/c connections with 3 x 1.5 sq.mm PVC insulated FR copper conductor cable etc. as reqd of Make Philips /Wipro /CG.	12	Each
203	P & F of IP65 IK10 rated LED bulk head type light fixture made from CRCA sheet steel housing suitable for mouting LED tube system (integral driver), Power Consumption of 10W ~ 1000 lumens, system lumen efficiency 100 lm/Watt output, life time of 50,000 burning hours with 70% initial lumen maintained. CCT 3000°K, 4000°K & 6000°K of Make Philips /Wipro /CG.	8	Each
204	DATA & TELEPHON WORK		
205	S&F following sizes of ISI marked Medium duty PVC conduit along with heavy duty accessories in surface /recessed using saddles, clamps, fasteners as required including cutting the wall and making good the same as per specification, drawing & recommended make. (for CCTV / ACCESS CONTROL / DATA / VOICE)		
206	20 mm	100	P Mtr
207	25 mm	1000	P Mtr
208	Supplying and drawing PVC jacketed with annealed bare copper inner conductor & tinned copper conductor shielding foam PE dielectric coaxial cable (RG-6) of approved make in existing surface or recessed conduit/casing capping including making connections as required.	140	P Mtr
209	Supply , Drawing and Testing of 4 pair, 24 AWG UTP Cat 6 Cable as per latest ammendments of TIA /EIA 568 B.2-1 Specifications in existing MS/PVC Conduits including making connections to Information outlets and Patch Panels with ferruling at both ends for identification with necessary tools for punching, stripping, crimpping and testing required as per list of make.	8000	RMT
210	Supply and Installation of Information outlets made of high impact plastic bodyABS FR	204	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
	Grade with spring loaded collapsible shutters in jack Recess, suitable for Cat 6 application complying to latest ammendments EIA/ TIA 568 B.2-1 Specifications in existing modular /MS Boxes along with necessary connections as required. I/O's to have Terminator caps for toolless termination Single Outlet with required face plate, Box etc as per list of make.		
211	Supply , Installation, Testing and Comissioning of Rack mounted 19", Cat 6 UTP,1.5-1.6 MM CRS chasis , powder coated Modular Patch Panels with collapsible shutters on jacks to support latest ammendments of TIA / EIA Cat 6 Specifications in Existing Communication Rack along with necessary connections of Cat 6 UTP Cables, With Rear Cable management trays and clamps.		
212	24 Ports	6	Each
213	Supply , Installation, Testing and Comissioning of 18U Wall mounted Communication rack with glass doors, handles ,lock , Top and Bottom Cable entries, Supports for mounting rack on wall , Cable managers, one Fan, Equipment mounting hardware, power supply box for supplying power to switches, fans etc along with earth continuity kit, Mcb, indicator, moulded power supply cable	4	Each
214	Supply , Installation, Testing and Comissioning of 42U Floor Standing Network Communication rack with width 800 MM, Depth 1000 MM, front glass door, rear MS door, side openable panels, min 10 socket Vertical PDU -02 no, two nos Vertical Cable managers, 05 nos Horizontal Cable managers, lock on both doors, Top and Bottom Cable entries with gland plates, Coastor with brakes, 1 no Fan tray with 2 x 230 Volt fans, Equipment mounting hardware, etc (for Networking & Voice) (Approved Make: President, Comrack, rittal)	1	Each
215	Supply , Installation, Testing and Comissioning of Rack mounted 19", 50 Port Voice Patch panel to support latest ammendments of TIA / EIA specifications in Existing Communication Rack along with necessary connections of Cat 6 UTP Voice Cables, With Rear Cable management trays and clamps (for Voice Cabling system) Make- Amp/Molex/Penduit	3	Each
216	Supply , Drawing and Testing of 50 pair, 24 AWG UTP Cable as per latest ammendments of TIA /EIA 568 B.2-1 Specifications in existing MS/PVC Conduits including making connections to Information outlets and Patch Panels with ferruling at both ends for identification with necessary tools for punching, stripping, crimping and testing required (for Voice Cabling system) Make- Amp/Molex/Penduit	160	P Mtr
217	Supply , Installation and Testing of 4 pair , 100 Ohm, 24 AWG , Cat 6 UTP, flexible , 0.5 mtrs Double ended Patch Cords along with 2 No of RJ 45 connectors with strain relief transparent boots as per TIA /EIA 568 B.2-1 Specifications (for Voice Patching purpose) (Makes: Molex, AMP, Penduit)	150	Each
218	SITC of Managed 24 port Layer-2 Intelligent Ethernet Switch providing 24 x 10/100/1000 Fast Ethernet ports and with min 4 SFP Giga Ports (provision for Fiber Giga connectivity) with provision of minimum Stacking of 06 Switches with related LAN Base Software . (FOR DATA)	6	Each
219	SITC of Managed 24 port Layer-2 POE (370 watt) Intelligent Ethernet Switch providing 24 x 10/100/1000 Fast Ethernet ports and with min 4 SFP Giga Ports (provision for Fiber Giga connectivity) with provision of minimum Stacking of 06 Switches with related LAN Base Software . (FOR CCTV)	2	Each
220	P & F following size hot dip galvanized M.S. box with earthing terminal in recess/ surface suitable for accessories as required.		
221	100 mm X 100 mm X 60 mm deep	250	Each
222	P & Fixing of following size modular type mounting grid plates with cover plates		
223	1 /2 Module	250	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
224	P & F following modular accessories made out of unbreakable and fire retardant poly carbonate with silver contacts including making connections testing etc. as per list of make.		
225	T.V. coaxial socket	4	Each
226	SITC of IP Based 2MP Motorised Vari-Focal Vandal Proof Dome Camera with alumium alloy wall mounted kit with junction The camera shall be of 1/2.8" Progressive CMOS, ICR, 0lux with IR, 1920x1080, 25fps(P)/30fps(N), Motorised 2.8~12mm VF lens, H.264/MJPEG, dual-stream, 120dB WDR or better, 3D DNR, BLC, IR: up to 30m, Support on-board storage up to 128GB (SD card not included), Intrusion detection, Line crossing detection, Motion detection, Dynamic analysis, Alarm should be trigger on (Tampering alarm, Network disconnect, IP address conflict, Storage exception), security feature such as (password protection, privacy mask, watermark, IP address filtering, anonymous access), Open Standard to support ONVIF (PROFILE S, PROFILE G), PSIA and CGI Protocol, Metal Housing, Vandal-proof housing up to IK10 rating, IEC60068-275Eh, 20J; EN50102, IP67, DC 12V & PoE, Oerating Conditions: - 30 °C – 60 °C or better. IK10 test report to be provided, UL / CE / FCC certified.	10	Each
227	SITC of IP Based 2MP IR Bullet Camera: 1/2.8" Progressive CMOS, ICR, 0lux with IR, 1920x1080:25fps(P)/30fps(N), 4mm / 6mm lens (As persite requirement), H.264 / MJPEG, dual-stream, 120dB WDR or better, 3D DNR, BLC, IR: up to 50m, Intrusion detection, Line crossing detection, Motion detection, Dynamic analysis, Alarm should be trigger on (Tampering alarm, Network disconnect, IP address conflict, Storage exception), security feature such as (password protection, privacy mask, watermark, IP address filtering, anonymous access), Open Standard to support ONVIF (PROFILE S, PROFILE G), PSIA and CGI Protocol, Metal Housing, Vandal-proof housing IP67, DC 12V & PoE. Complete with junction box for cable management. Oerating Conditions: -30 °C – 60 °C or better, UL / CE / FCC certified.	4	Each
228	SITC of All in one Server combination with OS, advanced iVMS and inbuilt 96 TB Storage device: with Intel Xeon 4 core (64bit) E3-1225 V5 CPU @ 3.3Ghz or better, 8GB RAM, ONVIF based VMS software and Windows 10 or better on independent drive. Should support up to 256 cameras for live view, recording & Playback, VMS and storage device should be located on independent mother board with Network interfaces, serial interfaces, HDMI outputs, 756 MBPS or better incoming & outgoing bandwidth, support up to 12Mp cameras, support ANPR cameras with generating reports, Intrusion detection, Line Crossing Detection, Face Detection, People Counting features, ANR technology, N+1 hot spare system, Should have minimum 4 Sata HDD slots for OS and 16 HDD Sata type slots for recording, each slot should support upto 8TB HDD, e-Sata interface, mini SAS interface, 4 x 1Gbps network interface (separately for server board and storage board) RS232 , RS484, RAID 0,1,5,6,10, Alarm in/out: 16/08 or better, dual independent HDMI output, Two Way audio, e-Map, number of event logs up to 100,000, dual power supply, 19" Rack mount chassis. UL, CE and FCC compliance.	1	Each
229	Supply Installation Testing and Commissioning of of 32Ch NVR with 08 Sata with 256 Mbps incoming Bandwidth, dual Operating System, ANR technology for storage reliability, ONVIF based third party cameras should be connected, 4K output, Up to H.265 Compression Support, up to 8MP Cameras supported for live view and playback, able to decode 08 cameras @ 1080p, 24 TB Surveillance HDD (each of 6 TB), 08 Sata slots to support up to 6TB each, two-way audio, dual 10/100/1000mbps RJ45 Network, USB 3.0 port, Alarm In/Out (16/4), Operating Conditions: -10 °C – 50 °C or better, dual power supply, 19" rack mounted chassis. Certificate of Compliance: UL/ CE / FCC. including making connection etc as required. The NVR should be of the same	1	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
	make of cameras for the smooth working of the system.		
230	Supply, Installation & Commissioning of Workstation latest Intel® i7 4th Generation, processor, Intel Chipset motherboard, 16 GB DDR3 RAM, 500 GB SATA HDD at 7200 rpm, Graphic card with 1 GB dedicated RAM with display ports/DVI/ HDMI port, DVD writer, Giga LAN Card, Keyboard, optical Mouse.	2	Each
231	SITC of 17" Screen for viewing for Storage.	1	Each
232	SITC of 55" Flat Screen HD Profesional LED suitable for 24x7 operation with remote control and wall mount unit / floor stand complete with making connections etc.	1	Each
233	Supply , Drawing and Testing of 4 pair, Cat 6A FTP - Foiled Twisted Cable as per latest ammendments of TIA /EIA 568 C.2 Specifications in existing MS/PVC Conduits/ HDPE pipe with ferruling at both ends for identification with necessary tools for punching, stripping, crimping and testing required. (CCTV cable)	500	P Mtr
234	SITC of FM Connector (specifically designed for tool less connection for CAT6 FTP / Outdoor cabling system, can be usable for multiple times) required for both end connectivity to take care for Data connectivity as well as Power for the cameras, The FM connector shall be used for earth connectivity at both end.	24	Each
235	Supplying and drawing ATC bunched conductor, PVC/PE insulated, PVC SHEATHED 8 core ACCESS control cable.	350	P Mtr
236	SITC of Fingerprint and RF Card based Access Controller with LCD and Keypad having Optical Fingerprint and RF Card based Reader with EM Proximity Card Reader Module (Low Frequency), Support EM Prox, Mifare Smart and HID iCLASS Card Module, Dot-Matrix LCD and Touchsense Keypad, Built-In Interfaces Such as USB, Door Lock, Door Sense, Exit Reader, Exit Switch, Ethernet, Aux Input and Aux Output Port, Mobile Broadband (3G/2G) Connectivity on USB, Access Control, Time-Attendance and Cafeteria Application, 5,00,000 Events and 9,600 Fingerprint Templates, 4 LEDs and Buzzer with 2nos licence dongle.	3	Each
237	The Access Controller should have software for 100 user expandable up to 500 user, with Comprehensive Time-Attendance and Leave Management Software Module, Comprehensive Access Control Management	1	Each
238	The Access Controller should have user licence.	100	Each
239	SITC of lock with bracket of 600lbs electromagnetic lock unmonitored type 12V LED Lamp.	6	Each
240	SITC of Exit Button of size 3 inches x 3 inches .	3	Each
241	SITC of IP54 rating Boom Barrier that shall open in case of an impulse with the use of a valid card/Push Button. The barrier shall close either after the vehicle has passed or after an adjustable hold-open time in case the vehicle chooses not to pass through. Appropriate sensors shall be used for this purpose. It shall meet the following specifications.	2	Each
242	The barrier shall use a Blockable DC High Torque Drive in combination with CAN bus communication standard interfaced Controller. It shall offer LCD Display & Graphic User Interface for easy control setting. Possibility for integration via standard user interfaces. The Booms shall be extruded aluminium with round shape & having swing-away flange. 100% duty cycle, will work on vide voltage range 85 – 264 V AC, Opening & Closing Time 1.30 Secs for length up to 3 Meter, Operating Temperature - 30 Degree Celsius to + 55 Degree Celsius, Barrier Housing Unit: Powder Coated Boom: Powder Coated White RAL 9010 with Red reflective strips. Housing shall be modular & constructed of Aluminium with Base frame in SS-304 for high protection against corrosion. All Housing and internal parts will be rust & corrosion free metals or alloys of high strength with suitable Epoxy coating as applicable.		
243	The controller shall have minimun 8 digital input, 4 digital output, 6 relay output. The		

S.No.	Item Description	Quantity	Unit
1	2	3	4
	barrier shall have auto Swing Away Flange, 10/10 Beaufort rating (Boom not swaying from wind velocity), The barrier shall have MCBF- 10 Million Cycles, MTBF- 50,000 Hours, MTTR- 30 Minutes. The barrier shall have Impact detection without additional sensors, such as pressure sensitive device; with possibility of automatic reversing or safe stop after impact detection,The barrier shall have Selection of behaviour in case of power failure: Stay locked / stay unlocked / automatic opening of Magnetic Autocontrol / Automatic System.		
244	DISTRIBUTION BOARDS		
245	P&F Recessed/ Surface mounting heavy duty horizontal type TPN double door sheet steel Distribution board phophatised/ powder painted complete with copper bus bar, shorting link , neutral link, earth link and din bar, conforming to IS13032 & IS8623 including making internal DB terminations with copper lugs , with 3nos ELCB / RCBO, testing etc. as per approved make.		
246	6 Way	2	Each
247	8 Way	12	Each
248	12 Way	6	Each
249	P&F Recessed/ Surface mounting heavy duty horizontal type SPN double door sheet steel Distribution board phophatised/ powder painted complete with copper bus bar, shorting link , neutral link, earth link and din bar, conforming to IS13032 & IS8623 including making internal DB terminations with copper lugs , testing etc. as per approved make. (DB for lift)		
250	12 Way	2	Each
251	P&F 240/415 V MCB of breaking capacity not less than 10 KA (B/C/D tripping characteristic) ISI marked IS 8828(1996)]/ conforming to IEC 60898 in existing board/sheets including making connections with lugs, testing etc. as per approved make.		
252	Single pole MCB		
253	6 A to 32 A rating	425	Each
254	Double pole MCB		
255	32/40 A rating	2	Each
256	Four pole MCB		
257	32 A rating	2	Each
258	40A to 63 A rating	18	Each
259	P&F 240/415 V Residual current circuit breaker conforming to IS:12640:1988/ IEC 61008 on existing board/sheet including making connections, testing etc. as required		
260	40 A DP RCCB 30 mA	40	Each
261	63 A DP RCCB 30 mA	18	Each
262	P & F Recessed / Surface mounting heavy duty horizontal type 16 swg sheet steel cable end box phophatised / powder painted complete with cover plate, nut bolt, to be fixed at top / bottom of the DB to keep extra cable in the end box etc as required to cover the entire lenght of distribution board as mentioned in the above items.		
263	Suitable for SPN DB	2	Each
264	Suitable for TPN DB	18	Each
265	EARTHINGS		
266	Supply installation testing and commissioning of maintenance free GEL earthing dual pipe technology of 3 mtr long 80 mm dia with the adequate galvanization of 300 microns filled with special conducting compound, 50 Kgs of Moisture Booster to retain the moisture duly tested & certified by CPRI Laboratory. The earthing pit shall be provided with suitable sturdy test well for observation as per approved make.	33	EACH
267	Supply installation testing and commissioning of maintenance free GEL earthing dual	8	EACH

S.No.	Item Description	Quantity	Unit
1	2	3	4
	pipe technology of 2 mtr long 50 mm dia with the adequate galvanization of 300 microns filled with special conducting compound, 25 Kgs of Moisture Booster to retain the moisture duly tested & certified by CPRI Laboratory. The earthing pit shall be provided with suitable sturdy test well for observation as per approved make.		
268	S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess on SMC insulator including riveting, soldering, saddles, making connection etc. as required.		
269	8 SWG Cu wire	200	P Mtr
270	50mm x 6mm GI strip	250	P Mtr
271	50mm x 6mm copper strip duly PVC sleeved	40	P Mtr
272	32mm x 6mm GI strip	80	P Mtr
273	32mm x 6mm copper strip duly PVC sleeved	80	P Mtr
274	32mm x 3mm GI strip	120	P Mtr
275	S & Laying following size flexible earth wire/strip of 2.0 mtr length for connecting earth strip to DG neutral terminal including riveting, soldering, saddles, making connection etc. as required.		
276	30mm x 5mm copper strip	4	Each
277	Supply and Installation of 30 x 2mm PVC sleeved copper tape down conductor duly fixed on DMC/SMC insulator with clamp nut bolt etc.	60	P Mtr
278	Supply and installation of copper test link joint connector in the IP 55 weather proof box including making connection etc complete.	1	Each
279	Supply Installation testing and commissioning of external lightening protection system based on proactive Early Streamer emission (ESE) technology. Device shall comply NFC 17-102 and UNE 21186 standards. The device shall be mounted at least 4-5 meters high clear to highest point on the roof top with proper mounting arrangement.		
280	ESE for radius 50 mtr for level 1 protection	1	Each
281	CABLING WORK		
282	P/Laying P.V.C. insulated & P.V.C. sheathed armoured cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I on cable tray, including cable termination, cable luges, cable gland, making connection, testing etc. as per specification, drawing & recommended make.		
283	4 core 16 sqmm	120	P Mtr
284	3.5 core 35 sqmm	120	P Mtr
285	3.5 core 120 sqmm	180	P Mtr
286	3.5 core 185 sqmm	600	P Mtr
287	3.5 core 240 sqmm	50	P Mtr
288	Supply & installation of cable identification plates duly secured to cables for identification suitable for cable sizes taken in the BOQ.	35	Each
289	Supply, installation, testing and commissioning of Sandwich type Aluminium bus bar trunking of following rating suitable for 415 Volts, 3 - phase, 4 wire, 50 HZ, IP 54 protection for Indoor installations, Dual Enclosure (1.6 mm thick AL + 1.6 mm Thick Electro Galvanized sheet steel) enclosure with protective finish of ANSI 49 grey epoxy paint, comprises of 4 nos. bus bars (3 for phase and 1 for neutral) fabricated from electrolytic aluminium grade 63401 WP as per IEC -61439 Part 1 & 6. Dupont Mylar material Insulation Class B (130 deg C).with Integral earth. All joints and Plug in contact area must have silver flashed copper.		
290	400 amps Straight Plugin Length 35 KA for 1 Sec	25	P Mtr
291	Flange End	1	Each
292	End Cover	1	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
293	Spring Hanger	25	Each
294	Edgewise Hanger	25	Each
295	90deg Elbow	4	Each
296	Copper Flexible (Braided)	1	Set
297	Adopter Box (Local Item)	1	Each
298	100-160 Amp 4P Tap off box without MCCB	4	Each
299	100 Amp, FP, 35 KA, MCCB, having Thermal Magnetic trip unit with adjustable overload , short circuit & earth fault protection	2	Each
300	160A FP, 35 KA, MCCB, having Thermal Magnetic trip unit with adjustable overload , short circuit & earth fault protection	2	Each
301	Supply and laying in ISI marked RCC hume pipe NP 3 as per IS - 458-1988 with collar etc including making trench & refilling the same after covering the pipe with cement concrete mixture complete in all respect as per specification.		
302	150 mm dia	100	P Mtr
303	200 mm dia	50	P Mtr
304	300 mm dia	32	P Mtr
305	Making of 900x900x900 mm masonry chamber made out from 225 mm thick brick wall & cement concrete plaster and covered with ferro cement cover complete in all respect.	2	Each
306	Making of 600x600x600 mm masonry chamber made out from 225 mm thick brick wall & cement concrete plaster and covered with ferro cement cover complete in all respect.	8	Each
307	Making of 300x300x300 mm masonry chamber made out from 225 mm thick brick wall & cement concrete plaster and covered with ferro cement cover complete in all respect.	2	Each
308	Supplying, handling, laying, testing and commissioning of the following sizes of 1.1 KV grade PVC insulated and sheathed copper conductor armoured stranded control cable complete with saddles, clamps etc. as required and as per specifications. (Cost shall be inclusive of supplying and making terminations using single compression brass glands & copper lugs).		
309	2C 2.5 sqmm	50	P Mtr
310	10C 2.5 sqmm	100	P Mtr
311	Fabricating & installing following sizes of perforated GI cable trays including horizontal and vertical bends, reducers tees,cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders and including painting		
312	150mm x 50mm x 1.6mm	40	P Mtr
313	300mm x 50mm x 2mm	80	P Mtr
314	450mm x 50mm x 2mm	20	P Mtr
315	MEDIUM VOLTAGE PANELS		
316	ISOLATOR PANEL		
317	Supply, installation, testing & commissioning of outdoor type cubicle type totally enclosed free standing type dust & vermin proof Main Panel made out of 2.0 mm thick and partition made out of 1.6 mm MS sheet steel, suitable for 3 phase , 4 wire , 415 V , 50 Hz , AC supply complete with incoming ACB / MCCB / SFU & outgoing MCB / MCCB / SFU , All the MCCB should be with Rotary handle, Four Pole Electrolytic grade Al busbar of required capacity, indication lamp etc complete as per drawing, The panel shall have provision for connection of incoming & outgoint LT cables as per SLD and as per enclosed specifications and recommended makes.	1	Each
318	INCOMING /OUTGOING FOR X'MER (500KVA)		

S.No.	Item Description	Quantity	Unit
1	2	3	4
319	800 Amp, FP, 50KA, MDO, ACB , having Microprocessor trip unit , Digital display with adjustable overload , short circuit , Instantaneous & earth fault protection - 1 no		
320	MAIN LT PANEL		
321	Supply, installation, testing & commissioning of cubicle type totally enclosed free standing type dust & vermin proof Main Panel made out of 2.0 mm thick and partition made out of 1.6 mm MS sheet steel, suitable for 3 phase , 4 wire , 415 V , 50 Hz , AC supply complete with incoming ACB / MCCB / SFU & outgoing MCB / MCCB / SFU , All the MCCB should be with <u>Rotary handle</u> , Four Pole Electrolytic grade Al busbar of required capacity, indication lamp etc complete as per drawing, enclosed specifications and recommended makes.	1	Each
322	INCOMING FOR ISOLATOR PANEL		
323	800 Amp, FP, 50KA, EDO,ACB ,having Microprocessor trip unit , Digital display with adjustable overload , short circuit , Instantaneous & earth fault protection. ACB trip unit with indication of fault LED indications (OL,SC,EF etc.) , in-built Zone selective interlocking , thermal memory , approx. % loading information ,4NO/NC auxiliary conacts ; min. current , voltage & energy parameters on display with last 5 trip history, with communication port upgradable to ethernet communication (either built-in or with external gateway for each breaker) for ready BMS/EMS connectivity.	1	Nos.
324	3P+N Type1 + Type2 SPD with inbuilt health indicator, response time < 25 ns, I _{max} 40 KA, Voltage Protection Level 1.5 KV, shall be used at the incomer side of the panel with 32 Amp FP C curve MCB	1	Nos.
325	INCOMING FOR DG-1 (250KVA)		
326	400 Amp, FP, 35 KA, MCCB, having elctronic trip unit with adjustable overload , short circuit , Instantaneous & earth fault protection. Trip unit with LCD display ; Zone Selective Interlocking; rms current measurement ; fault indication of overload, short circuit, instantaneous & earth fault indication ;fault & event history, Ready LED , Overload Prealarm and Overload LED; with communication port upgradable to ethernet communication for ready BMS/EMS connectivity	1	Nos.
327	400 Amp, FP, AC3 utilisation catagary power contactor, having 415 volt operating auxiliary coil fitted with suppressor & 2NO+2NC block	1	Nos.
328	INCOMING FOR DG-2 (250KVA)		
329	400 Amp, FP, 35 KA, MCCB, having elctronic trip unit with adjustable overload , short circuit , Instantaneous & earth fault protection. Trip unit with LCD display ; Zone Selective Interlocking; rms current measurement ; fault indication of overload, short circuit, instantaneous & earth fault indication ;fault & event history, Ready LED , Overload Prealarm and Overload LED; with communication port upgradable to ethernet communication for ready BMS/EMS connectivity.	1	Nos.
330	400 Amp, FP, AC3 utilisation catagary power contactor, having 415 volt operating auxiliary coil fitted with suppressor & 2NO+2NC block.	1	Nos.
331	BUSBAR		
332	1200 Amp, FP, Electrolytic grade Al busbar for main ACB / MCCB outing & feeders distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.	1	Nos.
333	600 Amp, FP, Electrolytic grade Al busbar for main ACB / MCCB outing & feeders distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.	1	Nos.
334	BUS COUPLER		
335	400 Amp, FP, 35 KA, MCCB, having Thermal magnetic trip unit with adjustable overload , short circuit & earth fault protection	1	Nos.
336	400 Amp, FP, AC3 utilisation catagary power contactor, having 415 volt operating	1	Nos.

S.No.	Item Description	Quantity	Unit
1	2	3	4
	auxiliary coil fitted with suppressor & 2NO+2NC block		
337	OUTGOING FOR X'MER & DG SECTION		
338	630 Amp, FP, 35KA, MCCB, having electronic release with adjustable short circuit and adjustable overload (0.5 to 1In) protection	1	Nos.
339	400 Amp, TP with neutral link, 35KA, MCCB having electronic release with adjustable short circuit and adjustable overload (0.5 to 1In) protection	1	Nos.
340	320 Amp, TP with neutral link, 35KA, MCCB having electronic release with adjustable short circuit and adjustable overload (0.5 to 1In) protection	1	Nos.
341	250 Amp, TP with neutral link, 25KA, MCCB having Thermal Magnetic release with short circuit and adjustable overload (0.7 to 1In) protection	2	Nos.
342	200 Amp, TP with neutral link, 25KA, MCCB having Thermal Magnetic release with short circuit and adjustable overload (0.7 to 1In) protection	2	Nos.
343	100 Amp, TP with neutral link, 25KA, MCCB having Thermal Magnetic release with short circuit and adjustable overload (0.7 to 1In) protection	2	Nos.
344	40 Amp, FP, 10KA, MCB	1	Nos.
345	63 Amp, FP, 10KA, MCB	1	Nos.
346	METERING SECTION FOR X'MER		
347	DIGITAL LCD Energy meter (64 samples/cycle) of rating with 3nos 800/5A class 0.5s as per IEC 62053, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD, Individual harmonics up to 15th level etc. parameters. Meter shall comply to IEC 61557-12 for Performance measuring and monitoring devices (PMD).The energy meter should have communication modbus RS 485 port & required hardware & software for communication, duly protected by 2A MCB	1	Nos.
348	LED type RYB indication lamp duly protected by 2A MCB	2	Nos.
349	PROTECTION SECTION FOR X'MER		
350	Under voltage & over voltage protection relay for protection	1	SET
351	METERING SECTION FOR DG -1 (250 KVA)		
352	DIGITAL LCD Energy meter (64 samples/cycle) of rating with 3nos 400/5A class 0.5s as per IEC 62053, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD, Individual harmonics up to 15th level etc. parameters. Meter shall comply to IEC 61557-12 for Performance measuring and monitoring devices (PMD).The energy meter should have communication modbus RS 485 port & required hardware & software for communication duly protected by 2A MCB	1	Nos.
353	LED type RYB indication lamp duly protected by 2A MCB	3	Nos.
354	PROTECTION SECTION FOR DG		
355	Under voltage & over voltage protection relay for protection	1	SET
356	Reverse power flow relay for protection	1	SET
357	METERING SECTION FOR DG -2 (250 KVA)		
358	DIGITAL LCD Energy meter (64 samples/cycle) of rating with 3nos 400/5A class 0.5s as per IEC 62053, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD, Individual harmonics up to 15th level etc. parameters. Meter shall comply to IEC 61557-12 for Performance measuring and monitoring devices (PMD).The energy meter should have communication modbus RS 485 port & required hardware & software for communication, duly protected by 2A MCB	1	Nos.
359	LED type RYB indication lamp duly protected by 2A MCB	3	Nos.
360	PROTECTION SECTION FOR DG		
361	Under voltage & over voltage protection relay for protection	1	SET

S.No.	Item Description	Quantity	Unit
1	2	3	4
362	Reverse power flow relay for protection	1	SET
363	APFC PANEL SECTION		
364	Capacitor Bank – 250KVAR (1-2-2-5-5-10-25-50-50-50-50)		
365	Capacitor steps:		
366	(a) First steps - 1 KVAR		
367	(b) Next two - 2 KVAR		
368	(c) Next two– 5 KVAR		
369	(d) Next one – 10 KVAR		
370	(e) Next one–25 KVAR		
371	(f) Next four– 50 KVAR		
372	BUSBAR		
373	900 Amp, TPN, Electrolytic grade Al busbar for main ACB incoming, outing & capacitor distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.		
374	SWITCHING		
375	3 P, 440 V capacitor switching contactor duty AC 6b of required rating with suitable rating MCB / MCCB as per SLD		
376	(a) 1 KVAR with 6 Amp D curve TP MCB		
377	(b) 2 KVAR with 10 Amp D curve TP MCB		
378	(c) 5 KVAR with 16 Amp D curve TP MCB		
379	(d) 10 KVAR with 32 Amp D curve TP MCB		
380	(e) 25 KVAR with 63Amp D TP MCB 16 KA		
381	(f) 50 KVAR with 125 Amp TP MCCB 16 KA		
382	12 stage Microprocessor based APFC relay of sensitivity less than 50 ma	1	Nos.
383	LED type ON indication lamp	12	Nos.
384	Ventilation Fans with thermostat & On/Off selector switch	2	Nos.
385	Auto /Manual /off Selector Switch (3 position)	12	Nos.
386	The CT sensing of the APFC relay shall be from the incomer side of contacotr (JVNL supply).		
387	All control wiring from Bus bar to MCB, capacitor duty Contactor & Capacitor bank will be of required Ratings PVC insulated flexible copper wire.		
388	SYNCHRONISATION SECTION		
389	SYNCHRONISATION cum AMF panel should be capable for one external source and 2 nos DG sets.		
390	Suitable PLC relay for SYNCHRONISATION cum AMF operation of two DG sets and one external source		
391	Digital I/P module		
392	Digital O/P module		
393	Suitable slot I/O rack with power supply		
394	Analouge I/P module		
395	KW tranducer		
396	EEPROM memory module		
397	Phase angle tranducer		
398	Operator interface 3" diagonal with key pad		
399	Communication cable from Operator interface to PLC		
400	Hooter for varios status annunciation		
401	All the software required for proper operation		
402	1/2 KVA online UPS with half an hour battery (SMF) back up for start operation		
403	1st & 2nd FLOOR PANEL		

S.No.	Item Description	Quantity	Unit
1	2	3	4
404	Supply, installation, testing & commissioning of cubicle type totally enclosed free standing dust & vermin proof L T metering panel made out of 2.0 mm thick and partition made out of 1.6 mm MS sheet steel, suitable for 3 phase , 4 wire , 415 V , 50 Hz , AC supply complete with incoming ACB/MCCB & outgoing MCB/ MCCB, All the MCCB should be with Rotary handle, Dual source electronic energy meter, Electrolytic grade Al busbar of required capacity, indication lamp etc complete as per drawing & enclosed specifications recommended makes.	2	Each
405	INCOMER		
406	100Amp, FP,25 KA, MCCB having Thermal Magnetic release with short circuit and adjustable overload (0.7 to 1In) protection	1	Nos.
407	3P+N Type2 SPD with inbuilt health indicator, response time < 25 ns, I _{max} (8/20 μs) 8 KA, Voltage Protection Level 1.2 KV, shall be used at the incomer side of the panel with 32 Amp FP C curve MCB	1	Nos.
408	BUSBAR		
409	150 Amp, FP, Electrolytic grade Al busbar for main MCB outing & feeders distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.		
410	OUTGOING		
411	40 Amp, FP, 10KA, MCB	2	Nos.
412	63 Amp, FP, 10KA, MCB	2	Nos.
413	FOR SPARE		
414	63 Amp, FP, 10KA, MCB	1	Nos.
415	40 Amp, FP, 10KA, MCB	1	Nos.
416	METERING SECTION		
417	DIGITAL LED Energy meter (32 samples/cycle) of rating with 3nos 100/5A class 1 as per IEC 62053-21, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD parameters. The energy meter should have communication modbus RS 485 port & required hardware & software for communication, duly protected by 2A MCB	1	Nos.
418	LED type RYB indication lamp duly protected by 2A MCB	3	Nos.
419	AC VRF PANEL AT TERRACE FLOOR		
420	Supply, installation, testing & commissioning of outdoor cubicle type totally enclosed free standing dust & vermin proof L T metering panel made out of 2.0 mm thick and partition made out of 1.6 mm MS sheet steel, suitable for 3 phase , 4 wire , 415 V , 50 Hz , AC supply complete with incoming ACB/MCCB & outgoing MCB/ MCCB, All the MCCB should be with Rotary handle, Dual source electronic energy meter, Electrolytic grade Al busbar of required capacity, indication lamp etc complete as per drawing & enclosed specifications recommended makes.	1	Each
421	INCOMER		
422	320Amp, FP,25 KA, MCCB having Thermal Magnetic release with adjustable overload (0.7 to 1In), & short circuit protection	1	Nos.
423	3P+N Type2 SPD with inbuilt health indicator, response time < 25 ns, I _{max} (8/20 μs) 8 KA, Voltage Protection Level 1.2 KV, shall be used at the incomer side of the panel with 32 Amp FP C curve MCB	1	Nos.
424	BUSBAR		
425	450 Amp, FP, Electrolytic grade Al busbar for main MCB outing & feeders distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.		
426	OUTGOING		
427	63 Amp. FP MCB, 10 kA, with 63 Amp FP 300 ma RCCB	6	Nos.

S.No.	Item Description	Quantity	Unit
1	2	3	4
428	40 Amp. FP MCB, 10 kA, with 63 Amp FP 300 ma RCCB	4	Nos.
429	FOR SPARE		
430	63 Amp. FP MCB, 10 kA, with 63 Amp FP 300 ma RCCB	1	Nos.
431	40 Amp. FP MCB, 10 kA, with 63 Amp FP 300 ma RCCB	1	Nos.
432	METERING SECTION		
433	DIGITAL LED Energy meter (32 samples/cycle) of rating with 3nos 300/5A class 1 as per IEC 62053-21, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD parameters. The energy meter should have communication modbus RS 485 port & required hardware & software for communication, duly protected by 2A MCB	1	Nos.
434	LED type RYB indication lamp duly protected by 2A MCB	1	Nos.
435	FIRE FIGHTING PANEL		
436	Supply, installation, testing & commissioning of cubicle type totally enclosed free standing dust & vermin proof Fire Fighting panel made out of 2.0 mm thick and partition made out of 1.6 mm MS sheet steel, suitable for 3 phase , 4 wire , 415 V , 50 Hz , AC supply complete with incoming MCCB & outgoing MCB/ MCCB, All the MCCB should be with Rotary handle, DOL Starter, Electrolytic grade Al busbar of required capacity, indication lamp etc complete as per drawing & enclosed specifications recommended makes.	1	Each
437	INCOMER		
438	250Amp, FP,25 KA, MCCB having Thermal Magnetic release with adjustable short circuit and overload protection	1	Nos.
439	BUSBAR		
440	400 Amp, FP, Electrolytic grade Al busbar for main MCB outing & feeders distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.		
441	OUTGOING		
442	200 Amp, TP, 25 KA, MCCB with neutral link, having Thermal Magnetic release with adjustable overload , & short circuit protection, Automatic DOL Starters complete (with over load relay and single phasing preventor feature). ON/OFF TRIP, indication lamp, contactors etc. suitable for 35 KW motor (main electric pump)	1	Nos.
443	63 Amp, FP, C curve, MCB, DOL Starter (with over load and single phase preventor feature). ON/OFF & TRIP, indication lamp, contactors etc. suitable for 7.5 KW motor (1 No. Jockey Pump)	1	Nos.
444	63 Amp, FP, 10 KA, C curve, MCB	1	Nos.
445	METERING SECTION		
446	DIGITAL LED Energy meter (32 samples/cycle) of rating with 3nos 250/5A class 1 as per IEC 62053-21, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD parameters. The energy meter should have communication modbus RS 485 port & required hardware & software for communication, duly protected by 2A MCB	1	Nos.
447	DIGITAL type Ammeter of rating with suitable rating current transformer as per SLD duly protected by 2A MCB for outgoint feeder	2	SET
448	LED type RYB indication lamp (Red/ Green/ Amber) for On/Off/ trip indication duly protected by 2A MCB	2	SET
449	EXTERNAL LIGHT PANEL		
450	Supply, installation, testing & commissioning of outdoor cubicle type totally enclosed free standing double door type dust & vermin proof Kiosk Panel for outdoor application made out of 2.0 mm thick and partition made out of 1.6 mm MS sheet steel, suitable for 3 phase , 4 wire , 415 V , 50 Hz , AC supply complete with incoming	1	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
	ACB / MCCB / SFU & outgoing MCB / MCCB / SFU , All the MCCB should be with Rotary handle, Four Pole Electrolytic grade Al busbar of required capacity, indication lamp etc complete as per drawing, enclosed specifications and recommended makes.		
451	INCOMER		
452	63Amp, FP, C curve, 10 KA BC MCB	1	Nos.
453	BUSBAR		
454	100 Amp, FP, Electrolytic grade Al busbar for main MCB outing & feeders distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.		
455	OUTGOING		
456	25Amp, FP, C curve, 10 KA BC MCB	1	Nos.
457	25Amp, FP, AC1 utilisation catagary power contactor, having 415 volt operating auxiliary coil fitted with suppressor & 2NO+2NC block	1	Nos.
458	40Amp,FP, C curve, 10 KA BC MCB	2	Nos.
459	6Amp, SP, C curve, 10 KA BC MCB	11	Nos.
460	Digital Time Switch with 2 Amp MCB for time switch bypass Arrangement	1	Nos.
461	All the accessories should be mounted on 6 mm thick bakelite sheet	1	SET
462	METERING SECTION FOR INCOMER		
463	DIGITAL LED Energy meter (32 samples/cycle) of rating with 3nos 50/5A class 1 as per IEC 62053-21, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD parameters. The energy meter should have communication modbus RS 485 port & required hardware & software for communication, duly protected by 2A MCB	1	Nos.
464	LED type RYB indication lamp duly protected by 2A MCB	3	Nos.
465	UPS PANEL		
466	Supply, installation, testing & commissioning of cubicle type totally enclosed free standing dust & vermin proof Fire Fighting panel made out of 2.0 mm thick and partition made out of 1.6 mm MS sheet steel, suitable for 3 phase , 4 wire , 415 V , 50 Hz , AC supply complete with incoming MCCB & outgoing MCB/ MCCB, All the MCCB should be with Rotary handle, DOL Starter, Electrolytic grade Al busbar of required capacity, indication lamp etc complete as per drawing & enclosed specifications recommended makes.	1	Each
467	INCOMER		
468	200Amp, FP, 25 KA, MCCB having Thermal Magnetic release with short circuit and adjustable overload protection	1	Nos.
469	3P+N Type2 SPD with inbuilt health indicator, response time < 25 ns, I _{max} (8/20 μs) 8 KA, Voltage Protection Level 1.2 KV, shall be used at the incomer side of the panel with 32 Amp FP C curve MCB	1	Nos.
470	BUSBAR		
471	300 Amp, FP, Electrolytic grade Al busbar for main MCB outing & feeders distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.		
472	200 Amp, FP, Electrolytic grade Al busbar for main MCB outing & feeders distribution, The Bus Bar section should be covered with withdrawable Acrylic sheet for protection.		
473	OUTGOING		
474	160 Amp, FP, 16 KA, MCCB, having Thermal Magnetic release with short circuit and adjustable overload protection	2	Nos.
475	100 Amp, FP, 16 KA, MCCB, having Thermal Magnetic release with adjustable overload , & short circuit protection	1	Nos.

S.No.	Item Description	Quantity	Unit
1	2	3	4
476	UPS CONNECTION		
477	THE PANEL SHALL HAVE PROVISION FOR UPS INCOMING FOR 2NOS 60 KVA UPS & OUTGOING CONNECTION FROM COMMON BUSBAR OF THE PARALLEL CONNECTED UPS.		
478	OUTGOING		
479	125 Amp, FP, 16 KA, MCCB, having Thermal Magnetic release with short curcuit and adjustable overload protection	1	Nos.
480	40Amp, FP, C curve, 10 KA BC MCB	9	Nos.
481	32Amp, FP, C curve, 10 KA BC MCB	2	Nos.
482	METERING SECTION		
483	DIGITAL LED Energy meter (32 samples/cycle) of rating with 3nos 200/5A class 1 as per IEC 62053-21, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD parameters. The energy meter should have communication modbus RS 485 port & required hardware & software for communication, duly protected by 2A MCBB	1	Nos.
484	DIGITAL LED Energy meter (32 samples/cycle) of rating with 3nos 100/5A class 1 as per IEC 62053-21, CTs as per SLD, The Digital meter shall measure V /I /F /PF /KW / KVA /KVAR / KWH / KVAH / KVARH / MD / %THD parameters. The energy meter should have communication modbus RS 485 port & required hardware & software for communication, duly protected by 2A MCB	1	Nos.
485	LED type RYB indication lamp (Red/ Green/ Amber) for On/Off/ trip indication duly protected by 2A MCB	2	SET
486	TRANSFORMER WORK		
487	Supply, Installation,Testing and Commissioning of 500 KVA copper wound Energy efficient Level 2 as per IS 1180, 11/0.433 KV, 50 C/S, ONAN Delta-star connected, Dyn11 vector group transformer, with OLTC, RTCC, AVR including making of the x'mer plateform and placement of x'mer on the plateform, making HT / LT connection, neutral & body earth connection, control cable connection from OLTC to RTCC, & control cable from marshalling box to HT breaker etc. The losses shall be 1.510 KW at 50% load and 4.3 KW at 100% load. Inpedance of the x'mer shall be 4.5%. The tempreture rise shall be 45°C for x'mer winding & 40°C for x'mer oil. The OLTC shall have tap changing from +5% to -15% in the step of 1.25%.	1	Each
488	HT BREAKER WORK		
489	S & F of Electrical insulating rubber matts confirming to IS: 15652 / 2006 with one side anti skid abberation marks and pasting the mat with synthetic rubber adhesive as required.		
490	3.3 KV, 2 mm thick with proof voltage 10 KV / 3 min. and Break Down Voltage 30 KV	6	Sqm.
491	HT CABLE & ACCESSORIES WORK		
492	Supply, Installation, testing & commissioning of 11 KV grade Earthed Aluminium conductor, XLPE insulated armoured confirming to IS:7098 part II in trenches of size 30 cm X 100 cm as per IS:1255, in cable trays, in protective GI pipes, on pole, on structures, in coloumns,in conduits, in panels etc including all required materials such as fixing clamps, screws, cable straps, number tags etc as required. including labour atc as per specification, drawings and directions of Engineer-In-charge. Contractor should varify the length of the cable before procuring the material.		
493	3 core 185 sqmm armoured earthed	50	P Mtr
494	Supply, Installation, testing & commissioning of End termination for 11KV, 3 core Al conductor XLPE insulated armoured cable with heat shrink termination kit including cutting, stripping of cable insulation supplying and providing the required cable end lugs, termination and other kit accessories, cable supporting clamps, straps etc		

S.No.	Item Description	Quantity	Unit
1	2	3	4
	including earthing of armouring etc, complete in all respect including consumables tools / equipments and labour as per specification		
495	Indoor end terminal for		
496	3 C 185 sq mm	2	Each
497	DG SET & ACCESSORIES		
498	SITC of Silent DG Set (As per CPCB norms) complete with 1500 RPM Diesel Engine of suitable BHP & AC Brush less SPDP Alternator mounted on a common base Frame & coupled through a flexible coupling or close coupled. Alternator shall be self regulated with standard Alternator Protection(Over voltage , over speed & under voltage, under speed warning & shutdown). Engine shall have residential silencer, up to 3 M exhaust piping , electronic / Mechanical governor, Manual & electric Start ,Batteries, Engine instruments panel, AVM and with Weatherproof, powder coated Accoustic enclosure for DG set for sound attenuation fabricated from 1.6 mmCRCA sheet steel (structure) with side wall fabricated from 1.6 mm CRCA sheet & filled with 100mm thick glass wool(96Kg/m3)/Foam. as per IS 8183 the doors of 100 mm thick and fabricated from 1.6mm CRCA sheet packed with accoustic material, canopy fixed with axial flow fan , All doors/ opening are sealed with neoprene/EPDN gaskets. The enclosure has built in fuel tank, residential silencer (isolated from main DG chamber) with protection and tripping of DG set	1	Each
499	Radiator Cooled & Turbo Charged /AC		
500	250 KVA at 0.8 pf 415V 50Hz 3- ϕ	1	Each
501	Supply,Installation, testing and commissioning of exhaust piping of following sizes with class B MS pipes of 5mm thick with welding joint including bends, MS pipe supports, clamps, dash fastener, nuts, bolts etc., thermal insulation with 50 mm thick layers of LRB rock wool (64 kg/m³ density) 26 SWG aluminium sheet claddings etc. complete as required and as per specifications. (The exhaust piping system shall include supply, erection, testing and commissioning of blower fan of suitable rating, associated cabling and starter panel etc. below the exhaust pipe shaft for ventilation of the shaft, if required, to ensure that the surface temperature of the exhaust pipes shall not exceed 50°C, The vendor shall get back pressure calculation from the OEM, suitable no of expansion bellows as per OEM standard shall be included in the piping cost).		
502	150 mm dia. NB	35	P Mtr
503	Supply,Installation, testing and commissioning of MS Structure to support the DG exhaust pipe of suitable strngth to bear the load of the structure and the exhaust pipe, complete in every respect with one coat of primer and two coats of black enamel of good company	1000	Kg.
504	SANITARY FIXTURE & FITTINGS		
505	P & F European type white glazed vitreous china 1 st quality W.C pan (IS : 2556 Mark) with P or S trap including cutting and making good the wall and floor	12	Each
506	P & F water closet Seat Covers with brass hinges complete :		
507	Solid PVC (IS 2548 marked) grade-I Black for EWC.	12	Each
508	P & F C.P. lugs for toilet seat cover.	12	Pair
509	P & F Low level Flushing Cistern of 10 litres capacity (IS : 2556mark). Of approved make with complete fittings C.I. brackets duly painted, brass ball cock with ball, (IS: 1703 mark) complete including cutting and making good the wall:		
510	PVC with PVC bend as per IS : 7231 .	12	Each
511	P & F Ist quality WVC Urinal (IS:2556 mark) with 25mm dia G.I. waste pipe, dome waste couplings, concealed iron brackets or screws etc complete.		
512	Flat Back (large) or half stall size 610x400x80mm.	12	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
513	P & F W.V.C. Urinal Partition Plate of approved standard make of size 630x315mm including making good the wall.	9	Each
514	P & F C.P. brass Urinal Flush Pipe set complete with flanged brackets of Preferred make.		
515	For 2 Urinals	6	Each
516	P & F WVC wash basin (1st quality, I.S. : 2556 Mark) of approved make with C.I. brackets duly painted, 1 No. 15 mm C.P. Pillar cock (IS : 8934 Mark) & 32 mm C.P. brass waste coupling of approved make, 25 mm G.I. waste pipe complete including cutting & making good the wall.:		
517	Size 510 mm x 400 mm	12	Each
518	P & F Bottle Trap of approved make :		
519	C.P Brass 32 mm	12	Each
520	C.P Brass 40 mm	12	Each
521	P & F Toilet Paper Holder with rod of approved quality/make:		
522	C.P. brass heavy & Superior quality.	12	Each
523	P & F Twin- peg of approved quality / make		
524	C.P. brass (heavy)Superior quality	12	Each
525	P & F Extension Pipe for bib cocks of approved quality/make.		
526	C.P. brass of Heavy & Superior quality 50x15mm	12	Each
527	P & F C.P. Health Faucet with 1Mtr. Long Tube & Hook of approved make and heavy as per direction of Enginner-in-Charge	12	Each
528	P & F Bib Cock (IS : 8931 Mark), Superior quality of approved make:		
529	Brass 400 gm,15mm nominal bore.	12	Each
530	P & F Inlet Connection (Angle Valves) Superior quality, of approved make, for Wash basin, Gyser etc.		
531	C.P. Inlet connection 15mm.Brass (IS : 8931 marked)	27	Each
532	P & F 15 mm. Dia Connection Pipe of approved quality/make :		
533	PVC pipe with C.P. Brass nuts upto length, 450mm.	27	Each
534	P & F Flush Cock / Flush Valve (IS : 9758 Mark) for WC of approved quality make :		
535	CP brass push type 20 mm nominal bore.	12	Each
536	Providing, Fixing battery based sensor for urinal complete set with all required fittings complete in all respect.	12	Each
537	WATER SUPPLY INSTALLATION		
538	P & F G.I. pipes (Internal Work) with G.I. Fittings excluding union (IS:1239 Mark) & MS clamps including cutting and making good the walls and floors:		
539	Exposed on wall		
540	20mm dia nominal bore		
541	'B' Class	3	Mtr.
542	25mm dia nominal bore		
543	'B' Class	5	Mtr.
544	32mm dia nominal bore		
545	B' Class	12	Mtr.
546	50mm dia nominal bore		
547	B' Class	35	Mtr.
548	65mm dia nominal bore		
549	B' Class	3	Mtr.
550	P & F G.I. Pipes (External Work) with G.I. fittings excluding union (IS : 1239 Mark)		

S.No.	Item Description	Quantity	Unit
1	2	3	4
	including trenching & refilling earth etc.		
551	25mm dia nominal bore		
552	'B' Class	100	Mtr.
553	32mm dia nominal bore		
554	'B' Class	20	Mtr.
555	65mm dia nominal bore		
556	'B' Class	50	Mtr.
557	Making connection of G.I. distribution branch with G.I. main including all fitting.		
558	Beyond 25mm & upto 100mm dia	1	Each
559	Fixing water meter (IS: 779 mark) and stop cock in G.I. pipe line including making chamber of approved size excluding cost of water meter & stop cock.	1	Each
560	P & F water meter (IS : 779 mark) of approved make.		
561	25 mm dia	1	Each
562	P & F foot valve of superior quality and approved make with fittings :		
563	Brass 25 mm.	1	Each
564	Supply & fixing G.I. Union ISI marked in G.I. pipe line as required complete in all respect of size :		
565	20mm dia nominal bore	7	Each
566	32mm dia nominal bore	6	Each
567	40mm dia nominal bore	6	Each
568	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. (Concealed work including cutting chases and making good the walls etc.,)		
569	15 mm nominal outer dia pipes	55	RMT
570	20mm nominal outer dia pipes	12	RMT
571	25 mm nominal outer dia pipes	20	RMT
572	32mm nominal outer dia pipes	3	RMT
573	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings, this included jointing of pipes & fittings with one step CPVC solvent cement , trenching refilling & testing of joints complete as per direction of Engineer in Charge. (External work).		
574	40 mm nominal outer dia pipes	3	RMT
575	P & F Ball Cock (IS :1703 Mark) with Rod & P.V.C. Ball complete :		
576	Brass wt.750 gm, 20mm.	0	Each
577	Brass wt.1000 gm, 25mm.	0	Each
578	Brass wt.1000 gm, 32mm.	1	Each
579	Brass wt.1200 gm 40mm.:	0	Each
580	P & F Full-way Valve (IS:778 Mark) or wheel valve of approved make :		
581	Gun-metal 65mm nominal bore.	1	Each
582	INTERNAL DRAINAGE INSTALLATIONS		
583	Providing and Fixing Unplasticized Poly Vinyl Chloride (UPVC) SWR Pipes Type B for sciland waste discharge system (IS:13592 : 1992 Marked) of approved quality /make		
584	110 mm dia	120	Mtr.
585	Providing and Fixing Unplasticized Poly Vinyl Chloride (UPVC) SWR Pipes fittings type		

S.No.	Item Description	Quantity	Unit
1	2	3	4
	B for sciland waste discharge system (IS:13592 : 1992 Marked) of approved quality /make		
586	Single Push Fit Coupler		
587	110mm dia	200	Each
588	Bend 87.5 Dg.		
589	110mm dia	3	Each
590	Bend 45 Dg.		
591	110mm dia	9	Each
592	Single 'Y'		
593	110mm dia	21	Each
594	Single 'Y' with Door		
595	110mm dia	12	Each
596	Double 'Y'		
597	110mm dia	0	Each
598	Pipe Clip		
599	110mm dia	40	Each
600	Vent Cowel		
601	110mm dia	4	Each
602	P- Trap		
603	110mm dia	18	Each
604	P & F Grating of approved quality/make:		
605	Stainless Steel Sheet size 125mm dia.	18	Each
606	Providing, fixing & testing uPVC pipes, conforming to IS 4985 class 3 (6 kg/cm²) including injection moulded fittings, jointing with solvent cement, cutting and making good the floors and walls and jointing to trap/waste pipe, complete of outer dia.		
607	40mm Dia OD	35	Mtr.
608	Providing & fixing PVC floor clean out plug with suitable insert keys for opening in: brass cap, male threaded joint with threaded uPVC socket fixed to uPVC pipe joints as required complete in all respects.		
609	110 mm dia.	10	Each
610	P&F rigid PVC Pipe (IS:4985 mark) class II/ (4 Kg. /Cm².) approved quality /make including joining the pipe with solvent cement rubber ring and lubricant.		
611	110 mm dia	220	Mtr.
612	P&F rigid PVC pipe fittings (IS: 4985 mark) of approved quality /make including joining the pipe with solvent cement rubber ring and lubricant:		
613	Coupler (socket)		
614	110mm dia	12	Each
615	Plain Tee		
616	110mm dia	12	Each
617	Door 'Y'		
618	110mm dia	12	Each
619	Bend 87 .5		
620	110mm dia	12	Each
621	Vent Cowel		
622	110mm dia	12	Each
623	Pipe Clip		
624	110mm dia	140	Each
625	P & F Grating of approved quality/make:		

S.No.	Item Description	Quantity	Unit
1	2	3	4
626	Stainless Steel Sheet size 125mm dia.	12	Each
627	EXTERNAL DRAINAGE / DISPOSAL WORK		
628	Excavating trenches of required width for pipe cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and disposal of surplus excavated soil as directed within a lead of 50 Mtr.: All kinds of soil		
629	Pipes cables, etc. exceeding 80mm dia but not exceeding 300mm dia.	375	Mtr.
630	Providing Laying & jointing glazed S.W. pipes grade `A` (IS;651 marked) of approved make with spun yarn & stiff mixture of cement mortar 1:1, excavation & refilling of earth in all types of soil upto 1.2m depth, S.W. fittings, including testing of joints etc, complete.		
631	150mm dia	5	Mtr.
632	250mm dia	125	Mtr.
633	Providing & Laying C.C. 1:5:10 (Stone aggregate 40mm nominal size) all around S.W. pipe including 15 Cm. thick bed concrete (Width W= Diameter of pipe in Cm+30 Cm.)(Excluding cost of pipe)		
634	250mm dia S.W. pipe	125	Mtr.
635	P & F Square-mouth gully trap `A` grade (IS 651-1992 :marked) of approved make complete with C.I. grating, frame & Cover masonry chamber in C.M. 1:6, 100mm thick C.C. 1:5:10 base concrete, 40mm thick C.C.M-15 grade coping, 12mm thick cement plaster in CM 1:3 complete as per approved design & type.		
636	Trap size 150 X 100mm, ferrow cement cover with frame, Internal Chamber size 300 X 300mm.	2	Each
637	R.C.C. NON PRESSURE PIPES		
638	Providing, Laying & Jointing R.C.C. class NP-2 Non-Pressure pipes (IS : 458mark) of approved make with collars, jointed with C.M. 1:2 or having Spigot and socket ends with flexible rubber rings joint including testing of joints etc. complete :		
639	250mm dia Internal	250	Mtr.
640	Deduct 20 % for Non ISI marked pipes of all size		
641	Providing & Laying C.C. 1:5:10 (Stone aggregate 40mm nominal size) upto haunches of S.W. pipes including 150 mm thick bed concrete (Width W= Dia of pipe in Cm+ 30Cm.) concrete width to be reduced from width W at center of pipe to `0` at top of pipe. (Excluding cost of pipe)		
642	250mm dia S.W. pipe	250	Mtr.
643	Construction of manhole in all type of soil inner size 90 X 60 Cm. 300 mm thick masonry in CM 1:6, 10 Cm. thick cement concrete 1:5:10 in foundation, 20 mm thick inside plaster in CM 1:6, finished with floating neat cement, 50mm thick M-15 grade C.C. flooring, making channels, 80mm thick stone slab covering with 40mm thick M-15 grade C.C. flooring, Cement cover with frame of 450mm dia, earthwork etc. complete as per design including disposal of surplus earth within 50 mtr. lead.		
644	Depth up to 0.5 M	3	Each
645	Add extra over item 3.21.1 for every additional 0.10m depth above 0.5 m depth.	1	Each
646	Construction of chamber in all type of soil with 300 mm thick masonry in CM 1:6 m,10 cm thick C.C. 1:5:10 in foundation, 20mm thick insider plaster in Cm 1:6, finished with floating neat cement, 50mm thick M-15 grade C.C. flooring , earthwork etc. complete as per design including disposal of surplus earth within a lead of 50 mtr.		

S.No.	Item Description	Quantity	Unit
1	2	3	4
647	Inside size 600 X 450 mm depth upto 1.0 M Cement cover with frame.	10	Each
648	RAIN WATER HARVESTING		
649	Earth work in excavation by mechanical means (Hydraulic Excavator) manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sum on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including taking out the excavated soil and depositing and refilling of jhiri with watering & ramming and disposal of surplus excavated soil as directed with in a lead of 50 meter. All kinds of soils	149	Cum.
650	Providing and laying in position cement concrete including curing, compaction etc. complete in specified grade excluding the cost of centering and shuttering - All work up to plinth level.		
651	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	1	Cum.
652	Brick masonry with F.P.S. bricks of class designation 75 in foundation and plinth with bricks		
653	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	18	Cum.
654	Providing and laying in position specified grade of cement concrete for all RCC structural elements upto plinth level including curing, compaction, finishing with rendering in cement sand mortar 1:3 (1 cement: 3 coarse sand) and making good the joints and cost of plastizers(if required) excluding the cost of centering, shuttering and reinforcement. M20 grade Nominal Mix / Design Mix	3	Cum.
655	Providing and fabricating reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding (including cost of binding wire) all complete up to floor five level.		
656	Cold twisted deformed bars (IS : 1786).	201	Kg.
657	Plaster on new surface on wall in cement sand mortar 1:3 including racking of joints etc. complete fine finish :		
658	12mm thick	231	Sqm.
659	Construction of tubewell up to 100m depth and above to accomodate housing and assembly pipe in all types of alluvium strata by rotay drilling method with "code of practice for construction and testing of tubewells (IS:2800 (Part-II) : 1991 and IS:2800 (Part-II) :1979 both amended up to date) with supply of bail plug if necessary.The work will not include cost of housing pipe and strainer pipe assembly cost, gravel and development work. Work would be deemed completed only after obtaining sound free water during pumping.		
660	200 mm nominal bore	150	RMT
661	Construction of Recharge Shaft in filter pit including Earth work Excavation , lifting excavated earth with all lift and 50 m lead and centering & shuttering evenever required.		
662	Diameter 750 mm	30	RMT
663	Supply & fixing Pre-cast RCC Rinngs at the mouth of recharge shaft of M20 mix with 40 mm thickness		
664	Diameter 750 mm	4	RMT
665	Supply & lowering air line of 25mm dia, G.I. pipe 'B' class having perforation 3 to 5mm size all arrow of G.I. pipe in Zig-Zag fashion & making air vent at top including the cost of Tee-Nipples, Elbow, Socket etc.	30	RMT
666	Supply and lowering vent air pipe 63mm dia rigid PVC pipe(IS 4985) mark class II (4kg per cm2) with required all necessary fittings including perforation of 3 to 5 mm size all around the pipe at a distance of 180 to 220mm in zig zag fashion and making air vent at top complete as per direction of Engineer incharge.	30	RMT

S.No.	Item Description	Quantity	Unit
1	2	3	4
667	Supply & lying River-gravels of following sizes in recharge shaft, filter pit after screening & washing from kachha shift without deduction of voids		
668	Size 9 to 12 mm	4	Cum.
669	Size 3 to 5 mm	4	Cum.
670	Supply & laying of clean, clear sharp river sand of size 1 to 2mm coarse, without deduction of voids.	4	Cum.
671	P & F PVC Storage Tank ISI Marked (IS : 12701) indicating the BIS license No), of approved make with cover, 25mm dia 1M long G.I. over-flow pipe & 25 Cm. long wash out pipe with plug & socket, including making connection etc., complete of approved design:		
672	5000 litres capacity	4	Each
673	Hoisting Charges for each floor :		
674	For items 2.26.5 to 2.26.8	1	Each
675	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :		
676	25MM Nominal Bore	1	Each
677	Vertical/horizontal monoblock centrifugal transfer pumping set with SS body and SS impeller, SS shaft mechanical seal, connected to a TEFC induction motor suitable for 415 volts \pm 3% phase 50 cycles AC supply with a common suction header with valves on main connecting & pumps inlet and a common delivery header with valves, includingt water shock absorber, non return valves with MS galvanized supports and painting with one coat of primer and two coats of synthetic enamel paint including a 100mm dia pressure gauge, Vibration eliminating pads under foundation, all mounted on a common base plate of MS 80x40mm I section bolted to RCC foundation, including control panel complete in all respects.		
678	Filter Feed Pump		
679	Capacity:30 lpm		
680	Head: 30 Mtrs		
681	Quantity: (1W+ 1S)	1	Set
682	water Trasfer Pump		
683	Capacity:125 lpm		
684	Head: 40 Mtrs		
685	Location: UGT for overhead tank filling		
686	Quantity: (1W+ 1S)	1	Set
687	Drainage Sump Pumps		
688	Submersible pumps for basement drainage & Pump Room drainage.		
689	Submersible single stage single entry pumps with C.I.body and C.I. two vane enclosed type impeller connected to TEFC submersible motor for 415 volts, 3 phase, 50 cycles including MCC panel with level controllers, auto control, sequential change over facility with one proper working at low level & two proper working at high level with an audible alarm including all interconnectivity cables, with both pumps connected to common outlet header including valves, non return valves, lifting chains etc. complete in all respect		
690	(one working + one standby/both working in high flow conditions		
691	For Pump room drainage		
692	(Solid handling capacity 10 mm)		
693	Capacity- 250 lpm (Each)		
694	Head - 15 m	1	Set
695	Dual Media Filter		

S.No.	Item Description	Quantity	Unit
1	2	3	4
696	Vertical FRP Dual Media Filter tested to 5.0 Kg/sqcm consisting of intial charge of media consisting (300mm bed depth of anthracite, filtering sand and support media), with frontals and manual multiport valve of 40 NB .		
697	Each Filter capacity		
698	Discharge : 1800 lph		
699	Filtration Rate : 4500 lit./m ² /hr		
700	Suggested dimensions : Diameter 400 mm	1	Set
701	Supply Installation, Testing and commisioning 5/6mm thick FRP Bio digester of cap 6000 Ltrs and 4000 Litrs Reed Bed including harmonize plants with 30% DRDO developed / approved anarobic moleculer anaculum (AMI) including storage tank of 5000 Litrs and 100 Lpm @ 30m Head Pump for irrigation system complete in all respect.	1	Set
702	VARIABLE REFRIGERANT FLOW (VRV/VRF) SYSTEM.		
703	The prices including all duties or local taxes on all equipments are to be quoted in the below mentioned form & shall include the supply, installation, testing & commissioning at site of all the equipments, ancillary materials as specified and all such items what so ever required to fulfill the intent and purpose as laid down in the specifications and / or drawings.		
704	Imported Variable Refrigerant Flow Air-conditioning System		
705	Supply, Installation, testing & commissioning of Variable Refrigerant Flow modular type airconditioning system Inverter Controlled with stepless modulation complete with indoor & outdoor units, individual remote controller and centralized controller, interconnected refrigerant piping , full charge of refrigerant gas & oil, control cabling etc. as per detail given in specifications and having following items: (The prices to be given in Indian rupees on Full Import duty basis) Refrigerant to be used shall be - R - 410 A.		
706	Supply, Installation, Testing and Commissioning of Modular type Outdoor unit equipped with highly efficient scroll compressors with all inverter type compressors special heat exchanger, low noise condenser fan , auto check function for connection error, auto address setting with double coat MS base frame (as per reccomendation from manufacturar) with sandwitch type vibration isolator rubber pads and capacity as mentioned below. Price shall be inclusive of first fill of regregerant , Lifting & placing of outdoor units at the locations as per drawing Makes: Daikin / Trane / OGeneral / Mitshubishi Electric.		
707	For First Floor :-		
708	38 HP Heat Pump Type (Cooling & Heating)	1	Nos.
709	40 HP Heat Pump Type (Cooling & Heating)	1	Nos.
710	For Second Floor :-		
711	26 HP Heat Pump Type (Cooling & Heating)	1	Nos.
712	34 HP Heat Pump Type (Cooling & Heating)	1	Nos.
713	Existing ODU Units (Make-OG)		
714	Reinstalltion & Recommisiioning of exitisting ODU units which includes Nitrogen pressure test, Vaccumisation, Refrigerant Charges 410A, etc.	1	Lot
715	Supply, Installation, Testing and Commissioning of Indoor units WITH self diagnostic type remote controllers Corded Type address setting and capacity as mentioned below. multispeed motor, coil section with DX coil, outer cabinet, drain pan, drain pump, drain water lift-up mechanism insulation, pipe connections, fresh air intake connector for cassettes etc. of various capacities as per specifications and drawings of Makes: Daikin/Trane/OGeneral/Mitshubishi Electric.		
716	Ceiling Mounted Cassette Units:		

S.No.	Item Description	Quantity	Unit
1	2	3	4
717	Ceiling Mounted Cassette Unit : 3.18 TR / 1130 CFM	11	Nos.
718	Ceiling Mounted Cassette Unit : 3.98 TR / 1165 CFM	19	Nos.
719	Ceiling Mounted Duct Type Units:		
720	Ceiling Mounted Concealed Unit : 6.36 TR / 2295 CFM	2	Nos.
721	Supply,Installation,Testing and Commissioning of Main Central Remote controller system with LCD panel suitable for above indoor units to operate, monitor, on/off, temperature setting etc. of Make Daikin/Trane/OGeneral/Mitshubishi Electric	1	Nos.
722	Heat Reclaim Ventilation(HRV) (Fresh air Supply)		
723	To design & supply Heat Reclaim Ventilation (HRV) high static pressur,nighttime free cooling opration,contributes to energy conservation and more comfortable space. Makes: Daikin/Trane/OGeneral/Mitshubishi Electric		
724	HRV (heat reclaim ventilation) 375 cfm / 650CMH	4	Nos.
725	Refrigerant Piping		
726	Supply & Laying of interconnecting copper refrigerant pipe work with Y joints duly insulated with tubular elastomeric nitrile rubber insulation of thickness as specified, between indoor & outdoor units as per specifications. All piping inside the room shall be properly supported on galvenised perforated trays and all external piping shall run in galvenised covered perforated tray. MAKE: Copper Pipe -Madedv / Maxflow/ Rajco. Insulation - Armaflex / Kflex / Aflex.		
727	41.3 mm O.D. (insulation - 19 mm thick)	200	RMT
728	34.9 mm O.D. (insulation - 19 mm thick)	50	RMT
729	28.6 mm O.D. (insulation - 19 mm thick)	90	RMT
730	22.2 mm O.D. (insulation - 19 mm thick)	40	RMT
731	19.1 mm O.D. (insulation - 19 mm thick)	250	RMT
732	15.9 mm O.D. (insulation - 19 mm thick)	250	RMT
733	12.7mm O.D. (insulation - 13 mm thick)	50	RMT
734	9.5 mm O.D. (insulation - 13 mm thick)	250	RMT
735	Supply, installation, and testing of site Fabricated Hard pvc pipes including necessary supports , nut bolts, gasket, etc. complete as per specifications in accordance with the approved shop drawings.		
736	6" dia pvc pipe	30	RMT
737	8" dia pvc pipe	80	RMT
738	10" dia pvc pipe	150	RMT
739	Drain Piping		
740	roviding and fixing of cPVC drain water piping complete with fittings, support with MS hanger as per specification and insulated with 6/9 mm thick closed cell elastomeric nitrile rubber insulation.		
741	40 mm dia O.D with 9mm thick insulation	50	RMT
742	32 mm dia O.D with 9mm thick insulation	65	RMT
743	25 mm dia O.D with 6mm thick insulation	150	RMT
744	Rectangular / Square Ducting (Site fabrication)		
745	Supply, fabrication, installation, testing and commissioning of G.S.S.sheet metal ducting & as per ISI specifications & tender drawings. The price shall include with supports such as full threaded rod & GI slotted channel including nut bolt fastner or MS angle & MS rod including nut bolt fastner , sealent (neoprene gasket), access door etc.		
746	24 G (0.63 mm)	200	Sqm.
747	22 G (0.80 mm)	50	Sqm.
748	Supply, installation, testing & commissioning of Powder coated Aluminium extruded	4	Sqm.

S.No.	Item Description	Quantity	Unit
1	2	3	4
	grilles with Al volume control damper for supply air normal flow, 15° deflection one way as per specification & the sizes will be as per tender drawing.		
749	Supply, installation, testing & commissioning of Powder coated Aluminium extruded grilles for return air normal flow, 15° deflection one way as per specification & the sizes will be as per tender drawing of make Systemair / Mapro / Trox / Metal Joint.	6	Sqm.
750	Supply, installation, testing and balancing of powder coated /Anodised extruded aluminium construction outlet air louvers with bird screen of size upto 1.5 sqft area .	12	Nos.
751	Supplying, installing, and testing of GI volume control damper within ducts to be provided with levers and quadrants for manual control of volume of air flow and for proper balancing of the air distribution system, Frame of the VCD shall be constructed from 18 gauge sheet & blades shall be constructed from 20 gauge sheet .	3	Sqm.
752	Supplying, installing, and testing of GI volume control damper for round PVC pipe to be provided with levers and quadrants for manual control of volume of air flow and for proper balancing of the air distribution system, Frame of the VCD shall be constructed from 18 gauge sheet & blades shall be constructed from 20 gauge sheet, galvanised steel spindle, self lubricating bronze bushes, blade. Linkage fully enclosed, stainless steel side seal gaskets, neoprene gaskets on blade tips complete with PVC knob operation and status indicator lockable in closed/open position, the linkage system shall be GI flats.		
753	Suitable for 6"dia pvc pipe	30	Nos.
754	TRANSMISSION CABLE		
755	Providing & fixing shielded control cum transmission cable of 2 core x 1.5 sqmm copper in suitable 20 mm dia heavy duty PVC conduits or wall chase or refrigerant piping between indoor units and outdoor units and indoor units and wired controllers.	1000	RMT
756	Flexible Duct Connection		
757	Supplying, fabricating, installing and testing of fire retardant nonporous double layer flexible connection constructed of fire resistant material For Evaporative cooling unit as per the drawings/specifications.	15	Nos.
758	Duct insulation		
759	Supplying and fixing of External Thermal duct insulation with 2 layer protective coating over closed cell Nitrile rubber (Class "O") insulation on ducting after applying suitable adhesive for Nitrile rubber. The joints shall be sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation. All air ducts shall be coated with STARBOND 30-36 / FOSTER 30-36 in conjunction with 5 mil woven fiber glasscloth finally finished with 2 layers of STARBOND 30-36 to provide complete seal against air and moisture complete as per specifications and as required.		
760	Insulation material for Duct shall be anti-microbial closed cell Elastomeric Nitrile Rubber. Thermal conductivity of the insulation material shall not exceed 0.0362 W/moK or 0.208 BTU / (Hr-ft2-oF/inch) at an average temperature of 20oC. Density of the nitrile rubber shall be 40-60 Kg/m3. The product shall have temperature range of -40 oC to 105oC. The insulation material shall be fire rated for Class 0 as per BS 476 Part 6 : 1989 for fire propagation test and for Class 1 as per BS 476 Part 7, 1987 for surface spread of flame test. Water vapour permeability shall be not less than 0.024 perm inch (2.48 x 10-14 Kg/m.s.Pa i.e. μ=7000: Water vapour diffusion resistance). Thermal conductivity of the material shall not be affected by ageing, as per DIN 52616, The smoke density of the material as per AS-1530.3 shall not exceed 1.The material shall be antimicrobial as per ISO 22196, C1338 and ASTM G21-96. There shall be no growth of fungus and mold. Insulation. Protective coating over insulation.		
761	19mm thickness insulation with protective coating	200	Sqm.

S.No.	Item Description	Quantity	Unit
1	2	3	4
762	Duct Acoustic lining		
763	Supply, installation testing and commissioning of duct acoustic insulation inside the Duct with Engineered Nitrile Rubber open cell foam with Density 140 - 180 Kg/m³ passing Class 1 Fire Performance test as per BS 476 Part 7, Air Erosion test or 10,000 fpm air velocity as per ASTM C 1071-05 to be applied using manufacturer's recommended Rubber based Adhesive in a blend of solvents. Makes: Armacell/K-flex/A-flex		
764	10 mm thick acoustic lining	75	Sqm.
765	Making hole in stone masonry/ RCC with core cutter for accomodating refrigerant pipe/ drain pipe for indoor m/c of VRV / VRF AC.		
766	50mm to 150mm	40	Each
767	Making the wall/window opening for grills and suitable for duct, repairing, plaster as per site requirement complete in all respect as per instruction of Engineer in Charge & making good same of required size as per drawing.	40	Sqm.
768	Supply, Fabricating & installing following sizes of GI cable trays including horizontal and vertical bends, reducers tees, cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders, fastners, supports etc. as required.		
769	100mm x 50mm x 1.6mm	250	RMT
770	300mm x 50mm x 1.6mm	100	RMT
771	SITC of 2.0 mm thick (both base & cover) GI sheet raceway for copper piping from outdoor unit to shaft, The raceway shall be fixed on the floor with the help of suitable size galvanized MS angle support at 8" distance as approved from engineer incharge of size 250mm x 100mm.	200	RMT
772	FIRE ALARM		
773	S&F following sizes (dia.) of ISI marked (IS:9537 P - II) rigid steel conduit along with accessories in surface / recessed using saddles, clamps, fastener pvc bushes, check nuts, as required including cutting the wall and making good the same as required of Gr 1.		
774	20 mm	950	RMT
775	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required of Gr 1.		
776	2 x 1.5 sq.mm	950	RMT
777	Supply , installation testing and commisioning of folowing modules suitable for Addressable fire Alarm Control panel taken.		
778	Monitor module for monitoring of flow switches of hydrent / sprinklers	8	Each
779	Control relay modules for tripping of AHU / pressurise fans and ventilators	4	Each
780	Control modules for floor wise activation of hooters	11	Each
781	Supply, Installation, Testing and Commissioning of intelligent Addressable MULTI CRITERIA optical and thermal DETECTOR including mounting base with LED etc. complete as required with two inbuilt Isolators or isolator base as per NFPA 72 Style 7 Wiring for maintaining operational availability of all elements in the loop, even in the event of a short circuit & Drift Compensation feature . High resistance to electromagnetic effects shall be UL/VDS/LPCB.	40	Each
782	Supply, Installation, Testing and Commissioning of Addeessable Manual Break Glass/ flap Unit (Double action) with two inbuilt isolator or isolator module as per the NFPA Style 7 wiring with flexible network structures & necessary fixing arrangements with key complete as required shall be UL/VDS/LPCB (following EN54 Standard Approval).	11	Each
783	SITC of Repeater Panel for Fire Alarm System with piezo sounder, LCD alpha numeric	1	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
	character display with accept / reset buttons for alarm address of any sensor / field device. The Repeater Panel shall only provide field device address with room number. Analogue Output is not required. The Panel shall be connected to the Fire Alarm Panel.		
784	Supply, Installation, Testing and Commissioning of Stand alone Loop Powered Addressable sounder with 5 different programmable tone the sound pressure not less than 90 DB, it should be programmed from the panel shall be UL/VDS/LPCB . (In case of separately powered sounders, cost of the supervised power supply for each hooter with power cable shall be inclusive the cost of sounders itself and shall not be paid separately and power of sounders shall be fed from main Fire Alarm Panel only)	11	Each
785	Supplying, Installing, Testing and Commissioning of speaker for PA system.		
786	6-8 Watts ceiling mounted speakers	30	Each
787	10 Watts wall mounted speakers	4	Each
788	Supply, laying and commissioning of PVC insulated and PVC sheathed , 2 core shielded flexible copper wire of size 1.5mm, in existing Surface /recessed conduits ,Cable race ways, Trenches including cost of excavation and refilling, existing Pipes etc using all saddles, clamps, fasteners glands, lugs.	360	RMT
789	Supply, Installation, Testing and Commissioning of Microprocessor based inteligent, Analogue addressable, modular, expandable networkable, 1 loops Panel (expandable upto 2 loops) with each loop capacity of 150 detectors per loop with total of 250 detectors & devices with Loop length up to 1.6 KM. Fire alarm control panel with touch screen LCD display / 320 character graphics LCD display, keypad, multiple access levels, 1000 event history logs in the non volatile memory (EEPROM). The panel shall have 230 + 5 % volts power supply, Automatic battery charger 24V, sealed lead acid maintenance free batteries sufficient for 24 hours normal working and then be capable of operating the system for 30 minutes during emergency condtion. The panel shall be compatible for integration 12 zones Voice evacuation system and shall be complete with all accessories required as per specifications. The panel shall be UL/VDS/LPCB approved.	1	Each
790	Supply , installation testing and commisioning of 6 ZONE Digital Voice Command Center with FACP, it shall contain all equipment required for all audio control, signaling and supervisory functions. This shall include speaker zone indication and control, digital voice units, microphone etc. The Digital Voice Command Center shall have digital voice call station suitable for 6 zone, digital voice controller & router suitable for 6 zone, 1no 480 watt amplifier & digital amplifier capable for 480 watt load etc. as required.	1	Each
791	FIRE FIGHTING		
792	Supplying, Installation, Testing & Commissioning of Local Fire authrity approved Electric Driven Main fire pump for Sprinkler / Hydrant applications suitable for automatic operation and consisting of following details given as A, B, C, D, E, F and G . (A) Horizontal Single / Multi stage Centrifugal End suction, back pull/Horizontal split casing type pump complete for delivery of below mentioned discharge , with necessary Butterfly valve on the suction side (all items to be matching with the suction side dia of the pump) and pressure gauge ,Butterfly valve and non return valve on the delivery side side (all items to be matching with the delivery side dia of the pump) and including bypass arrangement for Testing of pump (B) Material of construction : Pump Casing - Cast Iron, Impellor - Bronze, Shaft - SS 410, Packing - Mechanical Seal (C) Pump shall be capable of furnishing not less than 150 % of rated capacity at a head not less than 65 % of the rated head. The shut off head shall not exceed 120 % of rated head	1	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
	(D) Squirrel cage induction motor suitable for 3 phase, 415 V, 50 HZ, Ac supply 2900 RPM T.E.F.C confirming to IP:55 , of required HP suitable for the above pump, along with flexible coupling , coupling guard complete in all respect . (E) Common bed plate fabricated from mild steel channel for installation of pump and Motor (F) Pump is to be inspected by competent authority of DOIT/RAJCOMP (G) Suitable cement concreat foundation duly plastered with anti vibration pads.		
793	2280 LPM suitable for 70 Mtr Head, single / multi stage, 2900 RPM	1	Each
794	SITC of Local fire authority approved Diesel Engine driven Pump suitable for automatic operation as per discharge defined beolw consisting of the following details given as A, B, C, D, E and F . (A) Horizontal Single / Multi stage Centrifugal End suction, back pull/Horizontal split casing type pump complete for delivery of below mentioned discharge , with necessary Butterfly valve on the suction side (all items to be matching with the suction side dia of the pump) and pressure gauge ,Butterfly valve and non return valve on the delivery side side (all items to be matching with the delivery side dia of the pump) and including bypass arrangement for Testing of pump (B) Material of construction : Pump Casing - Cast Iron, Impellor - Bronze, Shaft - SS 410, Packing - Mechanical Seal (C) Pump shall be capable of furnishing not less than 150 % of rated capacity at a head not less than 65 % of the rated head. The shut off head shall not exceed 120 % of rated head (D) Radiator cooled Diesel Engine developing suitable BHP for the below mentioned discharge at 1500 RPM, flexible coupling and coupling guard with the Pump, common bed plate for mounting of the Engine and Pump,Antivibration damping arrangement by cushy foot, Diesel Engine starting Panel for starting of the engine automatically if the Normal electrical supply fails with a unit of battery bank of 12/24v,180 Ah, Lead Acid Battery with Boost / Trickle charger as required for operation of Diesel engine, Exhaust Pipe of suitable diameter minimum 10 M length, with muffler, day oil tank of 300 lts capacity with first charge and hand operated oil pumping set, (E) Pump is to be inspected by competent authority of DOIT/RAJCOMP (F) Suitable cement concreat foundation duly plastered with anti vibration pads.	1	Each
795		1	Each
796	SITC of Local fire authority approved electric driven automatic pressurisation centrifugal vertical inline Jocky pump of 2900 RPM with SS Body, SS impellor, SS shaft, mechanical seal coupled to a suitable HP induction motor as per specified duty parameter including all accessories such as coupling guard, base frame and pressure guage, Suitable cement concreat foundation duly plastered with anti vibration pads etc as required as per approved make.		
797	180 LPM suitable for 70 Mtr	1	Each
798	Providing & Fixing, of SS Fire brigade connection (Suction collecting head) consisting of 4 nos 63 mm instantaneous type male coupling with built-in check valve and 150 mm dia flanged outlet complete with bolts,nuts and rubber insertions as per IS:904-1983 of as per approved make.	1	Each
799	Providing & fixing SS fire brigade suction hose coupling (draw-out connection) with nut for female coupling as per IS standards complete with 100 mm dia GI suction pipe and 100 mm dia foot valve (to be connected to static tank) of as per approved make.	1	Each
800	Supply, installation, testing and commissioning of flexible connections of suitable pressure rating (225 PSI) to be installed at pump suction, discharge and at pipes crossing building expansion joints of as per approved make..		

S.No.	Item Description	Quantity	Unit
1	2	3	4
801	200 mm dia	2	Each
802	150 mm dia	3	Each
803	100 mm dia	1	Each
804	15mm dia, Quartzoid bulb type G.M. chrome plated Sprinkler Head (Pendent / Upright / Conventional, as required) set to operate at 68 degree centigrade (UL/FM/LPC/TAC listed/ Approved) complete with decorating plate (Ressette) of as per approved make.	350	Each
805	15mm dia, quartzoid bulb type G.M. Chrome plated side wall extended range sprinkler head set to operate at 68 degree centigrade (UL/FM/LPC/TAC listed/Approved) complete with decorating plate (Ressette) of as per approved make.	28	Each
806	Providing, fixing, testing and commissioning 25mm diameter inspecting and testing assembly with gunmetal isolation valve gunmetal sight glass bypass valve and connected to 50mm drain line of as per approved make.	3	Each
807	Providing and fixing 4Kg Halotron™ I (Clean Agent) Type Fire Extinguisher. pressurized with Argon gas at 15 bar. Design, construction and testing as per IS 15683 with Fire rating 1A 13B, Body Hydrotested at 35 bar, Operating temperature -30°C to +55°C, external epoxy powder coating with PO Red Shade No. 538 of IS 5, Supplied with standard accessories. and wall suspension brackets as per approved make.	10	Each
808	P & F of LED exit signage of Box size as approved by engineer incharge of approved Make.	16	Each
809	Supply & Fixing of FM approved 25 mm dia corrugated flexible sprinkler drop made out of SS304 of 1000 mm length with 24" bracket for grid installation with all accessories and clamps as required every hose shall be tested at 400 psi pressure. Including cutting the existing MS pipe & welding the socket required for hose connection as required mking good the same. The dia of the corrugated pipe shall be 25 mm. the flexible hose shall be of approved make.	350	Each
810	Supply of strong rope ladder made from 18-20 mm dia Nylone/Polypropylene (PP) rope,with 20-25 mm solid wooden/aluminium rung of length 330-370 mm and span of 370-450 mm and loading capacity of 500 kg and loading of rung with 200 kg of following length and of approved make.		
811	23 meter	2	Each
812	Supplying and installing fire bucket stand including sheet metal (16 gauge) shade, platform and associated civil works each stand should have four nos fire buckets of 24 gauge galvanized steel sheet, standard 9 litre capacity and of round bottom shape, painted white inside and red outside and black on the bottom, inscribed with letters "Fire" in black and gold & one no fire man's axe at approved location as per approved make.	2	Each
813	SITC of pressure switches for Main, Jockey, Terrace pump and standby Diesel pumps, including necessary wiring upto control panel and Ball valve.	3	Each
814	Providing & fixing 100mm dia bourden type, Stainless steel dial type pressure Gauge (0 - 16 Kg) range, 3 / 8 " BSP bottom entry on Pump Delivery Line complete with Ball valve	4	Each
815	Providing & fixing vane typewater flow switches with contacts for installation in 50 mm to 150 mm dia M.S. pipe for a service pressure up to 20 Kg / Sq.cm	5	Each
816	Providing, laying, testing & Commissioning of 'C' class heavy duty MS pipe conforming to IS 3589 / 1239 for hydrent and sprinkler applications including fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. fixing the pipe on the wall/ceiling with suitable clamps and including painting of two coats of Red Oxide , painting with two or more coats of synthetic enamel paint of Post office red shade complete as required.The installation includes all civil openings ,breakages and making good the same.		

S.No.	Item Description	Quantity	Unit
1	2	3	4
817	25 mm dia	1300	Mtr.
818	32 mm dia	60	Mtr.
819	40 mm dia	190	Mtr.
820	50 mm dia	200	Mtr.
821	65 mm dia	150	Mtr.
822	80 mm dia	225	Mtr.
823	100 mm dia	100	Mtr.
824	150 mm dia	100	Mtr.
825	200 mm dia, 6.0 mm thick	15	Mtr.
826	250 mm dia, 6.35 mm thick	10	Mtr.
827	Providing, laying, testing & Commissioning of 'C' class heavy duty MS pipe conforming to IS 3589 and 1239 for hydrent and sprinkler underground rings including all accessories such as screwed/ welded flanges, tees, reducers etc. Conforming to IS : 1239/3589 complete including , welding, jointing with compressed asbestos gaskets, nuts, bolts etc. as required. with cleaning,wrapping and coating of the pipe with 4 mm thick tar based plymaric corrosion protection tape or equivalent including applying uniform coat of cold pipekot primer as per IS; 10221 for protection against corrsion suitable for all kind of soil at 1.0 M depth including excavation and making good the same as required at site .		
828	80 mm dia	5	Mtr.
829	100 mm dia	40	Mtr.
830	150 mm dia	320	Mtr.
831	Supplying and fixing air vessel of continuous welded construction for pump room made of 450 mm dia,fabricated out of 10 mm thick dished ends and 8 mm thick MS sheet, 2000 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia Gun Metal wheel valve, with required accessories, pressure gauge and painting with two coats of Red Oxide and two coat of post office red enamel paint as required.	1	Each
832	Supplying and fixing air vessel of continuous welded construction fixed at riser top made of 250 mm dia, 8 mm thick MS sheet, 1200 mm in height with air release valve on top and flanged connection to riser, drain arrangement with 25 mm dia Gun Metal wheel valve, with required accessories, pressure gauge and painting with two coats of Red Oxide and two coat of post office red enamel paint as required.	1	Each
833	Providing, installation, testing and commissioning of stainless steel strainer of dia given below fabricated out of 1.6 mm. thick stainless steel sheet with 3 mm. dia holes with stainless steel flange of following sizes.		
834	200 mm dia	2	Each
835	150 mm dia	1	Each
836	Providing and constructing masonry chamber 90 x 90 x 100 cms inside with brick work in cement mortar 1:5 (1cement : 5fine sand) for water meter ,M.S. cover (6mmthick sheet with locking arrangement, 600 x600 with M.S. frame etc. all epoxy coated and R.C.C. top slab 1:2:4 mix(1 Cement : 2 coarsesand : 4 graded stone aggregate 20mm nominalsize) including necessary excavation, back fillingfoundation concrete 1:5:10 mix (1 cement : 5 fine sand and 10 graded stone aggregate 20mmnominal size) leaving a pocket of 30x30 cmwith out concrete and filled with pebbles andinside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finishedwith a floating coat of neat cement and outside plaster finished rough complete.	2	Each
837	Providing, installation, testing and commissioning of dual plate non-return valve of following sizes confirming to IS:5312 complete with rubber gasket, G I bolts, nuts,		

S.No.	Item Description	Quantity	Unit
1	2	3	4
	washers etc. as required.		
838	100 mm dia	1	Each
839	150 mm dia	3	Each
840	Supplying, fixing, testing commissioning of butterfly valve PN 1.6, with Bronze/ Gunmetal seat duly ISI marked complete with Nuts, Bolts, washers, gaskets, conforming to IS 13095, of following sizes as required.		
841	80 mm dia	4	Each
842	100 mm dia	10	Each
843	150 mm dia	10	Each
844	200 mm dia	4	Each
845	Providing & fixing testing & commissioning of installation control valve of cast iron body and brass/bronze working parts comprising of water motor alarm, bronze seat clapper, and clapper arm, hydraulically driven mechanical gong bell to sound continuous alarm when the wet riser/Sprinkler system activates, pressure gauges, emergency releases, strainer, pressure switch, cock valve complete with drain valve and bypass, test control box, ball valves, MS pipe of required size, flanges, orifice plate, gasket etc. of size 150 mm dia as required.	1	Each
846	Supplying and fixing Stainless steel IS:3444 Grade - 1 single headed Internal / external yard hydrant valve with 1 No. 63 mm dia instantaneous Stainless steel coupling and cast iron wheel, ISI marked, conforming to IS 5290 (type A) with blank Gunmetal cap and chain as required.	12	Each
847	Supplying and fixing 63 mm dia, 15 mtr. Long RRL hose pipe with 63 mm dia male and female Stainless steel couplings duly binded with GI wire, rivets etc. conforming to IS 636 (type-A) as required.	24	Each
848	Supplying & fixing 63 mm dia stainless steel IS : 3444 Gr. - 1 branch pipe with 20 mm (nominal internal diameter) size Gun metal nozzle conforming to IS 903, suitable for instantaneous connection to interconnect hose pipe coupling as required	12	Each
849	Supplying and fixing first -Aid hose reel wall mounted swinging type with MS construction spray painted in post office Red, conforming to IS 884 with upto date amendments, complete with the following as required. (A) 30 m long 20 mm (nominal internal) dia water hose Thermoplastic (Textile reinforced) Type -2 as per IS: 12585 (B)20 mm (nominal internal) dia gun metal globe valve & nozzle. (C)Drum and brackets for fixing the equipments on wall. (D) Connections from riser with 40 mm dia stop valve (gun metal) & M.S. pipe	6	Each
850	Supplying and fixing of Hose Cabinet of size 750 mm x 600 mm x 250 mm made of 1.6 mm thick MS sheet with 6 mm thick glazed glass doors including necessary locking arrangement suitable to accommodate external hydrant with butterfly valve, 2 Nos 15 Mtr. Long Hose pipe, 1 No. branch pipe, mounted on wall OR raised brick platform & duly painted with post office red externally and white internally with synthetic enamel paint complete in all respect, for external hydrant, as required.	6	Each
851	Providing & fixing of size 0.9 M wide x 1.8 M height Indoor Hose Cabinet shutter suitable for accomodating hydrants made of Tubular rectangular pipe having central opening glazed door having necessary locking arrangement, painting (one coat primer & two coats of paint) suitable for housing 2 Nos. RRL hose pipe, 1 no branch pipe, first Aid hose Reel etc . as required.	3	Each
852	Supply & Fixing ISI marked (IS : 15683) Poratable Fire Exitnguisher,Trolley mounted Mech. Foam type capacity 09 ltrs with gun-metal cap and nozzle and complete respects in all respects including initial fill and wall suspension.	1	Each
853	Supply & Fixing ISI marked (IS : 15683) Portable fire Extinguisher, Carbon-dioxide type flat base including valve, discharge hose of not less than 10 mm dia. min. 600 mm	20	Each

S.No.	Item Description	Quantity	Unit
1	2	3	4
	long & complete in all respects including initial fill with CO2 gas confirming to IS:307-1966 filled to a filling ratio of not more than 0.667 and wall suspension bracket. Capacity 4.5 Kg.		
854	Supply & Fixing ISI marked (IS : 15683) Portable Fire Extinguisher, ABC type, finished externally with red enamel paint, complete in all respects including initial fill and wall suspension of following capacity.		
855	4 kg	20	Each
856	Making hole in stone masonry/ RCC with core cutter for accomodating refrigerant pipe/ drain pipe for split/ cassattee/ ductable AC		
857	50mm to 150mm	30	Each
858	Supply & Fixing of ISI marked (IS : 15683) Fire Extinguisher, Trolley mounted, CO2 (gas pressure) type capacity 22.5 Kg. with gun-metal cap. And nozzle and complete in all respects including initial fill and wall suspension bracket. Capacity 22.5 Kg.	1	Each
859	LIFT		
860	SITC of Electric 20 Passenger Gearless Elevator (1360 Kg) Machine Room less, travel G + 4th floor Complete with Stainless Steel Honeycomb Finish Car & Car Door, center opening, landing Doors, speed 1.00 mtr/sec, V3F, 5 Stops, Controller, Counter, Counter weight, Pulley, Belt, Buffers, Electric Traction Geared Motor, with ARD and complete in all respect as per detail specifiction attached in annexure 1 & 2 with 2 years DLP terms & conditions as requered.	2	Each

ANNEXURE-3: TECHNICAL BID COVER LETTER

{To be submitted by the bidder only on his Letter Head duly signed by Auth. Sign.}

To,
The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

Ref: Request for Proposal (RFP) Notification dated..... No.....

Dear Sir,

1. I/We, the undersigned bidder, Having read & examined in detail, the Bid Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work as mentioned in the Scope of the work, Technical specifications, Service Level Standards & in conformity with the said bidding document for the same.
2. I/ We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.
3. I/ we hereby submit our token of acceptance to all the tender terms & conditions without any deviations. Hence, we are hereby submitting our Bid and offer to provide services to Purchaser for carrying out the project in accordance with your RFP.
4. Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.
5. I/We agree to abide by this RFP for a period of 90 days from the closing date fixed for submission of bid as stipulated in the RFP document.
6. I/We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act, 1988".
7. I/ We undertake, for timely establishment of a local office in Jaipur / Kota (if the award is made to us) and within 3 months from the date of issue of LOI.
Or (strike out whichever is not applicable)
We have an existing office at Jaipur / Kota at the following address:
.....
8. I/We understand that the Purchaser is not bound to accept any bid received in response to this RFP.
9. In case we are engaged by the Purchaser, we shall provide any assistance/cooperation required by Purchaser, appointed auditing agencies (if any), state government officials and Other Stakeholders of the project for performing their duties with respect to this project. We understand that our non-cooperation for the same shall be grounds for termination of service.

Thanking you,

Name of the Bidder: -

Authorised Signatory: -

Seal of the Organization: -

Date:

Place:

ANNEXURE-4: TENDER FORM

{Duly sealed and signed On Bidder's Letter head}

Addressed to :

a.	Name of the tendering authority	Managing Director, RajComp Info Services Ltd.
b.	Address	I floor, Yojana Bhawan, Tilak Marg, Jaipur (Rajasthan) – 302005
c.	Telephone	0141-5103902
	TeleFax	0141-2224855

I. **NIT Reference:**

II.

1.	Name of Bidder			
2.	Name of Contact Person			
3.	Registered Office Address			
4.	Year of Establishment			
5.	Type of Firm	Public Limited	Private Limited	Others
	Put Tick(✓) mark			
6.	Telephone Number(s)			
7.	GST Number			
8.	PAN Card Number			
9.	Email Address			
10.	Website			
11.	Fax No.			
12.	Mobile Number			
13.	Area of Specialization			

III. The Tender fee amounting to Rs. 1000/- (Rupees One Thousand Only) has been deposited vide cash receipt no. _____ Dated _____.

IV. The RISL Processing fee amounting to Rs. 1000/- (Rupees One Thousand Only) has been deposited vide cash receipt no. _____ Dated _____.

V. The rates quoted are valid up to _____. (Subject to a minimum of 90 days from the date of opening of the bid). The validity can be extended with mutual agreement.

VI. Following documents are attached towards the proof of bid security deposited.

S. No.	Earnest Money Deposited through	Number	Dated
1.	Cash		
2.	Demand Draft		
3.	Banker's Cheque (Local only)		

VII. We agree to abide by all the conditions mentioned in this Tender Notice issued by the Tendering Authority and also the further conditions of the said Tender Notice given in the attached sheets.

Signature & Seal of Bidder

ANNEXURE-5: PRE-BID QUERIES FORMAT

{To be submitted by the bidder only on his Letter Head duly signed by Auth. Sign.}

Name of the Company/Firm: _____

Bidding Document Fee Receipt No. _____ Dated _____ for Rs. _____/-

Name of Person(s) Representing the Company/ Firm:

Name of Person	Designation	Email-ID(s)	Tel. Nos. & Fax Nos.

Company/Firm Contacts:

Contact Person(s)	Address for Correspondence	Email-ID(s)	Tel. Nos. & Fax Nos.

Query / Clarification Sought (MS Excel Sheet Format):

S.No.	RFP No.	Page	RFP No.	Chapter	RFP No.	Clause No.	Clause Details as per RFP	Query/ Clarification	Suggestion/

Note: - Queries must be strictly submitted in the prescribed format of both Excel (.XLS/ .XLSX) and PDF only with duly seal and sign on each page. Also submit in hard copies with seal and sign. Queries not submitted in the prescribed format will not be considered/ responded at all by the procuring entity. Also, kindly attach the coloured scanned copy of the receipt towards the submission of the bidding/ tender document fee Also, the bidders having purchased the tender/ RFP document will only be responded to i.e. their pre-bid queries will be entertained and responded. Also, the softcopy of the queries (only in MS-Excel Sheet format) should also be submitted through e-mail.

ANNEXURE-6: PREFERRED MAKE

Note: All the specifications below are minimum specifications and higher specifications shall be used wherever necessary/ required. Deviation on higher side shall only be considered and no extra weightage shall be awarded for such deviations. List of approved makes of materials is listed below. However approved equivalent materials of any other specialized makes may be used after approval by the purchase committee under the chairmanship of CMD.

CIVIL, INTERIOR, PLUMBING AND FURNITURE WORKS

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
1.	CEMENT	ACC / ULTRATECH/ AMBUJA/ JAYPEE CEMENT/ JK CEMENT
2.	WHITE CEMENT	BIRLA/ J.K.WHITE/
3.	REINFORCEMENT STEEL	RINL/ SAIL/ TATA STEEL LTD./ JSW/ JINDAL STEEL/ SHYAM STEEL
4.	PLASTICIZERS	SIKA/ FOSROC/ BASF
5.	PLAIN / PRE-LAMINATED PARTICLE BOARD	NOVAPAN/ MERINO/ ECOBOARD/ TESA ACTION CO/ KITLAM.
6.	PLYWOOD	KITPLY/ CENTURY/ ARCHID PLY/ GREEN PLY/ MERINO.
7.	LAMINATES	KITPLY/ CENTURY/ ARCHIDPLY/ SONEAR/ GREENLAM/ MERINO/ FORMICA.
8.	VENEERS	KITPLY/ CENTURY/ ARCHIDPLY/ SONEAR/ GREENLAM/ MERINO
9.	FLUSH DOORSHUTTERS	KITPLY/ CENTURY/ MERINO/ ARCHID/ GREENPLY.
10.	RCC DOOR FRAMES	AMBIENCE INDUSTRIES/ VENTURA.
11.	CERAMIC FLOOR / DADO TILES	1ST QUALITY OF SOMANY/ ORIENT/ BELL/ JOHNSON / KAJARIA/ NITCO
12.	VITRIFIED / RECTIFIED TILES	1ST QUALITY OF SOMANY/ ORIENT BELL/ JOHNSON / KAJARIA / NITCO/ RAK
13.	TILE ADHESIVES	LATECRETE/ BALENDURA/ WEBER/ ROFF./ FEVICOL
14.	ALUMINUM COMPOSITE PANELS(ACP)	ALSTRONG/ ALUCOBOND/ ALUPLEX/ ALUDECOR / ALPOLIC.
15.	PAVER BLOCKS	KK, PAVIT, K S TILES, HINDUSTAN TILES, SOBHA, BASANT BETONS, SURFACE INDIA, PAVERS INDIA
16.	CEMENT BASED WALL PUTTY	BIRLA WALL CARE/ J.K.WALL PUTTY/ ASIAN PAINTS/ ALTEK
17.	AUTOCLAVED AERATED CONCRETE(AAC) BLOCKS	HYDERABAD INDUSTRIES LIMITED/ ULTRATECH INDIA LIMITED/ SIPOX INDIA LIMITED/ AERECON/ ASCOLITE/ AEROLITE
18.	ANCHOR FASTENER	HILTI/ FISHER
19.	ROLLING SHUTTERS/ GRILLS	STANDARD/ SWASTIK/ AAKASH/ PRAKASH
20.	FLOOR SPRING	DORMA/ DORSET/ HARDWYN
21.	LOCKS IN CABINETS, FURNITURE	HETTICH / BLUM / HAFELE
22.	PU ENAMEL METALLIC PAINTS ON MS STRUCTURE	SKK/ OIKOS/ ACRO/ ASIAN/ BERGER
23.	BALL BEARING HINGES AND SPRING HINGES	DORMA/ HAFELE/ GEZE
24.	GYPSON BOARDS	INDIA GYPSON/ LAFARGE BORAL/ RAMCOLTD.
25.	MDF INTERIOR/ EXTERIOR GRADE	NUWUD, ARCHIDPLY, CENTURY, MERINO, DURA TUFF
26.	GYPSON PLASTER	INDIA GYPSON/ PERMABOARD

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
27.	METAL FALSE CEILING	ARMSTRONG/ DURLUM/ INTER ARCH LUXALON/ HUNTER DOUGLAS
28.	MINERAL FIBER BOARD CEILING	ARMSTRONG/ AMF/ USG
29.	FIRE RETARDANT PAINT	ASIAN PAINT/ VIPER/ FYRETARD/ NOBLEPAINTS/ (FYRE PRUFFE)/ PROMAT
30.	PLASTIC EMULSION PAINT	ASIAN PAINTS/ BERGER PAINTS/ NEROLAC/ BRITISH PAINT
31.	EPOXY PAINT	NEROLAC/ ASIAN/ DULUX/ FOSROC/ BASF/ SIKA
32.	FIRE RATED DOORS	SHAKTIMET/ PROMAT/ GMP/ MPP
33.	FIRE RATED GLASS	SCHOTT / SAINT GOBAIN/ PILKINGTON/ AIS
34.	WORK STATIONS	WIPRO / GODREJ / MONARCH/ FEATHERLITE /COSMOS
35.	CHAIRS	GODREJ / FEATHERLITE / WIPRO/ MERRYFAIR/ COSMOS
36.	ALUMINIUM SECTIONS	JINDAL/ HINDALCO/ INDAL
37.	HARD WARE FITTINGS	DORMA / HETTICH / ENOX
38.	WHITE BOARD	ALKON / ALTOP/ WHITEMARK
39.	FIRE RATED FABRIC	TREVIRACS FABRICS/ WESTEX OF MILLIKEN/ CAMIRA
40.	DOOR MATTS	3M/ FORBO
41.	ROLLING SHUTTERS AND GRILLS	STANDARD/ SWASTIK/ SUPER STEEL
42.	FIRE RATED PARTITIONS	SCHOTT / SAINT GOBAIN/ PILKINGTON
43.	STAINLESS STEEL SCREWS	ARROW/ JINDAL/ KUNDAN
44.	MDF INERIOR/ EXTERIOR GRADE	NUWUD/ GREENPLY/ CENTURY/ MERINO
45.	FROSTED FILM (FIRERATED)	LIUMAR / 3M/ AVERY/ IQUE
46.	MIRROR	ASAHI/ SAINT GOBAIN/ MODIGUARD/ CONTINENTAL
47.	ACOUSTIC BOARDS	ANUTONE/ ARMSTRONG/ GOLDLINE
48.	ROCK WOOL	LLOYDS INSULATIONS/ MINWOOL ROCK FIBRES/ POLYBOND
49.	GLASSWOOL	UP TWIGA/ LLOYDS/ BAKELITE HYLAM
50.	SS CLAMPS,PINS	HILTI/ FISCHER/ HALFEN
51.	SANITARY WARES & FIXTURES	ROCA / JAQUAR/ KOHLER/ QUEO/ VECTUS
52.	CP & SS FITTINGS	ROCA/ JAQUAR/ KOHLER/ QUEO
53.	CONCEALED CISTERN WITH COVER PLATE	JAQUAR/ GEBRIT/ HINDWARE/ CERA/ PERRYWARE
54.	FLUSH VALVE	JAQUAR/ HINDWARE/ CERA/ PARRYWARE
55.	VALVES – BUTTERFLY/ BALL/ NRV	ZOLOTO/ ADVANCE/ CASTLE
56.	HAND DRYER	EURONICS/ CERA/ JAQUAR
57.	GEYSER	AO SMITH/ RACOLD/ BAJAJ/ VENUS/CROMPTON GREAVES
58.	TISSUE PAPER DISPENSER	KIMBERLY CLARK/ JAQUAR/ DLINE
59.	TOILET PAPER DISPENSER	KIMBERLY CLARK/ JAQUAR/ DLINE
60.	FIRE SEALANTS	HILTI, FISCHER,3M

Electrical Works

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
1.	HV CIRCUIT BREAKERS / LBS	ABB / SIEMENS/ SCHNEIDER

2.	HT PANELS	TRICOLITE/ ABB/ SCHNIEDER/ L&T/ SIEMENS/ STERLING GENERATORS/ ENERLAC / ADLEC
3.	LV SWITCHGEAR/ PANELS	SCHNEIDER/ SIEMENS/ ABB/ L&T / TRICOLITE/ STERLING GENERATORS/ ENERLAC /ADLEC
4.	TRANSFORMER	CROMPTON GREAVES / ABB/ VOLTAMP / GE /SCHNEIDER / SGB/SIEMENS
5.	PROTECTION RELAYS	AREVA/ ABB/ L&T / SIEMENS/ SCHNEIDER
6.	HV CABLES	UNIVERSAL / NICCO/ POLYCAB / KEI / HAVELS/ GLOSTER/ FINOLAX
7.	HV CABLE TERMINATION KIT	RAYCHEM/ M-SEAL/ 3M
8.	AIR CIRCUIT BREAKER	SIEMENS 3WL ETU 76 B / ABB E MAX PR123 / L&T U POWER MTX 4.5/ SCHNEIDER MASTERPACT NW
9.	MCCB	SIEMENS/ ABB/ L&T/ SCHNEIDER
10.	CONTACTOR	SIMENS/ ABB/ L&T/ SCHNEIDER/ GE
11.	BIMETAL RELAYS	SIEMENS / ABB/ L&T/ SCHNEIDER/ GE
12.	CAPACITOR	SIEMENS / DUCATI/ ABB/ L&T/ EPCOS/ SCHNEIDER
13.	APFC RELAY	SIEMENS (EPCOS) / L&T/ DUCATI/ SCHNEIDER
14.	MCB	SIEMENS/ ABB/ SCHNEIDER/ LEGRAND/ L&T/ / HAGER
15.	DISTRIBUTION BOARDS	SIEMENS/ SCHNEIDER/ LEGRAND/ L&T/ HAGER / ABB/
16.	EARTH LEAKAGE CIRCUIT BREAKER/ RESIDUAL CURRENT CIRCUITBREAKER	SIEMENS/ ABB/ SCHNEIDER/ LEGRAND/ L&T/ / HAGER
17.	TIMER	L&T/ SIEMENS/ ABB/ SCHNEIDER/ GE
18.	CURRENT TRANSFORMER	KALPA/ KAPPA/ NEWTEK/ GILBERT & MAXWELL/ PRECISE/ AE
19.	POTENTIAL TRANSFORMER	KALPA/ KAPPA/ NEWTEK/ GILBERT & MAXWELL/ AE
20.	DIGITAL METERS/ LOADMANAGERS	CONZERV/ L&T/ ELMEASURE/ SOCOMEC/SCHNEIDER /SEIMENS /ABB
21.	INDICATION LAMPS	VAISHNOV/ TEKNIC/ L&T/ SIEMENS/ SCHNEIDER/ ABB
22.	SELECTOR SWITCHES	VAISHNOV / SALZER / KAYCEE/SCHNEIDER
23.	HRC FUSES & FUSE SETTINGS	L&T/ C&S/ ABB/ SIEMENS/ LITTLE FUSE/ COOPER BUSS MANN
24.	LV FLEXIBLE WIRES	RR KABLE/ FINOLEX
25.	LV POWER / CONTROL CABLES	FINOLEX / UNIVERSAL/ RR KABLE / FINOLEX
26.	LOCAL PUSH BUTTON STATIONS	L&T / BCH / TEKNIC/ SIEMENS/ C&S / SCHNEIDER/ VAISHNOV
27.	LUMINARIES/ LAMPS	PHILIPS / WIPRO/ KESELEC / SCHNEIDER/ TRILUX
28.	STREET LIGHT POLES	BAJAJ/ PHILIPS/ OSRAM / WIPRO/ BPP /ASTER, SURYA, VALMONT,
29.	SWITCHES MODULAR	SIEMENS/ /SCHNEIDER / /MK (WRAP AROUND), LEGRAND (MYRIUS), ABB (CLASSIC LUMINIA CAMY CORSA), SCHNEIDER (OPALE), L&T (ORIS), PHILIPS, HAVELL'S (CRABTREE)
30.	SOCKETS MODULAR	SIEMENS/ /SCHNEIDER / MK (WRAP AROUND), LEGRAND (MYRIUS), ABB (CLASSIC LUMINIA CAMY CORSA), SCHNEIDER (OPALE), L&T (ORIS), PHILIPS, HAVELL'S (CRABTREE)
31.	CABLE TERMINALENDS	DOWELL/ COMET/ JOINTWELL/ JAINSON/ BRACO
32.	PVC FRLS CONDUITS	AKG/POLYCAB/ PRECISSION/ BEC/ NATIONAL
33.	GI CONDUITS	STEEL KRAFT / NATIONAL/ AKG/ BEC
34.	RACE WAYS	MK/ LK/ MDS/ PROFAB/ OBO-BETTERMAN/SCHNEIDER

35.	TERMINALS	WAGO/ PHOENIX/ ELMEX/ SALZER
36.	BUSDUCT (SANDWICH)	SCHNEIDER/ WE TOWN / SEIMENS/ GE / L&T /EAE
37.	TVSS	ASCO/ OBO-BETTERMAN/ ABB/ EMERSON/ SCHNEIDER/SIEMENS
38.	CABLE TRAY	SLOTCO /INDIANA /ENERLAC /PASCO
39.	CABLE GLANDS	DOWELLS/ COMET/ HENSEL / LAPP/ 3D/ JAINSONS
40.	LIGHTNING ARRESTOR	LPI(STORMMASTER)/ ESE/ NEXUS
41.	PLCS	ABB/ AB/ OMRON/ SIEMENS/SCHNIDER /ROCKWELL
42.	RELAYS (NUMERICAL)	SIEMENS/ ABB/ L&T/ SCHNEIDER
43.	CRCA SHEET	TATA/ JINDAL/ SAIL
44.	BUS BARS-PANEL	HINDALCO/ JINDAL
45.	MANUAL CHANGE OVER SWITCH	ABB/ HPL SOCOMEC / SIEMENS/ SCHNEIDER/ L&T
46.	MOTORIZED COS / ATS	ABB/ ASCO/ BCH/ SIEMENS/ SCHNEIDER/ EMERSON/ L&T
47.	CHEMICAL EARTHING	ASHLOK / LPI / INTELEC / GALAXY/ ERICO
48.	CONNECTORS	CONNECTWELL/ L&T/ SIEMENS/ GE/ ABB
49.	VOLTMETER,AMMETER	SCHNEIDER/ SALZER/ SECURE/ SOCOMEC/ ABB
50.	BATTERIES CHARGER	VOLSTAT/ STATCON/ UPTRON/
51.	INSULATION MAT	SUNTEX/ PADMINI/ ELECTROMAT
52.	SEALING COMPOUND	HILTI/ 3M/ M-SEAL
53.	INDUSTRIAL SOCKETS	LEAGRAND/ L&T/ ABB/ SCHNEIDER/SIEMENS /CUTTLER HAMMER
54.	TELEPHONE WIRES	RALLISON/ FINOLEX/ LAPP/ POLYCAB/RR KABEL
55.	CEILING FAN	USHA/ CROMPTON/ HAVELLS
56.	LAMPS AND FIXTURES	WIPRO/ PHILIPS/ OSRAM/
57.	LED	PHILIPHS / WIPRO /KESLEC SCHREDDER
58.	LIGHTING CONTROL SYSTEM	ABB/ SCHNEIDER/ SIEMENS/ PHILIPS
59.	LIGHTING POLES	WIPRO/ PHILIPS/ BAJAJ
60.	ELECTRONIC BALLAST	PHILIPS/ WIPRO/ ATCO
61.	SURGE ARRESTOR	ASCO/ EMERSON/ SCHNEIDER/ OBO-BETTERMAN/ERICO
62.	STATIC TRANSFER SWITCH	SCHNEIDER/ EMERSON/ ASCO/ SOCOMEC
63.	DIESEL GENERATOR OEM	JACKSON/ POWERICA / STERLING GENERATORS/ SUDHIR
64.	ENGINE	CUMMINS / MTU STERLING GENERATORS / CATER PILLAR TIL / MITSUBISHI
65.	ALTERNATOR	AVK– SEG/ LERO Y SOMER/ STAMFORD/ CATERPILLAR / MTU
66.	ACOUSTIC ENCLOSURES	CONFORMING TO CPCB NORMS- SUDHIR /STERLING GENERATORS /TIPL
67.	DG ACCESSORIES	CONFORMING TO CPCB NORMS AND AS PER OEM STANDARDS
68.	DG SET MANUFACTURERS	SUDHIR /STERLING GENERATORS /TIPL
69.	BATTERIES	EXIDE /AMARRAJA
70.	MS PIPES	JINDAL (HISSAR) /SURYA /ADVANCE /SAIL
71.	ACTIVE HARMONIC FILTERS	EPCOS , SCHNEIDER ELECTRIC , SIEMENS , EMERSON
72.	ENERGY MANAGEMENT SYSTEMS	SEIMENS , SCHNEIDER , ABB

HVAC Works

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
1.	AHU	SYSTEMAIR / EDGETECH/GREENHECK / ZECO / DAIKIN/ TOSHIBA/

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
		HITACHI /TRANE /O GNERAL/ BLUE STAR / MITSHUBISHI
2.	HRV	DAIKIN/ TOSHIBA/ HITACHI /TRANE /O GNERAL/ BLUE STAR / MITSHUBISHI
3.	CENTRIFUGAL FANS/ AHU FANS	KRUGER / NICOTRA/ COMEFRI
4.	MOTORS	ABB / SIEMENS/ CG/BCH
5.	VARIABLE FREQUENCY DRIVES	EMERSON/ SIEMENS/ DANFOSS(HVACSERIES)/ PANTAIR/ ARMSTRONG/SCHNEIDER /
6.	COMBINED SMOKE & FIRE DAMPERS	RUSKIN TITUS (UL LISTED)/ GREEN HECK(UL LISTED)/ AIRMASTER(UL LISTED)/ METAL JOINTS / TROX / MAPRO
7.	GRILLES & DIFFUSERS	AIR MASTER/ SYSTEMAIR/ RAVISTAR/ RUSKIN/ STULZ/ METAL JOINTS / TROX / MAPRO
8.	GALVANIZED SHEET STEEL	SAIL / JINDAL/ TATA
9.	COPPER PIPES FOR VRV SYSTEM	MADEV / MAXFLOW /RAJCO OR AS APPROVED BY DAIKIN/ TOSHIBA/ HITACHI /TRANE /O GNERAL/ BLUE STAR / MITSHUBISHI FOR THEIR RESPECTIVE INSTALLATION
10.	DUCT INSULATION / ACOUSTIC LINING	UPTWIGA / OWENS CORNING/ KIMMCO/ DUPONT/ K-FLEX/A FLEX
11.	EPS UNDER DECK INSULATION	BEARDSSELL/ COOLITE/ INDIAN PACKAGING /ARMAFLEX SERVICES / STYRENE THERMOBREAK / K-FLEX/ ARMACELL
12.	ELASTOMERIC NITRILE RUBBER INSULATION/ POLYESTERIC FOAM (FOR THERMAL & ACOUSTIC)	ARMAFLEX / THERMOBREAK / K-FLEX/ ARMACELL
13.	BUTTERFLY DAMPERS	AIR MASTER/ SYSTEM AIR/ RAVISTAR/ METAL JOINTS / TROX / MAPRO
14.	SUPPLY AIR PLENUM FOR AHU'S	CARYAIRE/ NUAIRE ENGINEERS/ ROLASTAR/ COSMIC
15.	FIRE DAMPER ACTUATORS	BELIMO/ SIEMENS/ HONEYWELL
16.	INSULATED FLEXIBLE DUCTING	7 STAR/ CARYAIRE/ NUTECH/ RADIANT AIR SYSTEM
17.	VARIABLE AIR VOLUME UNITS	JOHNSON CONTROLS / TROX / TRANE / NEPTRONICS
18.	VIBRATION ISOLATORS	DUNLOP/ RESISTOFLEX/ CORI/ EASYFLEX
19.	DRAIN PIPING FOR COMFORT AC	SUPREME/ PRINCE / ASTRAL
20.	ANCHOR FASTENER	HILTI/ FISCHER
21.	SEALING COMPOUND	HILTI/ 3M/ M-SEAL
22.	WELDING ELECTRODES	ESAB/ ADOR/ MODI/ ADVANI
23.	VRV SYSTEM	DAIKIN/ TOSHIBA/ HITACHI /BLUE STAR /O GNERAL/ MITSHUBISHI/ TRANE
24.	IN LINE FANS	CHYSOL,SYSTEM AIR, PENN BARRY
25.	CABINET FANS	KRUGER, CHYSOL, SYSTEM AIR, PENN BARRY
26.	ALUMINIUM GRILLES & DIFFUSERS	DYNACRAFT, COMOS, TITUS, AIR MASTER,STULZ
27.	OPPOSED BLADE DAMPER	DYNACRAFT, COSMOS, RUSKIN,STULZ
28.	VOLUME CONTROL DAMPERS	DYNACRAFT, COSMOS, RUSKIN, STULZ
29.	AIR FILTERS	PURE AIR, AIRTECH, THERMODYNE.
30.	CONTROLS	JOHNSONS CONTROLS, SIEMENS,SCHNEIDER,HONEYWELL
31.	VARIABLE SPEED DRIVES	DANFOSS, SIEMENS, ABB, SCHNEIDER
32.	CLOSE CELL NITRIDE RUBBER	ARMAFLEX, K-FLEX , AFLEX

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
33.	VIBRATION ISOLATION PADS	RESISTOFLEX.
34.	VIBRATION ISOLATORS	DUNLOP, CORI, RESISTOFLEX.
35.	INSULATED FLEXIBLE DUCT	CARYAIRE, ATCO, SONODEC
36.	FLEXIBLE DUCT CONNECTORS	KLIMA TECH
37.	GI DUCTING	JINDAL, SAIL ,TATA

IBMS Works

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
CCTV WORKS		
1.	IP BASED CCTV CAMERA	HONEYWELL / AXIS/ PELCO/HIKVISION /BOSCH
2.	INDOOR PTZ CCTV CAMERA	HONWYWELL / DVETEL / AXIS/ PELCO /HIKVISION /BOSCH
3.	IP CCTV SOFTWARE	MILESTONE / DVETEL/ GENETEC/ NICE/
4.	VIDEO ANALYTICS SOFTWARE	DVETEL/ GENETEC/ NICE/ ALLGOVISION
5.	(MISCELLANEOUS ANALYTICS SOFTWARE,IF REQUIRED)	IOMNISCIENT/ DELOPT/ ALLGOVISION/ NICE/ MILE STONE
6.	SERVER / PC/ MONITORS	IBM/ HP/ DELL/LENEVO
7.	STORAGE BOX (SANBOX)	NETAPP / EMC/ HITACHI
8.	PROFESSIONAL CCTV MONITORS	SAMSUNG/ PANASONIC/ LG/ SONY
9.	MANAGED LAN NETWORK SWITCHES	CISCO / ALLIED TELLIES/ HP/ JUNIPER/ BROCADE
10.	POWER SUPPLIES	TRANSTECH/ EQUIVALENT LIST ED POWER SUPPLY
11.	GI CONDUIT AND FITTINGS	BEC / AKG /PRECSSION /STEELKRAFT
12.	PERFORATED GI CABLE TRAY,MEDIUM DUTY	PROFAB / INDIANA/ OBO/SLOTCO/PASCO/ENERLAC
13.	GI TRUNKING	PROFAB / INDIANA/ OBO/ SLOTCO/PASCO/ENERLAC
14.	LED/ LCD SCREENS	DELTA / LG / SONY
FIRE ALARM SYSTEM		
1.	FIRE ALARM PANEL(S)	NOTIFIER ONYX/ EST3/ SIEMENS/BOSCH
2.	NETWORK REPEATER WITH FIRE FIGHTERS TELEPHONE SYSTEM	NOTIFIER ONYX/ EST3/ SIEMENS/BOSCH
3.	GRAPHIC USER INTERFACE SOFTWARE	NOTIFIER ONYX/ EST3/ SIEMENS/BOSCH
4.	SMOKE DETECTORS(PHOTO/ PHOTO THERMAL)	NOTIFIER ONYX/ EST3/ SIEMENS/BOSCH
5.	HEAT DETECTORS	NOTIFIER ONYX/ EST3/ SIEMENS/BOSCH
6.	BEAM DETECTORS	SYSTEMSENSOR/ FIRERAY
7.	UV/ IR FLAME DETECTORS	HONEYWELL/ DETRONICS/ HOCHIKI
8.	RATE COMPENSATED HEAT DETECTORS	NOTIFIERONYX/ EST3/ SIEMENS
9.	INTERFACE MODULES:MONITOR/ RELAY/ CONTROL/ ZONE MONITOR ETC.	NOTIFIER ONYX/ EST3/ SIEMENS
10.	SOUNDERS/ SOUNDER CUM FLASHERS/ STROBES/ ANNUNCIATION DEVICES	NOTIFIER ONYX/ EST3/ SIEMENS

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
11.	MANUAL PULLSTATIONS	NOTIFIER ONYX/ EST3/ SIEMENS
12.	FIRE WARDEN STATION,FF TELEPHONE JACK,FFT MODULE	NOTIFIER ONYX/ EST3/ SIEMENS
13.	FAULT ISOLATOR MODULES	NOTIFIER ONYX/ EST3/ SIEMENS
14.	ADDRESSABLE POWERSUPPLIES	NOTIFIER ONYX/ EST3/ SIEMENS
15.	AUTO DIALLER	ADT / GE/ HOENYWELL
16.	LHS CABLE	KIDDE / SYSTEMSENSOR/ PROTECTO WIRE
PUBLIC ADDRESS SYSTEM		
1.	DIGITAL POWER AMPLIFIER	NOTIFIER ONYX/ EST3/ SIEMENS/ BOSCH/ ATEIS
2.	CALL STATION	NOTIFIER ONYX/ EST3/ SIEMENS/ BOSCH
3.	SPEAKERS	NOTIFIER ONYX/ EST3/ SIEMENS/ BOSCH

ELEVATOR WORKS

S.NO.	DESCRIPTION	LIST OF PREFERRED MAKES
1.	ELEVATORS AND ESCALATORS	KONE/ OTIS/ MITSUBISHI/ THYSSENKRUPP ELEVATOR
2.	ELEVATORS ACCESSORIES	AS PER OEM STANDARDS VENDOR OF SELECTED

ROOF TOP SOLAR

S.No.	DESCRIPTION	LIST OF PREFERRED MAKES
1.	MODULES	JA SOLAR/ CANADIN SOLAR/ TRINA/ WAAREE/ RENEWSIS/ VIKRAM SOLAR
2.	INVERTER	DELTA/ HUAWEI/ INGETEAM
3.	DC CABLES	SIECHEM/ APAR
4.	AC CABLES	POLYCAB/ KEI/ RR KABLE/ AVOCAB
5.	ESE	INDELEC/ PROTEC
6.	MODULE MOUNTING STRUCTURE	SAPA/ JURCHEN

FIRE HYDRENT AND SPRINKLER SYSTEM

S. NO	DESCRIPTION	LIST OF PREFERRED MAKES
1.	MS PIPE	JINDAL / TATA / SURYA ROSHNI
2.	GI PIPE	JINDAL / TATA / SURYA ROSHNI
3.	MS FITTINGS	MICROMETAL / RAJGIRI / METALLOYD / FITTECH
4.	GI FITTINGS	MICROMETAL / RAJGIRI / METALLOYD / FITTECH
5.	MS FLANGES	MICROMETAL / RAJGIRI / METALLOYD / FITTECH
6.	GI FLANGES	MICROMETAL / RAJGIRI / METALLOYD / FITTECH
7.	GASKET	CHAMPION / EQUIV.
8.	PRIMER	ASIAN / BURGER / SHALIMAR
9.	PAINT	ASIAN / BURGER / SHALIMAR
10.	WRAPPING & COATING	RUSTEK / IWL
11.	FIRE PUMP	FLOWMORE / M&P / KBL/ GRUNDFOSS

12.	JOCKEY PUMP	FLOWMORE / M&P / KBL/ GRUNDFOSS
13.	MOTOR	ABB / CGL / BBL
14.	FIRE WATER CONTROL PANEL	SUNLIGHT / YASH ENTERPRISES / ARROW
15.	DIESEL ENGINE	GREAVES / KOEL /CUMMINS
16.	FLOW METER	RAPIDROP / TYCO / DARLING MUSECO / ANY UL LISTED OR FM APPROVED
17.	GATE VALVE	H SARKAR / UPADHYAY / LEADER / KBL/ LEHRY
18.	NRV	H SARKAR / UPADHYAY / LEADER / ADVANCE / SANT/ LEHRY
19.	BUTTERFLY VALVE	INTERVALVE / HONEYWELL / HAWA / L&T / AUDCO / SANT/ LEHRY
20.	HYDRANT VALVE	SHAH BHOGILAL / NEWAGE / SUKAN / WINCO/ LEHRY
21.	BRANCH PIPE WITH NOZZLE	SHAH BHOGILAL / NEWAGE / SUKAN / WINCO
22.	FIRE HOSE	SHAH BHOGILAL / NEWAGE / CRC /SUKAN / WINCO
23.	HOSE BOX	SHAH BHOGILAL / NEWAGE / ARROW / WINCO
24.	WATER MONITOR	SHAH BHOGILAL / NEWAGE / SUKAN / WINCO / HD FIRE
25.	DELUGE VALVE	HD FIRE / FIRE TECH/ LEHRY
26.	Y STRAINER	SANT / TELEFLOW / FLAIR / VENUS / LEADER/ LEHRY
27.	WATER CURTAIN NOZZLE	HD FIRE / EQUIV.
28.	SPRINKLER	HD FIRE / TYCO / VIKING / RELIABLE
29.	ALARM VALVE	HD FIRE / SAFEX/ LEHRY
30.	FLOW SWITCH	POTTER / SYSTEM SENSOR /LEHRY
31.	SOLENOID VALVE	ASCO / ROTEX
32.	FLEXIBLE DROP	SAFEX / HD / RAPID DROP / NEWAGE
33.	FIRE EXTINGUISHER	MINIMAX /CEASE FIRE /SUPREMEX /KANEX
34.	POWER / CONTROL CABLES	POLYCAB / KEI / RR/ FINOLEX
35.	LOCALISED FIRE SUPPRESSION DEVICES	SUPREMAX

S. No	DESCRIPTION	LIST OF PREFERRED MAKES
1.	SIGNAL CABLING & COMMUNICATION CABLING	POLYCAB/ / FINOLEX
2.	COMMUNICATION CABLE	POLYCAB/ / FINOLEX
3.	APPROVED MAKES FOR CCTV SYSTEM	AXIS / BOSCH / PELCO / HIKVISION
4.	UTP CABLES AND ACCESSORIES	SYSTEM MAX / AMP /MOLEX /COMMOSCOPE / SCHNEIDER / LEGRAND / PENDUIT / R&M
5.	ATC BUNCHED CONDUCTOR	EMMINENT / BELDON
6.	ACCESS CONTROL	MATRIX/ HID/ TCS LOCKS/ EXIT BUTTONS : VENTAGE / ALGATECH
7.	VIDEO MANAGEMENT SOFTWARE	MILESTONE/ NICE /EQUIVALENT
8.	VIDEO MANAGEMENT HARDWARE SYSTEM SPECIFICATIONS	HP/ DELL/ LENOVO
9.	ACCESS CONTROL SYSTEM	HID, HONEYWELL, BOCOSH, SIEMENS
10.	ELECTRO MAGNETIC LOCK	BELL/DAFIKA/TRIMAC
11.	BOLLARD	URBACO (ITALY) / FAAC (ITAL)/

		MAGNATIC CONTROL(GERMANY)
12.	TURNSTILE	CAME (ITALY) / FAAC (ITALY)/ MAGNATIC CONTROL (GERMANY)
13.	FULL HEIGHT TURNSTILE	CAME / FAAC/ MAGNATIC CONTROL(GERMANY) / SIVANANDA
14.	FLAP GATES	CAME (ITALY) / FAAC (ITALY)/ MAGNATIC CONTROL (GERMANY)
15.	BOOM BARRIES	CAME (ITALY) / FAAC (ITALY)/ MAGNATIC CONTROL (GERMANY)
16.	SLIDING GATES	CAME / FAAC/ NICE
PUBLIC ADDRESS SYSTEM		
17.	VOICE ALARM CONTROLLER, AMPLIFIER, SPEAKER	BOSCH / ATEIS
18.	SIGNAL CABLES	DELTON/ POLYCAB/ FINOLEX/RR
19.	RACK	RITTAL/ /SCHNIDER -APC/EMERSON

Note:

- The mentioning of particular make under acceptable makes does not fulfil automatically for acceptance. The make shall comply all the particular specifications, item of work and other conditions of the Contract.
- Either the model shall be got approved or sample shall be submitted for approval by Engineering-charge before confirming any order to supplier by the contractor.
- For any item not covered in the above list, the contractor shall get the samples and make approved from the Engineer-in-charge before the supply is made.
- In case of Disputes as Agreed by Engineer-in-Charge in recommendations of Technical Committee.

ANNEXURE-7: SELF-DECLARATION

{To be filled by the bidder}

To,

The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

In response to the NIB Ref. No. _____ dated _____ for {Project Title}, as an Owner/ Partner/ Director/ Auth. Sign. of _____, I/ We hereby declare that presently our Company/ firm _____, at the time of bidding,: -

- a) possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
- b) have fulfilled my/ our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
- c) is having unblemished record and is not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State/ Central government/ PSU/ UT.
- d) does not have any previous transgressions with any entity in India or any other country during the last three years
- e) does not have any debarment by any other procuring entity
- f) is not insolvent in receivership, bankrupt or being wound up, not have its affairs administered by a court or a judicial officer, not have its business activities suspended and is not the subject of legal proceedings for any of the foregoing reasons;
- g) does not have, and our directors and officers not have been convicted of any criminal offence related to their professional conduct or the making of false statements or misrepresentations as to their qualifications to enter into a procurement contract within a period of three years preceding the commencement of the procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
- h) does not have a conflict of interest as mentioned in the bidding document which materially affects the fair competition.
- i) will comply with the code of integrity as specified in the bidding document.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken as per the provisions of the applicable Act and Rules thereto prescribed by GoR, my/ our security may be forfeited in full and our bid, to the extent accepted, may be cancelled.

Thanking you,

Name of the Bidder: -
Authorised Signatory: -
Seal of the Organization: -
Date: _____
Place: _____

ANNEXURE-8: FORMAT FOR SUBMISSION OF PROJECT REFERENCES FOR PRE-QUALIFICATION EXPERIENCE

S. No.	Description	Details
1	Project Name:	
2	Value of Contract/Work Order (In INR):	
3	Country:	
4	Location within country:	
5	Project Duration:	
6	Name of Customer:	
7	Total No. of staff-months of the assignment:	
8	Contact person with address, phone, fax and e-mail:	
9	Start date of Project (month/year):	
10	Completion date of Project (month/year):	

Please attach a copy of the work order/ completion certificate/ purchase order/ letter from the customer for each project reference

ANNEXURE-9: BIDDER'S AUTHORIZATION CERTIFICATE**{To be filled by the bidder}**

To,

The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

I/ We {Name/ Designation} hereby declare/ certify that {Name/ Designation} is hereby authorized to sign relevant documents on behalf of the company/ firm in dealing with NIB reference No. _____ dated _____. He/ She is also authorized to attend meetings & submit technical & commercial information/ clarifications as may be required by you in the course of processing the Bid. For the purpose of validation, his/ her verified signatures are as under.

Thanking you,

Name of the Bidder: -
Authorised Signatory: -
Seal of the Organization: -
Date: _____
Place: _____

Verified Signature:

ANNEXURE-10: UNDERTAKING ON AUTHENTICITY OF EQUIPMENTS**{To be filled by the bidder (On Rs. 100/- Non-judicial stamp paper)}**

To,

The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

Reference: NIB No. : _____ Dated: _____

This has reference to the items being supplied/ quoted to you vide bid ref. no. _____ dated _____.

We hereby undertake that all the components/ parts/ assembly/ software used in the equipment shall be genuine, original and new components /parts/ assembly/ software from respective OEMs of the products and that no refurbished/ duplicate/ second hand components/ parts/ assembly/ software are being used or shall be used. In respect of licensed operating system, we undertake that the same shall be supplied along with the authorized license certificate with our name/logo. Also, that it shall be sourced from the authorized source for use in India.

In case, we are found not complying with above at the time of delivery or during installation, for the equipment already billed, we agree to take back the equipment already supplied at our cost and return any amount paid to us by you in this regard and that you will have the right to forfeit our Bid Security/ SD/ PSD for this bid or debar/ black list us or take suitable action against us.

All the information furnished in this bid is genuine and correct as per our best knowledge. If any information is found incorrect or forge, We will be responsible and liable for rejection of bid.

Authorized Signatory

Name:

Designation:

ANNEXURE-11: MAKES OFFERED BY BIDDER

CIVIL, INTERIOR, PLUMBING AND FURNITURE WORKS

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
1.	CEMENT	
2.	WHITE CEMENT	
3.	REINFORCEMENT STEEL	
4.	PLASTICIZERS	
5.	PLAIN / PRE-LAMINATED PARTICLE BOARD	
6.	PLYWOOD	
7.	LAMINATES	
8.	VENEERS	
9.	FLUSH DOORSHUTTERS	
10.	RCC DOOR FRAMES	
11.	CERAMIC FLOOR / DADO TILES	
12.	VITRIFIED / RECTIFIED TILES	
13.	TILE ADHESIVES	
14.	ALUMINUM COMPOSITE PANELS(ACP)	
15.	PAVER BLOCKS	
16.	CEMENT BASED WALL PUTTY	
17.	AUTOCLAVED AERATED CONCRETE(AAC) BLOCKS	
18.	ANCHOR FASTENER	
19.	ROLLING SHUTTERS/ GRILLS	
20.	FLOOR SPRING	
21.	LOCKS IN CABINETS, FURNITURE	
22.	PU ENAMEL METALLIC PAINTS ON MS STRUCTURE	
23.	BALL BEARING HINGES AND SPRING HINGES	
24.	GYPSON BOARDS	
25.	MDF INTERIOR/ EXTERIOR GRADE	
26.	GYPSON PLASTER	
27.	METAL FALSE CEILING	
28.	MINERAL FIBER BOARD CEILING	
29.	FIRE RETARDANT PAINT	
30.	PLASTIC EMULSION PAINT	
31.	EPOXY PAINT	
32.	FIRE RATED DOORS	
33.	FIRE RATED GLASS	
34.	WORK STATIONS	
35.	CHAIRS	
36.	ALUMINIUM SECTIONS	
37.	HARD WARE FITTINGS	
38.	WHITE BOARD	
39.	FIRE RATED FABRIC	
40.	ROLLING SHUTTERS AND GRILLS	

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
41.	FIRE RATED PARTITIONS	
42.	STAINLESS STEEL SCREWS	
43.	MDF INERIOR/ EXTERIOR GRADE	
44.	FROSTED FILM (FIRERATED)	
45.	MIRROR	
46.	ACOUSTIC BOARDS	
47.	ROCK WOOL	
48.	GLASSWOOL	
49.	SS CLAMPS,PINS	
50.	SANITARY WARES & FIXTURES	
51.	CP & SS FITTINGS	
52.	CONCEALED CISTERN WITH COVER PLATE	
53.	FLUSH VALVE	
54.	VALVES – BUTTERFLY/ BALL/ NRV	
55.	HAND DRYER	
56.	GEYSER	
57.	TISSUE PAPER DISPENSER	
58.	TOILET PAPER DISPENSER	
59.	FIRE SEALANTS	

Electrical Works

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
73.	HV CIRCUIT BREAKERS / LBS	
74.	HT PANELS	
75.	LV SWITCHGEAR/ PANELS	
76.	TRANSFORMER	
77.	PROTECTION RELAYS	
78.	HV CABLES	
79.	HV CABLE TERMINATION KIT	
80.	AIR CIRCUIT BREAKER	
81.	MCCB	
82.	CONTACTOR	
83.	BIMETAL RELAYS	
84.	CAPACITOR	
85.	APFC RELAY	
86.	MCB	
87.	DISTRIBUTION BOARDS	
88.	EARTH LEAKAGE CIRCUIT BREAKER/ RESIDUAL CURRENT CIRCUITBREAKER	
89.	TIMER	
90.	CURRENT TRANSFORMER	
91.	POTENTIAL TRANSFORMER	
92.	DIGITAL METERS/ LOADMANAGERS	
93.	INDICATION LAMPS	

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
94.	SELECTOR SWITCHES	
95.	HRC FUSES & FUSE SETTINGS	
96.	LV FLEXIBLE WIRES	
97.	LV POWER / CONTROL CABLES	
98.	LOCAL PUSH BUTTON STATIONS	
99.	LUMINARIES/ LAMPS	
100.	STREET LIGHT POLES	
101.	SWITCHES MODULAR	
102.	SOCKETS MODULAR	
103.	CABLE TERMINALENDS	
104.	PVC FRLS CONDUITS	
105.	GI CONDUITS	
106.	RACE WAYS	
107.	TERMINALS	
108.	BUSDUCT (SANDWICH)	
109.	TVSS	
110.	CABLE TRAY	
111.	CABLE GLANDS	
112.	LIGHTNING ARRESTOR	
113.	PLCS	
114.	RELAYS (NUMERICAL)	
115.	CRCA SHEET	
116.	BUS BARS-PANEL	
117.	MANUAL CHANGE OVER SWITCH	
118.	MOTORIZED COS / ATS	
119.	CHEMICAL EARTHING	
120.	CONNECTORS	
121.	VOLTMETER,AMMETER	
122.	BATTERIES CHARGER	
123.	INSULATION MAT	
124.	SEALING COMPOUND	
125.	INDUSTRIAL SOCKETS	
126.	TELEPHONE WIRES	
127.	CEILING FAN	
128.	LAMPS AND FIXTURES	
129.	LED	
130.	LIGHTING CONTROL SYSTEM	
131.	LIGHTING POLES	
132.	ELECTRONIC BALLAST	
133.	SURGE ARRESTOR	
134.	STATIC TRANSFER SWITCH	
135.	DIESEL GENERATOR OEM	
136.	ENGINE	

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
137.	ALTERNATOR	
138.	ACOUSTIC ENCLOSURES	
139.	DG ACCESSORIES	
140.	DG SET MANUFACTURERS	
141.	BATTERIES	
142.	MS PIPES	
143.	ACTIVE HARMONIC FILTERS	
144.	ENERGY MANAGEMENT SYSTEMS	

HVAC Works

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
38.	AHU	
39.	HRV	
40.	CENTRIFUGAL FANS/ AHU FANS	
41.	MOTORS	
42.	VARIABLE FREQUENCY DRIVES	
43.	COMBINED SMOKE & FIRE DAMPERS	
44.	GRILLES & DIFFUSERS	
45.	GALVANIZED SHEET STEEL	
46.	COPPER PIPES FOR VRV SYSTEM	
47.	DUCT INSULATION / ACOUSTIC LINING	
48.	EPS UNDER DECK INSULATION	
49.	ELASTOMERIC NITRILE RUBBER INSULATION/ POLYESTERIC FOAM (FOR THERMAL & ACOUSTIC)	
50.	BUTTERFLY DAMPERS	
51.	SUPPLY AIR PLENUM FOR AHU'S	
52.	FIRE DAMPER ACTUATORS	
53.	INSULATED FLEXIBLE DUCTING	
54.	VARIABLE AIR VOLUME UNITS	
55.	VIBRATION ISOLATORS	
56.	DRAIN PIPING FOR COMFORT AC	
57.	ANCHOR FASTENER	
58.	SEALING COMPOUND	
59.	WELDING ELECTRODES	
60.	VRV SYSTEM	
61.	IN LINE FANS	
62.	CABINET FANS	
63.	ALUMINIUM GRILLES & DIFFUSERS	
64.	OPPOSED BLADE DAMPER	
65.	VOLUME CONTROL DAMPERS	
66.	AIR FILTERS	
67.	CONTROLS	

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
68.	VARIABLE SPEED DRIVES	
69.	CLOSE CELL NITRIDE RUBBER	
70.	VIBRATION ISOLATION PADS	
71.	VIBRATION ISOLATORS	
72.	INSULATED FLEXIBLE DUCT	
73.	FLEXIBLE DUCT CONNECTORS	
74.	GI DUCTING	

IBMS Works

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
CCTV WORKS		
1.	IP BASED CCTV CAMERA	
2.	INDOOR PTZ CCTV CAMERA	
3.	IP CCTV SOFTWARE	
4.	VIDEO ANALYTICS SOFTWARE	
5.	(MISCELLANEOUS ANALYTICS SOFTWARE,IF REQUIRED)	
6.	SERVER / PC/ MONITORS	
7.	STORAGE BOX (SANBOX)	
8.	PROFESSIONAL CCTV MONITORS	
9.	MANAGED LAN NETWORK SWITCHES	
10.	POWER SUPPLIES	
11.	GI CONDUIT AND FITTINGS	
12.	PERFORATED GI CABLE TRAY,MEDIUM DUTY	
13.	GI TRUNKING	
14.	LED/ LCD SCREENS	
FIRE ALARM SYSTEM		
1.	FIRE ALARM PANEL(S)	
2.	NETWORK REPEATER WITH FIRE FIGHTERS TELEPHONE SYSTEM	
3.	GRAPHIC USER INTERFACE SOFTWARE	
4.	SMOKE DETECTORS(PHOTO/ PHOTO THERMAL)	
5.	HEAT DETECTORS	
6.	BEAM DETECTORS	
7.	UV/ IR FLAME DETECTORS	
8.	RATE COMPENSATED HEAT DETECTORS	
9.	INTERFACE MODULES:MONITOR/ RELAY/ CONTROL/ ZONE MONITOR ETC.	
10.	SOUNDERS/ SOUNDER CUM FLASHERS/ STROBES/ ANNUNCIATION DEVICES	
11.	MANUAL PULLSTATIONS	
12.	FIRE WARDEN STATION,FF TELEPHONE JACK,FFT MODULE	
13.	FAULT ISOLATOR MODULES	
14.	ADDRESSABLE POWERSUPPLIES	

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
15.	AUTO DIALLER	
16.	LHS CABLE	
PUBLIC ADDRESS SYSTEM		
1.	DIGITAL POWER AMPLIFIER	
2.	CALL STATION	
3.	SPEAKERS	

ELEVATOR WORKS

S.NO.	DESCRIPTION	MAKE OFFERED BY BIDDER
1.	ELEVATORS AND ESCALATORS	
2.	ELEVATORS ACCESSORIES	

ROOF TOP SOLAR

S.No.	DESCRIPTION	MAKE OFFERED BY BIDDER
1.	MODULES	
2.	INVERTER	
3.	DC CABLES	
4.	AC CABLES	
5.	ESE	
6.	MODULE MOUNTING STRUCTURE	

FIRE HYDRENT AND SPRINKLER SYSTEM

S. NO	DESCRIPTION	MAKE OFFERED BY BIDDER
1.	MS PIPE	
2.	GI PIPE	
3.	MS FITTINGS	
4.	GI FITTINGS	
5.	MS FLANGES	
6.	GI FLANGES	
7.	GASKET	
8.	PRIMER	
9.	PAINT	
10.	WRAPPING & COATING	
11.	FIRE PUMP	
12.	JOCKEY PUMP	
13.	MOTOR	
14.	FIRE WATER CONTROL PANEL	
15.	DIESEL ENGINE	
16.	FLOW METER	
17.	GATE VALVE	

18.	NRV	
19.	BUTTERFLY VALVE	
20.	HYDRANT VALVE	
21.	BRANCH PIPE WITH NOZZLE	
22.	FIRE HOSE	
23.	HOSE BOX	
24.	WATER MONITOR	
25.	DELUGE VALVE	
26.	Y STRAINER	
27.	WATER CURTAIN NOZZLE	
28.	SPRINKLER	
29.	ALARM VALVE	
30.	FLOW SWITCH	
31.	SOLENOID VALVE	
32.	FLEXIBLE DROP	
33.	FIRE EXTINGUISHER	
34.	POWER / CONTROL CABLES	
35.	LOCALISED FIRE SUPPRESSION DEVICES	

S. No	DESCRIPTION	LIST OF PREFERRED MAKES
1.	SIGNAL CABLING & COMMUNICATION CABLING	
2.	COMMUNICATION CABLE	
3.	APPROVED MAKES FOR CCTV SYSTEM	
4.	UTP CABLES AND ACCESSORIES	
5.	ATC BUNCHED CONDUCTOR	
6.	ACCESS CONTROL	
7.	VIDEO MANAGEMENT SOFTWARE	
8.	VIDEO MANAGEMENT HARDWARE SYSTEM SPECIFICATIONS	
9.	ACCESS CONTROL SYSTEM	
10.	ELECTRO MAGNETIC LOCK	
11.	BOLLARD	
12.	TURNSTILE	
13.	FULL HEIGHT TURNSTILE	
14.	FLAP GATES	
15.	BOOM BARRIES	
16.	SLIDING GATES	
PUBLIC ADDRESS SYSTEM		
17.	VOICE ALARM CONTROLLER, AMPLIFIER, SPEAKER	
18.	SIGNAL CABLES	
19.	RACK	

ANNEXURE-12: FINANCIAL BID COVER LETTER & FORMAT

{To be submitted by the bidder on his Letter head}

To,

The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

Reference: NIB No. : _____ Dated: _____

Dear Sir,

We, the undersigned bidder, Having read & examined in detail, the Bidding Document, the receipt of which is hereby duly acknowledged, I/ we, the undersigned, offer to supply/ work as mentioned in the Scope of the work, Bill of Material, Technical specifications, Service Level Standards & in conformity with the said bidding document for the same.

I / We undertake that the prices are in conformity with the specifications prescribed. The quote/ price are inclusive of all cost likely to be incurred for executing this work. The prices are inclusive of all type of govt. taxes/duties as mentioned in the financial bid (BoQ).

I / We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the schedule of Requirements.

I/ We hereby declare that in case the contract is awarded to us, we shall submit the contract performance guarantee as prescribed in the bidding document.

I / We agree to abide by this bid for a period of _____ days after the last date fixed for bid submission and it shall remain binding upon us and may be accepted at any time before the expiry of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding Contract between us.

I/ We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that you are not bound to accept the lowest or any bid you may receive.

We agree to all the terms & conditions as mentioned in the bidding document and submit that we have not submitted any deviations in this regard.

Date:

Authorized Signatory

Name:

Designation:

Financial Bid Format

{to be submitted by the bidder only in BoQ format (.XLS) available at e-Procurement portal}

Note: This is an Financial bid format of BoQ. The BoQ available at e-procurement portal shall be considered as final.

S.No.	Item Description	Quantity	Unit	Unit Price	GST In Rs. P	Unit Rate With GST in RS	TOTAL AMOUNT In Figure	TOTAL AMOUNT In Words
1	2	3	4	5	6	7=5+6	8=7*3	9

ANNEXURE-13: BANK GUARANTEE FORMAT**{To be submitted by the bidder's bank}****BANK GUARANTEE FORMAT – BID SECURITY**

(To be stamped in accordance with Stamp Act and to be issued by a Nationalised/ Scheduled bank having its branch at Jaipur and payable at par at Jaipur, Rajasthan)

To,

The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

Sir,

1. In accordance with your Notice Inviting Bid for <please specify the project title> vide NIB reference no. <please specify> M/s. (Name & full address of the firm) (Hereinafter called the "Bidder") hereby submits the Bank Guarantee to participate in the said procurement/ bidding process as mentioned in the bidding document.

It is a condition in the bidding documents that the Bidder has to deposit Bid Security amounting to <Rs. _____ (Rupees <in words>)> in respect to the NIB Ref. No. _____ dated _____ issued by RISL, First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur, Rajasthan (hereinafter referred to as "RISL") by a Bank Guarantee from a Nationalised Bank/ Scheduled Commercial Bank having its branch at Jaipur irrevocable and operative till the bid validity date (i.e. <please specify> days from the date of submission of bid). It may be extended if required in concurrence with the bid validity.

And whereas the Bidder desires to furnish a Bank Guarantee for a sum of <Rs. _____ (Rupees <in words>)> to the RISL as earnest money deposit.

2. Now, therefore, we the (Bank), a body corporate constituted under the Banking Companies (Acquisition and Transfer of Undertaking) Act. 1969 (delete, if not applicable) and branch Office at..... (Hereinafter referred to as the Guarantor) do hereby undertake and agree to pay forthwith on demand in writing by the RISL of the said guaranteed amount without any demur, reservation or recourse.
3. We, the aforesaid bank, further agree that the RISL shall be the sole judge of and as to whether the Bidder has committed any breach or breaches of any of the terms costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the RISL on account thereof to the extent of the Earnest Money required to be deposited by the Bidder in respect of the said bidding document and the decision of the RISL that the Bidder has committed such breach or breaches and as to the amount or amounts of loss, damage, costs, charges and expenses caused to or suffered by or that may be caused to or suffered by the RISL shall be final and binding on us.
4. We, the said Bank further agree that the Guarantee herein contained shall remain in full force and effect until it is released by the RISL and it is further declared that it shall not be necessary for the RISL to proceed against the Bidder before proceeding against the Bank and the Guarantee herein contained shall be invoked against

- the Bank, notwithstanding any security which the RISL may have obtained or shall be obtained from the Bidder at any time when proceedings are taken against the Bank for whatever amount that may be outstanding or unrealized under the Guarantee.
5. Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax, registered post or other electronic media to our address, as aforesaid and if sent by post, it shall be deemed to have been given to us after the expiry of 48 hours when the same has been posted.
 6. If it is necessary to extend this guarantee on account of any reason whatsoever, we undertake to extend the period of this guarantee on the request of our constituent under intimation to you.
 7. The right of the RISL to recover the said amount of <Rs. _____ (Rupees <in words>)> from us in manner aforesaid will not be precluded/ affected, even if, disputes have been raised by the said M/s.(Bidder) and/ or dispute or disputes are pending before any court, authority, officer, tribunal, arbitrator(s) etc..
 8. Notwithstanding anything stated above, our liability under this guarantee shall be restricted to <Rs. _____ (Rupees <in words>)> and our guarantee shall remain in force till bid validity period i.e. <please specify> days from the last date of bid submission and unless a demand or claim under the guarantee is made on us in writing within three months after the Bid validity date, all your rights under the guarantee shall be forfeited and we shall be relieved and discharged from all liability thereunder.
 9. This guarantee shall be governed by and construed in accordance with the Indian Laws and we hereby submit to the exclusive jurisdiction of courts of Justice in India for the purpose of any suit or action or other proceedings arising out of this guarantee or the subject matter hereof brought by you may not be enforced in or by such court.
 10. We hereby confirm that we have the power/s to issue this Guarantee in your favor under the Memorandum and Articles of Association/ Constitution of our bank and the undersigned is/are the recipient of authority by express delegation of power/s and has/have full power/s to execute this guarantee under the Power of Attorney issued by the bank in your favour.

Date (Signature)
Place (Printed Name)
(Designation)
(Bank's common seal)

In presence of:
WTTNESS (with full name, designation, address & official seal, if any)
(1)
.....
(2)
.....

Bank Details
Name & address of Bank:

Name of contact person of Bank:

Contact telephone number:

GUIDELINES FOR SUBMISSION OF BANK GUARANTEE

The Bank Guarantee shall fulfil the following conditions in the absence of which they cannot be considered valid: -

1. Bank Guarantee shall be executed on non-judicial stamp paper of applicable value purchased in the name of the bank.
2. Two persons should sign as witnesses mentioning their full name, designation, address and office seal (if any).
3. The Executor (Bank Authorities) may mention the power of attorney No. and date of execution in his/her favour authorizing him/her to sign the document. The Power of Attorney to be witnessed by two persons mentioning their full name and address.
4. The Bank Guarantee should be executed by a Nationalised Bank/ Scheduled Commercial Bank only.
5. Non-Judicial stamp paper shall be used within 6 months from the date of Purchase of the same. Bank Guarantee executed on the non-judicial stamp paper after 6 (six) months of the purchase of such stamp paper shall be treated as non-valid.
6. The contents of Bank Guarantee shall be strictly as per format prescribed by RISL
7. Each page of Bank Guarantee shall bear signature and seal of the Bank and B.G. number.
8. All corrections, deletions etc. in the Bank Guarantee should be authenticated by signature of Bank Officials signing the Bank Guarantee.
9. Bank should separately send through registered post/courier a certified copy of Bank Guarantee, mentioning Bid reference, Bid title and bidder name, directly to the Purchaser at the following address:

BANK GUARANTEE FORMAT – PERFORMANCE SECURITY (PBG)

(To be stamped in accordance with Stamp Act and on a Stamp Paper purchased from Rajasthan State only and to be issued by a Nationalised/ Scheduled bank having its branch at Jaipur and payable at par at Jaipur, Rajasthan)

To,
The Managing Director,
RajCOMP Info Services Limited (RISL),
First Floor, Yojana Bhawan, C-Block, Tilak Marg, C-Scheme, Jaipur-302005 (Raj).

1. In consideration of the RajCOMP Info Services Limited (hereinafter called "RISL") having agreed to exempt M/s(hereinafter called "the said Contractor(s)" from the demand, under the terms and conditions of an Agreement No.....datedmade between the RISL through and(Contractor) for the work(hereinafter called "the said Agreement") of Security Deposit for the due fulfilment by the said Contractor (s) of the terms and conditions contained in the said Agreement, on production of a Bank Guarantee for Rs.....(rupeesonly), we(indicate the name of the Bank), (hereinafter referred to as "the Bank") at the request ofContractor(s) do hereby undertake to pay to the RISL an amount not exceeding Rs.....(Rupees.....only) on demand.
2. We..... (Indicate the name of Bank), do hereby undertake to pay Rs..... (Rupees.....only), the amounts due and payable under this guarantee without any demur or delay, merely on a demand from the RISL. Any such demand made on the bank by the RISL shall be conclusive as regards the amount due and payable by the Bank under this guarantee. The Bank Guarantee shall be completely at the disposal of the RISL and We..... (Indicate the name of Bank), bound ourselves with

all directions given by RISL regarding this Bank Guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs..... (Rupees.....only).

3. We.....(indicate the name of Bank), undertake to pay to the RISL any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal or Arbitrator etc. relating thereto, our liability under these presents being absolute, unequivocal and unconditional.
4. We.....(indicate the name of Bank) further agree that the performance guarantee herein contained shall remain in full force and effective up to <DATE> and that it shall continue to be enforceable for above specified period till all the dues of RISL under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till the RISL certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.
5. We(indicate the name of Bank) further agree with the RISL that the RISL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the RISL against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the RISL or any indulgence by the RISL to the said Contractor(s) or by any such matter or thing whatsoever which would but for this provision, have effect of so relieving us.
6. The liability of us (indicate the name of Bank), under this guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
7. We (indicate the name of Bank), lastly undertake not to revoke this guarantee except with the previous consent of the RISL in writing.
8. This performance Guarantee shall remain valid and in full effect, until it is decided to be discharged by the RISL. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs..... (Rupees.....only).
9. It shall not be necessary for the RISL to proceed against the contractor before proceeding against the Bank and the guarantee herein contained shall be enforceable against the Bank notwithstanding any security which the RISL may have obtained or obtain from the contractor.
10. We (indicate the name of Bank) verify that we have a branch at Jaipur. We undertake that this Bank Guarantee shall be payable at any of its branch at Jaipur. If the last day of expiry of Bank Guarantee happens to be a holiday of the Bank, the Bank Guarantee shall expire on the close of the next working day.
11. We hereby confirm that we have the power(s) to issue this guarantee in your favor under the memorandum and articles of Association/constitution of our bank and the undersigned is/are the recipient of authority by express delegation of power(s) and has/have full power(s) to execute this guarantee for the power of attorney issued by the bank.

Dated.....day of.....For and on behalf of the <Bank> (indicate the Bank)

Signature

(Name & Designation)

Bank's Seal

The above performance Guarantee is accepted by the RISL
For and on behalf of the RISL

Signature

(Name & Designation)

ANNEXURE-14: DRAFT AGREEMENT FORMAT

{To be mutually signed by selected bidder and procuring entity}

This Contract is made and entered into on this _____ day of _____, 2018 by and between RajCOMP Info Services Limited (RISL), having its head office at First Floor, Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur-302005, Rajasthan (herein after referred to as Purchaser/ RISL) which term or expression, unless excluded by or repugnant to the subject or context, shall include his successors in office and assignees on ONE PART

And
M/s _____, a company registered under the Indian Companies Act, 1956 with its registered office at _____ (herein after referred as the "Successful Bidder/ Supplier") which term or expression, unless excluded by or repugnant to the subject or context, shall include his successors in office and assignees on the OTHER PART.

Whereas,
Purchaser is desirous of appointing an agency for <project title> as per the Scope of Work and Terms and Conditions as set forth in the RFP document dated _____ of <NIB No _____>.

And whereas
M/s _____ represents that it has the necessary experience for carrying out the overall work as referred to herein and has submitted a bid and subsequent clarifications for providing the required services against said NIB and RFP document issued in this regard, in accordance with the terms and conditions set forth herein and any other reasonable requirements of the Purchaser from time to time.

And whereas
Purchaser has accepted the bid of supplier and has placed the Work Order vide Letter No. _____ dated _____, on which supplier has given their acceptance vide their Letter No. _____ dated _____.

And whereas
The supplier has deposited a sum of Rs. _____/- (Rupees _____) in the form of _____ ref no. _____ dated _____ of _____ Bank and valid up to _____ as security deposit for the due performance of the contract.

Now it is hereby agreed to by and between both the parties as under: -

1. The NIB Ref. No. _____ dated _____ and RFP document dated _____ issued by RISL along with its enclosures/ annexures, wherever applicable, are deemed to be taken as part of this contract and are binding on both the parties executing this contract.
2. In consideration of the payment to be made by RISL to supplier at the rates set forth in the work order no. _____ dated _____ will duly supply the said articles set forth in "Annexure-II: Bill of Quantity" thereof and provide related services in the manner set forth in the RFP, along with its enclosures/ annexures and Technical Bid along with subsequent clarifications submitted by supplier.
3. The RISL do hereby agree that if supplier shall duly supply the said articles and provide related services in the manner aforesaid observe and keep the said terms and conditions of the RFP and Contract, the RISL will pay or cause to be paid to supplier, at the time and the manner set forth in the said conditions of the RFP, the amount

payable for each and every project milestone & deliverable. The mode of Payment will be as specified in the RFP document.

4. The timelines for the prescribed Scope of Work, requirement of services and deployment of technical resources shall be effected from the date of work order i.e. _____ and completed by supplier within the period as specified in the RFP document.
5. In case of extension in the delivery and/ or installation period/ completion period with liquidated damages, the recovery shall be made on the basis of following percentages of value of stores/ works which supplier has failed to supply/ install/ complete: -

a) Delay up to one fourth period of the prescribed delivery period, successful installation & completion of work	2.5%
b) Delay exceeding one fourth but not exceeding half of the prescribed delivery period, successful installation & completion of work.	5.0%
c) Delay exceeding half but not exceeding three fourth of the prescribed delivery period, successful installation & completion of work.	7.5%
d) Delay exceeding three fourth of the prescribed delivery period, successful installation & completion of work.	10.0%

Note:

- i. Fraction of a day in reckoning period of delay in supplies/ maintenance services shall be eliminated if it is less than half a day.
 - ii. The maximum amount of agreed liquidated damages shall be 10%.
 - iii. If supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrances, he shall apply in writing to the authority which had placed the work order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply.
 - iv. Delivery period may be extended with or without liquidated damages if the delay in the supply of goods in on account of hindrances beyond the control of supplier.
6. The Penalties shall be implemented and deducted as per the SLAs defined in the RFP.
 7. All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided as per the procedure mentioned in the RFP document.
 8. In case of agreement with Supplier/service provider:
 “This agreement is being executed on behalf of M/s (Concerned Department)....., to procure defined goods and services, RISL is acting merely as a Pure Agent who neither intends to hold or holds any title to the goods and services being procured or provided. So all the goods and services are required to be delivered in the name of M/s (Concerned Department)..... along with invoices of supplied items, although payment will be made by RISL on behalf of said department/company.”
 9. In case of MOU with Department/PSU
 “This MOU is being executed to procure defined goods and services, RISL is acting merely as a Pure Agent who neither intends to hold or holds any title to the goods and services being procured or provided. So all the goods and services (except management consultancy) will be delivered in the name of M/s (Concerned Department)..... along with invoices of supplied items, although payment will be made by RISL on behalf of M/s (Concerned Department).....”

In witness whereof the parties have caused this contract to be executed by their Authorized Signatories on this ____ day of _____, 2018.

Signed By:	Signed By:
------------	------------

() Designation: Company:	Director (Technical), RISL
<i>In the presence of:</i>	<i>In the presence of:</i>
() Designation: Company:	() Designation: Rajcomp Info Services Limited, Jaipur
() Designation: Company:	() Designation: Rajcomp Info Services Limited, Jaipur

ANNEXURE-15: MEMORANDUM OF APPEAL UNDER THE RTPP ACT, 2012

Appeal Noof

Before the (First/ Second Appellate Authority)

1. Particulars of appellant:

- a. Name of the appellant: <please specify>
- b. Official address, if any: <please specify>
- c. Residential address: <please specify>

2. Name and address of the respondent(s):

- a. <please specify>
- b. <please specify>
- c. <please specify>

3. Number and date of the order appealed against and name and designation of the officer/ authority who passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provisions of the Act by which the appellant is aggrieved: <please specify>

4. If the Appellant proposes to be represented by a representative, the name and postal address of the representative: <please specify>

5. Number of affidavits and documents enclosed with the appeal: <please specify>

6. Grounds of appeal (supported by an affidavit): <please specify>

7. Prayer: <please specify>

Place

Date

Appellant's Signature

ANNEXURE-16: INDICATIVE FORMAT FOR CONSORTIUM AGREEMENT

(On non-judicial stamp paper of appropriate value to be purchased in the name of executants companies or as required by the jurisdiction in which executed)

This Consortium Agreement executed on this day of..... Two Thousand By:
M/s. a Company incorporated under the laws of..... and having its registered office at (hereinafter called the "Lead Member/First Member" which expression shall include its successors); and

M/s. a Company incorporated under the laws of and having its registered office at (hereinafter called the "Second Member" which expression shall include its successors)

The Lead Member/First Member and the Second Member shall collectively hereinafter be called as the "Consortium Members" for the purpose of submitting a proposal (hereinafter called as "Bid") for the work of(Name of work).....for (Name of project) of M/s..... to Government of Rajasthan (GoR)/ RajCOMP Info Services Limited (herein after called the 'Owner' or 'RISL'), RISL being a Company incorporated under the Companies Act, 1956 having its registered office at Yojana Bhawan, Tilak Marg, C-Scheme, Jaipur, India (hereinafter called the "Owner/GoR/ RISL") in response to GoR/ RISL Request for Proposal Document (hereinafter called as "RFP" Document) Dated..... for the purposes of submitting the bid no. and entering into a contract in case of award for the work of(Name of work).....for (Name of project) of GoR/ RISL.

WHEREAS, the Owner invited bids vide its RFP document no. for the work of AND WHEREAS as per document, Consortium bids will also be considered by the Owner provided they meet the specific requirements in that regard.

AND WHEREAS the PQ bid is being submitted to the Owner vide proposal dated based on the Consortium Agreement being these presents and the PQ bid with its PQ bid forms and submission documents, in accordance with the requirement of PQ document conditions and requirements have been signed by all the partners and submitted to the Owner.

AND WHEREAS Clause _____ of RFP document stipulates that a Consortium of maximum two companies, meeting the requirements stipulated in the RFP document may submit a Proposal signed by Lead Member of the Consortium Members so as to legally bind all the Members of the Consortium who will be jointly and severally liable for the performance and all obligations thereunder to GoR/RISL and duly signed Consortium Agreement shall be attached to the Proposal.

NOW THEREFORE, in consideration of the mutual covenants of the members of the Consortium, the sufficiency whereof is hereby acknowledged and other good valuable consideration, we agree as follows:

1. We the members in the Consortium hereby confirm that the name and style of the Consortium shall be..... Consortium.
2. M/s. shall act as Lead Member for self, and for and on behalf of M/s (Second Member) and further declare and confirm that we shall jointly and severally be bound unto the Owner

for the successful performance of the obligations under the Request for Proposal (RFP) and resulting Contact Agreement(s) submitted / executed by the Lead Member in the event of the selection of Consortium. Further, the Lead Partner is authorized to incur liabilities and receive instructions for and on behalf of any or all partners of the CONSORTIUM.

3. That M/s _____ which is the Lead Member of the Consortium shall invest and continue to invest% (at least 51% to be invested by Lead Bidder) interest in the Consortium for the Lock in Period (Complete Project Period) as specified in the RFP document.
4. That M/s _____, (Second Member) shall invest and continue to invest% interest of the Consortium for the Lock in Period (Complete Project Period) as specified in the RFP document.
5. The composition or the constitution of the consortium shall not be altered without the prior consent of GoR/RISL.
6. The roles and responsibilities of the lead bidder and the second member of the consortium for execution of various components/activities as defined in the RFP document shall be as under :

S.No.	Project Component /Activity	Roles & Responsibility of Lead Bidder	Roles & Responsibility of Second Member of Consortium
1			
2			
3			
4			

7. It is expressly agreed by the members that all members of the consortium shall be held equally responsible for the obligations under the RFP Document, Contract and this Agreement, irrespective of the specific roles/responsibilities undertaken by them.
8. For the purpose of this Agreement, the RFP Document and the Contract, the Lead Partner shall be the single point of contact for the GoR/ RISL, shall have the overall responsibility of the management of the Project and shall have single point responsibility for ensuring that all members of the consortium are complying with the terms and conditions set out in the Contract and the RFP Document.
9. All instructions/communications from PMC to the Lead Partner shall be deemed to have been duly provided to all the members of the consortium.
10. If GoR/ RISL suffers any loss or damage on account of any breach in the stipulation of the Agreements to be entered into by the Consortium Members, upon its selection pursuant to RFP (the "Agreements") or any shortfall in the performance of the Transaction or in meeting the performances guaranteed as per the RFP and the Agreements, the Consortium Members hereby jointly and severally undertake to promptly make good such loss or damages caused to GoR/ RISL on its demand without any demur or contest. The Owner shall have the right to proceed against anyone of the partners and it shall neither be necessary nor obligatory on the part of the Owner to proceed against the Lead Partner before proceeding against or dealing with the other Member.
11. The financial liability of the Consortium Members to the GoR/ RISL, with respect to any of the claims arising out of the performance or non-performance of obligations under the RFP and the resulting Agreement(s) shall not be limited so as to restrict or limit the liabilities of any of the Members and the Members shall be jointly and severally liable to GoR/RISL.
12. It is expressly agreed by the Members that all the due payments shall be made by the Owner to Lead Bidder only.
13. This Consortium agreement shall be construed and interpreted in accordance with the laws of India and the Courts of Jaipur (Rajasthan) shall have the exclusive jurisdiction in all matters arising there under.

14. It is also hereby agreed that Lead Member shall, on behalf of the Consortium shall submit the Bid and performance Security as specified by owner in the RFP document.
15. It is further agreed that this Consortium Agreement shall be irrevocable and shall continue to be enforceable till the same is discharged by GoR/RISL.
16. This Agreement shall come into force as of the date of signing and shall continue in full force and effect until the complete discharge of all obligations, concerning the carrying out of the Project, which have been taken on by the Parties under the Contract, RFP Document and under this Agreement.
17. Any other terms and conditions not in contradiction to the RFP and above mentioned terms and conditions.
18. Technical Terms for Consortium: It should be noted that consortium partner should not be made with an idea to complete the financial and technical capabilities as required for clearance of PQ Criteria. The consortium if made for execution of civil/ electrical/ fire/ air conditioning/ Sanitary plumbing and other building services, it is necessary that the consortium partner should necessarily execute the work as per agreement, otherwise their consortium agreement will be consider null and void and there bank guarantee deposited same will be forfeited and action will be taken as per Rules. In such condition the consortium firms will be blacklisted for future tendering of the RISL & DoIT&C.

IN WITNESS WHEREOF, the Members to the Consortium agreement have through their authorised representatives executed these presents and affixed common seal of their companies, on the day, month and year first mentioned above.

<p>Common Seal of has been affixed in my/our Lead Member presence pursuant to Board of Director’s resolution dated</p> <p>1) Witness</p> <p>2) Witness</p>	<p>For and on behalf of M/s..... (Lead Bidder)</p> <p>(Signature of authorized representative) Name : Designation:</p>
<p>Common Seal of has been affixed in my/our Second Member presence pursuant to Board of Director’s resolution dated</p> <p>1) Witness</p> <p>2) Witness</p>	<p>For and on behalf of M/s..... (Second member)</p> <p>(Signature of authorized representative) Name : Designation:</p>

ANNEXURE-17: FORMAT FOR MANPOWER OF PROJECT FOR PRE-QUALIFICATION EXPERIENCE

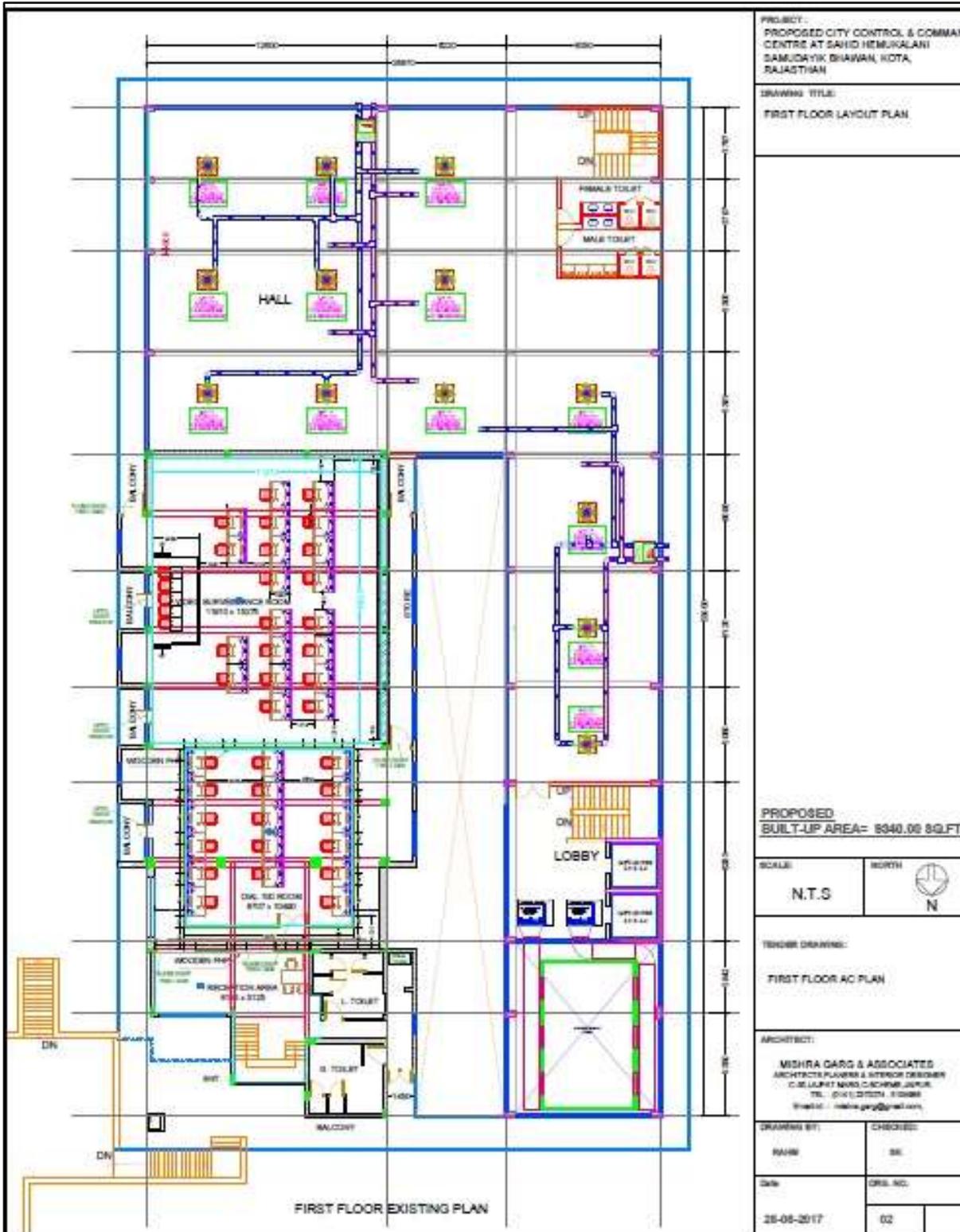
{To be submitted by the bidder only on his Letter Head duly signed by Auth. Sign. & HR Head}

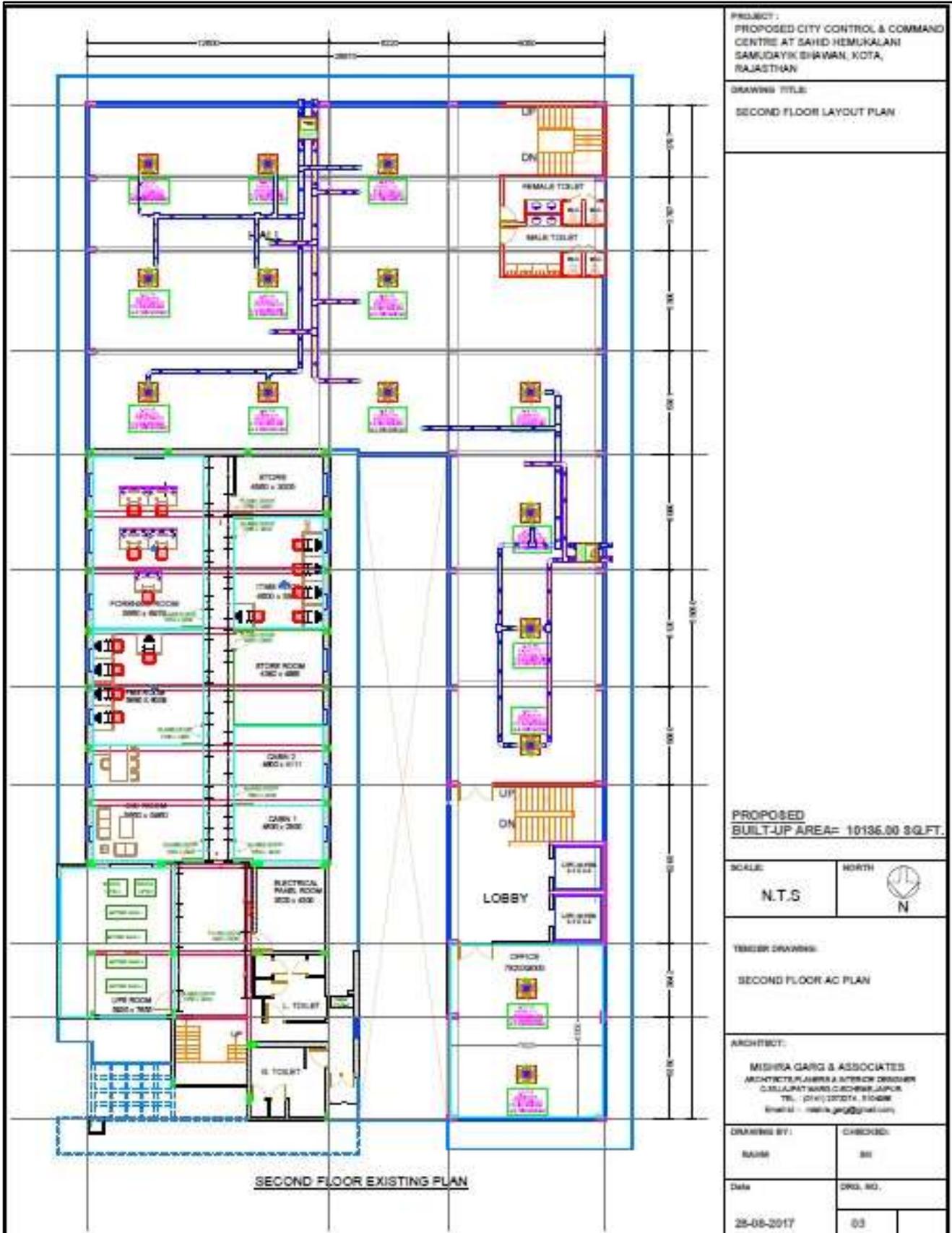
S. No.	Details	Civil	Electrical	HVAC	Building Services
1.	Person Name				
2.	Work Experience				
3.	Position held in Firm (Since)				
4.	Mobile Number				
5.	Email ID				
6.	Age				
7.	Educational Qualification				
8.	Certification, If any				
Date:					

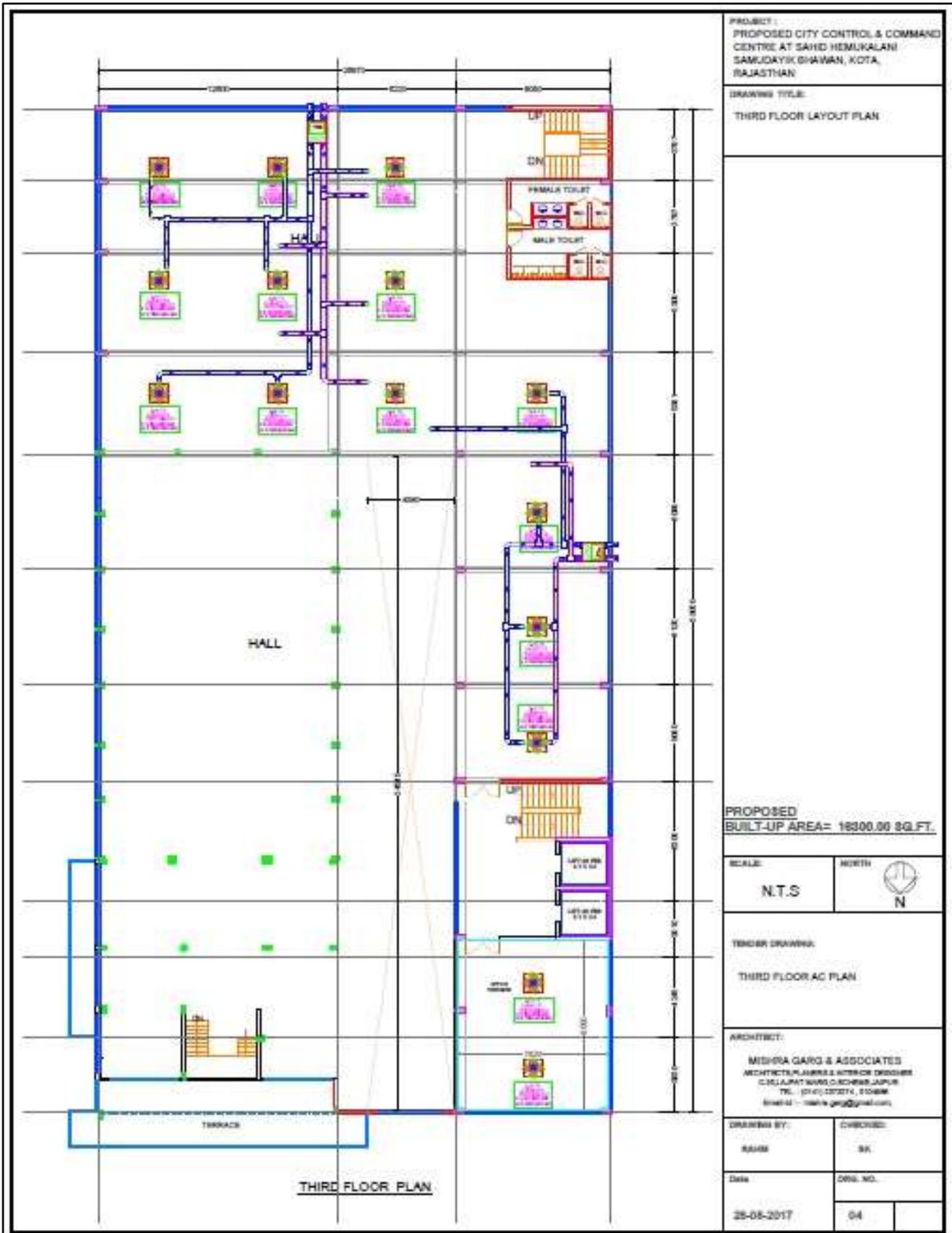
ANNEXURE-18: INDICATIVE DRAWINGS

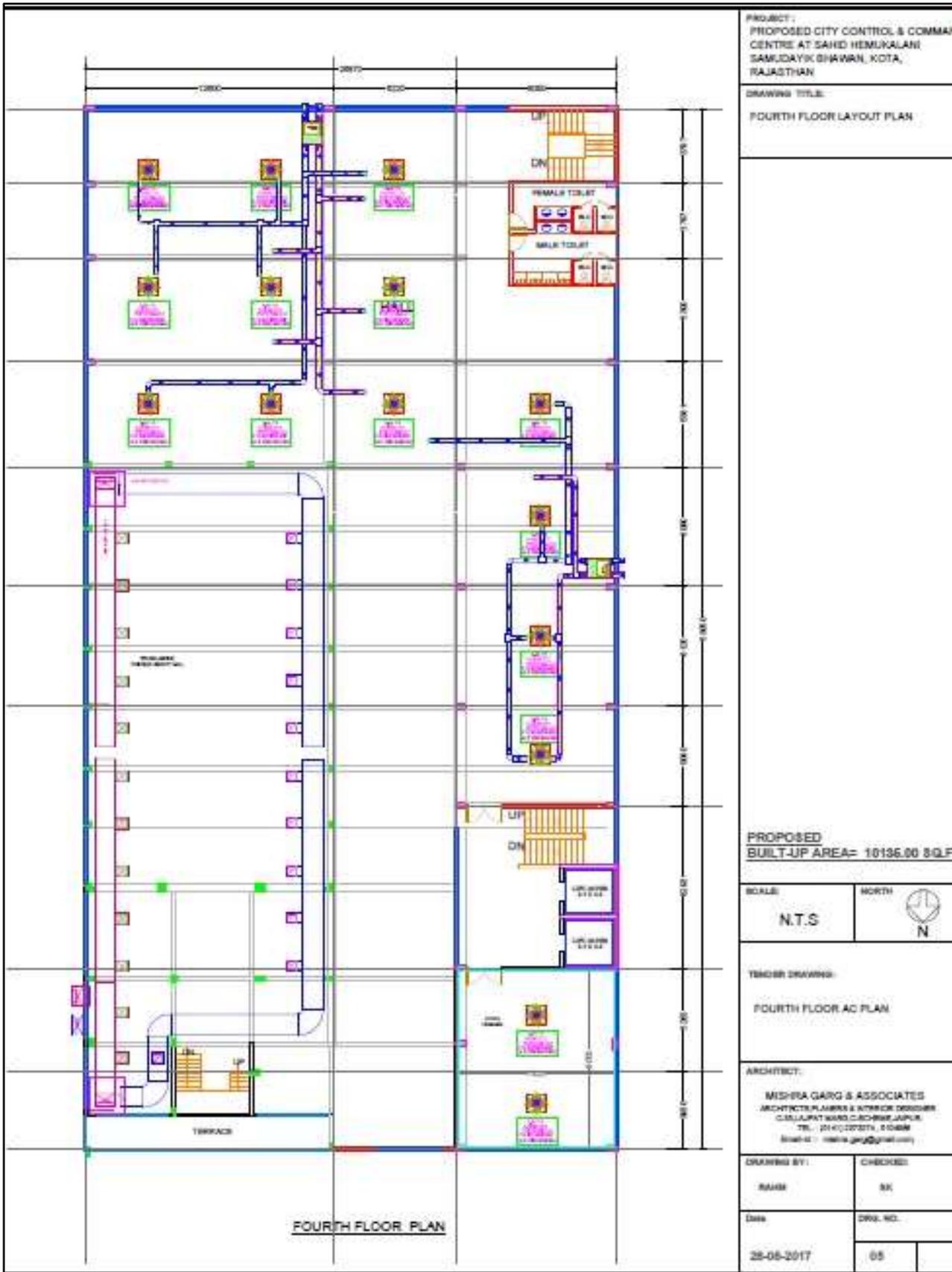
The indicative existing and proposed drawings are available as Annexure to this RFP in a separate file having “pdf” format and is available on website <http://eproc.rajasthan.gov.in>, <http://risl.rajasthan.gov.in> and <http://www.doitc.rajasthan.gov.in/> for various works to be executed. The building is comprising of Five Floors, but at present only 3 floors are to be constructed.

AC Drawings









PROJECT:
PROPOSED CITY CONTROL & COMMAND
CENTRE AT SAHIB HEMUKALANI
SAMUDAYIK BHAWAN, KOTA,
RAJASTHAN

DRAWING TITLE:
FOURTH FLOOR LAYOUT PLAN

PROPOSED
BUILT-UP AREA= 10136.00 SQ.F

SCALE: N.T.S	NORTH 
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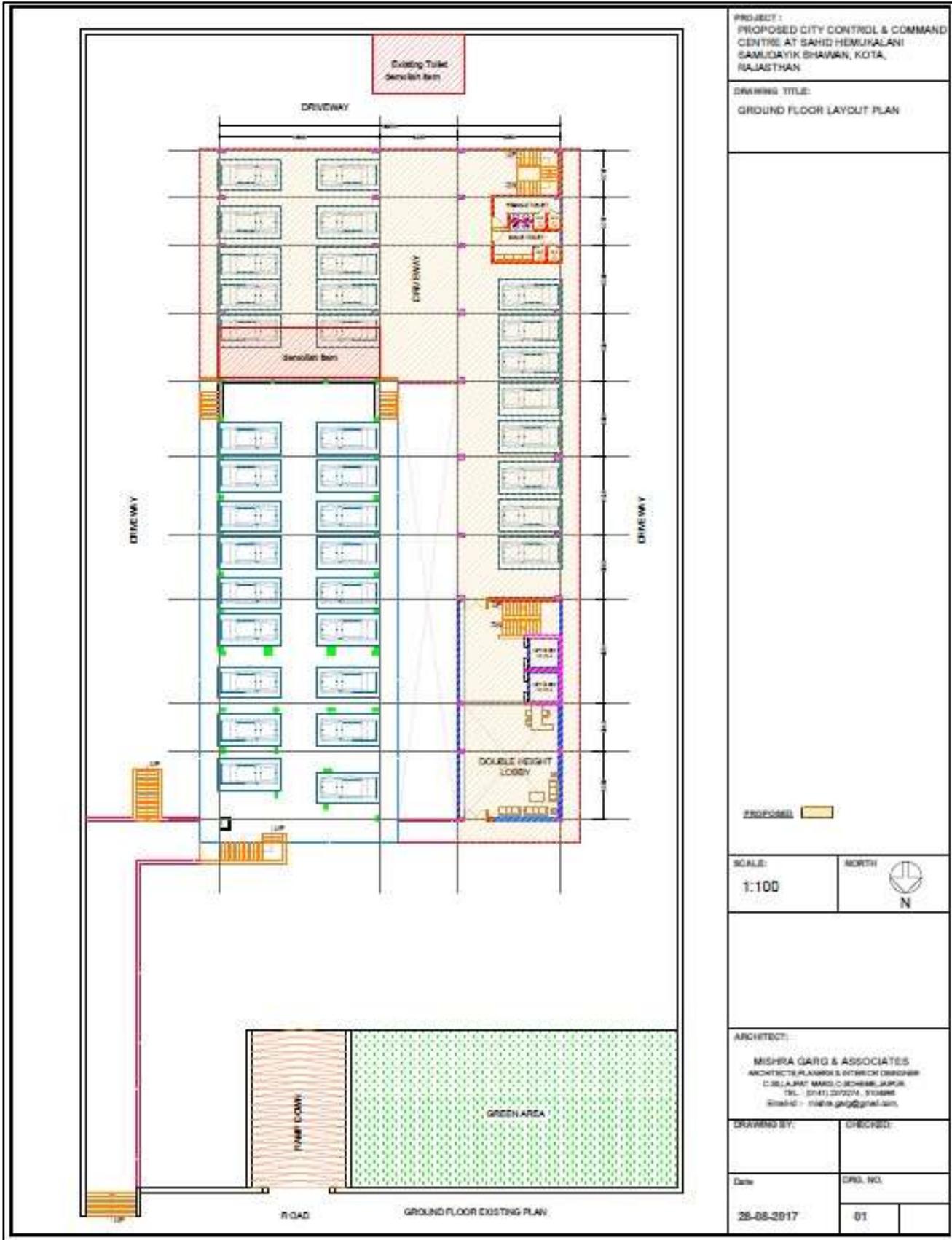
TENDER DRAWING:
FOURTH FLOOR AC PLAN

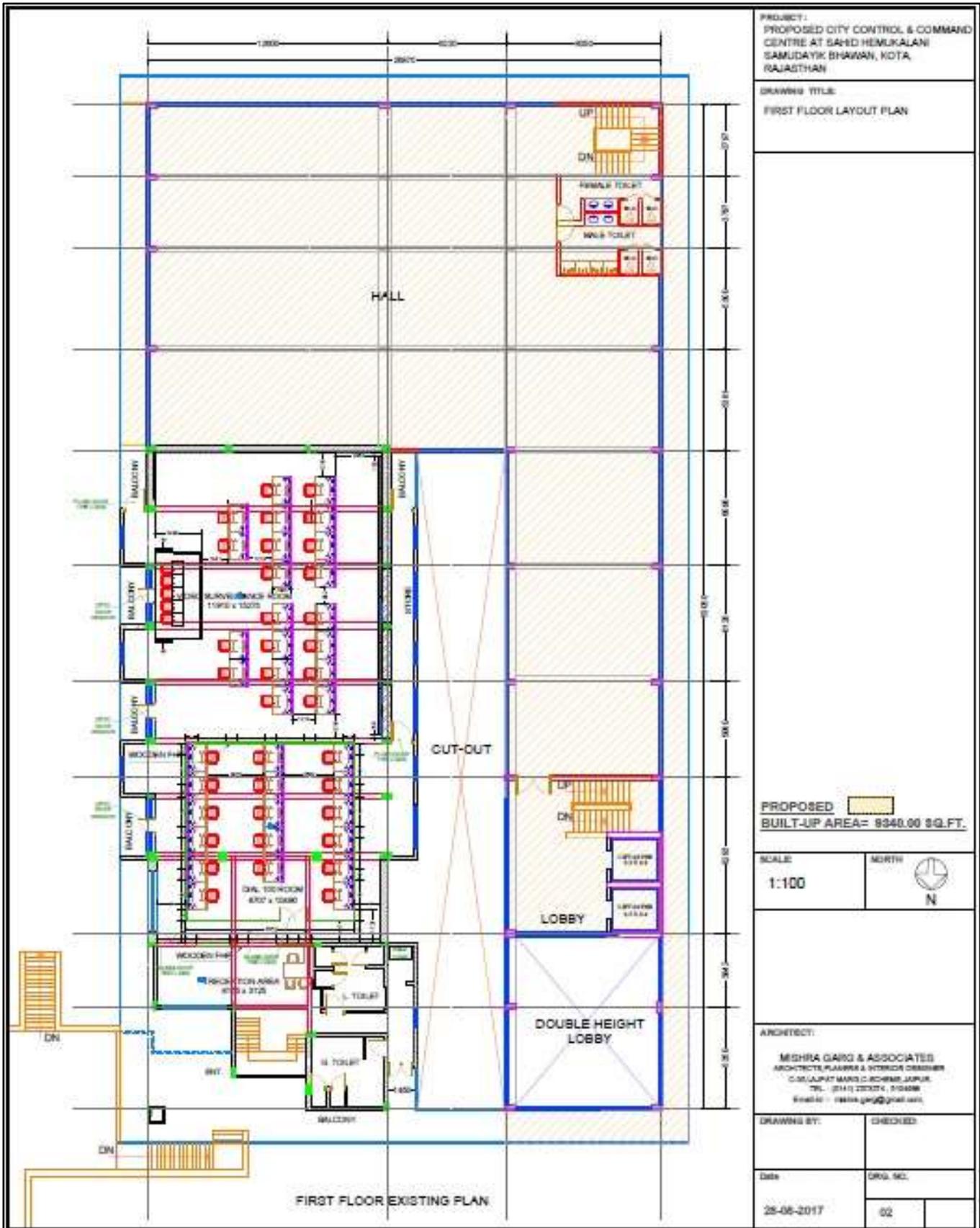
ARCHITECT:
MISHRA GARG & ASSOCIATES
ARCHITECTS, PLANNERS & INTERIOR DESIGNER
C-15, RAJPUT BAZAR, COCHIN, KERALA
TEL. : 011-43322074, 011-43322075
Email-ID : mishra.garg@rediffmail.com

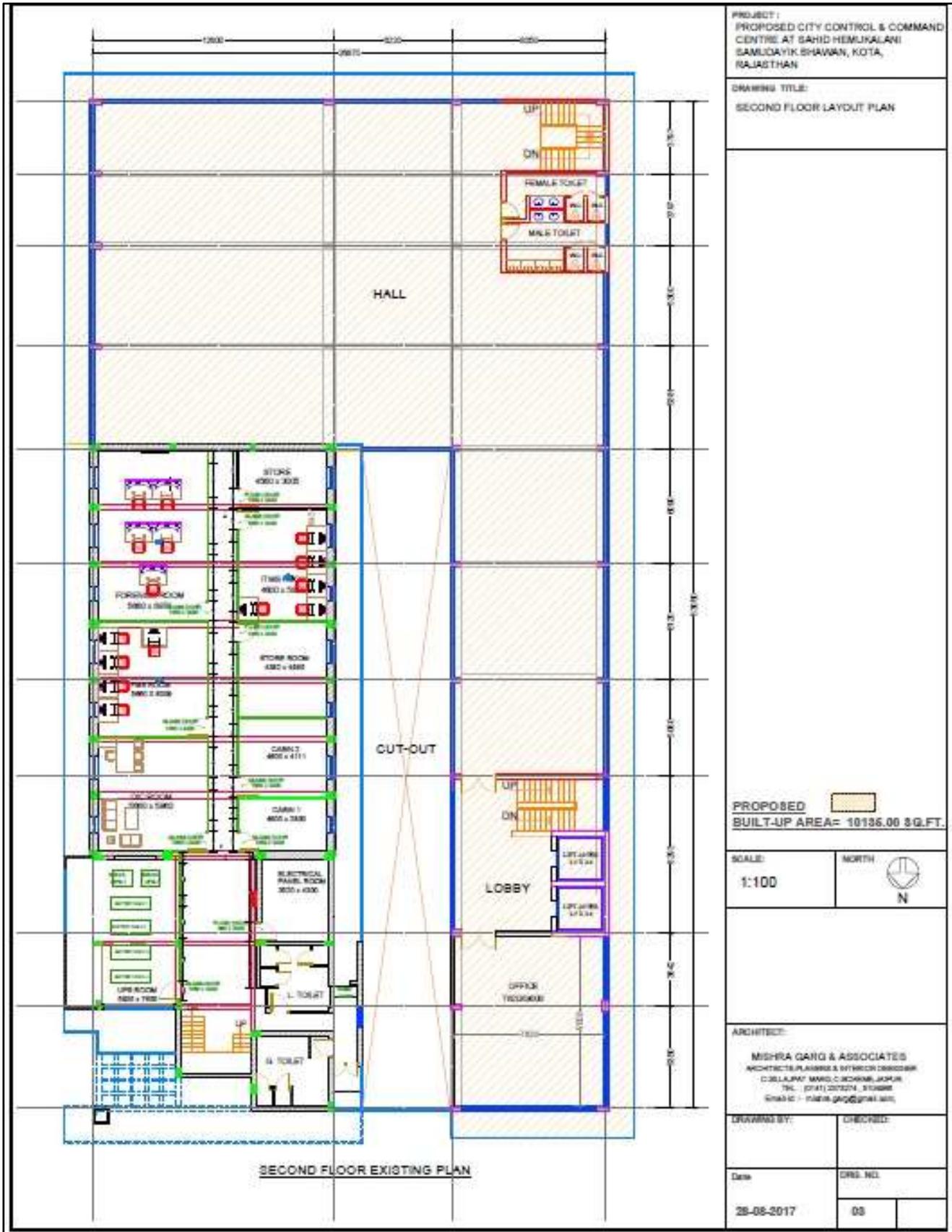
DRAWING BY: RASHI	CHECKED: SK
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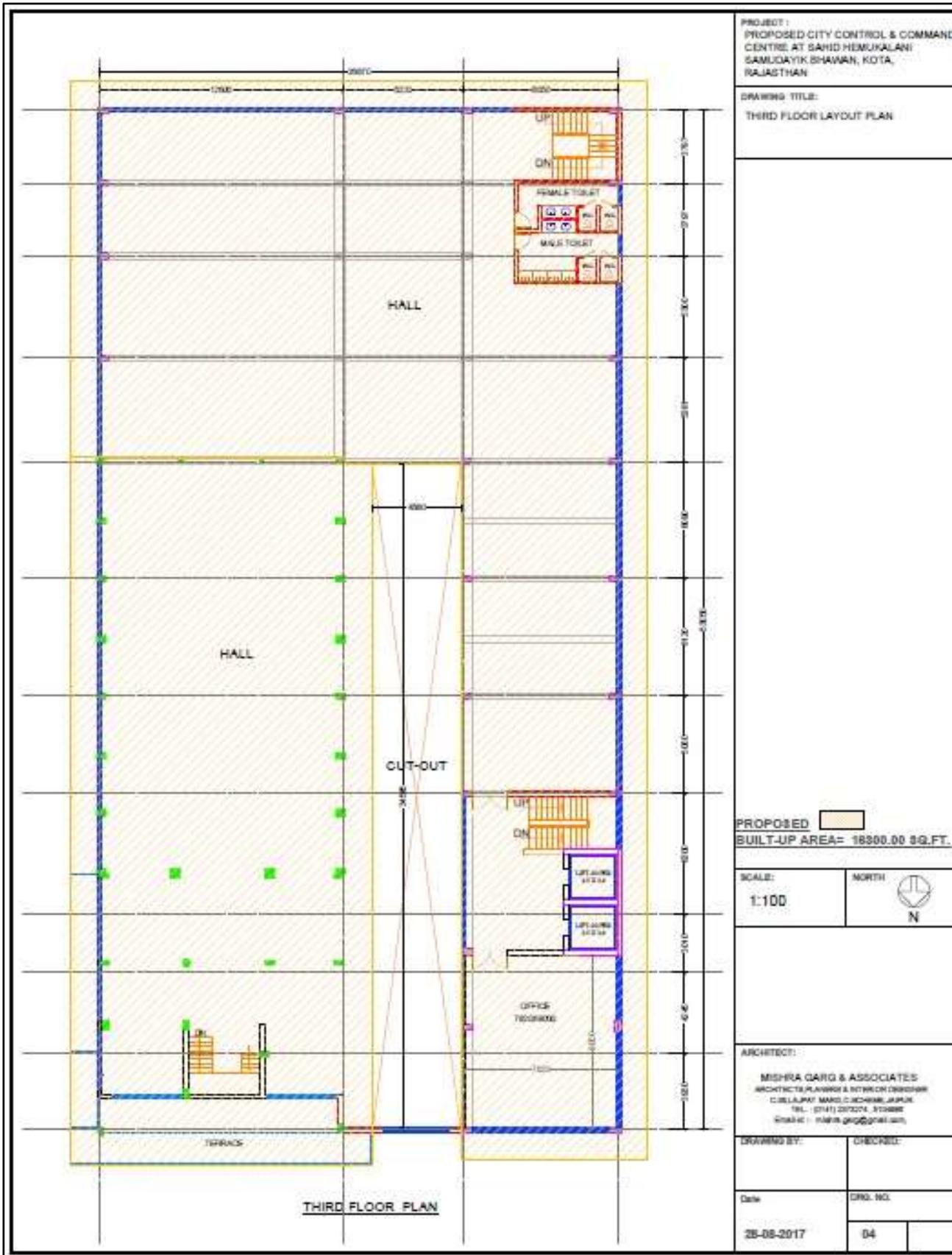
Date: 28-05-2017	DRG. NO.: 05
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Civil Drawings



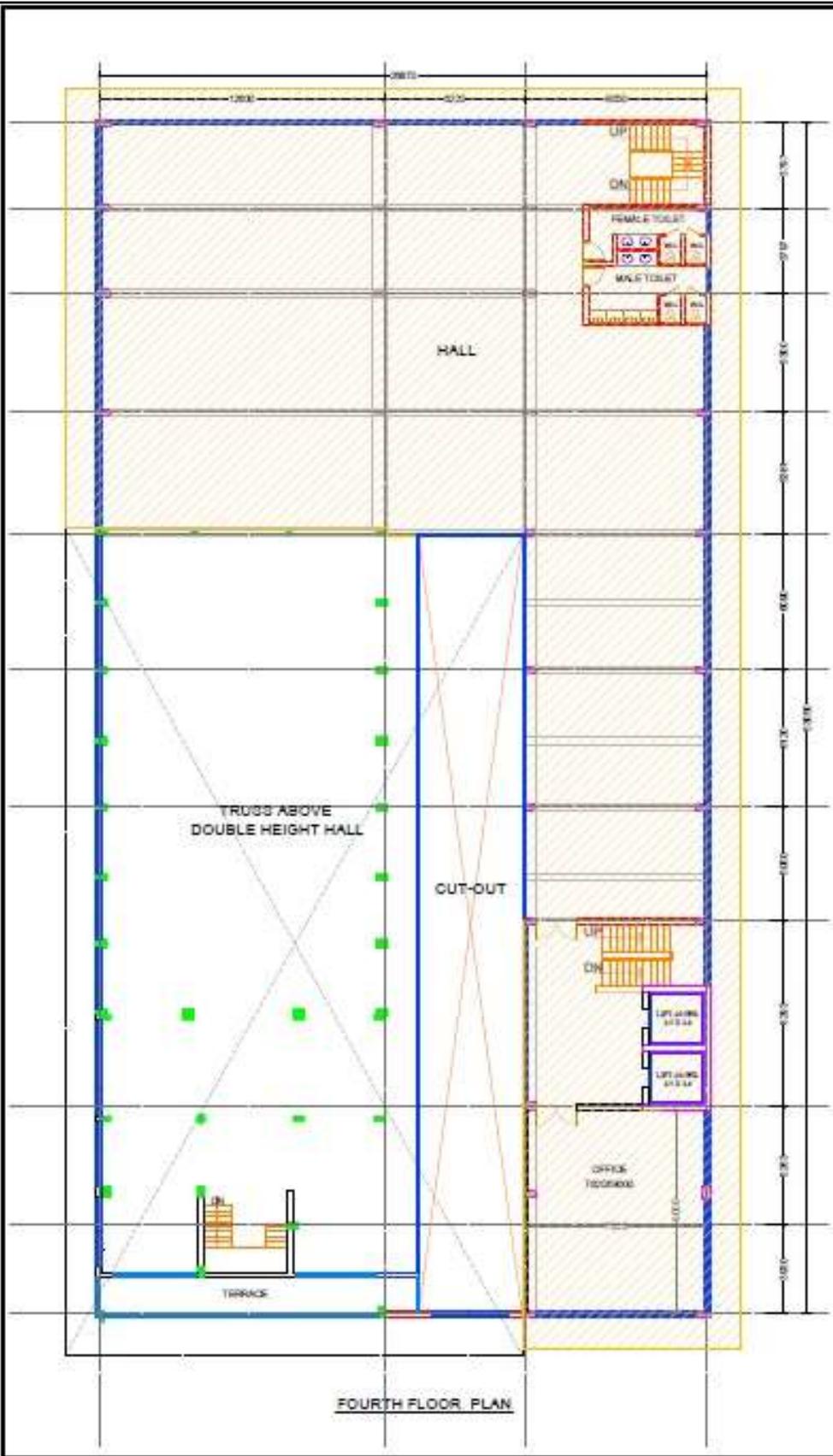






PROJECT :
 PROPOSED CITY CONTROL & COMMAND
 CENTRE AT SAHIB HEMUKALANI
 SAMUDAYIK BHAWAN, KOTA,
 RAJASTHAN

DRAWING TITLE:
 FOURTH FLOOR LAYOUT PLAN



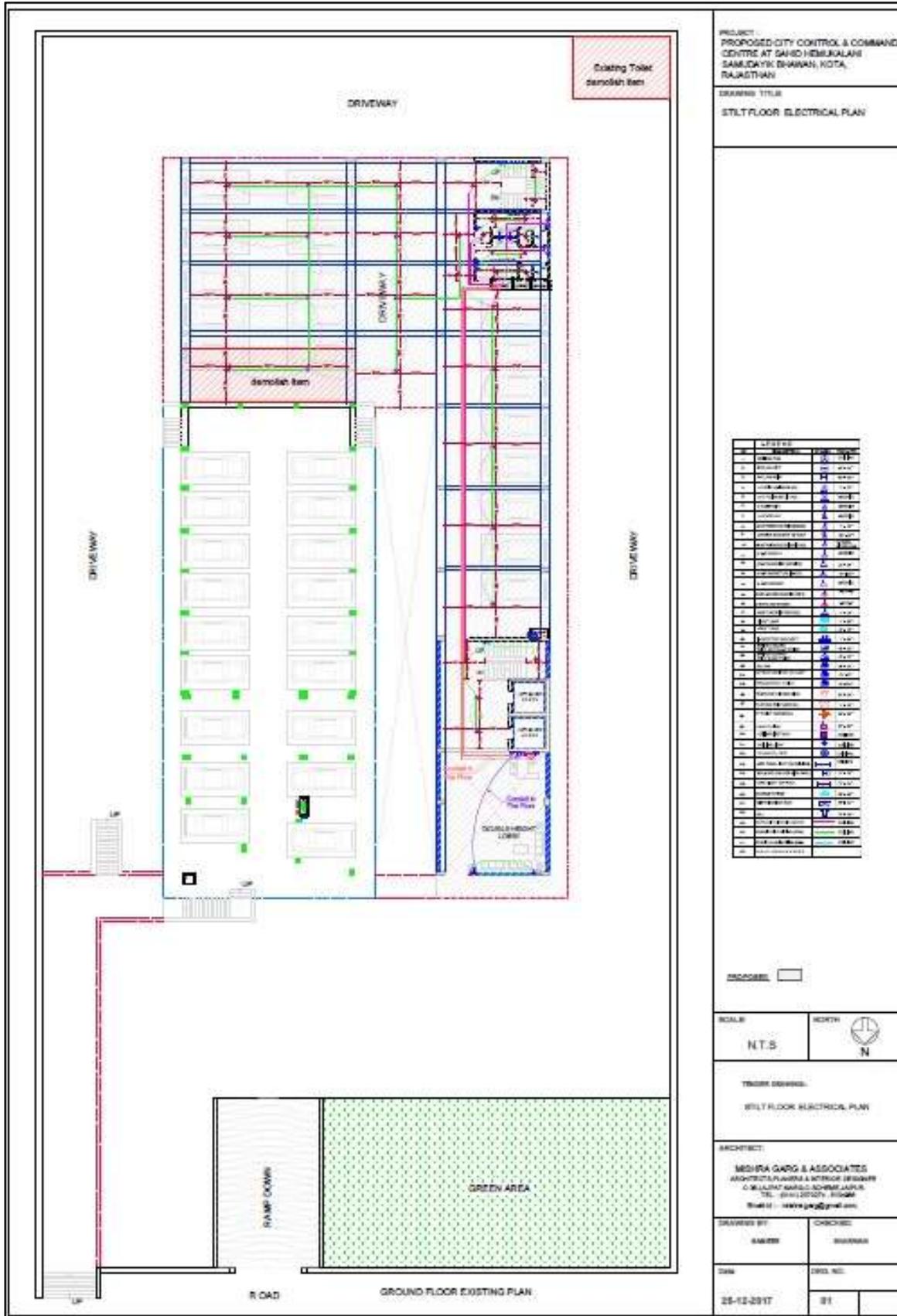
FOURTH FLOOR PLAN

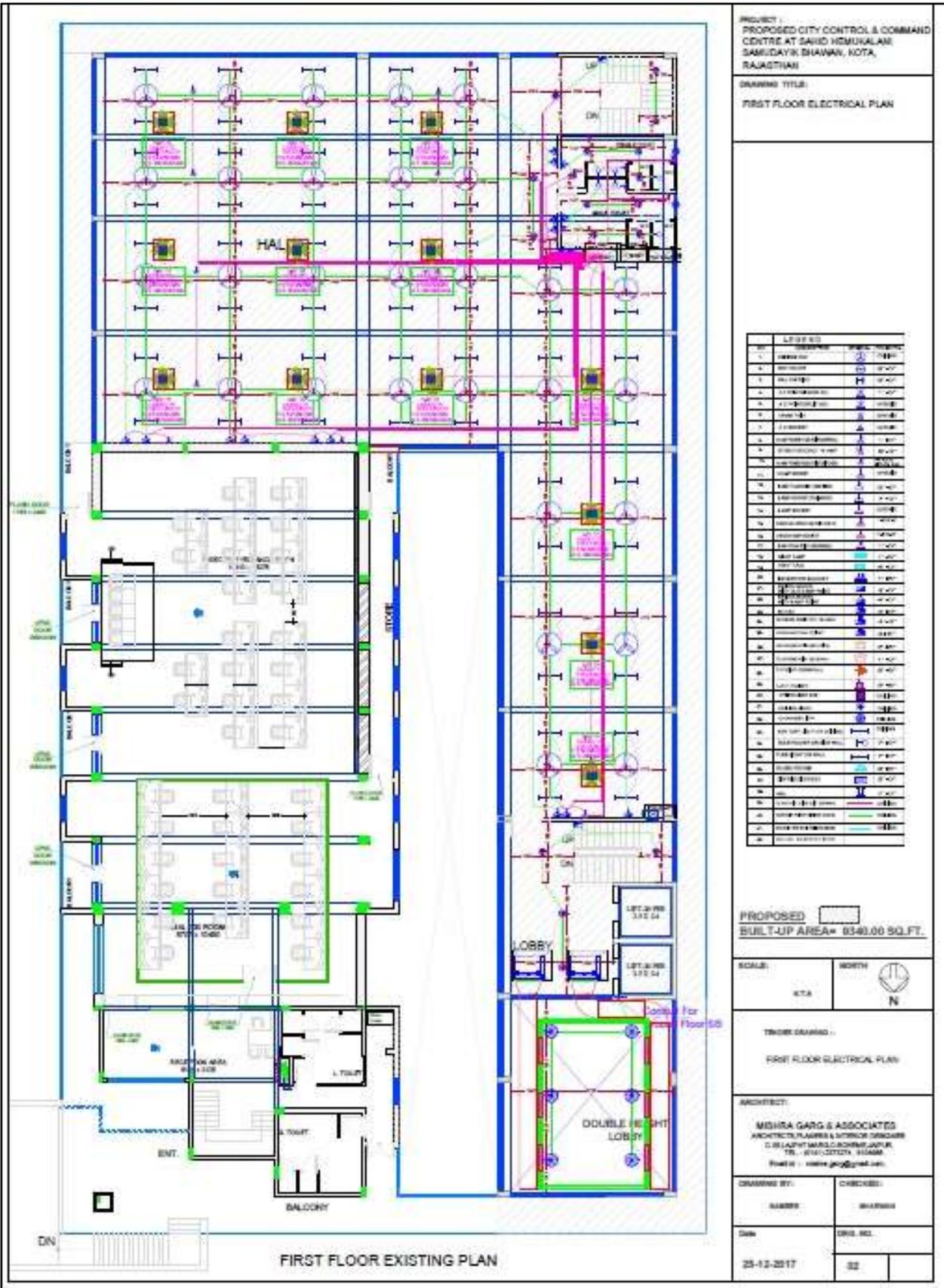
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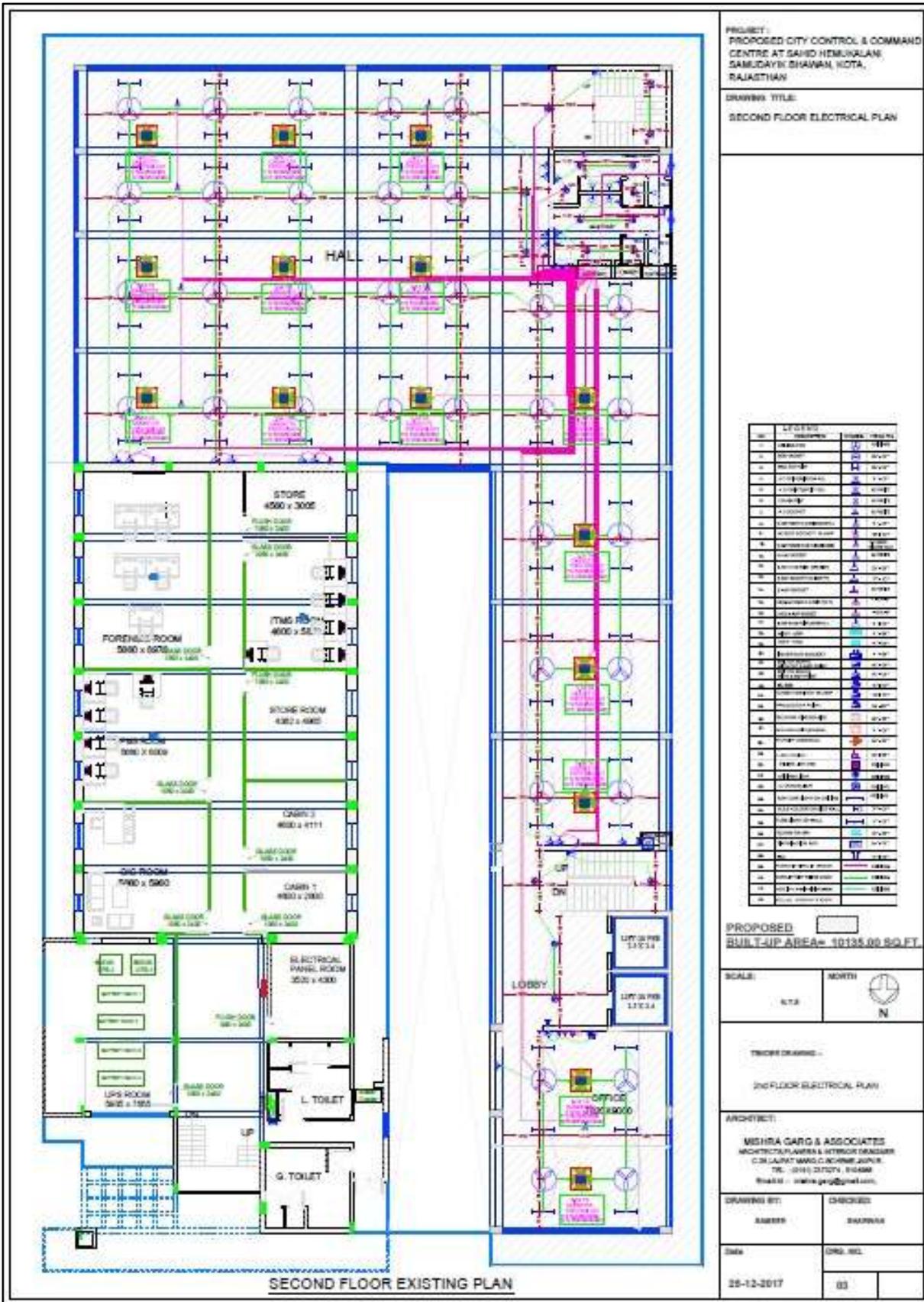
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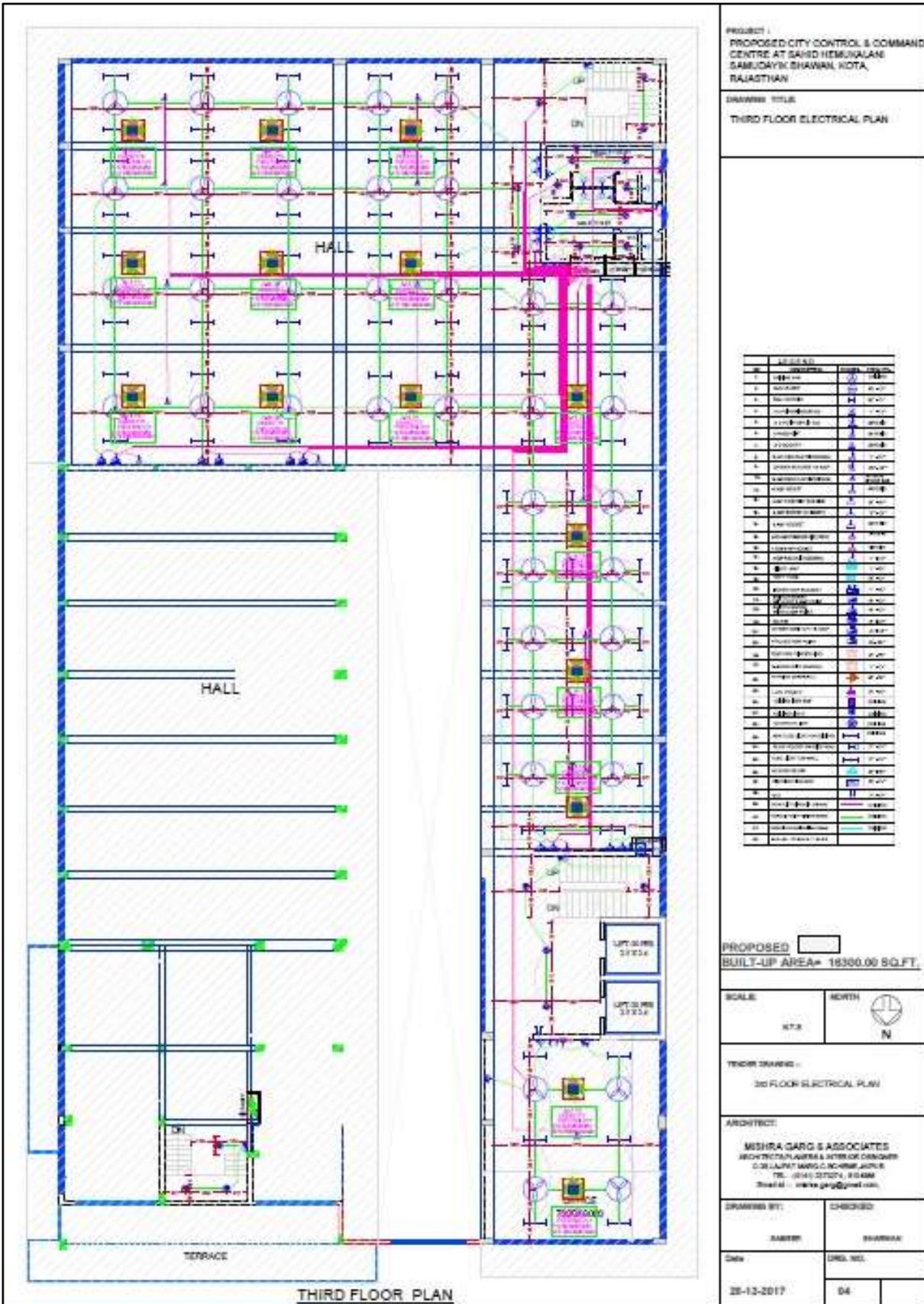
ARCHITECT:
 MISHRA GARG & ASSOCIATES
 ARCHITECTS, PLANNERS & INTERIOR DESIGNERS
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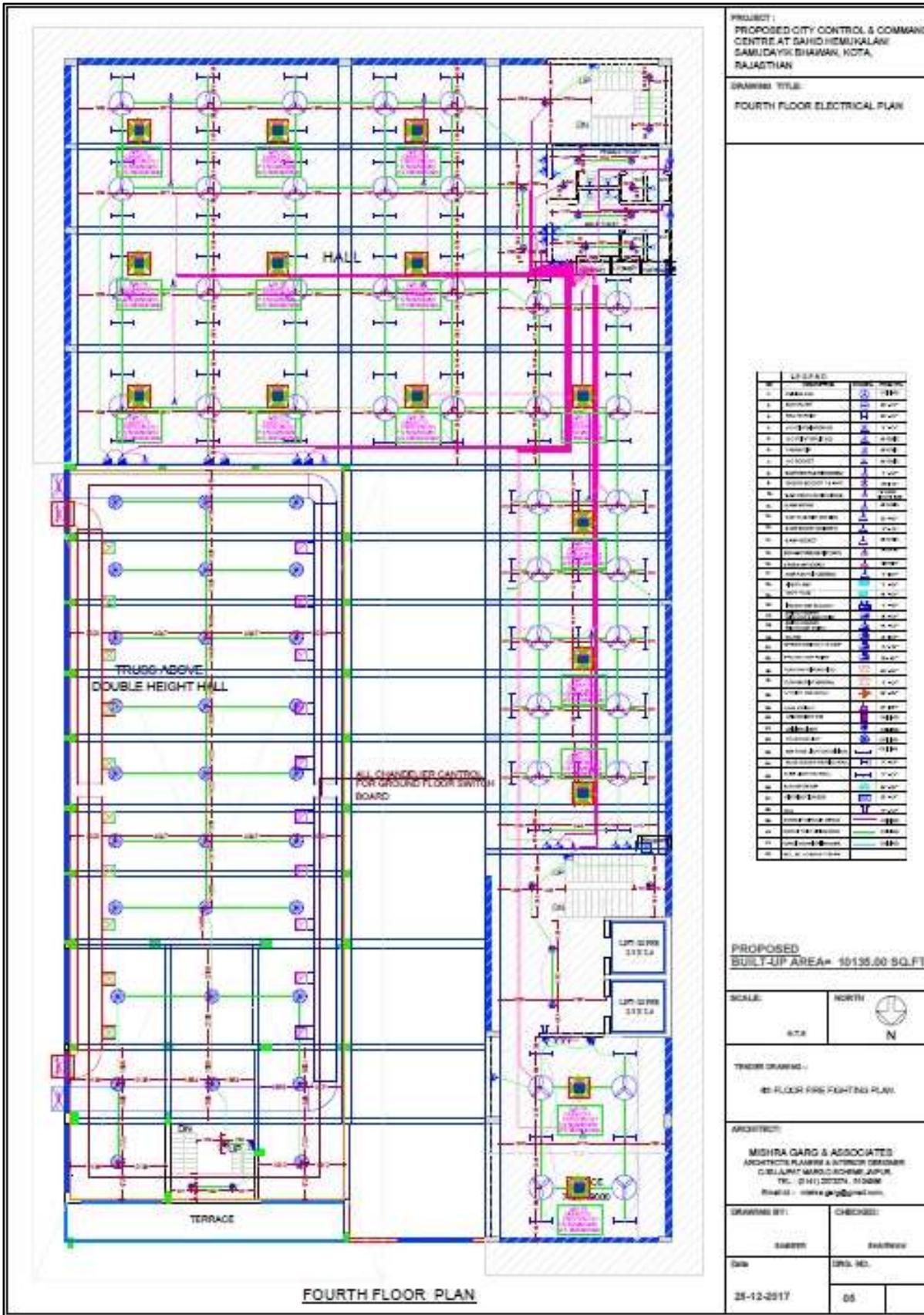
Electrical Drawings











PROJECT :
 PROPOSED CITY CONTROL & COMMAND
 CENTRE AT SAHIB NEMUKALAN
 SAMUDAYIK BIHAR, KOTA,
 RAJASTHAN

DRAWING TITLE:
 FOURTH FLOOR ELECTRICAL PLAN

NO.	DESCRIPTION	QTY	UNIT
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98	SWITCH	1	NO
99	SWITCH	1	NO
100	SWITCH	1	NO

PROPOSED
 BUILT-UP AREA= 10135.00 SQ.FT.

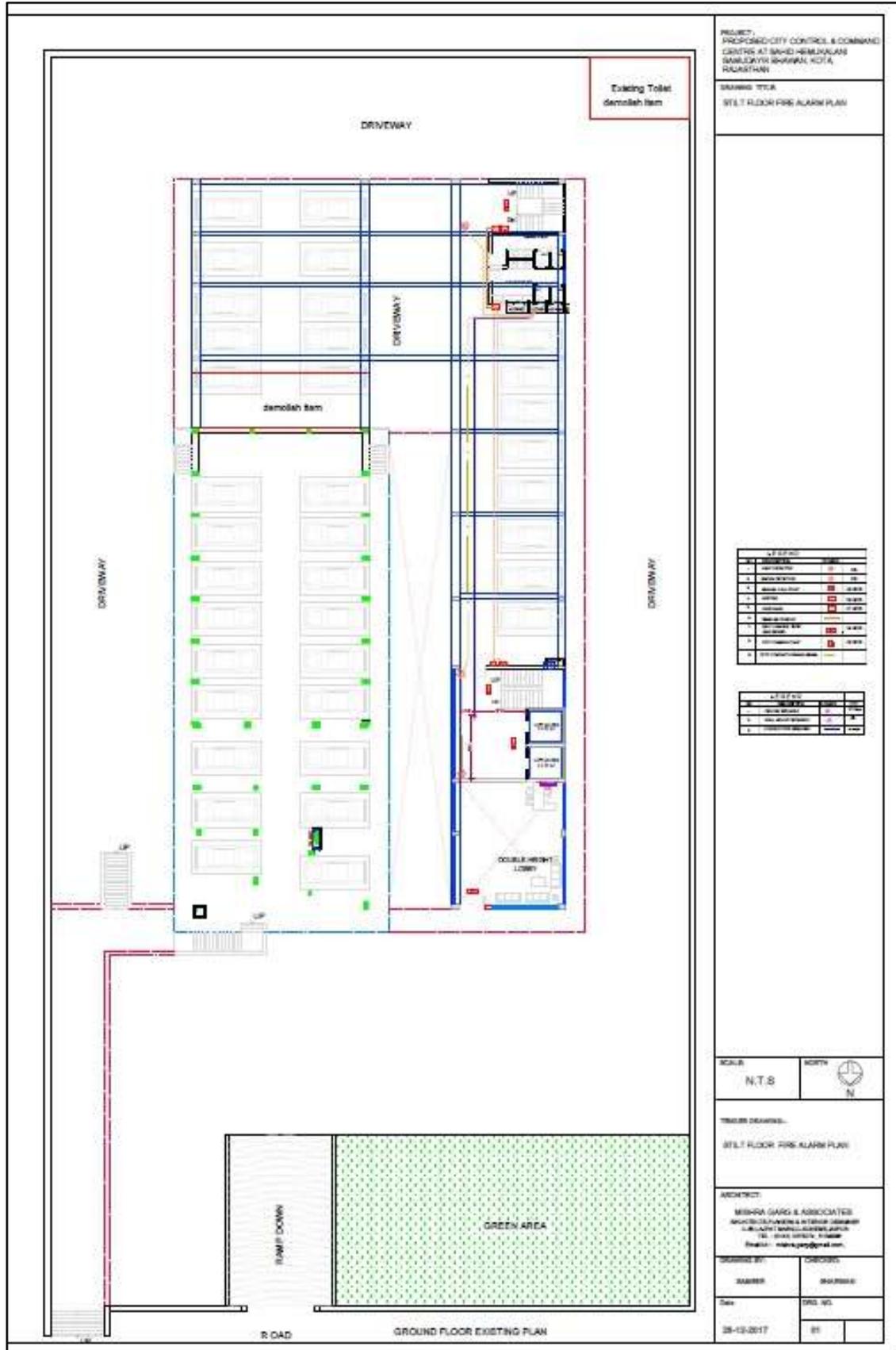
SCALE: NORTH
 KOTA

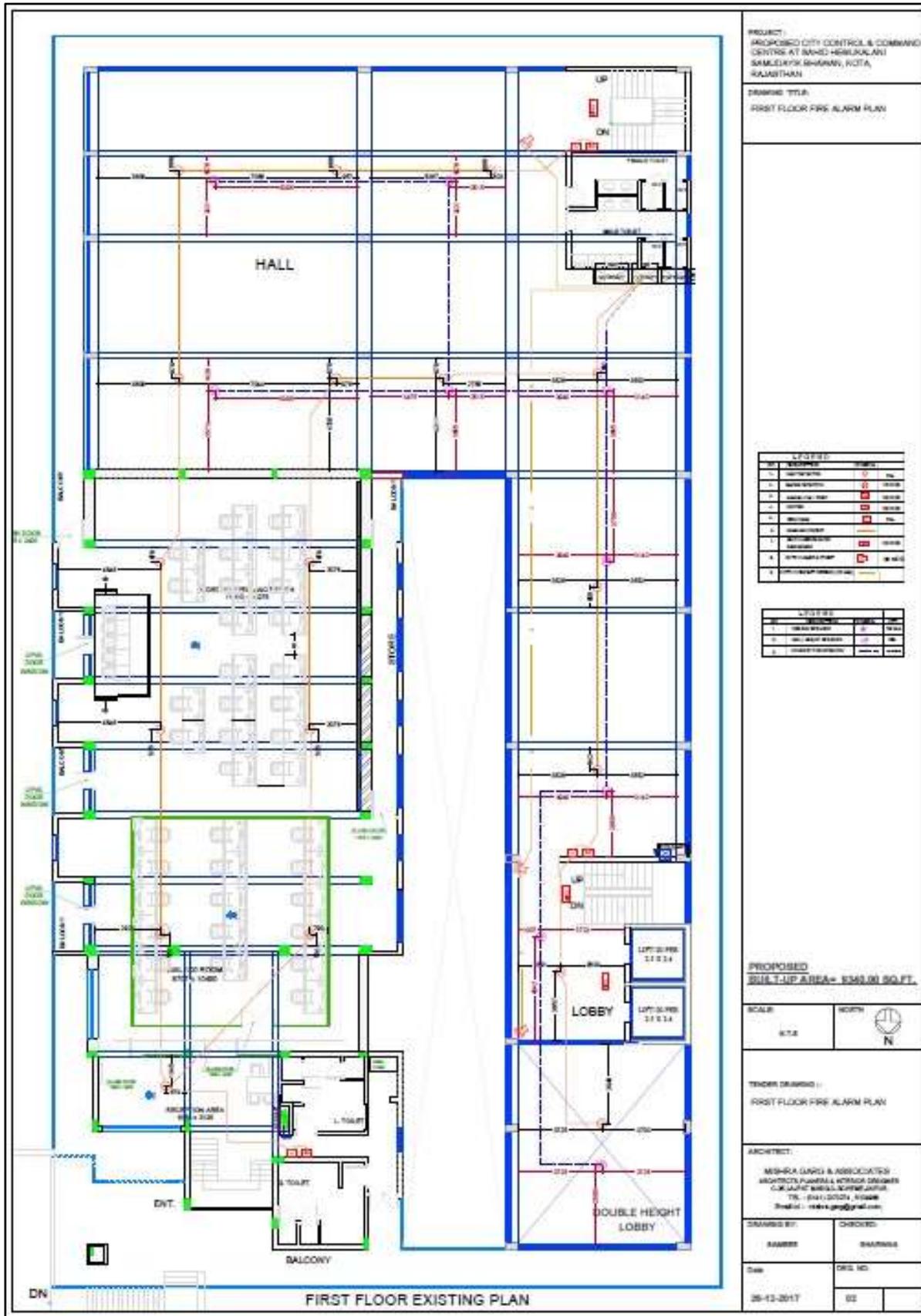
THIS DRAWING :
 4TH FLOOR FIRE FIGHTING PLAN

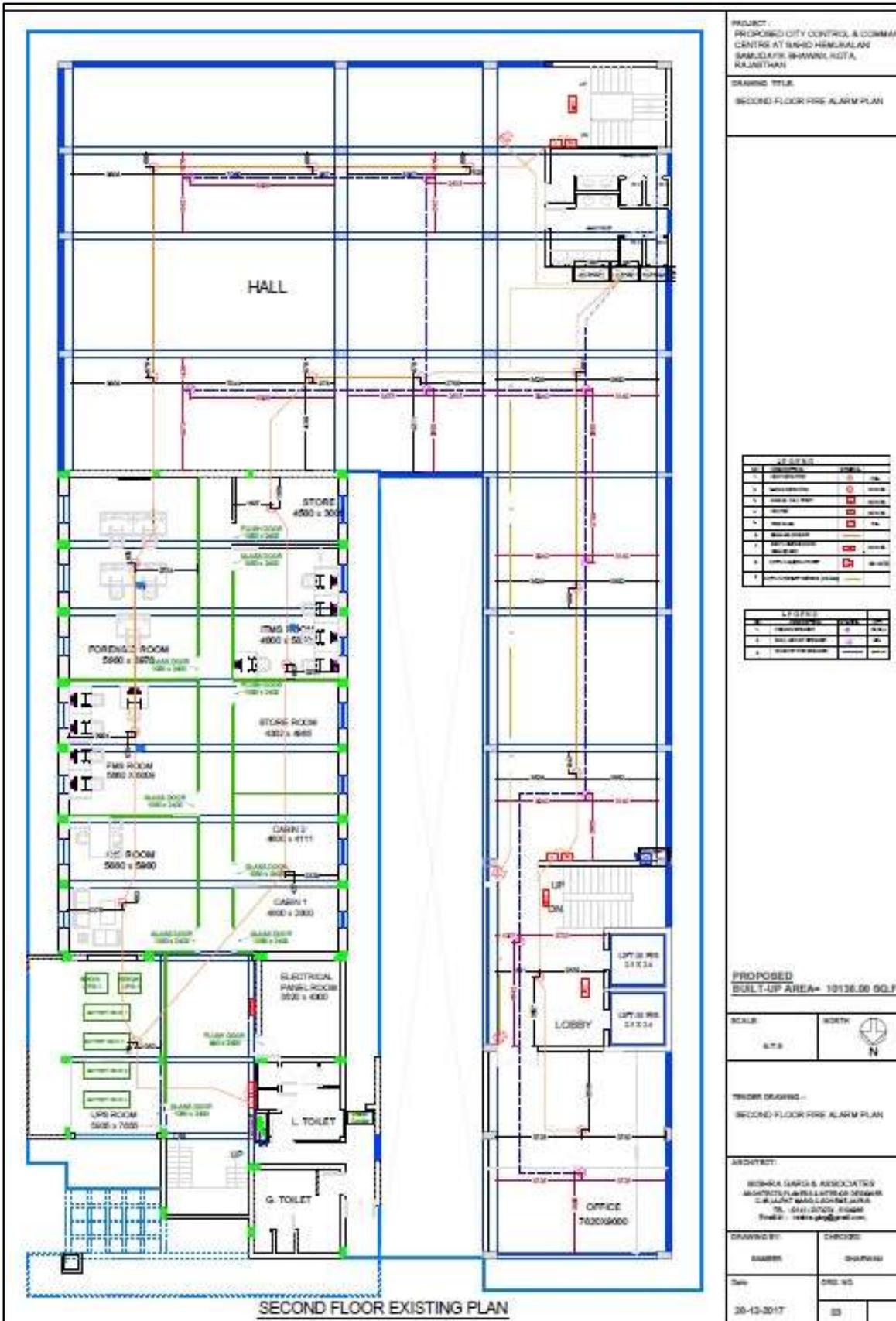
ARCHITECT:
 MISHRA GARG & ASSOCIATES
 ARCHITECTS PLANNERS & INTERIOR DESIGNERS
 C-10, LAXMI NAGAR, CHANDIGARH, INDIA
 TEL. : 011-263701, 263698
 Email id : mishra.garg@gmail.com

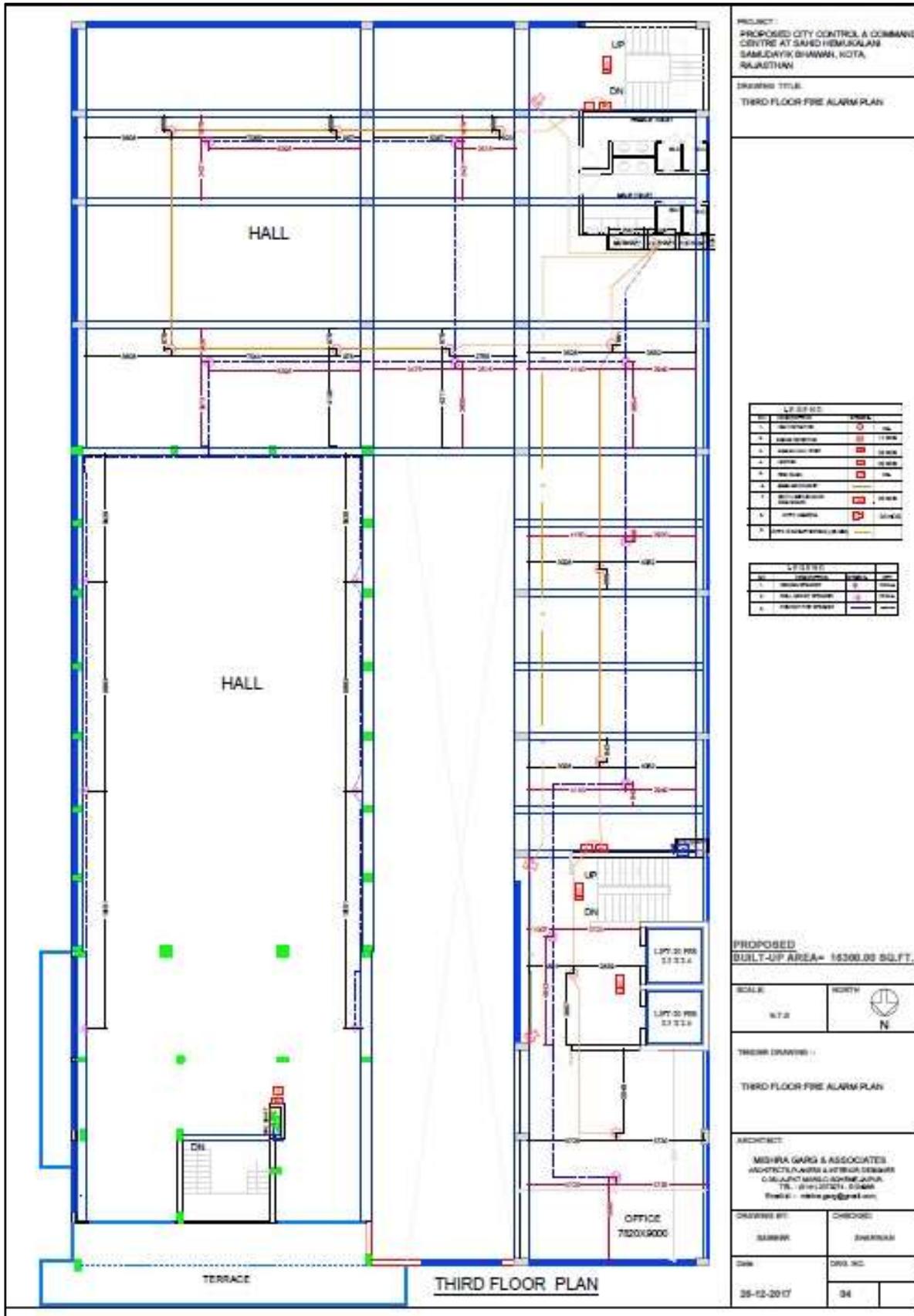
DRAWING BY:	CHECKED:
DATE:	DRG. NO.:
25-12-2017	05

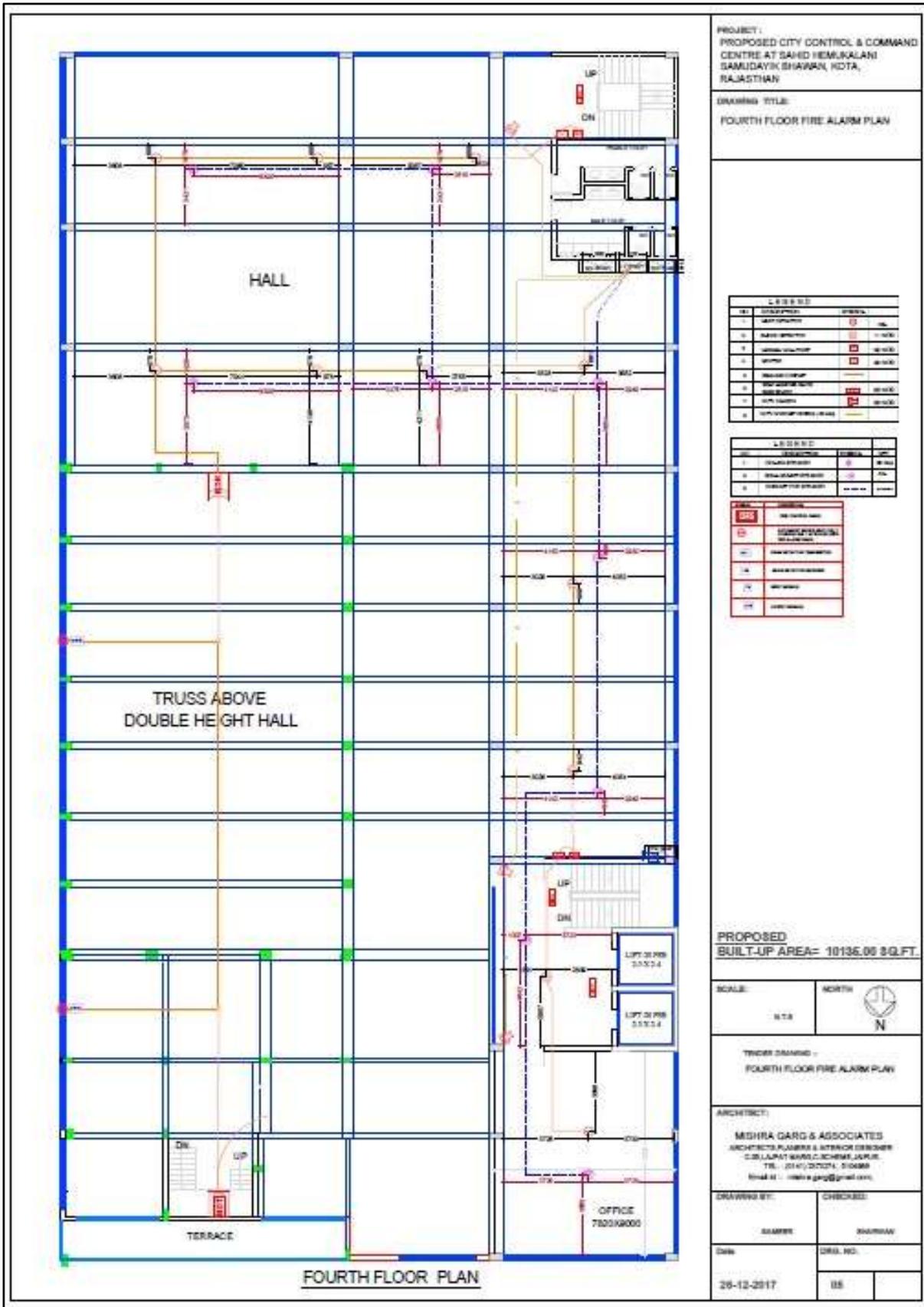
Fire Detection Drawings



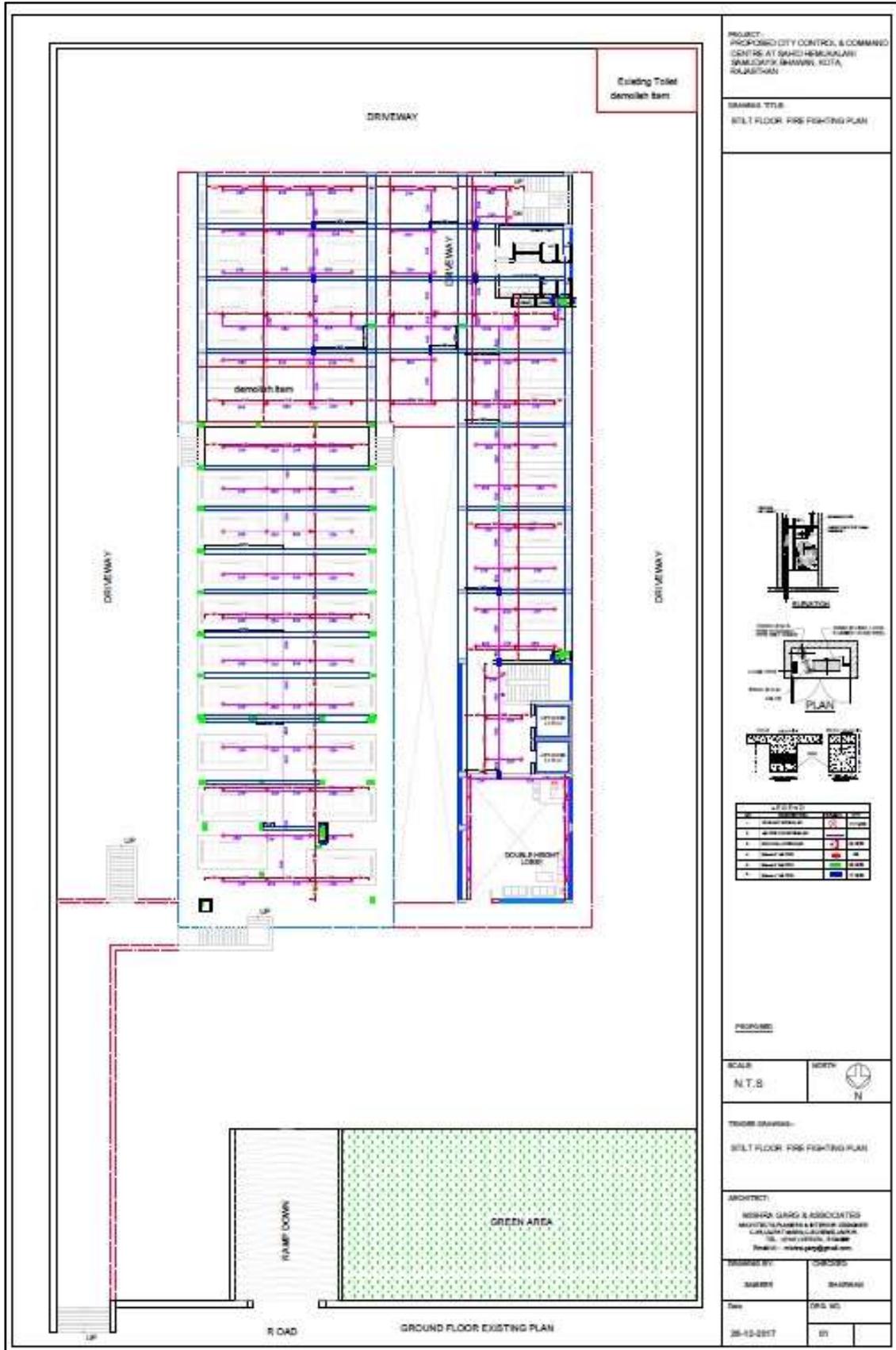


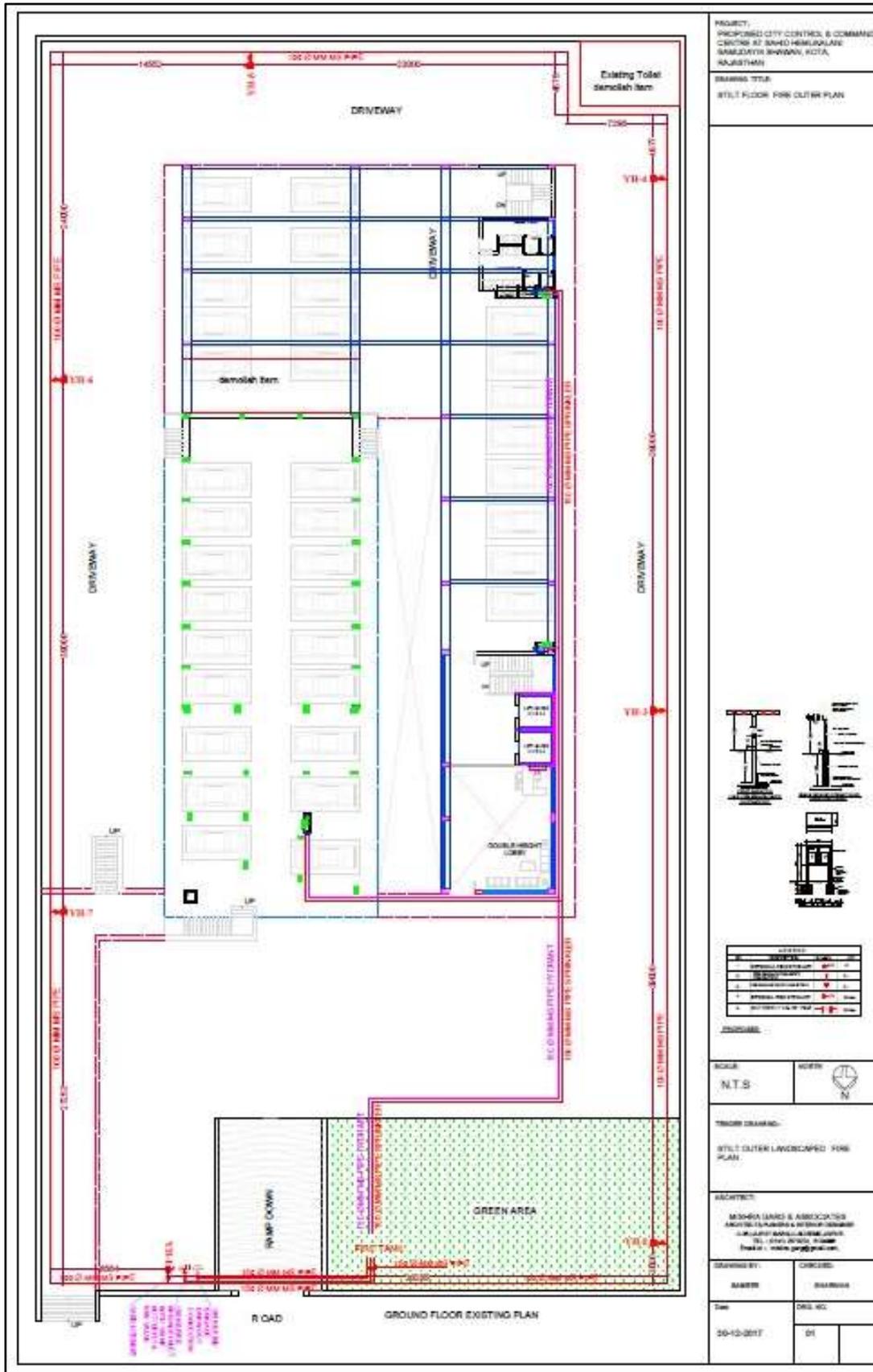


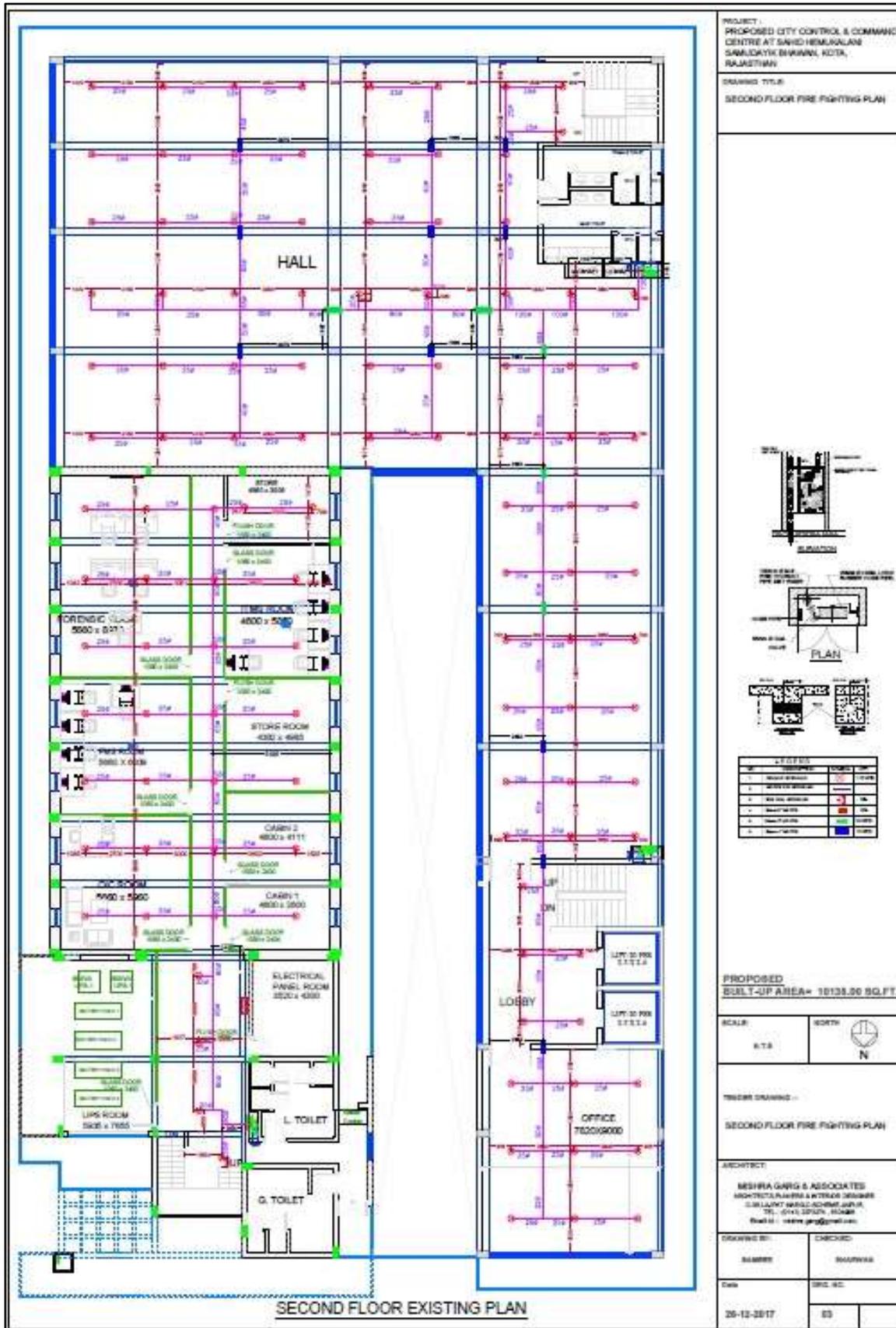


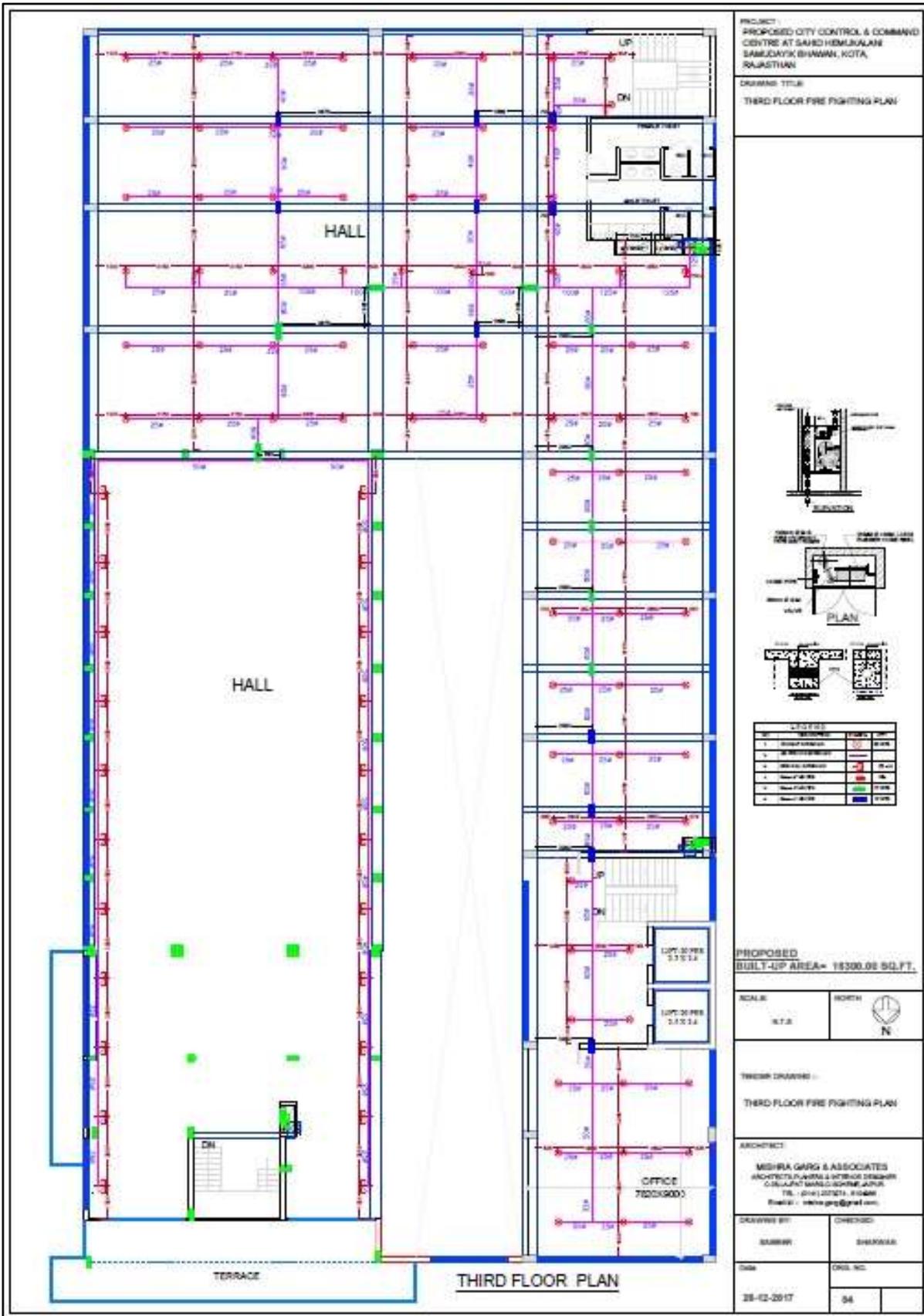


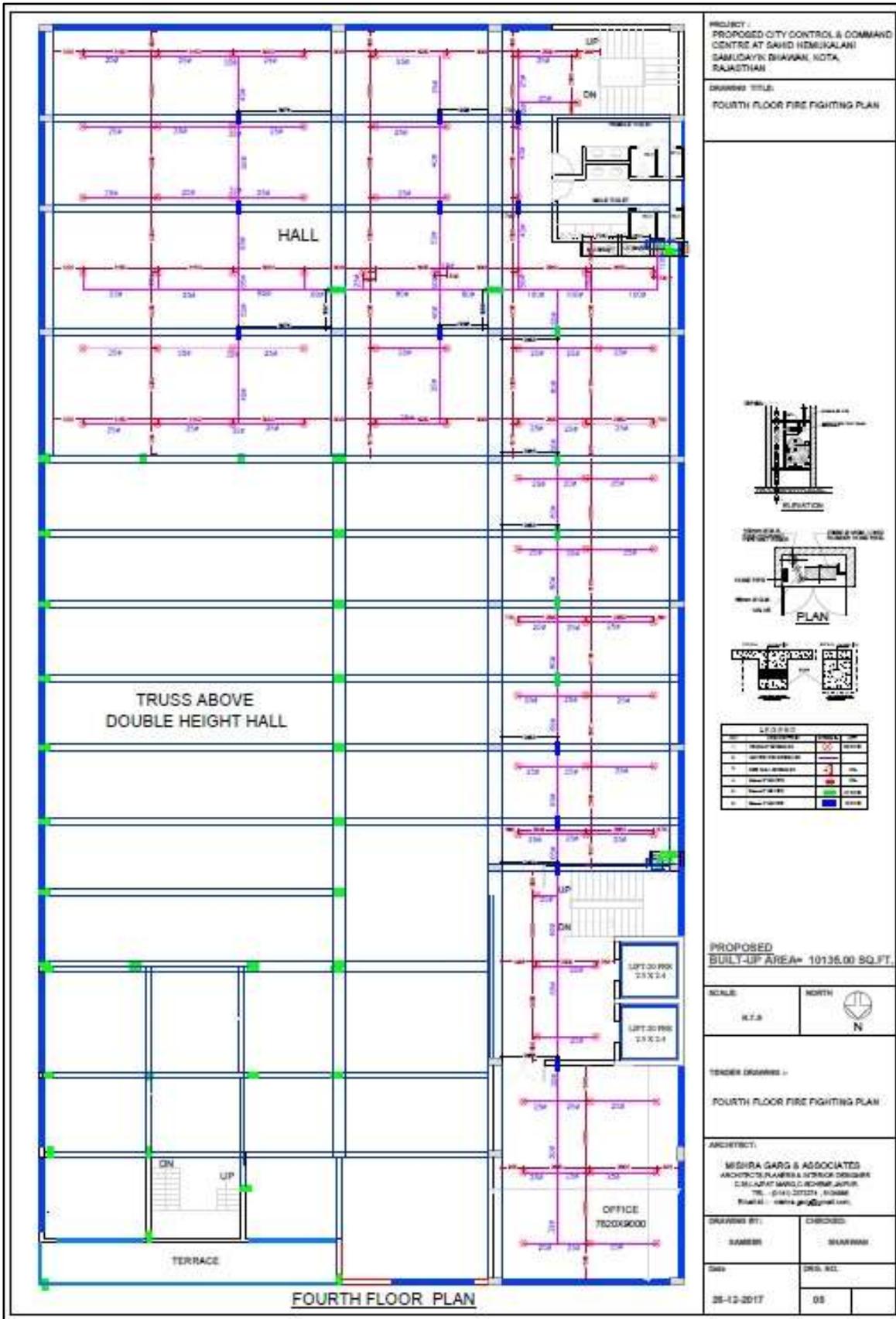
Fire Suppression Drawings



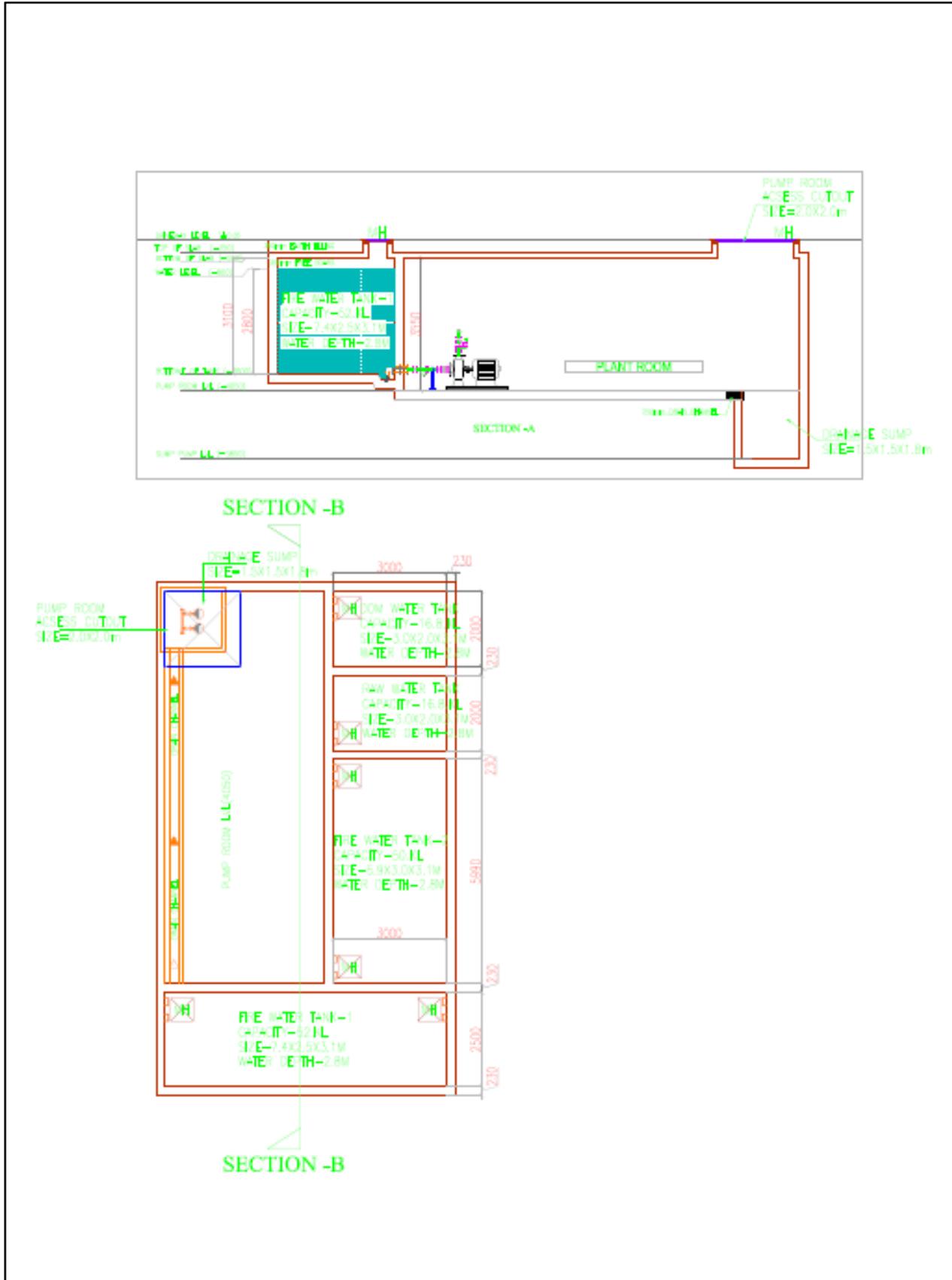


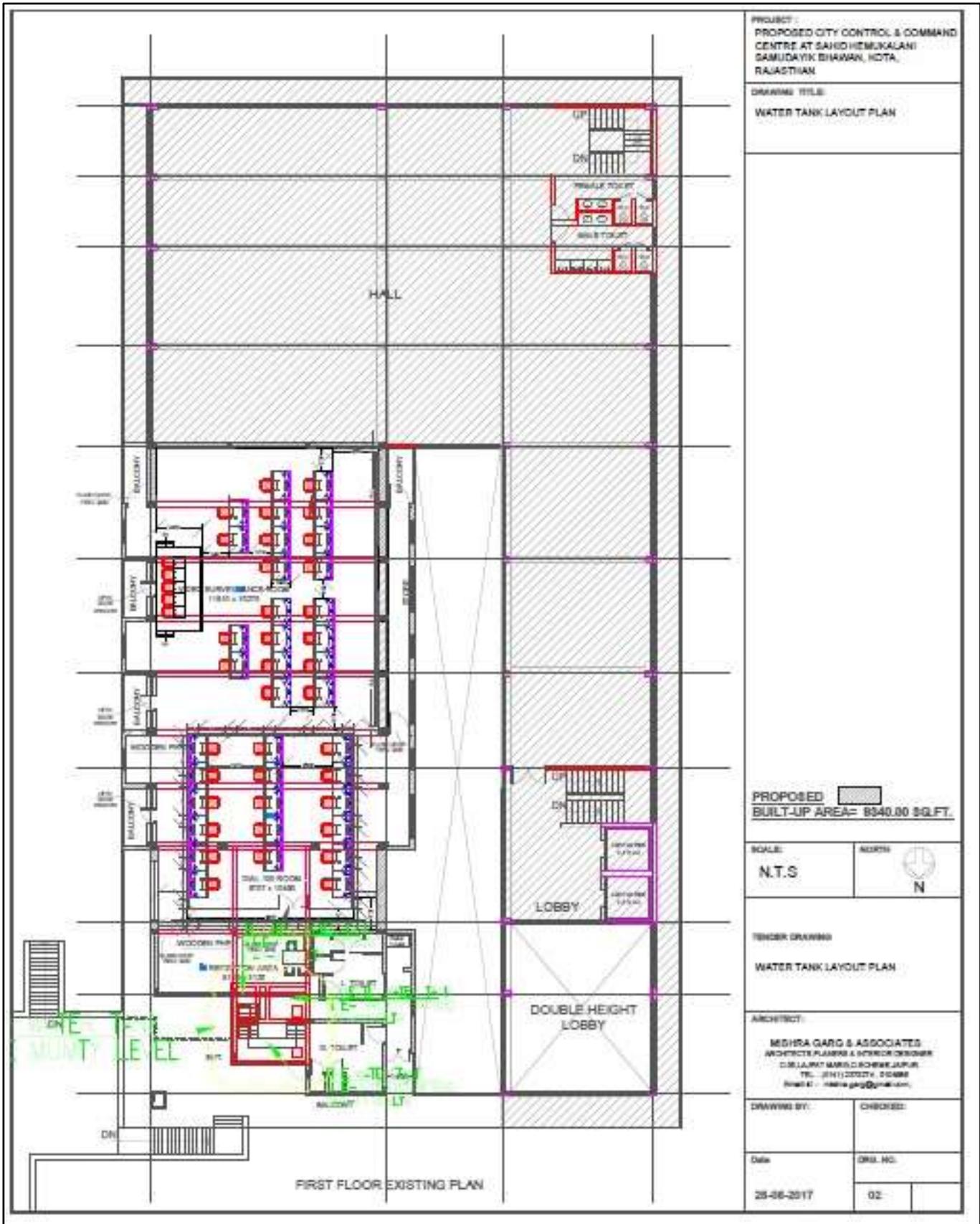


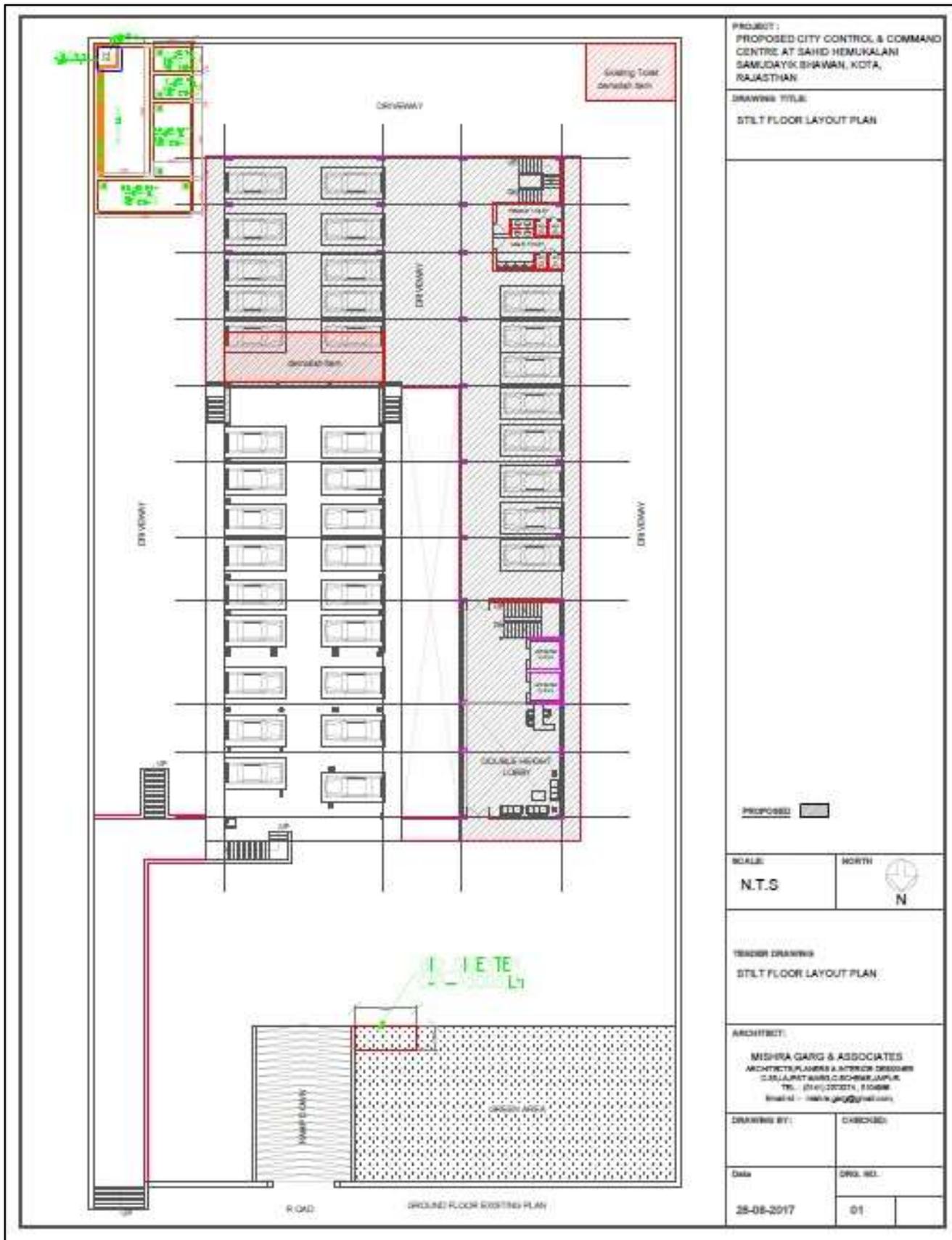




Plumbing Drawings







Electrical SLD Drawings

